



**cubigel**<sup>®</sup>  
compressors

# GENERAL CATALOGUE



for Commercial Refrigeration  
R290 · R600a · R134a · R404A



HUAYI  
COMPRESSOR  
BARCELONA



**60**

YEARS<sup>+</sup>

SINCE 1962

**TOGETHER  
AND BEYOND**



For every type of application

The most complete range of products



Sustainable Cooling

Natural Refrigerants



Low energy consumption

Worldwide presence



Mobile applications



Huayi Compressor Barcelona  
focuses on developing advanced  
compressor technologies to meet  
the commercial refrigeration market  
requirements worldwide.

# More than 60 years

of experience in designing,  
manufacturing and selling  
hermetic compressors  
and condensing units for the  
commercial refrigeration market





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# 1

## General Information





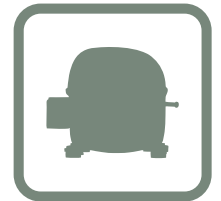
Research and Development

Leadership



Reliability

Innovation



Cutting-edge technology

People



# The Company

Huayi Group has a global presence; headquarters in China and subsidiaries in Europe.

## **Huayi Compressor Co., Ltd.**

Huayi Compressor Co., Ltd. was founded in 1990, located in Jingdezhen, China, and is a worldwide leader of household compressor manufacturing. It specializes in the production of hermetic compressors with a complete range from 40W to 2.000W for home appliances and light commercial applications.

The core value of the company is “Employee, Customer and Shareholder Satisfaction”.

## **Huayi Compressor Co., Ltd.**

Huayi Compressor Barcelona, S.L., subsidiary of Huayi Group, was founded in 1962 under the name of Unidad Hermética with the aim of producing hermetic compressors and cooling equipment. Today, the company belongs to Huayi Compressors Co. Ltd.

Oriented to develop quality product supported by European production, with more than 100 million compressors produced under the Cubigel Compressors® brand, the company mission has remained the same during more than 60 years of experience developing compressors and satisfying the refrigeration market trends of Commercial Refrigeration.

The compressors are designed to optimize energy consumption to reduce the effects of Global Warming, which are the goals of innovative R&D, focused on developing a wide range of products apt for the market requirements.





# The Product

## Extended range of compressors

The most complete range of hermetic compressors for every commercial application under the Cubigel Compressor® brand. The offer includes more than 500 different models of compressors from ranges of 1.4 to 42cc, in most refrigerant gases, main voltages and types of applications.



## Condensing Units

High quality hermetic condensing units with a wide range of options for most Commercial Refrigeration applications being also able to work under tropical temperature conditions. The range of condensing unit models covers both standard and customized versions.



## The green cooling ranges

The advanced design of the Green Cooling ranges allows a remarkable efficiency improvement. These ranges comprise High Efficiency, Natural Refrigerants and the Variable Speed Compressors. This last one is crucial to reduce refrigeration energy consumption as the motor is electronically controlled.



## Compressors for mobile applications

The best DC power supply compressors for mobile applications that are used in recreational vehicles, such as boats, caravans, cars that are equipped with refrigerators and freezers; and also in trucks or other transportation vehicles equipped with air conditioners in the sleeping cabins.





# Family of Compressors and Condensing Units

## Small L range



**Features:**  
More compact, more efficient  
**Range:**  
1.4 to 3.1 cc  
**Refrigerants:**  
R134a, R600a, R290  
**Applications:**  
Small refrigerators and freezers.

## B range



**Features:**  
More displacement, more efficient, compactness  
**Range:**  
2.2 to 6.5 cc  
**Refrigerants:**  
R134a, R600a, R290  
**Applications:**  
Water coolers can / bottle coolers, small refrigerator and freezers.

## HYB, HYE, HYS, HY and HYF range



**Features:**  
More displacement, more efficient  
**Range:**  
2.5 to 15.3 cc  
**Refrigerants:**  
R134a, R600a  
**Applications:**  
Ice cream freezers, Chest coolers, Freezers, Household freezers.

## F range



**Features:**  
More displacement, compact size  
**Range:**  
3.0 to 8.1 cc  
**Refrigerants:**  
R290  
**Applications:**  
Ice cream freezers, Bottle coolers, Chest coolers, Freezers, Refrigerated Displays counters, Display cabinets.

## U range



**Features:**  
More efficient, compact size, extremely silent, green cooling  
**Range:**  
3.5 to 10.2 cc  
**Refrigerants:**  
R134a, R290, R600a, R454C, R455A  
**Applications:**  
Ice cream freezers, Bottle coolers, Chest coolers, Freezers, Refrigerated Displays counters, Display cabinets.

## U+ range

**Features:**  
More efficient, compact size, extremely silent, green cooling

**Range:**  
10.5 to 14.2 cc

**Refrigerants:**  
R134a, R290, R600a, R454C, R455A

**Applications:**  
Ice cream freezers, Bottle coolers, Chest coolers, Freezers,  
Refrigerated Displays counters, Display cabinets.



## L range



**Features:**

Most extended models and 3 levels of efficiency: Standard, High and Very High

**Range:**  
4.56 to 10.7 cc

**Refrigerants:**  
R134a, R404A, R600a, R290, R507, R513, R450A, R452A, R448A, R449A, R454C, R455A

**Applications:**  
All cooling applications like refrigerators, freezers, bottle coolers, can coolers, ice cream freezers, vending machines, beer dispensers, soft drink dispensers and ice makers

## P range

**Features:**  
Most used models offering 3 levels of efficiency - Standard, High, Very High

**Range:**  
12.1 to 18.0 cc

**Refrigerants:**  
R134a, R404A, R600a, R290, R507, R513, R450A, R452A, R448A, R449A, R454C,  
R455A

**Applications:**  
All cooling applications such as refrigerators, freezers, bottle coolers, can coolers,  
ice cream freezers, vending machines, beer dispensers, soft drink dispensers, ice  
makers and heat pumps, among others.



## P+ range



**Features:**

More efficient, green cooling

**Range:**  
16.5 to 17.6 cc

**Refrigerants:**  
R290

**Applications:**  
All cooling applications such as refrigerators, freezers, bottle coolers, can  
coolers, ice cream freezers, vending machines, beer dispensers, soft drink  
dispensers, ice makers and heat pumps, among others

## X range

Performs with high reliability and efficiency. Designed to work under heavy-duty conditions

**Features:**

**Range:**

16.0 to 23.2 cc

**Refrigerants:**

R134a, R404A, R600a, R290, R507, R513, R450A, R452A, R448A, R449A, R454C, R455A

**Applications:**

Refrigerators and freezers, display cabinets, display islands, supermarket refrigeration equipment and blast chillers among others.



## X+ range

**Features:**

Improved efficiency. Designed to work under heavy-duty conditions

**Range:**

21.0 to 28.0 cc

**Refrigerants:**

R290

**Applications:**

Refrigerators and freezers, display cabinets, display islands, supermarket refrigeration equipment and blast chillers among others



## S range

**Features:**

Top-capacity range, optimized design to reduce vibration

**Range:**

26.0 to 42.0 cc

**Refrigerants:**

R134a, R404A, R290, R507, R513, R450A, R452A, R448A, R449A, R454C, R455A

**Applications:**

Large freezers and refrigerators, supermarket refrigeration equipment, blast chillers and heat pumps among others





## The Green Cooling Ranges

The most extended range of compressors for sustainable refrigeration in terms of energy consumption reduction.

The advanced design of the Green Cooling Ranges allows efficiency improvement providing energy consumption

reductions up to 45% compared to standard versions; consequently, lower CO<sub>2</sub> emissions to the atmosphere.

The Green Cooling Ranges comprise High Efficiency, Natural Refrigerants and Variable Speed Compressors.

The Green Cooling range gets to improve the compressor COP between 20% and 30% in comparison with standard ranges.

### High Efficiency Ranges

The High Efficiency models reduce energy consumption of commercial refrigeration appliances between 10% and 30% with respect to standard ranges. Most High-Efficiency models are equipped with electric motors, designed with the "optional run capacitor" concept, that is, the compressor can work with or without a running capacitor (CSR/CSIR), offering the level of efficiency with the same compressor.



### Natural Refrigerants

Natural refrigerants like propane (R290) and isobutene (R600a) are being gradually introduced in commercial appliances, not only due to the replacement of H-CFC's and HFC's refrigerants which have high impact on environment, but also because it is more efficient in terms of performance and applications' energy consumption.

Refrigerant propane has no direct contribution to global warming and its energy consumption is between 15% to 20% lower than a similar application with R404A. The Cubigel Compressors® R290 compressors offer a higher cooling capacity and COP allowing energy-saving consumption with smaller displacement.

The major environmental benefits are obtained combining the use of the R290 with the design criteria of high efficiency ranges. These compressor models, in their more advanced version can save up to 50% of energy when compared with standard efficiency series of R404A thanks to its high-efficiency mechanics, its advanced motor winding design and the optional running capacitor concept.



## Variable Speed Compressors

The Variable Speed Compressor offers the lowest energy consumption by means of electronically self-adjusting the compressor's speed to the appliance's cooling needs, while improving COP up to 40%.

Using Drop-in solution with communication capabilities, this compressor automatically achieves the best efficiency for the appliance while dynamically adapting the compressor's speed to the needed cooling capacity.

The major benefit can be obtained with a Variable Speed Compressor combined with the use of natural refrigerants, achieving a better performance with no contribution to global warming.

Variable  
Speed  
Compressors



### Features

#### Application:

LMBP

#### Programming modes:

Drop-in control, Frequency control

#### Voltage range:

220-240V and 115-127V AC

#### Models:

NVK35FSC, NVS50FSC, NMD50FSC, NVS70FSC, NMD70FSC, NUD100FSC, NUD125FSC and NUS160FSC

#### Refrigerant:

R290







## DC Compressors for mobile applications

The Cubigel Compressors mobile cooling solutions for transportation vehicles are designed to operate from a 12-24-42V DC power supply. These compressors are designed for mobile DC applications in boats, trucks, private cars, medical appliances in ambulances, truck cabin air conditioners, among others.

Our DC compressor range is the answer to the needs of users requiring comfort and reliability while traveling, either on holidays, at work or in any other circumstance where a DC powered air conditioner is utilized.

These compressors are designed to operate from a low voltage DC power supply to operate silently, efficiently and reliably even up to angles of tilt of 20° respectively, working with refrigerant R134a, R600a and R290.

The electronic driver from all Mobile Compressors include the Drop-in programming option, which is a plug-in system for automatically self-adapting compressor speed to the current thermal load.

DC  
Compressors  
Range



### Features

#### Application:

LBP and LMBP

#### Programming modes:

Drop-in control, Frequency control

#### Voltage range:

12-24-42V DC / 100-240V AC

#### Refrigerant:

R134a, R600a and R290

# Condensing Units

Cubigel Compressors offers a complete range of Condensing Units either standard or customized version, along with a wide variety of components to assemble customized condensing units.

## Features, Benefits and Customized versions

### Features and Benefits

- Complete range from 1.4 to 42 cc
- High reliability & top-quality components
- High Efficiency version available
- Specific customized range
- Designed to work under 43°C
- Suitable for all refrigerants & applications

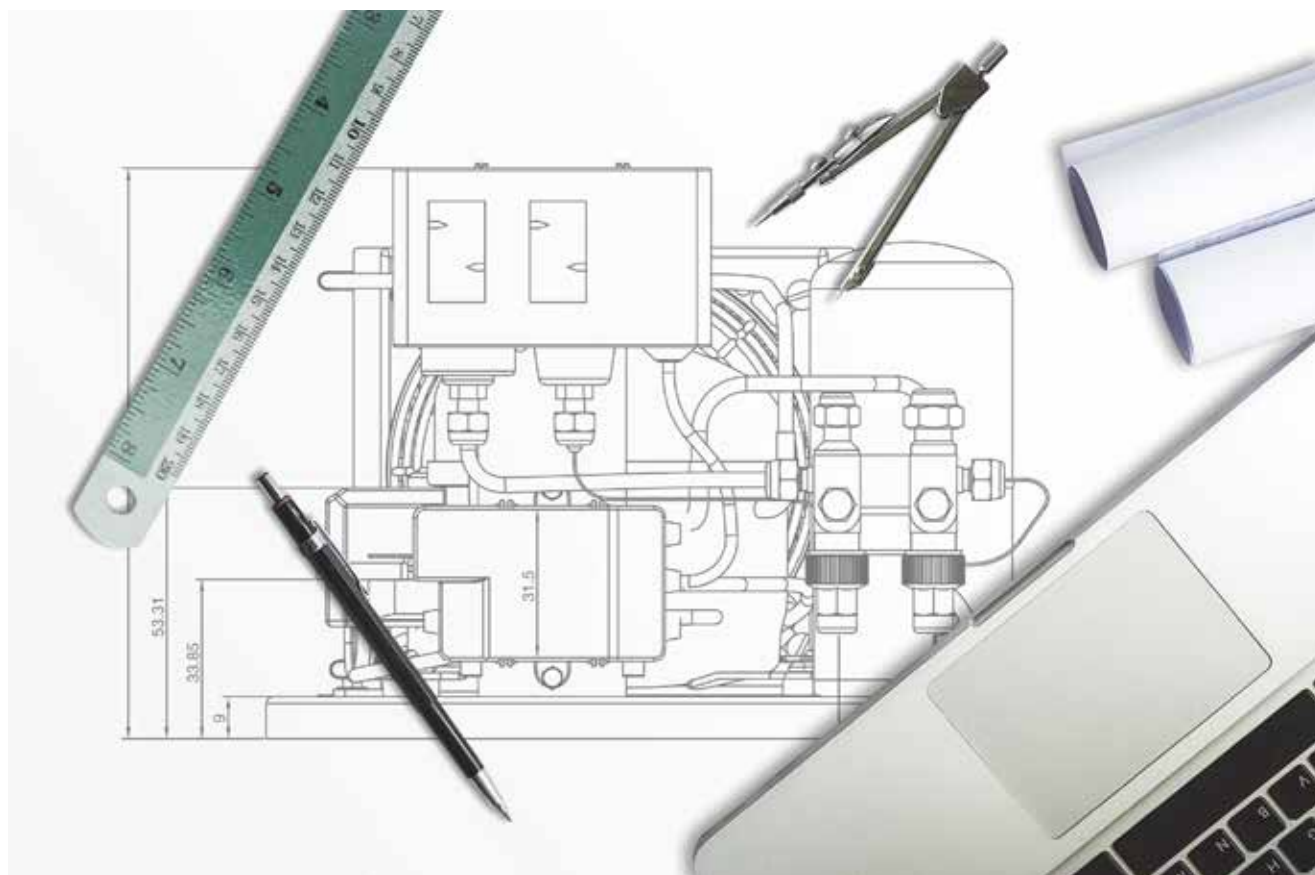
### Main specific components

- Special power supply cable
- Special assembly supports (base plates)
- Dryer filters included (ceramic, molecular)
- Special pressure switches
- Non-assembled components
- Thermostat cables
- Special copper tubes (T connections)
- Sight glass
- Schrader valves
- Specific packaging
- Capillary tube
- Evaporating tray

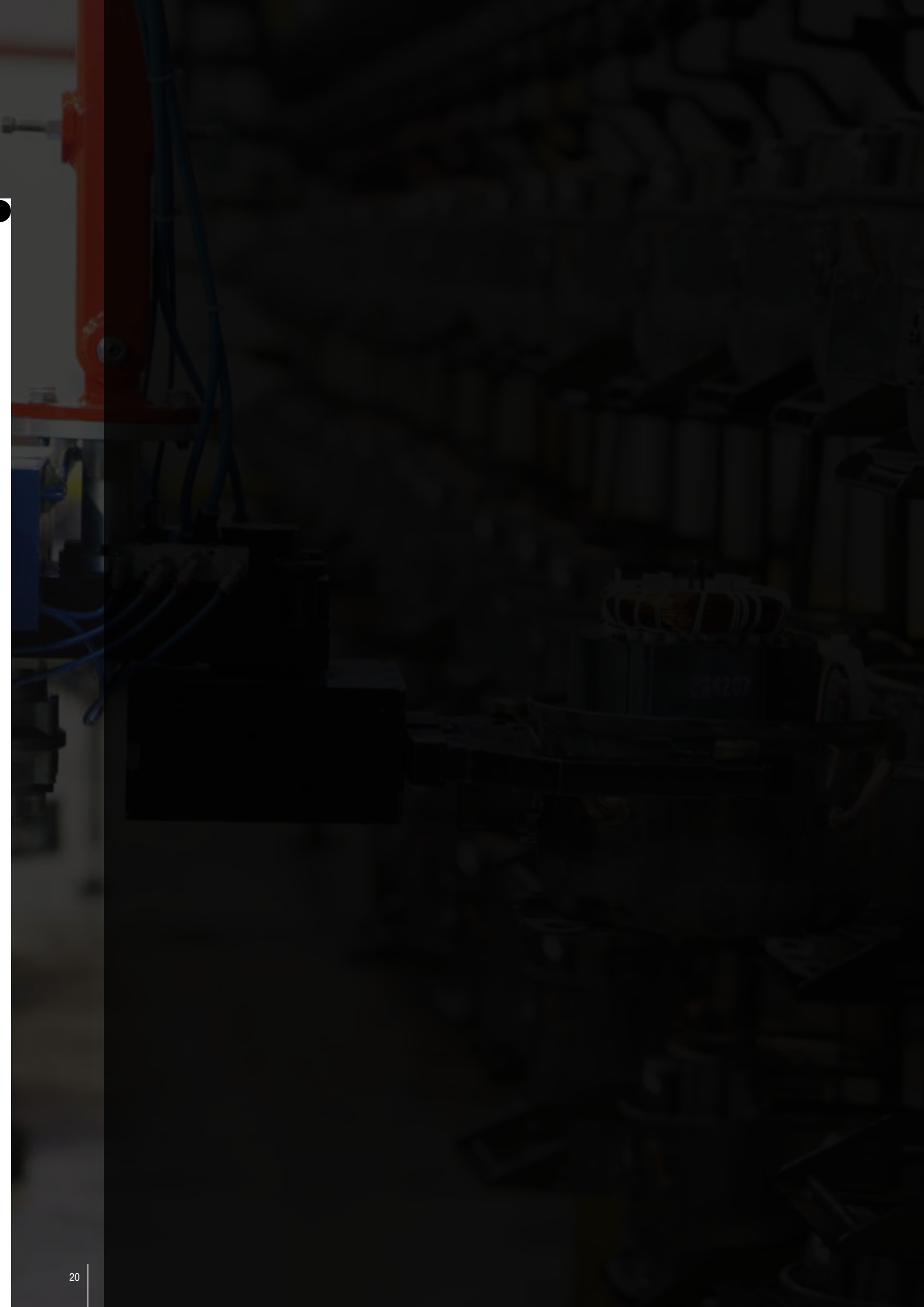
### Main specific services

- Units UL approved on request
- Certified laboratory facilities at customer disposal
- Quick prototype building
- Quick quotation system

Condensing  
Units





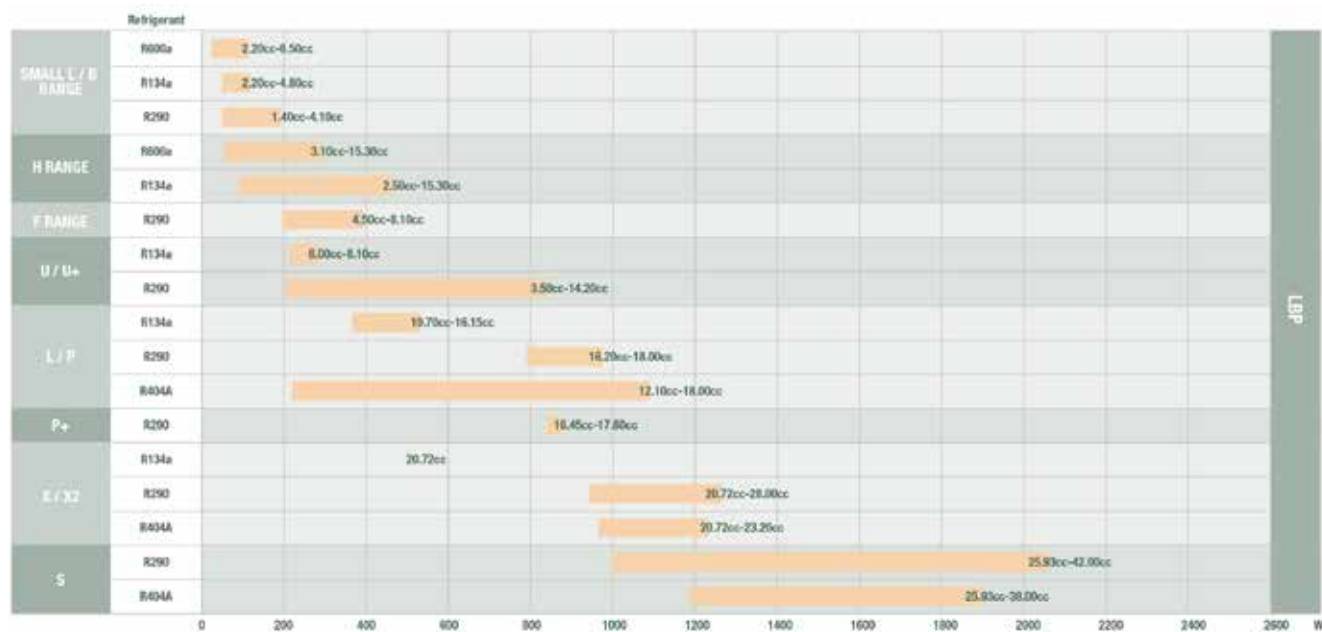


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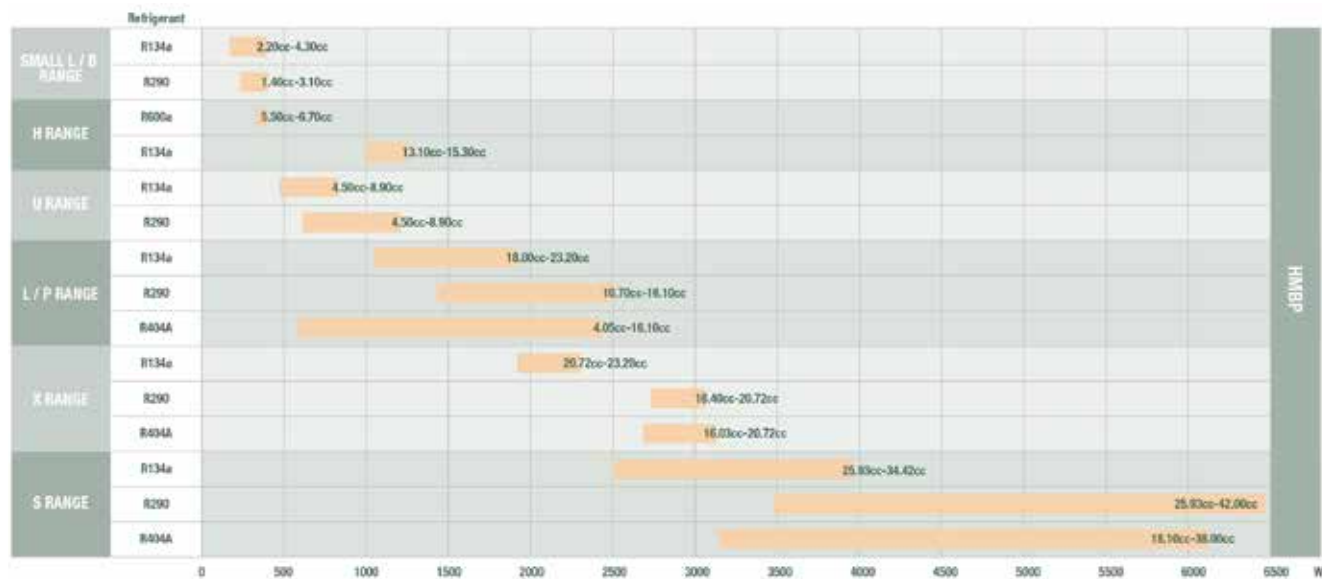
## Compressor Information



## Compressors Ranges LBP

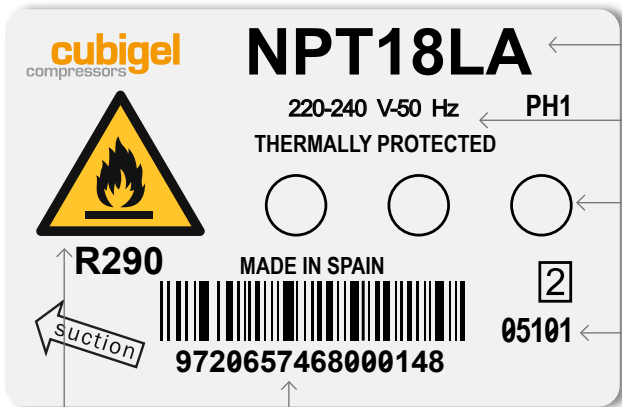


## Compressors Ranges HMBP



# Labels and Approvals

For F, U, U+, L, P, P+, X+, X, S



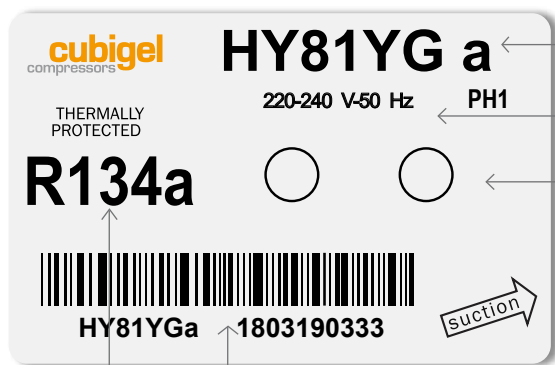
- Model
- Voltage
- Approvals
- Production Date
- Bar Code
- Refrigerant

For Small L, B, HL & HK



- Model
- Voltage
- Approvals
- Bar Code
- Refrigerant

For HY, HYE, HYB & HFY



- Model
- Voltage
- Approvals
- Bar Code
- Refrigerant

Approvals



Directive compliance declarations



Flammable gases



# Nomenclature U, U+, L, P, P+, X, X+ and S Ranges

model

| G | L | Y | 60 | R | A | a |
|---|---|---|----|---|---|---|
|---|---|---|----|---|---|---|

Indicates refrigerant.

**G** = R134a      **N** = R290  
**M** = R404A/R507    **H** = R600a

Indicates compressor range (overall design).

**L** = 4.5 - 10.7cm<sup>3</sup>      **X** = 16.0 - 23.0cm<sup>3</sup>      **U** = 4.5 - 14.2cm<sup>3</sup>  
**P** = 12.0 - 18.0cm<sup>3</sup>      **S** = 18.0 - 38.0cm<sup>3</sup>      **F** = 18.0 - 38.0cm<sup>3</sup>  
**H** = 11.3 - 18.0cm<sup>3</sup>

Indicates energy efficiency level. Not appearing in case of Standard efficiency.

**Blank** = Standard Efficiency  
**C** = Enhance Efficiency  
**M** = Medium  
**Y / G** = High Efficiency - Run Capacitor Optional RSIR/RSCR or CSIR/CSR  
**T** = Top Efficiency - Run Capacitor RSCR or CSR  
**S** = Super Efficiency - Run Capacitor Optional RSIR/RSCR or CSIR/CSRR

Indicates approximate compressor displacement under the following rule:

**U / L** ranges 10 times the approx. displacement in cm<sup>3</sup>/rev (GL90TB -> approx. 9 cm<sup>3</sup>/rev)  
**P / X / S** ranges The approx. displacement in cm<sup>3</sup>/rev (MX21TG -> approx. 21 cm<sup>3</sup>/rev)

Indicates the starting torque, application type and compressor cooling:

|                            |                                            |                                     |
|----------------------------|--------------------------------------------|-------------------------------------|
| <b>A</b> = LBP - LST - S   | <b>L</b> = LBP - HST - FAN (Current Relay) | <b>R</b> = HMBP - HST - FAN         |
| <b>C</b> = LBP - LST - FAN | <b>M</b> = HMBP - LST/HST - S/FAN          | (CSR versions with Current Relay)   |
| <b>D</b> = LBP - HST - S   | <b>N</b> = LMBP - LST/HST - S/FAN          | <b>T</b> = HMBP - HST - FAN         |
| <b>F</b> = LBP - HST - FAN | <b>P</b> = HMBP - LST - FAN                | (CSR versions with Potential Relay) |

Indicates the rated voltage:

|                                                |                                                           |
|------------------------------------------------|-----------------------------------------------------------|
| <b>A</b> = 220-240V 50Hz                       | <b>G</b> = 200-220V 50Hz / 220-230V 60Hz                  |
| <b>B</b> = 220-240V 50Hz (standard efficiency) | <b>J</b> = 100V 50/60Hz                                   |
| <b>C</b> = 100V 50/60Hz (standard efficiency)  | <b>N</b> = 200-220V 50Hz or 200-240V 50Hz / 220-230V 60Hz |
| <b>D</b> = 115V 60Hz                           | <b>R</b> = 115-127V 60Hz                                  |
| <b>E</b> = 115V 60Hz (standard efficiency)     | <b>3</b> = 3 phase 400-440V 50/60Hz                       |
| <b>F</b> = 208-230V 60Hz                       |                                                           |

Indicates a variant of the model that only affects the configuration of electrical components: Its meaning may vary from model to model. It does not appear on the compressor label but it is used for ordering, invoicing and HCB internal processes.

**Examples:**

**1.** In high-efficiency compressors ("Y" series, i.e.: GPY12LA or MLY80RD), the letters "a" or "b" may indicate the type of electrical connection corresponding to the electrical Accessories supplied with the compressor.

**a** = no use of running capacitor  
**b** = use of running capacitor

**2. In X range** it indicates the electrical accessories corresponding to the following situations:

**a** = Current relay + NTC  
(no external connecting box).

# Compressor Nomenclature Small L & B Ranges

|                                                                                                                                                          |       |    |   |   |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----|---|---|---|
|                                                                                                                                                          | model |    |   |   |   |
|                                                                                                                                                          | B     | 35 | C | 5 | B |
| Indicates compressor range:<br>L --> Small L range<br>B --> B range                                                                                      |       |    |   |   |   |
| Indicates approximate compressor displacement under the following rule:<br>22 - 2.2cm <sup>3</sup><br>25 - 2.5cm <sup>3</sup><br>30 - 3.0cm <sup>3</sup> |       |    |   |   |   |
| Indicates refrigerant and application:<br>H = R134a LBP<br>G = R134a HBP<br>C = R600a LBP<br>M = R600a HBP                                               |       |    |   |   |   |
| Indicates the rated voltage:<br>Blank = 220-240V 50Hz and 220-240V 60 Hz<br>0 = 100V 50/60Hz<br>5 = 115V 60Hz<br>7 = 127V 60Hz                           |       |    |   |   |   |
| Indicates efficiency level:<br>Blank = Standard Efficiency<br>B = High Efficiency<br>A = Very High Efficiency<br>S = Top efficiency                      |       |    |   |   |   |

|                                                                                                                                                          |       |   |   |    |   |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---|---|----|---|---|
|                                                                                                                                                          | model |   |   |    |   |   |
|                                                                                                                                                          | N     | B | C | 30 | R | A |
| R290 Models<br>Indicates compressor range:<br>L --> Small L range<br>B --> B range                                                                       |       |   |   |    |   |   |
| Indicates electrical condiguration:<br>C --> Without Running Capacitor<br>G --> With Running Capacitor                                                   |       |   |   |    |   |   |
| Indicates approximate compressor displacement under the following rule:<br>22 - 2.2cm <sup>3</sup><br>25 - 2.5cm <sup>3</sup><br>30 - 3.0cm <sup>3</sup> |       |   |   |    |   |   |
| Indicates application:<br>For R290 (Propane) Models:<br>C = LBP – LST – Static<br>N = LMBP – HST – Static / Fan<br>R = HMBP – HST - Fan                  |       |   |   |    |   |   |
| Indicates the rated voltage:<br>A = 220-240V 50Hz<br>R = 115-127V 60Hz                                                                                   |       |   |   |    |   |   |

# Nomenclature HY Ranges

|                                                                                                                                                                                                                                                                         |       |   |    |   |   |   |    |   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---|----|---|---|---|----|---|
|                                                                                                                                                                                                                                                                         | model |   |    |   |   |   |    |   |
|                                                                                                                                                                                                                                                                         | HY    | E | 55 | Y | G | U | 63 | a |
| Indicates Huayi name<br>HY                                                                                                                                                                                                                                              |       |   |    |   |   |   |    |   |
| Indicates compressor range<br>E = 4.5 – 12.3cm <sup>3</sup> J = 3.0 – 6.9cm <sup>3</sup><br>B = 2.5 – 9.6cm <sup>3</sup> S = 4.5 – 12.5cm <sup>3</sup><br>blank = 6.9 – 15.3cm <sup>3</sup>                                                                             |       |   |    |   |   |   |    |   |
| Indicates approximate compressor displacement under the following rule:<br>10 times the approx. displacement in cm3/rev (55 -> approx. 5.5 cm3/rev)                                                                                                                     |       |   |    |   |   |   |    |   |
| Indicates refrigerant.<br>Y = R134a<br>M = R600a                                                                                                                                                                                                                        |       |   |    |   |   |   |    |   |
| Indicates energy efficiency level.<br>Blank = Less than 1.30 W/W<br>Efficiency level H < G < K < T < S < X < D                                                                                                                                                          |       |   |    |   |   |   |    |   |
| Indicates following configuration:<br>U = concave-shaped valve plate, used only in R600a products.<br>J stands for the mini-products of extended range of HYB which are smaller than 5.0 cc in displacement, if the cop is below than 1.3, the letter J may be omitted. |       |   |    |   |   |   |    |   |
| Indicates the rated voltage:<br>Blank = 220-240V 50Hz<br>62 = 220-240V 60Hz<br>42 = 115V 60HZ<br>63 = 220-240V 50-60Hz<br>72 = 115-127V 60Hz<br>81 = 160-260V 50Hz<br>83 = 160-260V 50Hz / 220-240V 60Hz                                                                |       |   |    |   |   |   |    |   |
| Indicates winding material:<br>Blank = copper<br>a = aluminium                                                                                                                                                                                                          |       |   |    |   |   |   |    |   |

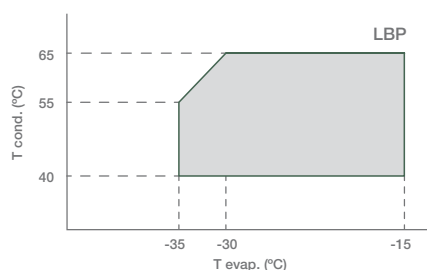


# SOA - Safe Operating Area

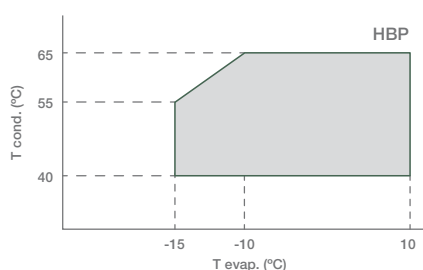
In order to grant the compressor reliability it is recommended that the point representing the operating conditions (suction and discharge pressures) falls within the shadowed area of the corresponding graph.

**For Small L, B, HYE, HYB, HYS, HY, HL, HK and HYF**

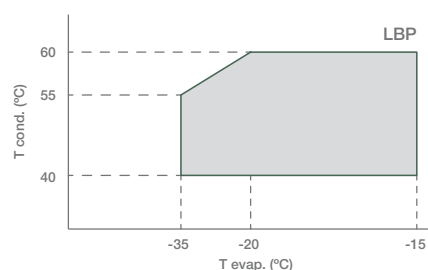
**SOA R134a LBP**



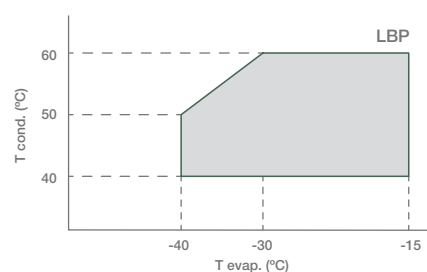
**SOA R134a HBP**



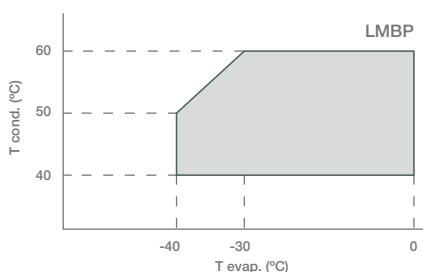
**SOA R600a LBP**



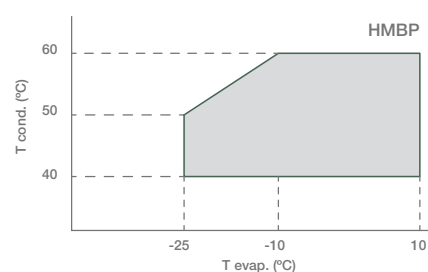
**SOA R290 LBP**



**SOA R290 LMBP**

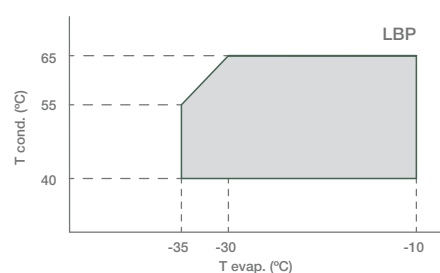


**SOA R290 HMBP**

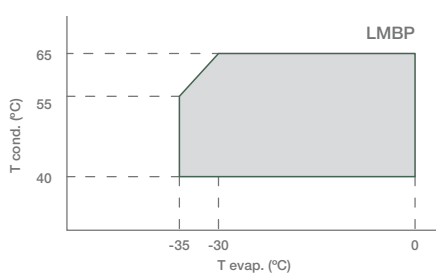


**F, U, U+, L, P, P+, X, X+ AND S**

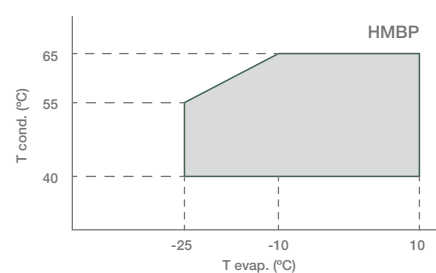
**SOA R134a LBP**



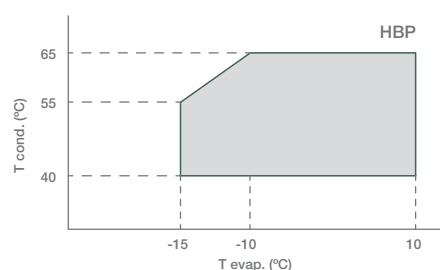
**SOA R134a LMBP**



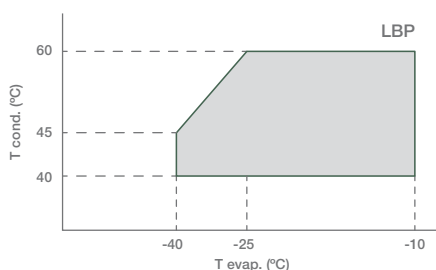
**SOA R134a HMBP**



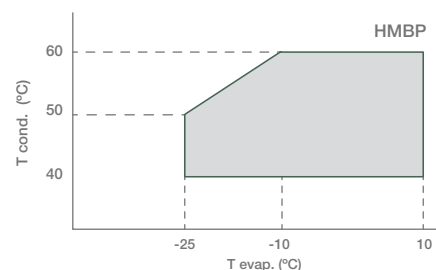
**SOA R134a HBP**



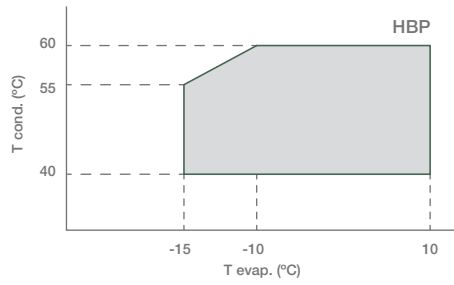
**SOA R404A LBP**



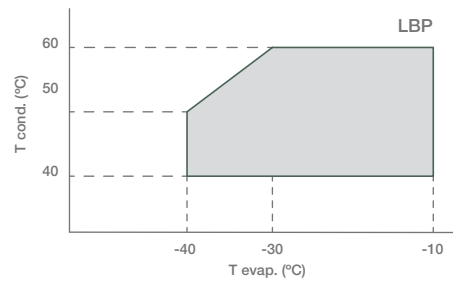
**SOA R404A HMBP**



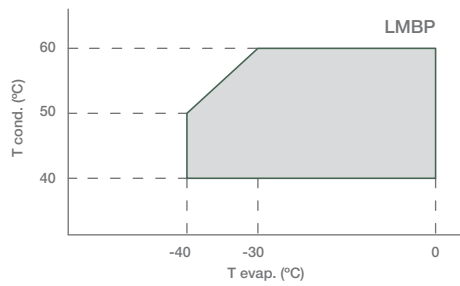
**SOA R404A HBP**



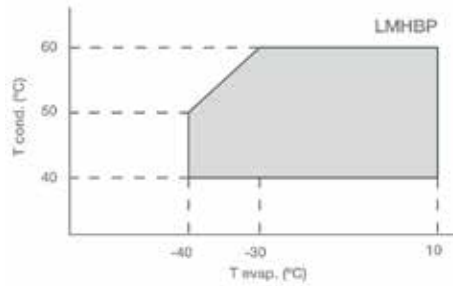
**SOA R290 LBP**



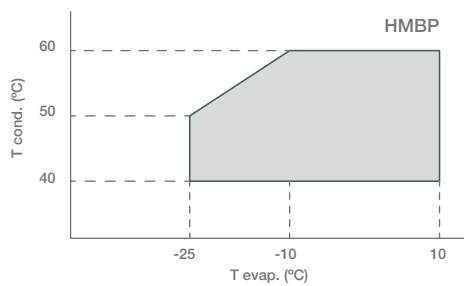
**SOA R290 LMBP**



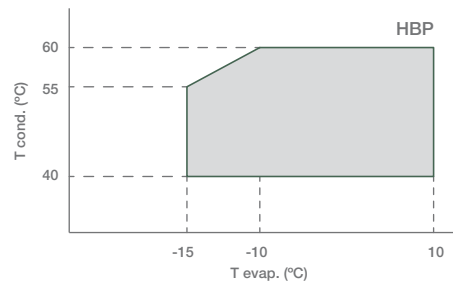
**SOA R290 LMHBP**



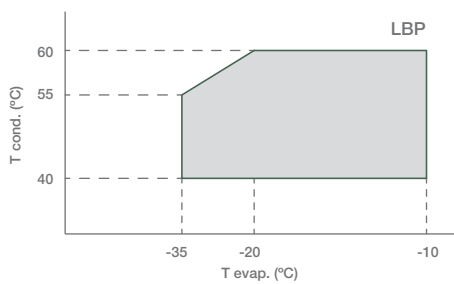
**SOA R290 HMBP**



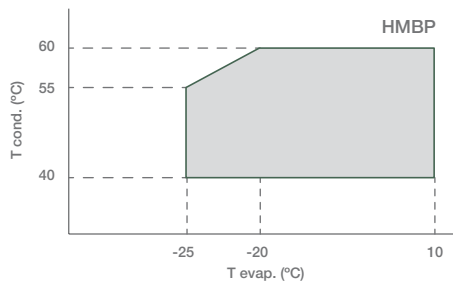
**SOA R290 HBP**



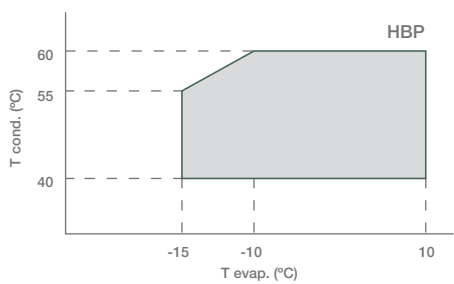
**SOA R600a LBP**



**SOA R600a HMBP**



**SOA R600a HBP**



# Types of Electrical Motors

## RSIR (Resistance Start-Induction Run)

LST motor. No capacitors. Auxiliary winding is disconnected after start up. Standard energy efficiency.

## CSIR (Capacitor Start-Induction Run)

HST motor. With starting capacitor. Auxiliary winding is disconnected after start up. Standard efficiency.

## RSCR (Resistance Start-Capacitor Run)

LST motor. With running capacitor. Auxiliary winding remains connected after start up. Used for high efficiency in small capacity compressors (particularly in household refrigeration)

## CSR (Capacitor Start and Run)

HST motor. Two capacitors (starting and running). Auxiliary winding remains connected after start up. Used for high efficiency in small compressors and for size reduced size motors in compressors with comparatively large displacements.

### Single phase motor classification

| Capacitor type               | HST<br>With starting capacitor |                                                                                                 | LST<br>Without starting capacitor |                                                 |
|------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------|
|                              | Motor type:<br><b>CSR</b>      | Starting device:<br>Current relay + NTC for L & P ranges<br>Potential relay for P, X & S ranges | Motor type:<br><b>RSCR</b>        | Starting device:<br><b>PTC</b>                  |
| With<br>Running capacitor    |                                |                                                                                                 |                                   |                                                 |
| Without<br>Running capacitor | Motor type:<br><b>CSIR</b>     | Starting device:<br>Current Relay                                                               | Motor type:<br><b>RSIR</b>        | Starting device:<br><b>Current Relay or PTC</b> |

### Type of starting device

**Current relay** – (electromechanical). RSIR/CSIR motors and CSR low/medium-power motors with NTC (the NTC is connected in series with the starting capacitor and the main propose is to reduce the current peaks in the relay contacts)

**Potential relay** – (electromechanical). CSR high-power motors.

**PTC** – (Positive Temperature Coefficient), the resistance increases with the temperature. Device only with RSIR or RSCR motors in the Small L, B, L and P ranges.

**NTC** – (Negative Temperature Coefficient), the resistance decreases with the temperature. Used in some CSR in order to reduce dimensions and components.

### Type of torque

**LST** – Low Starting Torque – Systems with capillary tube or balanced pressures at start up.

**HST** – High Starting Torque – Systems with expansion valve or capillary tube, with unbalanced pressures at start up.

# How to read this Catalogue

## Compressors

| R290                           |          | HMBP   HBP |              | 50 Hz |             |                             |                      |       |          |           |                                                                              |      |      |      |        |      |              |        |     |
|--------------------------------|----------|------------|--------------|-------|-------------|-----------------------------|----------------------|-------|----------|-----------|------------------------------------------------------------------------------|------|------|------|--------|------|--------------|--------|-----|
| Indicates Green Cooling models |          | MODEL      | DISPLACEMENT | POWER | APPLICATION | CPR COOLING                 | VOLTAGE<br>FREQUENCY | MOTOR | STARTING | EXPANSION | REFRIGERATION CAPACITY                                                       |      |      |      |        |      | WEIGHT<br>Kg | DESIGN |     |
|                                |          |            | cm³          | hp    |             |                             |                      |       |          |           | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature °C |      |      |      |        |      |              |        |     |
|                                |          |            |              |       |             |                             |                      |       |          |           | Cecomaf (W)                                                                  |      |      |      | Ashrae |      |              |        |     |
|                                |          |            |              |       |             |                             |                      |       |          |           | -25                                                                          | -15  | 5    |      | 10     | 7.2  |              |        |     |
|                                |          |            |              |       |             |                             |                      |       |          |           |                                                                              |      | W    | COP  |        | W    |              |        | COP |
|                                | NBC22RA  | 2.20       | 1/120        | HMBP  | F           | 220-240V 50Hz ~1            | CSIR                 | R     | C-V      | 54        | 93                                                                           | 222  | 1.87 | 264  | 265    | 2.21 | 5.20         | Bc     |     |
|                                | NBC30RA  | 3.10       | 1/12         | HMBP  | F           | 220-240V 50Hz ~1            | CSIR                 | R     | C-V      | 100       | 157                                                                          | 354  | 2.21 | 421  | 423    | 2.61 | 5.80         | Be     |     |
|                                | NUY45RAa | 4.50       | 1/8          | HMBP  | F           | 220-240V 50Hz ~1            | CSIR                 | R     | C-V      | 142       | 231                                                                          | 516  | 2.36 | 610  | 615    | 2.77 | 9.30         | Ub     |     |
|                                | NUY55RAa | 5.50       | 1/6          | HMBP  | F           | 220-240V 50Hz ~1            | CSIR                 | R     | C-V      | 192       | 298                                                                          | 653  | 2.29 | 771  | 778    | 2.69 | 9.50         | Ub     |     |
|                                | NUY60RAa | 6.00       | 1/6          | HMBP  | F           | 220-240V 50Hz ~1            | CSIR                 | R     | C-V      | 208       | 328                                                                          | 714  | 2.32 | 841  | 850    | 2.72 | 9.48         | Ub     |     |
|                                | NUY70RAa | 6.70       | 1/5          | HMBP  | F           | 220-240V 50Hz ~1            | CSIR                 | R     | C-V      | 248       | 382                                                                          | 817  | 2.34 | 961  | 972    | 2.75 | 9.60         | Uc     |     |
|                                | NUY70RAb | 6.70       | 1/5          | HMBP  | F           | 220-240V 50Hz ~1            | CSR                  | R     | C-V      | 248       | 382                                                                          | 817  | 2.47 | 961  | 972    | 2.90 | 9.70         | Uc     |     |
|                                | NUY80RAa | 8.10       | 1/4          | HMBP  | F           | 220-240V 50Hz ~1            | CSIR                 | R     | C-V      | 287       | 456                                                                          | 931  | 2.21 | 1078 | 1100   | 2.60 | 9.43         | Uc     |     |
|                                | NUY80RAb | 8.10       | 1/4          | HBP   | F           | 220-240V 50Hz ~1            | CSR                  | R     | C-V      | -         | 456                                                                          | 958  | 2.14 | 1127 | 1140   | 2.71 | 9.53         | Uc     |     |
|                                | NUY90RAa | 8.90       | 1/4          | HMBP  | F           | 220-240V 50Hz ~1            | CSIR                 | R     | C-V      | 290       | 461                                                                          | 1045 | 2.25 | 1240 | 1247   | 2.50 | 9.80         | Uc     |     |
|                                | NPT14RA  | 14.32      | 1/2          | HBP   | F           | 220-240V 50Hz ~1            | CSR                  | R     | C-V      | -         | 763                                                                          | 1709 | 2.26 | 2085 | 2065   | 2.69 | 12.25        | Pd     |     |
|                                | NPT16RA  | 16.10      | 1/2          | HBP   | F           | 220-240V 50Hz ~1            | CSR                  | R     | C-V      | -         | 853                                                                          | 1911 | 2.18 | 2331 | 2310   | 2.55 | 12.34        | Pd     |     |
|                                | NX18TBa  | 18.40      | 2/3          | HMBP  | F           | 220-240V 50Hz ~1            | CSR                  | R     | C-V      | 511       | 852                                                                          | 2039 | 2.22 | 2440 | 2445   | 2.61 | 16.14        | Xd     |     |
|                                | NX21TBa  | 20.72      | 2/3          | HMBP  | F           | 220-240V 50Hz ~1            | CSR                  | R     | C-V      | 601       | 973                                                                          | 2267 | 2.18 | 2705 | 2714   | 2.55 | 16.09        | Xd     |     |
|                                | NX21TGa  | 20.72      | 2/3          | HMBP  | F           | 200-220/220-230V 50/60Hz ~1 | CSR                  | R     | C-V      | 601       | 975                                                                          | 1085 | 2.06 | 2661 | 2675   | 2.41 | 16.20        | Xd     |     |
| Indicates New models           |          | NST26RA    | 25.93        | 3/4   | HMBP        | F                           | 220-240V 50Hz ~1     | CSR   | R        | C-V       | 728                                                                          | 1264 | 2931 | 2.40 | 3472   | 3498 | 2.82         | 22.00  | Sd  |
|                                |          | NST34RA    | 34.42        | 1     | HBP         | F                           | 220-240V 50Hz ~1     | CSR   | R        | C-V       | -                                                                            | 1822 | 4010 | 2.28 | 4752   | 4786 | 2.67         | 21.10  | Sd  |
|                                |          | NST38NA    | 38.00        | 1.5   | LMHBP       | F                           | 220-240V 50Hz ~1     | CSR   | R        | C-V       | 1095                                                                         | 2003 | 4409 | 2.06 | 5225   | 5262 | 2.40         | 22.20  | Sd  |







# 3.

Compressors  
Catalogue

**R290/R600a**

# R290 LBP • 50 Hz

# Natural Refrigerant

|                                                                                     | MODEL    | DISPLACEMENT | POWER | APPLICATION | CPR COOLING | VOLTAGE<br>FREQUENCY    | MOTOR | STARTING | EXPANSION | REFRIGERATION CAPACITY                                                       |     |            |             |     |            |             | WEIGHT | DESIGN |
|-------------------------------------------------------------------------------------|----------|--------------|-------|-------------|-------------|-------------------------|-------|----------|-----------|------------------------------------------------------------------------------|-----|------------|-------------|-----|------------|-------------|--------|--------|
|                                                                                     |          |              |       |             |             |                         |       |          |           | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature °C |     |            |             |     |            |             |        |        |
|                                                                                     |          |              |       |             |             |                         |       |          |           | Cecomaf (W)                                                                  |     |            |             |     | Ashrae     |             |        |        |
|                                                                                     |          |              |       |             |             |                         |       |          |           | -35                                                                          | -30 | -25        |             | -10 | -23.3      |             |        |        |
|                                                                                     |          |              |       |             |             |                         |       |          |           |                                                                              |     | W          | COP         |     | W          | COP         |        |        |
| cm³                                                                                 | hp       |              |       |             |             |                         |       |          |           |                                                                              |     |            |             |     | Kg         |             |        |        |
|    | L14U     | 1.40         | 1/16  | LBP         | S           | 220-240V 50/60Hz ~1     | RSIR  | P        | C         | 20                                                                           | 27  | <b>37</b>  | <b>0.61</b> | 56  | <b>51</b>  | <b>0.80</b> | 5.40   | Lb     |
|    | L22UL    | 2.20         | 1/14  | LBP         | S           | 220-240V 50Hz ~1        | RSIR  | P        | C         | 37                                                                           | 51  | <b>69</b>  | <b>0.84</b> | 101 | <b>95</b>  | <b>1.10</b> | 5.40   | Lb     |
|    | NBC25CA  | 2.60         | 1/14  | LMBP        | S           | 220-240V 50Hz ~1        | RSIR  | P        | C         | 40                                                                           | 56  | <b>76</b>  | <b>1.01</b> | 159 | <b>104</b> | <b>1.33</b> | 5.46   | Be     |
|    | NBC30NG  | 3.10         | 1/12  | LMBP        | S/F         | 220-240V 50/60Hz ~1     | CSIR  | R        | C-V       | 52                                                                           | 73  | <b>98</b>  | <b>1.06</b> | 195 | <b>135</b> | <b>1.39</b> | 6.42   | Bf     |
|    | NBC35NA  | 3.50         | 1/12  | LMBP        | S           | 220-240V 50Hz ~1        | RSIR  | P        | C         | 57                                                                           | 79  | <b>106</b> | <b>1.04</b> | 211 | <b>143</b> | <b>1.35</b> | 6.20   | Bf     |
|    | NBC41NA  | 4.10         | 1/8   | LMBP        | S           | 220-240V 50Hz ~1        | CSIR  | R        | C-V       | 72                                                                           | 102 | <b>136</b> | <b>0.99</b> | 272 | <b>185</b> | <b>1.29</b> | 6.10   | Bf     |
|    | NFT40NA  | 4.10         | 1/8   | LMBP        | S           | 220-240V 50Hz ~1        | RSCR  | P        | C         | 88                                                                           | 116 | <b>149</b> | <b>1.31</b> | 285 | <b>200</b> | <b>1.70</b> | 6.90   | Fc     |
|    | NUY45LAa | 4.50         | 1/8   | LBP         | F           | 220-240V 50Hz ~1        | CSIR  | R        | C-V       | 65                                                                           | 122 | <b>159</b> | <b>1.21</b> | 306 | <b>214</b> | <b>1.57</b> | 9.30   | Ub     |
|    | NUY45Lab | 4.50         | 1/8   | LBP         | F           | 220-240V 50Hz ~1        | CSR   | R        | C-V       | 66                                                                           | 123 | <b>161</b> | <b>1.26</b> | 311 | <b>216</b> | <b>1.64</b> | 9.45   | Ub     |
|    | NUS45NA  | 4.50         | 1/8   | LMBP        | F           | 220-240V 50Hz ~1        | RSCR  | P        | C         | 69                                                                           | 129 | <b>169</b> | <b>1.44</b> | 326 | <b>210</b> | <b>1.85</b> | 8.60   | Ud     |
|    | NUS45NG  | 4.50         | 1/8   | LMBP        | F           | 220-240V 50/60Hz ~1     | RSCR  | P        | C         | 69                                                                           | 129 | <b>169</b> | <b>1.39</b> | 326 | <b>210</b> | <b>1.80</b> | 9.00   | Ud     |
|    | NFT45NA  | 4.50         | 1/8   | LMBP        | S           | 220-240V 50Hz ~1        | RSCR  | P        | C         | 97                                                                           | 128 | <b>164</b> | <b>1.31</b> | 314 | <b>220</b> | <b>1.70</b> | 6.90   | Fd     |
|    | NFH45NG  | 4.50         | 1/8   | LMBP        | F           | 200-220/230V 50/60Hz ~1 | RSIR  | P        | C         | 92                                                                           | 122 | <b>156</b> | <b>1.04</b> | 299 | <b>210</b> | <b>1.35</b> | 6.50   | Fb     |
|    | NUT55CAa | 5.50         | 1/6   | LBP         | F           | 220-240V 50Hz ~1        | RSIR  | P        | C         | 88                                                                           | 152 | <b>196</b> | <b>1.27</b> | 382 | <b>264</b> | <b>1.64</b> | 9.10   | Ub     |
|    | NUT55CAb | 5.50         | 1/6   | LBP         | F           | 220-240V 50Hz ~1        | RSCR  | P        | C         | 88                                                                           | 152 | <b>196</b> | <b>1.39</b> | 382 | <b>264</b> | <b>1.80</b> | 9.21   | Ub     |
|    | NUT55CAc | 5.50         | 1/6   | LBP         | S           | 220-240V 50Hz ~1        | RSIR  | P        | C         | 88                                                                           | 152 | <b>196</b> | <b>1.27</b> | 382 | <b>264</b> | <b>1.64</b> | 9.10   | Ub     |
|   | NUT55CAd | 5.50         | 1/6   | LBP         | S           | 220-240V 50Hz ~1        | RSCR  | P        | C         | 88                                                                           | 152 | <b>196</b> | <b>1.39</b> | 382 | <b>264</b> | <b>1.80</b> | 9.21   | Ub     |
|  | NUT55CAe | 5.50         | 1/6   | LBP         | F           | 220-240V 50Hz ~1        | CSIR  | R        | C-V       | 88                                                                           | 152 | <b>196</b> | <b>1.27</b> | 382 | <b>264</b> | <b>1.64</b> | 9.10   | Ub     |
|  | NUS55NA  | 5.50         | 1/6   | LMBP        | F           | 220-240V 50Hz ~1        | RSCR  | P        | C         | 79                                                                           | 147 | <b>193</b> | <b>1.39</b> | 373 | <b>260</b> | <b>1.85</b> | 9.10   | Ud     |
|  | NUS55NG  | 5.50         | 1/6   | LMBP        | F           | 220-240V 50/60Hz ~1     | RSCR  | P        | C         | 79                                                                           | 147 | <b>193</b> | <b>1.35</b> | 373 | <b>260</b> | <b>1.77</b> | 9.00   | Ud     |
|  | NFH55NA  | 5.50         | 1/6   | LMBP        | F           | 220-240V 50Hz ~1        | RSIR  | P        | C         | 114                                                                          | 151 | <b>194</b> | <b>1.12</b> | 371 | <b>260</b> | <b>1.45</b> | 7.50   | Fd     |
|  | NFG55NA  | 5.50         | 1/6   | LMBP        | F           | 220-240V 50Hz ~1        | RSCR  | P        | C         | 114                                                                          | 151 | <b>194</b> | <b>1.19</b> | 371 | <b>260</b> | <b>1.55</b> | 7.50   | Fd     |
|  | NUT60CAa | 6.00         | 1/6   | LBP         | F           | 220-240V 50Hz ~1        | RSIR  | P        | C         | 101                                                                          | 175 | <b>226</b> | <b>1.30</b> | 431 | <b>304</b> | <b>1.68</b> | 9.20   | Ub     |
|  | NUT60CAb | 6.00         | 1/6   | LBP         | F           | 220-240V 50Hz ~1        | RSCR  | P        | C         | 101                                                                          | 175 | <b>226</b> | <b>1.41</b> | 431 | <b>304</b> | <b>1.82</b> | 9.31   | Ub     |
|  | NUT60CAc | 6.00         | 1/6   | LBP         | S           | 220-240V 50Hz ~1        | RSIR  | P        | C         | 101                                                                          | 175 | <b>226</b> | <b>1.30</b> | 431 | <b>304</b> | <b>1.68</b> | 9.20   | Ub     |
|  | NUT60CAd | 6.00         | 1/6   | LBP         | S           | 220-240V 50Hz ~1        | RSCR  | P        | C         | 101                                                                          | 175 | <b>226</b> | <b>1.41</b> | 431 | <b>304</b> | <b>1.82</b> | 9.31   | Ub     |
|  | NUT60CAe | 6.00         | 1/6   | LBP         | F           | 220-240V 50Hz ~1        | CSIR  | R        | C-V       | 101                                                                          | 175 | <b>226</b> | <b>1.30</b> | 431 | <b>304</b> | <b>1.68</b> | 9.20   | Ub     |
|  | NUS60NA  | 6.00         | 1/6   | LMBP        | F           | 220-240V 50Hz ~1        | RSCR  | P        | C         | 98                                                                           | 170 | <b>219</b> | <b>1.39</b> | 427 | <b>295</b> | <b>1.85</b> | 9.31   | Ud     |
|  | NUS60NG  | 6.00         | 1/6   | LMBP        | F           | 220-240V 50/60Hz ~1     | RSCR  | P        | C         | 98                                                                           | 170 | <b>219</b> | <b>1.38</b> | 427 | <b>295</b> | <b>1.79</b> | 9.00   | Ud     |
|  | NFH60NA  | 6.00         | 1/6   | LMBP        | F           | 220-240V 50Hz ~1        | RSIR  | P        | C         | 132                                                                          | 174 | <b>224</b> | <b>1.12</b> | 428 | <b>300</b> | <b>1.45</b> | 6.80   | Fd     |
|  | NFG60NA  | 6.00         | 1/6   | LMBP        | F           | 220-240V 50Hz ~1        | RSCR  | P        | C         | 132                                                                          | 174 | <b>224</b> | <b>1.19</b> | 428 | <b>300</b> | <b>1.55</b> | 6.80   | Fd     |
|  | NFT60NA  | 6.00         | 1/6   | LMBP        | S           | 220-240V 50Hz ~1        | RSCR  | P        | C         | 130                                                                          | 171 | <b>220</b> | <b>1.31</b> | 420 | <b>295</b> | <b>1.70</b> | 6.90   | Fc     |
|  | NFH60NG  | 6.00         | 1/6   | LMBP        | F           | 200-220/230V 50/60Hz ~1 | RSCR  | P        | C         | 130                                                                          | 171 | <b>220</b> | <b>1.08</b> | 420 | <b>295</b> | <b>1.40</b> | 6.90   | Fc     |
|  | NUT70CAa | 6.70         | 1/5   | LBP         | F           | 220-240V 50Hz ~1        | RSIR  | P        | C         | 109                                                                          | 195 | <b>250</b> | <b>1.30</b> | 463 | <b>335</b> | <b>1.68</b> | 9.20   | Ub     |
|  | NUT70CAb | 6.70         | 1/5   | LBP         | F           | 220-240V 50Hz ~1        | RSCR  | P        | C         | 109                                                                          | 195 | <b>250</b> | <b>1.39</b> | 463 | <b>335</b> | <b>1.80</b> | 9.41   | Ub     |
|  | NUT70CAc | 6.70         | 1/5   | LBP         | S           | 220-240V 50Hz ~1        | RSIR  | P        | C         | 109                                                                          | 195 | <b>250</b> | <b>1.30</b> | 463 | <b>335</b> | <b>1.68</b> | 9.20   | Ub     |
|  | NUT70CAd | 6.70         | 1/5   | LBP         | S           | 220-240V 50Hz ~1        | RSCR  | P        | C         | 109                                                                          | 195 | <b>250</b> | <b>1.39</b> | 463 | <b>335</b> | <b>1.80</b> | 9.41   | Ub     |
|  | NUT70CAe | 6.70         | 1/5   | LBP         | F           | 220-240V 50Hz ~1        | CSIR  | R        | C-V       | 109                                                                          | 195 | <b>250</b> | <b>1.30</b> | 463 | <b>335</b> | <b>1.68</b> | 9.20   | Ub     |
|  | NUS70NA  | 6.70         | 1/5   | LMBP        | F           | 220-240V 50Hz ~1        | RSCR  | P        | C         | 107                                                                          | 187 | <b>241</b> | <b>1.39</b> | 463 | <b>330</b> | <b>1.85</b> | 9.20   | Ud     |
|  | NUS70NG  | 6.70         | 1/5   | LMBP        | F           | 220-240V 50/60Hz ~1     | CSR   | R        | C         | 107                                                                          | 187 | <b>241</b> | <b>1.35</b> | 463 | <b>330</b> | <b>1.78</b> | 9.00   | Ud     |
|  | NFH70NA  | 6.70         | 1/5   | LMBP        | F           | 220-240V 50Hz ~1        | RSIR  | P        | C         | 145                                                                          | 191 | <b>246</b> | <b>1.12</b> | 470 | <b>330</b> | <b>1.45</b> | 7.00   | Fd     |
|  | NFG70NA  | 6.70         | 1/5   | LMBP        | F           | 220-240V 50Hz ~1        | RSCR  | P        | C         | 145                                                                          | 191 | <b>246</b> | <b>1.19</b> | 470 | <b>330</b> | <b>1.55</b> | 7.00   | Fd     |
|  | NFT70NA  | 6.70         | 1/5   | LMBP        | S           | 220-240V 50Hz ~1        | RSCR  | P        | C         | 143                                                                          | 189 | <b>242</b> | <b>1.31</b> | 463 | <b>325</b> | <b>1.70</b> | 6.90   | Fb     |
|  | NFH70NG  | 6.70         | 1/5   | LMBP        | F           | 200-220/230V 50/60Hz ~1 | RSCR  | P        | C         | 145                                                                          | 191 | <b>246</b> | <b>1.12</b> | 470 | <b>330</b> | <b>1.45</b> | 6.90   | Fb     |
|  | NUS80NA  | 8.10         | 1/4   | LMBP        | F           | 220-240V 50Hz ~1        | RSCR  | P        | C         | 134                                                                          | 231 | <b>297</b> | <b>1.39</b> | 561 | <b>400</b> | <b>1.85</b> | 9.60   | Ud     |
|  | NFH80NA  | 8.10         | 1/4   | LMBP        | F           | 220-240V 50Hz ~1        | RSIR  | P/R      | C         | 172                                                                          | 226 | <b>291</b> | <b>1.12</b> | 530 | <b>390</b> | <b>1.45</b> | 8.00   | Fe     |

# R290 LBP • 50 Hz

# Natural Refrigerant

|                                                                                    | MODEL       | DISPLACEMENT | POWER | APPLICATION | CPR COOLING | VOLTAGE<br>FREQUENCY        | MOTOR | STARTING | EXPANSION | REFRIGERATION CAPACITY                                                          |      |      |      |      |        |      | WEIGHT | DESIGN |
|------------------------------------------------------------------------------------|-------------|--------------|-------|-------------|-------------|-----------------------------|-------|----------|-----------|---------------------------------------------------------------------------------|------|------|------|------|--------|------|--------|--------|
|                                                                                    |             |              |       |             |             |                             |       |          |           | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature<br>°C |      |      |      |      |        |      |        |        |
|                                                                                    |             |              |       |             |             |                             |       |          |           | Cecomaf (W)                                                                     |      |      |      |      | Ashrae |      |        |        |
|                                                                                    |             |              |       |             |             |                             |       |          |           | -35                                                                             | -30  | -25  |      | -10  | -23.3  |      |        |        |
|                                                                                    |             |              |       |             |             |                             |       |          |           |                                                                                 |      | W    | COP  |      | W      | COP  |        |        |
| cm³                                                                                | hp          |              |       |             |             |                             |       |          |           |                                                                                 |      |      |      | Kg   |        |      |        |        |
|    | NFG80NA     | 8.10         | 1/4   | LMBP        | F           | 220-240V 50Hz ~1            | RSCR  | P        | C         | 172                                                                             | 226  | 291  | 1.19 | 530  | 390    | 1.55 | 8.10   | Fe     |
|    | NUY80NGa    | 8.10         | 1/4   | LMBP        | F           | 200-240/230V 50/60Hz ~1     | CSIR  | R        | C-V       | 185                                                                             | 238  | 303  | 1.13 | 568  | 405    | 1.46 | 9.85   | Ud     |
|    | NUY80NGb    | 8.10         | 1/4   | LMBP        | F           | 200-240/230V 50/60Hz ~1     | CSR   | R        | C-V       | 185                                                                             | 238  | 303  | 1.21 | 568  | 405    | 1.56 | 9.95   | Ud     |
|    | NUY90CAa    | 8.90         | 1/4   | LBP         | F           | 220-240V 50Hz ~1            | RSIR  | P        | C         | 157                                                                             | 267  | 338  | 1.21 | 614  | 451    | 1.55 | 9.30   | Ub     |
|    | NUY90CAb    | 8.90         | 1/4   | LBP         | F           | 220-240V 50Hz ~1            | RSCR  | P        | C         | 158                                                                             | 270  | 342  | 1.28 | 625  | 457    | 1.64 | 9.40   | Ub     |
|    | NUY90LAa    | 8.90         | 1/4   | LBP         | F           | 220-240V 50Hz ~1            | CSIR  | R        | C-V       | 157                                                                             | 267  | 338  | 1.21 | 614  | 451    | 1.55 | 9.40   | Ub     |
|    | NUY90Lab    | 8.90         | 1/4   | LBP         | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | 158                                                                             | 270  | 342  | 1.28 | 625  | 457    | 1.64 | 9.50   | Ub     |
|    | NUM90NA     | 8.90         | 1/4   | LMBP        | F           | 220-240V 50Hz ~1            | RSCR  | P        | C         | 155                                                                             | 256  | 327  | 1.17 | 617  | 430    | 1.50 | 9.60   | Ue     |
|    | NUS90NA     | 8.90         | 1/4   | LMBP        | F           | 220-240V 50Hz ~1            | RSCR  | P        | C         | 159                                                                             | 262  | 335  | 1.39 | 631  | 440    | 1.85 | 9.80   | Ud     |
|    | NUY90NGa    | 8.90         | 1/4   | LMBP        | F           | 200-220/230V 50/60Hz ~1     | CSIR  | R        | C-V       | 148                                                                             | 251  | 322  | 1.12 | 613  | 430    | 1.45 | 9.80   | Ud     |
|    | NUY90NGb    | 8.90         | 1/4   | LMBP        | F           | 200-220/230V 50/60Hz ~1     | CSR   | R        | C-V       | 148                                                                             | 251  | 322  | 1.21 | 613  | 430    | 1.55 | 9.80   | Ud     |
|    | NUG100NA    | 9.80         | 3/8   | LMBP        | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | 165                                                                             | 278  | 359  | 1.17 | 683  | 480    | 1.50 | 12.40  | Ue     |
|    | NUT100NA    | 9.80         | 3/8   | LMBP        | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | 168                                                                             | 283  | 366  | 1.17 | 696  | 490    | 1.70 | 12.40  | Ue     |
|    | NUY100NG    | 9.80         | 3/8   | LMBP        | F           | 200-220/230V 50/60Hz ~1     | CSR   | R        | C-V       | 160                                                                             | 272  | 350  | 1.21 | 680  | 470    | 1.55 | 12.40  | Ue     |
|    | NUT120NA    | 12.50        | 3/8   | LMBP        | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | 252                                                                             | 338  | 438  | 1.35 | 840  | 590    | 1.70 | 10.50  | U+b    |
|    | NUT140NA    | 14.20        | 1/2   | LMBP        | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | 296                                                                             | 397  | 515  | 1.34 | 989  | 680    | 1.70 | 10.50  | U+b    |
|    | NPT16LA     | 16.15        | 1/2   | LBP         | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | 254                                                                             | 440  | 564  | 1.16 | 1062 | 756    | 1.50 | 12.17  | Pd     |
|   | NHT160NA    | 16.45        | 1/2   | LMBP        | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | 269                                                                             | 466  | 597  | 1.31 | 1124 | 800    | 1.65 | 13.40  | P+b    |
|  | NPT18LA     | 18.00        | 2/3   | LBP         | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | 269                                                                             | 473  | 611  | 1.13 | 1165 | 820    | 1.46 | 12.30  | Pd     |
|  | NHT180NA    | 17.60        | 2/3   | LMBP        | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | 285                                                                             | 501  | 647  | 1.31 | 1233 | 840    | 1.65 | 13.40  | P+b    |
|  | NX21NGa     | 20.72        | 2/3   | LMBP        | F           | 220-240V 50/60Hz ~1         | CSR   | R        | C-V       | 267                                                                             | 517  | 675  | 1.08 | 1275 | 907    | 1.41 | 16.99  | Xd     |
|  | NXH210NA    | 20.70        | 2/3   | LMBP        | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | 259                                                                             | 502  | 655  | 1.08 | 1237 | 880    | 1.40 | 19.00  | X+b    |
|  | NX23NGa     | 23.20        | 3/4   | LMBP        | F           | 220-240V 50/60Hz ~1         | CSR   | R        | C-V       | 297                                                                             | 572  | 746  | 1.09 | 1411 | 1003   | 1.41 | 16.75  | Xd     |
|  | NXH230NA    | 23.20        | 7/8   | LMBP        | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | 284                                                                             | 547  | 714  | 1.08 | 1351 | 960    | 1.40 | 19.00  | X+b    |
|  | NXK230NA    | 23.20        | 7/8   | LMBP        | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | 302                                                                             | 582  | 759  | 1.23 | 1436 | 1020   | 1.60 | 19.00  | X+b    |
|  | NXH260NA    | 26.00        | 7/8   | LMBP        | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | 326                                                                             | 627  | 818  | 1.08 | 1547 | 1100   | 1.40 | 19.00  | X+b    |
|  | NXK260NA    | 26.00        | 7/8   | LMBP        | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | 340                                                                             | 656  | 855  | 1.23 | 1617 | 1150   | 1.60 | 19.00  | X+b    |
|  | NST26NA     | 25.93        | 7/8   | LMBP        | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | 370                                                                             | 537  | 743  | 1.14 | 1601 | 1018   | 1.49 | 21.60  | Sd     |
|  | NST26NG (*) | 25.93        | 7/8   | LMBP        | F           | 220-240V 50/60Hz ~1         | CSR   | R        | C-V       | 370                                                                             | 537  | 743  | 1.11 | 1601 | 1018   | 1.45 | 21.60  | Sd     |
|  | NST30NGb    | 29.95        | 7/8   | LMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSR   | R        | C-V       | 451                                                                             | 642  | 880  | 1.09 | 1878 | 1201   | 1.42 | 21.80  | Sd     |
|  | NST34LA     | 34.42        | 1     | LBP         | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | 657                                                                             | 878  | 1143 | 1.19 | 2210 | 1539   | 1.53 | 23.00  | Sd     |
|  | NST34NG     | 34.42        | 1     | LMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSR   | R        | C-V       | 684                                                                             | 865  | 1138 | 1.08 | 2240 | 1535   | 1.41 | 23.00  | Sd     |
|  | NST38NA     | 38.00        | 1 1/2 | LMHBP       | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | 734                                                                             | 1000 | 1315 | 1.18 | 2558 | 1774   | 1.53 | 23.00  | Sd     |
|  | NST38NG (*) | 38.00        | 1 1/2 | LMHBP       | F           | 200-220/220-230V 50/60Hz ~1 | CSR   | R        | C-V       | 734                                                                             | 1000 | 1315 | 1.08 | 2558 | 1774   | 1.40 | 23.00  | Sd     |
|  | NST38N3 (*) | 38.00        | 1 1/2 | LMBP        | F           | 400/440V 50/60Hz ~3         | CSR   | R        |           | 734                                                                             | 1000 | 1315 | 1.08 | 2558 | 1774   | 1.40 | 23.00  | Sd     |
|  | NST42NA     | 42.00        | 1 5/8 | LMBP        | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | 794                                                                             | 1082 | 1423 | 1.16 | 2769 | 1920   | 1.50 | 23.00  | Sd     |

 Green Cooling Models

(\*) Under development

 New Models

# R290 LBP • 60 Hz

# Natural Refrigerant

|                                                                                     | MODEL    | DISPLACEMENT<br><br>cm <sup>3</sup> | POWER<br><br>hp | APPLICATION | CPR COOLING | VOLTAGE<br>FREQUENCY    | MOTOR | STARTING | EXPANSION | REFRIGERATION CAPACITY                                                          |     |            |             |        |            |             | WEIGHT<br><br>Kg | DESIGN |
|-------------------------------------------------------------------------------------|----------|-------------------------------------|-----------------|-------------|-------------|-------------------------|-------|----------|-----------|---------------------------------------------------------------------------------|-----|------------|-------------|--------|------------|-------------|------------------|--------|
|                                                                                     |          |                                     |                 |             |             |                         |       |          |           | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature<br>°C |     |            |             |        |            |             |                  |        |
|                                                                                     |          |                                     |                 |             |             |                         |       |          |           | Cecomaf (W)                                                                     |     |            |             | Ashrae |            |             |                  |        |
|                                                                                     |          |                                     |                 |             |             |                         |       |          |           | -35                                                                             | -30 | -25        |             | -10    | -23.3      |             |                  |        |
|                                                                                     |          |                                     |                 |             |             |                         |       |          |           |                                                                                 |     | W          | COP         |        | W          | COP         |                  |        |
|    | L14U     | 1.40                                | 1/16            | LBP         | S           | 220-240V 50/60Hz ~1     | RSIR  | P        | C         | 23                                                                              | 32  | <b>44</b>  | <b>0.80</b> | 80     | <b>60</b>  | <b>1.05</b> | 5.40             | Lb     |
|    | L14U     | 1.40                                | 1/16            | LBP         | S           | 115-127V 60Hz ~1        | RSIR  | P        | C         | 23                                                                              | 32  | <b>44</b>  | <b>0.80</b> | 80     | <b>60</b>  | <b>1.05</b> | 5.40             | Lb     |
|    | NBC30NR  | 3.10                                | 1/12            | LMBP        | S/F         | 115-127V 60Hz ~1        | CSIR  | R        | C-V       | 50                                                                              | 89  | <b>118</b> | <b>1.07</b> | 242    | <b>159</b> | <b>1.40</b> | 6.10             | Bf     |
|    | NBC30NG  | 3.10                                | 1/12            | LMHBP       | S/F         | 220-240V 50/60Hz ~1     | CSIR  | R        | C-V       | 52                                                                              | 92  | <b>122</b> | <b>1.10</b> | 250    | <b>165</b> | <b>1.42</b> | 6.42             | Bf     |
|    | NFS30NR  | 3.15                                | 1/12            | LMBP        | S           | 115-127V 60Hz ~1        | RSCR  | P        | C         | 78                                                                              | 103 | <b>163</b> | <b>1.56</b> | 260    | <b>180</b> | <b>1.80</b> | 7.60             | Fd     |
|    | NFT35NR  | 3.50                                | 1/12            | LMBP        | S           | 115-127V 60Hz ~1        | RSCR  | P        | C         | 85                                                                              | 112 | <b>177</b> | <b>1.47</b> | 282    | <b>195</b> | <b>1.70</b> | 6.90             | Fd     |
|    | NFS35NR  | 3.44                                | 1/12            | LMBP        | S           | 115-127V 60Hz ~1        | RSCR  | P        | C         | 87                                                                              | 114 | <b>181</b> | <b>1.56</b> | 289    | <b>200</b> | <b>1.80</b> | 7.60             | Fd     |
|    | NUT40NRa | 4.00                                | 1/8             | LMBP        | F           | 115-127V 60Hz ~1        | CSIR  | R        | C-V       | 72                                                                              | 128 | <b>169</b> | <b>1.15</b> | 347    | <b>229</b> | <b>1.55</b> | 9.15             | Uc     |
|    | NUT40NRb | 4.00                                | 1/8             | LMBP        | F           | 115-127V 60Hz ~1        | CSR   | R        | C-V       | 72                                                                              | 128 | <b>169</b> | <b>1.23</b> | 347    | <b>229</b> | <b>1.65</b> | 9.22             | Uc     |
|    | NUT40NRc | 4.00                                | 1/8             | LMBP        | F           | 115-127V 60Hz ~1        | RSIR  | P        | C         | 72                                                                              | 128 | <b>169</b> | <b>1.23</b> | 347    | <b>229</b> | <b>1.55</b> | 9.22             | Uc     |
|    | NUT40NRd | 4.00                                | 1/8             | LMBP        | F           | 115-127V 60Hz ~1        | RSCR  | P        | C         | 72                                                                              | 128 | <b>169</b> | <b>1.23</b> | 347    | <b>229</b> | <b>1.65</b> | 9.22             | Uc     |
|    | NUS45NR  | 4.50                                | 1/8             | LMBP        | F           | 115-127V 60Hz ~1        | RSCR  | P        | C         | 77                                                                              | 144 | <b>191</b> | <b>1.39</b> | 389    | <b>260</b> | <b>1.80</b> | 8.90             | Ue     |
|    | NUS45NR  | 4.50                                | 1/8             | LMBP        | F           | 115-127V 60Hz ~1        | CSR   | R        | C-V       | 77                                                                              | 144 | <b>191</b> | <b>1.39</b> | 389    | <b>260</b> | <b>1.80</b> | 8.90             | Ue     |
|    | NUS45NG  | 4.50                                | 1/8             | LMBP        | F           | 220-240V 50/60Hz ~1     | RSCR  | P        | C         | 77                                                                              | 144 | <b>191</b> | <b>1.41</b> | 389    | <b>260</b> | <b>1.83</b> | 9.00             | Ue     |
|    | NFT45NR  | 4.50                                | 1/8             | LMBP        | S           | 115-127V 60Hz ~1        | RSCR  | P        | C         | 113                                                                             | 149 | <b>235</b> | <b>1.47</b> | 376    | <b>260</b> | <b>1.70</b> | 6.90             | Fc     |
|    | NFH45NR  | 4.50                                | 1/8             | LMBP        | F           | 115-127V 60Hz ~1        | RSIR  | P        | C         | 113                                                                             | 149 | <b>235</b> | <b>1.26</b> | 376    | <b>260</b> | <b>1.45</b> | 6.90             | Fb     |
|   | NFH45NG  | 4.50                                | 1/8             | LMBP        | F           | 200-200/230V 50/60Hz ~1 | RSIR  | P        | C         | 78                                                                              | 103 | <b>190</b> | <b>1.30</b> | 303    | <b>260</b> | <b>1.50</b> | 6.50             | Fb     |
|  | NUS55NR  | 5.50                                | 1/6             | LMBP        | F           | 115-127V 60Hz ~1        | RSCR  | P        | C         | 105                                                                             | 184 | <b>235</b> | <b>1.39</b> | 441    | <b>312</b> | <b>1.80</b> | 8.90             | Ue     |
|  | NUS55NR  | 5.50                                | 1/6             | LMBP        | F           | 115-127V 60Hz ~1        | CSR   | R        | C-V       | 105                                                                             | 184 | <b>235</b> | <b>1.39</b> | 441    | <b>312</b> | <b>1.80</b> | 8.90             | Ue     |
|  | NUS55NG  | 5.50                                | 1/6             | LMBP        | F           | 220-240V 50/60Hz ~1     | RSCR  | P        | C         | 105                                                                             | 184 | <b>235</b> | <b>1.41</b> | 441    | <b>312</b> | <b>1.82</b> | 9.00             | Ue     |
|  | NFH55NR  | 5.50                                | 1/6             | LMBP        | F           | 115-127V 60Hz ~1        | RSIR  | P        | C         | 139                                                                             | 183 | <b>290</b> | <b>1.26</b> | 462    | <b>320</b> | <b>1.45</b> | 6.90             | Fc     |
|  | NFT55NR  | 5.50                                | 1/6             | LMBP        | F           | 115-127V 60Hz ~1        | RSCR  | P        | C         | 134                                                                             | 177 | <b>281</b> | <b>1.47</b> | 448    | <b>310</b> | <b>1.70</b> | 6.90             | Fc     |
|  | NUT60LRa | 6.00                                | 1/6             | LMBP        | F           | 115-127V 60Hz ~1        | CSIR  | R        | C-V       | 122                                                                             | 207 | <b>266</b> | <b>1.24</b> | 508    | <b>357</b> | <b>1.60</b> | 9.40             | Uc     |
|  | NUT60LRb | 6.00                                | 1/6             | LMBP        | F           | 115-127V 60Hz ~1        | CSR   | R        | C-V       | 122                                                                             | 213 | <b>273</b> | <b>1.34</b> | 513    | <b>366</b> | <b>1.73</b> | 9.50             | Uc     |
|  | NUT60LRc | 6.00                                | 1/6             | LMBP        | S           | 115-127V 60Hz ~1        | CSIR  | R        | C-V       | 122                                                                             | 207 | <b>266</b> | <b>1.24</b> | 508    | <b>357</b> | <b>1.60</b> | 9.40             | Uc     |
|  | NUT60LRd | 6.00                                | 1/6             | LMBP        | S           | 115-127V 60Hz ~1        | CSR   | R        | C-V       | 122                                                                             | 213 | <b>273</b> | <b>1.34</b> | 513    | <b>366</b> | <b>1.73</b> | 9.50             | Uc     |
|  | NUS60NR  | 6.00                                | 1/6             | LMBP        | S           | 115-127V 60Hz ~1        | RSCR  | P        | C         | 122                                                                             | 213 | <b>273</b> | <b>1.39</b> | 513    | <b>366</b> | <b>1.80</b> | 8.90             | Ue     |
|  | NUS60NR  | 6.00                                | 1/6             | LMBP        | S           | 115-127V 60Hz ~1        | CSR   | R        | C-V       | 122                                                                             | 213 | <b>273</b> | <b>1.39</b> | 513    | <b>366</b> | <b>1.80</b> | 8.90             | Ue     |
|  | NUS60NG  | 6.00                                | 1/6             | LMBP        | S           | 220-240V 50/60Hz ~1     | RSCR  | P        | C         | 122                                                                             | 213 | <b>273</b> | <b>1.43</b> | 513    | <b>366</b> | <b>1.84</b> | 9.00             | Ue     |
|  | NFH60NG  | 6.00                                | 1/6             | LMBP        | F           | 200-200/230V 50/60Hz ~1 | RSCR  | P        | C         | 152                                                                             | 200 | <b>317</b> | <b>1.39</b> | 506    | <b>350</b> | <b>1.60</b> | 6.90             | Fd     |
|  | NUY70NRa | 6.70                                | 1/5             | LMBP        | F           | 115-127V 60Hz ~1        | CSIR  | R        | C-V       | 129                                                                             | 231 | <b>297</b> | <b>1.22</b> | 551    | <b>398</b> | <b>1.57</b> | 9.40             | Uc     |
|  | NUY70NRb | 6.70                                | 1/5             | LMBP        | F           | 115-127V 60Hz ~1        | CSR   | R        | C-V       | 129                                                                             | 231 | <b>297</b> | <b>1.30</b> | 551    | <b>398</b> | <b>1.68</b> | 9.40             | Uc     |
|  | NUY70NRc | 6.70                                | 1/5             | LMBP        | S           | 115-127V 60Hz ~1        | CSIR  | R        | C-V       | 129                                                                             | 231 | <b>297</b> | <b>1.22</b> | 551    | <b>398</b> | <b>1.57</b> | 9.40             | Uc     |
|  | NUY70NRd | 6.70                                | 1/5             | LMBP        | S           | 115-127V 60Hz ~1        | CSR   | R        | C-V       | 129                                                                             | 231 | <b>297</b> | <b>1.30</b> | 551    | <b>398</b> | <b>1.68</b> | 9.40             | Uc     |
|  | NUS70NR  | 6.70                                | 1/5             | LMBP        | F           | 115-127V 60Hz ~1        | RSCR  | P        | C         | 129                                                                             | 231 | <b>297</b> | <b>1.39</b> | 551    | <b>398</b> | <b>1.80</b> | 8.90             | Ue     |
|  | NUS70NR  | 6.70                                | 1/5             | LMBP        | F           | 115-127V 60Hz ~1        | CSR   | R        | C-V       | 129                                                                             | 231 | <b>297</b> | <b>1.39</b> | 551    | <b>398</b> | <b>1.80</b> | 8.90             | Ue     |
|  | NUS70NG  | 6.70                                | 1/5             | LMBP        | F           | 220-240V 50/60Hz ~1     | CSR   | R        | C-V       | 129                                                                             | 231 | <b>297</b> | <b>1.42</b> | 551    | <b>398</b> | <b>1.83</b> | 8.90             | Ue     |
|  | NFG70NR  | 6.70                                | 1/5             | LMBP        | F           | 115-127V 60Hz ~1        | RSCR  | P        | C         | 169                                                                             | 223 | <b>353</b> | <b>1.30</b> | 353    | <b>390</b> | <b>1.50</b> | 6.90             | Fc     |
|  | NFH70NG  | 6.70                                | 1/5             | LMBP        | F           | 200-220/230V 50/60Hz ~1 | RSCR  | P        | C         | 169                                                                             | 223 | <b>353</b> | <b>1.39</b> | 563    | <b>390</b> | <b>1.60</b> | 6.90             | Fc     |
|  | NUY80NRa | 8.10                                | 1/4             | LMBP        | F           | 115-127V 60Hz ~1        | CSIR  | R        | C-V       | 154                                                                             | 272 | <b>363</b> | <b>1.29</b> | 703    | <b>476</b> | <b>1.58</b> | 9.30             | Uc     |
|  | NUY80NRb | 8.10                                | 1/4             | LMBP        | F           | 115-127V 60Hz ~1        | CSR   | R        | C-V       | 154                                                                             | 272 | <b>363</b> | <b>1.37</b> | 703    | <b>476</b> | <b>1.67</b> | 9.30             | Uc     |
|  | NUS80NR  | 8.10                                | 1/4             | LMBP        | F           | 115-127V 60Hz ~1        | RSCR  | P        | C         | 154                                                                             | 272 | <b>363</b> | <b>1.39</b> | 703    | <b>476</b> | <b>1.80</b> | 8.9              | Ue     |
|  | NUS80NR  | 8.10                                | 1/4             | LMBP        | F           | 115-127V 60Hz ~1        | CSR   | R        | C-V       | 154                                                                             | 272 | <b>363</b> | <b>1.39</b> | 703    | <b>476</b> | <b>1.80</b> | 8.9              | Ue     |
|  | NUY80NGa | 8.10                                | 1/4             | LMBP        | F           | 200-220/230V 50/60Hz ~1 | CSIR  | R        | C-V       | 223                                                                             | 286 | <b>363</b> | <b>1.24</b> | 673    | <b>485</b> | <b>1.50</b> | 9.85             | Ud     |
|  | NUY80NGb | 8.10                                | 1/4             | LMBP        | F           | 200-220/230V 50/60Hz ~1 | CSR   | R        | C-V       | 223                                                                             | 286 | <b>363</b> | <b>1.32</b> | 673    | <b>485</b> | <b>1.60</b> | 9.95             | Ud     |
|  | NUY90NRa | 8.90                                | 1/4             | LMBP        | F           | 115-127V 60Hz ~1        | CSIR  | R        | C-V       | 167                                                                             | 300 | <b>391</b> | <b>1.21</b> | 767    | <b>528</b> | <b>1.55</b> | 9.40             | Uc     |
|  | NUY90NRb | 8.90                                | 1/4             | LMBP        | F           | 115-127V 60Hz ~1        | CSR   | R        | C-V       | 167                                                                             | 300 | <b>391</b> | <b>1.29</b> | 767    | <b>528</b> | <b>1.65</b> | 9.40             | Uc     |

 Green Cooling Models  
 New Models

R290 LBP • 60 Hz

Natural Refrigerant

|                                                                                   | MODEL        | DISPLACEMENT | POWER | APPLICATION | CPR COOLING | VOLTAGE<br>FREQUENCY        | MOTOR | STARTING | EXPANSION | REFRIGERATION CAPACITY                                                          |      |      |      |        |       | WEIGHT | DESIGN |     |
|-----------------------------------------------------------------------------------|--------------|--------------|-------|-------------|-------------|-----------------------------|-------|----------|-----------|---------------------------------------------------------------------------------|------|------|------|--------|-------|--------|--------|-----|
|                                                                                   |              |              |       |             |             |                             |       |          |           | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature<br>°C |      |      |      |        |       |        |        |     |
|                                                                                   |              |              |       |             |             |                             |       |          |           | Cecomaf (W)                                                                     |      |      |      | Ashrae |       |        |        |     |
|                                                                                   |              |              |       |             |             |                             |       |          |           | -35                                                                             | -30  | -25  |      | -10    | -23.3 |        |        |     |
|                                                                                   |              |              |       |             |             |                             |       |          |           |                                                                                 |      | W    | COP  |        | W     |        |        | COP |
| cm³                                                                               | hp           |              |       |             |             |                             |       |          |           |                                                                                 |      |      |      | Kg     |       |        |        |     |
|    | NUY90NGa     | 8.90         | 1/4   | LMBP        | F           | 200-220/230V 50/60Hz ~1     | CSIR  | R        | C-V       | 148                                                                             | 251  | 322  | 1.03 | 613    | 510   | 1.50   | 9.80   | Ud  |
|    | NUY90NGb     | 8.90         | 1/4   | LMBP        | F           | 200-220/230V 50/60Hz ~1     | CSR   | R        | C-V       | 148                                                                             | 251  | 322  | 1.21 | 613    | 510   | 1.60   | 9.80   | Ud  |
|    | NUY100NG     | 9.50         | 1/4   | LMBP        | F           | 200-220/230V 50/60Hz ~1     | CSR   | R        | C-V       | 165                                                                             | 281  | 360  | 1.30 | 685    | 570   | 1.65   | 9.65   | Ue  |
|    | NUT100NR     | 9.50         | 1/4   | LMBP        | F           | 115-127V 60Hz ~1            | RSCR  | P        | C         | 172                                                                             | 293  | 376  | 1.34 | 715    | 595   | 1.70   | 9.65   | Ue  |
|    | NUS100NR     | 9.50         | 1/4   | LMBP        | F           | 115-127V 60Hz ~1            | RSCR  | P        | C         | 172                                                                             | 293  | 376  | 1.44 | 715    | 595   | 1.80   | 9.50   | Ue  |
|    | NUT120NF     | 12.50        | 3/8   | LMBP        | F           | 220-240V 60Hz ~1            | CSR   | R        | C-V       | 203                                                                             | 345  | 442  | 1.30 | 841    | 700   | 1.60   | 12.50  | U+b |
|    | NUT120NR     | 12.50        | 3/8   | LMBP        | F           | 115-127V 60Hz ~1            | CSR   | R        | C-V       | 203                                                                             | 345  | 442  | 1.21 | 841    | 700   | 1.60   | 12.50  | U+b |
|    | NPY14LFa     | 14.32        | 1/2   | LBP         | F           | 208-230V 60Hz ~1            | CSIR  | R        | C-V       | 269                                                                             | 466  | 603  | 1.04 | 1175   | 812   | 1.34   | 12.19  | Pd  |
|    | NPY14LFb     | 14.32        | 1/2   | LBP         | F           | 208-230V 60Hz ~1            | CSR   | R        | C-V       | 269                                                                             | 466  | 603  | 1.09 | 1175   | 812   | 1.42   | 12.29  | Pd  |
|    | NUT140NR     | 14.20        | 1/2   | LMBP        | F           | 115-127V 60Hz ~1            | CSR   | R        | C-V       | 241                                                                             | 409  | 524  | 1.21 | 997    | 820   | 1.60   | 12.50  | U+b |
|    | NPT16LR      | 16.10        | 1/2   | LBP         | F           | 115-127V 60Hz ~1            | CSR   | R        | C-V       | 288                                                                             | 492  | 637  | 1.10 | 1244   | 857   | 1.42   | 12.70  | Pd  |
|    | NPT16NF      | 16.10        | 1/2   | LMBP        | F           | 208-230V 60Hz ~1            | CSR   | R        | C-V       | 381                                                                             | 498  | 644  | 1.07 | 1253   | 866   | 1.39   | 12.15  | Pd  |
|    | NPT18LR      | 16.50        | 3/4   | LMBP        | F           | 115-127V 60Hz ~1            | CSR   | R        | C-V       | 418                                                                             | 546  | 706  | 1.09 | 1375   | 950   | 1.40   | 13.40  | P+b |
|    | NX21NGa      | 20.72        | 3/4   | LMBP        | F           | 220-240V 50/60Hz ~1         | CSR   | R        | C-V       | 312                                                                             | 605  | 790  | 1.10 | 1492   | 1061  | 1.42   | 16.99  | Xd  |
|    | NX21NR       | 20.72        | 3/4   | LMBP        | F           | 115-127V 60Hz ~1            | CSR   | R        | C-V       | 312                                                                             | 605  | 790  | 1.09 | 1492   | 1061  | 1.41   | 16.99  | Xd  |
|    | NX23NGa      | 23.20        | 3/4   | LMBP        | F           | 220-240V 50/60Hz ~1         | CSR   | R        | C-V       | 347                                                                             | 669  | 873  | 1.09 | 1651   | 1174  | 1.41   | 16.75  | Xd  |
|    | NXK230NF (*) | 23.00        | 3/4   | LMBP        | F           | 220-240V 60Hz ~1            | CSR   | R        | C-V       | 407                                                                             | 591  | 817  | 1.32 | 1761   | 1120  | 1.58   | (*)    | X+b |
|   | NXK260NF (*) | 26.00        | 3/4   | LMBP        | F           | 220-240V 60Hz ~1            | CSR   | R        | C-V       | 469                                                                             | 680  | 942  | 1.32 | 2029   | 1290  | 1.58   | (*)    | X+b |
|  | NST26NG (*)  | 25.93        | 3/4   | LMBP        | F           | 220-240V 50/60Hz ~1         | CSR   | R        | C-V       | 433                                                                             | 628  | 869  | 1.14 | 1873   | 1191  | 1.50   | 21.60  | Sd  |
|  | NST30NGb     | 29.95        | 7/8   | LMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSR   | R        | C-V       | 509                                                                             | 730  | 1006 | 1.10 | 2174   | 1377  | 1.42   | 21.80  | Sd  |
|  | NST34NG      | 34.42        | 1     | LMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSR   | R        | C-V       | 531                                                                             | 1023 | 1345 | 1.12 | 2619   | 1814  | 1.45   | 23.00  | Sd  |
|  | NST38NG (*)  | 38.00        | 1 1/2 | LMHBP       | F           | 200-220/220-230V 50/60Hz ~1 | CSR   | R        | C-V       | 859                                                                             | 1170 | 1539 | 1.11 | 2993   | 2076  | 1.41   | 23.00  | Sd  |
|  | NST38N3 (*)  | 38.00        | 1 1/2 | LMBP        | F           | 400/440V 50/60Hz ~3         | CSR   | R        | C-V       | 859                                                                             | 1170 | 1539 | 1.11 | 2993   | 2076  | 1.41   | 23.00  | Sd  |

 Green Cooling Models

(\*) Under development

 New Models

R290 HMBP | HBP • 50 Hz

Natural Refrigerant

|                                                                                   | MODEL    | DISPLACEMENT | POWER | APPLICATION | CPR COOLING | VOLTAGE<br>FREQUENCY    | MOTOR | STARTING | EXPANSION | REFRIGERATION CAPACITY                                                          |     |     |      |        |      | WEIGHT | DESIGN |     |
|-----------------------------------------------------------------------------------|----------|--------------|-------|-------------|-------------|-------------------------|-------|----------|-----------|---------------------------------------------------------------------------------|-----|-----|------|--------|------|--------|--------|-----|
|                                                                                   |          |              |       |             |             |                         |       |          |           | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature<br>°C |     |     |      |        |      |        |        |     |
|                                                                                   |          |              |       |             |             |                         |       |          |           | Cecomaf (W)                                                                     |     |     |      | Ashrae |      |        |        |     |
|                                                                                   |          |              |       |             |             |                         |       |          |           | -25                                                                             | -15 | 5   |      | 10     | 7.2  |        |        |     |
|                                                                                   |          |              |       |             |             |                         |       |          |           |                                                                                 |     | W   | COP  |        | W    |        |        | COP |
| cm³                                                                               | hp       |              |       |             |             |                         |       |          |           |                                                                                 |     |     |      |        | Kg   |        |        |     |
|  | NBC22RA  | 2.20         | 1/120 | HMBP        | F           | 220-240V 50/60Hz ~1     | CSIR  | R        | C-V       | 80                                                                              | 119 | 248 | 2.10 | 290    | 291  | 2.43   | 5.20   | Bc  |
|  | NBC30RA  | 3.10         | 1/12  | HMBP        | F           | 220-240V 50Hz ~1        | CSIR  | R        | C-V       | 100                                                                             | 157 | 354 | 2.21 | 421    | 423  | 2.61   | 5.80   | Be  |
|  | NUY45RAa | 4.50         | 1/8   | HMBP        | F           | 220-240V 50Hz ~1        | CSIR  | R        | C-V       | 142                                                                             | 231 | 516 | 2.36 | 610    | 615  | 2.77   | 9.30   | Ub  |
|  | NUY45RG  | 4.50         | 1/8   | HMBP        | F           | 200-220/230V 50/60Hz ~1 | CSIR  | R        | C-V       | 142                                                                             | 231 | 516 | 2.30 | 610    | 615  | 2.70   | 9.30   | Uc  |
|  | NUY60RAa | 6.00         | 1/6   | HMBP        | F           | 220-240V 50Hz ~1        | CSIR  | R        | C-V       | 208                                                                             | 328 | 714 | 2.32 | 841    | 850  | 2.72   | 9.48   | Ub  |
|  | NUY60RG  | 6.00         | 1/6   | HMBP        | F           | 200-220/230V 50/60Hz ~1 | CSIR  | R        | C-V       | 208                                                                             | 328 | 714 | 2.20 | 841    | 850  | 2.60   | 9.48   | Ue  |
|  | NUY70RAa | 6.70         | 1/5   | HMBP        | F           | 220-240V 50Hz ~1        | CSIR  | R        | C-V       | 248                                                                             | 382 | 817 | 2.34 | 961    | 972  | 2.75   | 9.60   | Uc  |
|  | NUY80RAa | 8.10         | 1/4   | HMBP        | F           | 220-240V 50Hz ~1        | CSIR  | R        | C-V       | 287                                                                             | 456 | 931 | 2.21 | 1078   | 1100 | 2.60   | 9.43   | Ub  |
|  | NUY80RG  | 8.10         | 1/4   | HMBP        | F           | 200-220/230V 50/60Hz ~1 | CSR   | R        | C-V       | 287                                                                             | 456 | 931 | 2.11 | 1078   | 1100 | 2.50   | 9.43   | Ue  |

 Green Cooling Models



## R290 HMBP | HBP • 50 Hz

## Natural Refrigerant

|                                                                                     | MODEL       | DISPLACEMENT<br>cm³ | POWER<br>hp | APPLICATION | CPR COOLING | VOLTAGE<br>FREQUENCY        | MOTOR | STARTING | EXPANSION | REFRIGERATION CAPACITY                                                       |      |      |      |        |      | WEIGHT<br>Kg | DESIGN |     |
|-------------------------------------------------------------------------------------|-------------|---------------------|-------------|-------------|-------------|-----------------------------|-------|----------|-----------|------------------------------------------------------------------------------|------|------|------|--------|------|--------------|--------|-----|
|                                                                                     |             |                     |             |             |             |                             |       |          |           | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature °C |      |      |      |        |      |              |        |     |
|                                                                                     |             |                     |             |             |             |                             |       |          |           | Cecomaf (W)                                                                  |      |      |      | Ashrae |      |              |        |     |
|                                                                                     |             |                     |             |             |             |                             |       |          |           | -25                                                                          | -15  | 5    |      | 10     | 7.2  |              |        |     |
|                                                                                     |             |                     |             |             |             |                             |       |          |           |                                                                              |      | W    | COP  |        | W    |              |        | COP |
|    | NUY90RAa    | 8.90                | 1/4         | HMBP        | F           | 220-240V 50Hz ~1            | CSIR  | R        | C-V       | 290                                                                          | 461  | 1045 | 2.25 | 1240   | 1247 | 2.50         | 9.80   | Ub  |
|    | NUY90RAb    | 8.90                | 1/4         | HMBP        | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | 290                                                                          | 461  | 1045 | 2.25 | 1240   | 1247 | 2.70         | 9.80   | Uc  |
|    | NLY12RAa    | 10.70               | 1/3         | HMBP        | F           | 220-240V 50Hz ~1            | CSIR  | R        | C-V       | 379                                                                          | 584  | 1224 | 2.06 | 1432   | 1453 | 2.41         | 11.44  | Ld  |
|    | NLY12RAb    | 10.70               | 1/3         | HMBP        | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | 379                                                                          | 597  | 1249 | 2.28 | 1457   | 1480 | 2.66         | 11.54  | Ld  |
|    | NLY12RGa    | 10.70               | 1/3         | HMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSIR  | R        | C-V       | 341                                                                          | 553  | 1217 | 2.03 | 1432   | 1448 | 2.39         | 12.14  | Ld  |
|    | NLY12RGB    | 10.70               | 1/3         | HMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSR   | R        | C-V       | 355                                                                          | 554  | 1226 | 2.20 | 1450   | 1462 | 2.58         | 12.24  | Ld  |
|    | NPY12RAa    | 12.10               | 3/8         | HBP         | F           | 220-240V 50Hz ~1            | CSIR  | R        | C-V       | -                                                                            | 635  | 1460 | 2.08 | 1735   | 1745 | 2.45         | 12.16  | Pd  |
|    | NPY12RAb    | 12.10               | 3/8         | HBP         | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | -                                                                            | 635  | 1460 | 2.28 | 1735   | 1745 | 2.70         | 12.26  | Pd  |
|    | NPT14RA     | 14.32               | 1/2         | HBP         | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | -                                                                            | 763  | 1709 | 2.26 | 2085   | 2065 | 2.69         | 12.25  | Pd  |
|    | NPT16RA     | 16.10               | 1/2         | HBP         | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | -                                                                            | 853  | 1911 | 2.18 | 2331   | 2310 | 2.55         | 12.34  | Pd  |
|    | NPT18RA     | 18.00               | 2/3         | HBP         | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | -                                                                            | 903  | 2023 | 2.06 | 2467   | 2445 | 2.41         | 12.15  | Pd  |
|    | NX21TBa     | 20.72               | 2/3         | HMBP        | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | 601                                                                          | 973  | 2267 | 2.18 | 2705   | 2714 | 2.55         | 16.09  | Xd  |
|    | NX21TGa     | 20.72               | 2/3         | HMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSR   | R        | C-V       | 601                                                                          | 975  | 1085 | 2.06 | 2661   | 2675 | 2.41         | 16.20  | Xd  |
|    | NST26RA     | 25.93               | 3/4         | HMBP        | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | 728                                                                          | 1264 | 2931 | 2.40 | 3472   | 3498 | 2.82         | 22.00  | Sd  |
|    | NST34RA     | 34.42               | 1           | HBP         | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | -                                                                            | 1822 | 4010 | 2.28 | 4752   | 4786 | 2.67         | 21.10  | Sd  |
|    | NST38NA     | 38.00               | 1 1/2       | LMHBP       | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | 1095                                                                         | 2003 | 4409 | 2.06 | 5225   | 5262 | 2.40         | 22.20  | Sd  |
|   | NST38R3 (*) | 38.00               | 1 1/2       | HBP         | F           | 380-420/440-480V 50/60Hz ~3 | CSR   | R        | C-V       | 1095                                                                         | 2003 | 4409 | 2.06 | 5225   | 5262 | 2.40         | 22.20  | Sd  |
|  | NST42RA     | 42.00               | 1 5/8       | HBP         | F           | 220-240V 50Hz ~1            | CSR   | R        | C-V       | -                                                                            | 2105 | 4634 | 2.15 | 5491   | 5530 | 2.52         | 22.20  | Sd  |
|  | NST42R3 (*) | 42.00               | 1 5/8       | HMBP        | F           | 400/440V 50/60Hz ~3         | CSR   | R        | C-V       | -                                                                            | 2105 | 4634 | 2.15 | 5491   | 5530 | 2.52         | 22.20  | Sd  |

 Green Cooling Models

 New Models

## R290 HMBP | HBP • 60 Hz

## Natural Refrigerant

|                                                                                     | MODEL       | DISPLACEMENT | POWER | APPLICATION | CPR COOLING | VOLTAGE<br>FREQUENCY        | MOTOR | STARTING | EXPANSION | REFRIGERATION CAPACITY                                                          |      |             |             |        |             | WEIGHT      | DESIGN |     |
|-------------------------------------------------------------------------------------|-------------|--------------|-------|-------------|-------------|-----------------------------|-------|----------|-----------|---------------------------------------------------------------------------------|------|-------------|-------------|--------|-------------|-------------|--------|-----|
|                                                                                     |             |              |       |             |             |                             |       |          |           | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature<br>°C |      |             |             |        |             |             |        |     |
|                                                                                     |             |              |       |             |             |                             |       |          |           | Cecomaf (W)                                                                     |      |             |             | Ashrae |             |             |        |     |
|                                                                                     |             |              |       |             |             |                             |       |          |           | -25                                                                             | -15  | 5           |             | 10     | 7.2         |             |        |     |
|                                                                                     |             |              |       |             |             |                             |       |          |           |                                                                                 |      | W           | COP         |        | W           |             |        | COP |
|                                                                                     |             | cm³          | hp    |             |             |                             |       |          |           |                                                                                 |      |             |             |        |             | Kg          |        |     |
|  | NBC22RA     | 2.20         | 1/120 | HMBP        | F           | 220-240V 50/60Hz ~1         | CSIR  | R        | C-V       | 94                                                                              | 139  | <b>290</b>  | <b>2.20</b> | 339    | <b>344</b>  | <b>2.63</b> | 5.20   | Bc  |
|  | NUY45RG     | 4.50         | 1/8   | HMBP        | F           | 200-220/230V 50/60Hz ~1     | CSIR  | R        | C-V       | 171                                                                             | 278  | <b>621</b>  | <b>2.36</b> | 734    | <b>740</b>  | <b>2.80</b> | 9.30   | Uc  |
|  | NUY60RG     | 6.00         | 1/6   | HMBP        | F           | 200-220/230V 50/60Hz ~1     | CSIR  | R        | C-V       | 231                                                                             | 375  | <b>839</b>  | <b>2.26</b> | 992    | <b>1000</b> | <b>2.65</b> | 9.48   | Ue  |
|  | NUY80RG     | 8.10         | 1/4   | HMBP        | F           | 200-220/230V 50/60Hz ~1     | CSR   | R        | C-V       | 297                                                                             | 483  | <b>1079</b> | <b>2.22</b> | 1276   | <b>1287</b> | <b>2.60</b> | 9.43   | Ue  |
|  | NLT12RR     | 10.70        | 1/3   | HMBP        | F           | 115-127V 60Hz ~1            | CSR   | R        | C-V       | 424                                                                             | 691  | <b>1501</b> | <b>2.15</b> | 1761   | <b>1784</b> | <b>2.51</b> | 11.91  | Ld  |
|  | NLY12RGa    | 10.70        | 1/3   | HMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSIR  | R        | C-V       | 418                                                                             | 669  | <b>1445</b> | <b>2.07</b> | 1696   | <b>1718</b> | <b>2.41</b> | 12.14  | Ld  |
|  | NLY12RGB    | 10.70        | 1/3   | HMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSR   | R        | C-V       | 429                                                                             | 679  | <b>1469</b> | <b>2.25</b> | 1727   | <b>1747</b> | <b>2.63</b> | 12.24  | Ld  |
|  | NPT14RR     | 14.32        | 1/2   | HMBP        | F           | 115-127V 60Hz ~1            | CSR   | R        | C-V       | 590                                                                             | 938  | <b>1987</b> | <b>2.20</b> | 2323   | <b>2360</b> | <b>2.60</b> | 13.35  | Pd  |
|  | NPT16RR     | 16.15        | 1/2   | HMBP        | F           | 115-127V 60Hz ~1            | CSR   | R        | C-V       | 629                                                                             | 963  | <b>2204</b> | <b>2.11</b> | 2633   | <b>2570</b> | <b>2.45</b> | 13.74  | Pe  |
|  | NX21TGa     | 20.72        | 2/3   | HMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSR   | R        | C-V       | 694                                                                             | 1181 | <b>2638</b> | <b>2.02</b> | 3102   | <b>3138</b> | <b>2.34</b> | 16.20  | Xd  |
|  | NST38R3 (*) | 38.00        | 1 1/2 | HBP         | F           | 380-420/440-480V 50/60Hz ~3 | CSR   | R        | C-V       | 1281                                                                            | 2344 | <b>5159</b> | <b>2.06</b> | 6113   | <b>6157</b> | <b>2.40</b> | 22.20  | Sd  |
|  | NST42R3 (*) | 42.00        | 1 5/8 | HMBP        | F           | 400/440V 50/60Hz ~3         | CSR   | R        | C-V       | -                                                                               | 2463 | <b>5421</b> | <b>2.15</b> | 6425   | <b>6470</b> | <b>2.52</b> | 22.20  | Sd  |

 Green Cooling Models

 New Models

R600a LBP • 50 Hz

Natural Refrigerant

|                                                                                   | MODEL         | DISPLACEMENT | POWER | APPLICATION | CPR COOLING | VOLTAGE<br>FREQUENCY | MOTOR | STARTING | EXPANSION | REFRIGERATION CAPACITY                                                          |     |            |             |        |            | WEIGHT      | DESIGN |      |
|-----------------------------------------------------------------------------------|---------------|--------------|-------|-------------|-------------|----------------------|-------|----------|-----------|---------------------------------------------------------------------------------|-----|------------|-------------|--------|------------|-------------|--------|------|
|                                                                                   |               |              |       |             |             |                      |       |          |           | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature<br>°C |     |            |             |        |            |             |        |      |
|                                                                                   |               |              |       |             |             |                      |       |          |           | Cecomaf (W)                                                                     |     |            |             | Ashrae |            |             |        |      |
|                                                                                   |               |              |       |             |             |                      |       |          |           | -35                                                                             | -30 | -25        |             | -10    | -23.3      |             |        |      |
|                                                                                   |               |              |       |             |             |                      |       |          |           |                                                                                 |     | W          | COP         |        | W          |             |        | COP  |
|                                                                                   |               | cm³          | hp    |             |             |                      |       |          |           |                                                                                 |     |            |             |        |            | Kg          |        |      |
|    | L22CL         | 2.20         | 1/20  | LBP         | S           | 220-240V 50Hz ~1     | RSIR  | P        | C         | 13                                                                              | 18  | <b>23</b>  | <b>0.67</b> | 46     | <b>30</b>  | <b>0.85</b> | 3.60   | Lb   |
|    | L30CL         | 3.10         | 1/12  | LBP         | S           | 220-240V 50/60Hz ~1  | RSIR  | P        | C         | 21                                                                              | 28  | <b>37</b>  | <b>0.77</b> | 78     | <b>48</b>  | <b>0.98</b> | 3.80   | Lc   |
|    | HL30NA        | 3.10         | 1/12  | LMBP        | S           | 220-240V 50Hz ~1     | RSCR  | P        | C         | 21                                                                              | 28  | <b>37</b>  | <b>1.10</b> | 79     | <b>48</b>  | <b>1.43</b> | 4.50   | HLb  |
|    | HYB35MHJa     | 3.50         | 1/12  | LBP         | S           | 220-240V 50Hz ~1     | RSIR  | P        | C         | 23                                                                              | 31  | <b>41</b>  | <b>1.07</b> | 86     | <b>55</b>  | <b>1.35</b> | 4.70   | HYBc |
|    | HYB35MGJa     | 3.50         | 1/12  | LBP         | S           | 220-240V 50Hz ~1     | RSCR  | P        | C         | 23                                                                              | 31  | <b>41</b>  | <b>1.20</b> | 86     | <b>55</b>  | <b>1.52</b> | 5.00   | HYBc |
|    | HL35NA        | 3.50         | 1/12  | LMBP        | S           | 220-240V 50Hz ~1     | RSCR  | P        | C         | 23                                                                              | 31  | <b>41</b>  | <b>1.10</b> | 78     | <b>56</b>  | <b>1.43</b> | 4.90   | HLb  |
|    | HYB40MJa      | 4.00         | 1/10  | LBP         | S           | 220-240V 50Hz ~1     | RSIR  | P        | C         | 27                                                                              | 36  | <b>48</b>  | <b>0.91</b> | 91     | <b>65</b>  | <b>1.15</b> | 4.40   | HYBc |
|    | HYB40MHJa     | 4.00         | 1/10  | LBP         | S           | 220-240V 50Hz ~1     | RSIR  | P        | C         | 27                                                                              | 36  | <b>48</b>  | <b>1.05</b> | 91     | <b>65</b>  | <b>1.33</b> | 4.70   | HYBd |
|    | B43CB         | 4.30         | 1/10  | LBP         | S           | 220-240V 50Hz ~1     | RSIR  | P        | C         | 29                                                                              | 39  | <b>51</b>  | <b>0.90</b> | 108    | <b>69</b>  | <b>1.15</b> | 4.60   | Bc   |
|    | B43CB         | 4.30         | 1/10  | LBP         | S           | 220-240V 50Hz ~1     | RSCR  | P        | C         | 29                                                                              | 39  | <b>51</b>  | <b>1.02</b> | 108    | <b>69</b>  | <b>1.30</b> | 4.60   | Bc   |
|    | HK48NA        | 4.80         | 1/8   | LMBP        | S           | 220-240V 50Hz ~1     | RSCR  | P        | C         | 30                                                                              | 41  | <b>53</b>  | <b>1.10</b> | 112    | <b>73</b>  | <b>1.43</b> | 5.20   | HKb  |
|    | HYB50MHJa     | 5.00         | 1/8   | LBP         | S           | 220-240V 50Hz ~1     | RSIR  | P        | C         | 32                                                                              | 43  | <b>56</b>  | <b>1.03</b> | 119    | <b>75</b>  | <b>1.30</b> | 4.70   | HYBd |
|    | HYB50MGJa     | 5.00         | 1/8   | LBP         | S           | 220-240V 50Hz ~1     | RSCR  | P        | C         | 35                                                                              | 47  | <b>61</b>  | <b>1.21</b> | 129    | <b>82</b>  | <b>1.53</b> | 5.00   | HYBd |
|    | B52CL         | 5.20         | 1/8   | LBP         | S           | 220-240V 50Hz ~1     | RSIR  | P        | C         | 33                                                                              | 44  | <b>58</b>  | <b>0.90</b> | 123    | <b>78</b>  | <b>1.20</b> | 4.60   | Bc   |
|    | B52CL         | 5.20         | 1/8   | LBP         | S           | 220-240V 50Hz ~1     | RSIR  | P        | C         | 33                                                                              | 44  | <b>58</b>  | <b>1.10</b> | 123    | <b>78</b>  | <b>1.42</b> | 5.20   | Bd   |
|    | HYB60MHU      | 6.00         | 1/6   | LBP         | S           | 220-240V 50Hz ~1     | RSIR  | P        | C         | 43                                                                              | 57  | <b>75</b>  | <b>1.07</b> | 159    | <b>100</b> | <b>1.35</b> | 5.30   | HYBe |
|    | HYB60MKUa     | 6.00         | 1/6   | LBP         | S           | 220-240V 50Hz ~1     | RSCR  | P        | C         | 43                                                                              | 57  | <b>75</b>  | <b>1.31</b> | 159    | <b>100</b> | <b>1.65</b> | 6.20   | HYBf |
|   | HYB69MKUa     | 6.90         | 1/5   | LBP         | S           | 220-240V 50Hz ~1     | RSCR  | P        | C         | 57                                                                              | 77  | <b>101</b> | <b>1.31</b> | 214    | <b>118</b> | <b>1.65</b> | 6.30   | HYBf |
|  | HYB81MGUa     | 8.10         | 1/4   | LBP         | S           | 220-240V 50Hz ~1     | RSCR  | P        | C         | 66                                                                              | 88  | <b>116</b> | <b>1.23</b> | 246    | <b>135</b> | <b>1.55</b> | 6.40   | HYBf |
|  | HYB90MKUa     | 8.90         | 1/4   | LBP         | S           | 220-240V 50Hz ~1     | RSCR  | P        | C         | 70                                                                              | 94  | <b>124</b> | <b>1.27</b> | 265    | <b>148</b> | <b>1.65</b> | 6.50   | HYBf |
|  | HYE90MXU63    | 8.90         | 1/4   | LBP         | ST          | 220-240V 50/60Hz ~1  | RSCR  | P        | C         | 72                                                                              | 96  | <b>126</b> | <b>1.37</b> | 267    | <b>155</b> | <b>1.80</b> | 9.40   | HYEb |
|  | HYE105MTU63   | 10.50        | 1/4   | LBP         | ST          | 220-240V 50/60Hz ~1  | RSCR  | P        | C         | 78                                                                              | 106 | <b>138</b> | <b>1.30</b> | 292    | <b>175</b> | <b>1.65</b> | 9.10   | HYEd |
|  | HYE105MKUa    | 10.50        | 1/4   | LBP         | S           | 220-240V 50Hz ~1     | RSCR  | P        | C         | 79                                                                              | 106 | <b>140</b> | <b>1.26</b> | 294    | <b>185</b> | <b>1.60</b> | 8.80   | HYEb |
|  | HYE113MKUa    | 11.30        | 3/8   | LBP         | S           | 220-240V 50Hz ~1     | RSCR  | P        | C         | 85                                                                              | 115 | <b>150</b> | <b>1.30</b> | 318    | <b>200</b> | <b>1.65</b> | 8.50   | HYEb |
|  | HYE125MSUa    | 12.30        | 3/8   | LBP         | S           | 220-240V 50Hz ~1     | RSCR  | P        | C         | 93                                                                              | 125 | <b>164</b> | <b>1.49</b> | 347    | <b>218</b> | <b>1.89</b> | 9.30   | HYEb |
|  | HYE131MKUa    | 13.10        | 1/2   | LBP         | S           | 220-240V 50Hz ~1     | RSCR  | P        | C         | 101                                                                             | 135 | <b>177</b> | <b>1.29</b> | 375    | <b>235</b> | <b>1.63</b> | 9.10   | HYEd |
|  | HYE153MKU (*) | 15.30        | 1/2   | LBP         | S           | 220-240V 50Hz ~1     | RSCR  | P        | C         | 114                                                                             | 153 | <b>200</b> | <b>1.30</b> | 424    | <b>265</b> | <b>1.65</b> | 9.40   | HYEd |

 Green Cooling Models      (\*) Under development  
 New Models

R600a LBP • 60 Hz

Natural Refrigerant

|                                                                                     | MODEL       | DISPLACEMENT | POWER | APPLICATION | CPR COOLING | VOLTAGE<br>FREQUENCY | MOTOR | STARTING | EXPANSION | REFRIGERATION CAPACITY                                                          |     |            |             |        |            | WEIGHT      | DESIGN |      |
|-------------------------------------------------------------------------------------|-------------|--------------|-------|-------------|-------------|----------------------|-------|----------|-----------|---------------------------------------------------------------------------------|-----|------------|-------------|--------|------------|-------------|--------|------|
|                                                                                     |             |              |       |             |             |                      |       |          |           | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature<br>°C |     |            |             |        |            |             |        |      |
|                                                                                     |             |              |       |             |             |                      |       |          |           | Cecomaf (W)                                                                     |     |            |             | Ashrae |            |             |        |      |
|                                                                                     |             |              |       |             |             |                      |       |          |           | -35                                                                             | -30 | -25        |             | -10    | -23.3      |             |        |      |
|                                                                                     |             |              |       |             |             |                      |       |          |           |                                                                                 |     | W          | COP         |        | W          |             |        | COP  |
|                                                                                     |             | cm³          | hp    |             |             |                      |       |          |           |                                                                                 |     |            |             |        |            | Kg          |        |      |
|    | L22C5L      | 2.20         | 1/20  | LBP         | S           | 110-120V 60Hz ~1     | RSIR  | P        | C         | 16                                                                              | 22  | <b>30</b>  | <b>0.86</b> | 63     | <b>40</b>  | <b>1.10</b> | 3.60   | Lb   |
|    | L30CL       | 3.10         | 1/12  | LBP         | S           | 220-240V 50/60Hz ~1  | RSIR  | P        | C         | 22                                                                              | 30  | <b>41</b>  | <b>0.86</b> | 86     | <b>55</b>  | <b>1.10</b> | 3.60   | Lc   |
|    | B35C        | 3.50         | 1/12  | LBP         | S           | 220V 60Hz ~1         | RSIR  | P        | C         | 24                                                                              | 33  | <b>45</b>  | <b>0.93</b> | 94     | <b>60</b>  | <b>1.18</b> | 4.60   | Bc   |
|    | B35C5B      | 3.50         | 1/12  | LBP         | S           | 110-115 60Hz ~1      | RSIR  | P        | C         | 26                                                                              | 36  | <b>49</b>  | <b>0.94</b> | 403    | <b>65</b>  | <b>1.20</b> | 4.60   | Bc   |
|    | HYB35MHJ42a | 3.50         | 1/12  | LBP         | ST          | 115V 60Hz~1          | RSIR  | P        | C         | 26                                                                              | 36  | <b>49</b>  | <b>1.04</b> | 104    | <b>65</b>  | <b>1.32</b> | 4.26   | HYBb |
|    | B43CB       | 4.30         | 1/10  | LBP         | S           | 220-240V 60Hz ~1     | RSIR  | P        | C         | 28                                                                              | 38  | <b>52</b>  | <b>0.98</b> | 109    | <b>70</b>  | <b>1.25</b> | 4.60   | Bc   |
|    | B43C5B      | 4.30         | 1/10  | LBP         | S           | 110-115V 60Hz ~1     | RSIR  | P        | C         | 31                                                                              | 43  | <b>58</b>  | <b>1.02</b> | 121    | <b>78</b>  | <b>1.30</b> | 4.60   | Bc   |
|    | HYB40MHJ42a | 4.00         | 1/10  | LBP         | ST          | 115V 60Hz ~1         | RSIR  | P        | C         | 30                                                                              | 42  | <b>57</b>  | <b>1.06</b> | 120    | <b>76</b>  | <b>1.35</b> | 4.70   | HYBd |
|    | B52C5BL     | 5.20         | 1/8   | LBP         | S           | 110-120V 60Hz ~1     | RSCR  | P        | C         | 38                                                                              | 53  | <b>72</b>  | <b>1.18</b> | 149    | <b>95</b>  | <b>1.50</b> | 5.20   | Be   |
|    | HYB50MGU72a | 5.00         | 1/8   | LBP         | ST          | 115-127V 60Hz ~1     | RSCR  | P        | C         | 38                                                                              | 53  | <b>72</b>  | <b>1.25</b> | 152    | <b>96</b>  | <b>1.58</b> | 6.00   | HYBf |
|    | B60CBL      | 6.00         | 1/6   | LBP         | S           | 220-240V 60Hz ~1     | RSIR  | P        | C         | 44                                                                              | 61  | <b>83</b>  | <b>1.03</b> | 174    | <b>110</b> | <b>1.30</b> | 4.60   | Bc   |
|    | HYB60MGU72a | 6.00         | 1/5   | LBP         | ST          | 115-127V 60Hz ~1     | RSCR  | P        | C         | 47                                                                              | 66  | <b>90</b>  | <b>1.25</b> | 190    | <b>120</b> | <b>1.58</b> | 6.00   | HYBf |
|    | HYS60MSU72a | 6.00         | 1/5   | LBP         | ST          | 115-127V 60Hz ~1     | RSCR  | P        | C         | 42                                                                              | 64  | <b>90</b>  | <b>1.42</b> | 187    | <b>120</b> | <b>1.80</b> | 7.10   | HYSb |
|    | HYS67MGU72a | 6.70         | 1/5   | LBP         | ST          | 115-127V 60Hz ~1     | RSCR  | P        | C         | 48                                                                              | 73  | <b>102</b> | <b>1.22</b> | 212    | <b>136</b> | <b>1.55</b> | 6.60   | HYSb |
|    | HYS67MKU62a | 6.70         | 1/5   | LBP         | ST          | 220-240V 60Hz ~1     | RSCR  | P        | C         | 48                                                                              | 73  | <b>102</b> | <b>1.30</b> | 212    | <b>136</b> | <b>1.65</b> | 6.80   | HYSb |
|    | HYS69MKU42a | 6.90         | 1/4   | LBP         | ST          | 115V 60Hz ~1         | RSCR  | P        | C         | 51                                                                              | 78  | <b>109</b> | <b>1.30</b> | 227    | <b>145</b> | <b>1.65</b> | 6.80   | HYSb |
|    | HYE81MSU42  | 8.10         | 1/4   | LBP         | ST          | 115V 60Hz ~1         | RSCR  | P        | C         | 65                                                                              | 94  | <b>128</b> | <b>1.42</b> | 257    | <b>170</b> | <b>1.80</b> | 9.00   | HYEb |
|   | HYS81MKU62a | 8.10         | 1/4   | LBP         | ST          | 220-240V 60Hz ~1     | RSCR  | P        | C         | 56                                                                              | 86  | <b>120</b> | <b>1.30</b> | 250    | <b>160</b> | <b>1.65</b> | 6.80   | HYSb |
|  | HYE90MSU72a | 9.00         | 1/4   | LBP         | ST          | 115-127V 60Hz ~1     | RSCR  | P        | C         | 70                                                                              | 102 | <b>139</b> | <b>1.34</b> | 279    | <b>185</b> | <b>1.70</b> | 8.30   | HYSb |
|  | HYE90MXU63  | 8.90         | 1/4   | LBP         | ST          | 220-240V 50/60Hz ~1  | RSCR  | P        | C         | 70                                                                              | 102 | <b>139</b> | <b>1.48</b> | 279    | <b>185</b> | <b>1.88</b> | 9.40   | HYSb |
|  | HYS96MTU72a | 9.60         | 1/4   | LBP         | ST          | 115-127V 60Hz ~1     | RSCR  | P        | C         | 67                                                                              | 102 | <b>143</b> | <b>1.34</b> | 297    | <b>190</b> | <b>1.70</b> | 7.10   | HYSb |
|  | HYS105MTR   | 10.50        | 3/8   | LBP         | ST          | 115-127V 60Hz ~1     | RSCR  | P        | C         | 74                                                                              | 113 | <b>158</b> | <b>1.36</b> | 329    | <b>210</b> | <b>1.72</b> | 7.30   | HYSd |
|  | HYE105MTU63 | 10.50        | 1/4   | LBP         | ST          | 220-240V 50/60Hz ~1  | RSCR  | P        | C         | 80                                                                              | 116 | <b>158</b> | <b>1.36</b> | 317    | <b>210</b> | <b>1.72</b> | 9.10   | HYEd |
|  | HYE113MSU62 | 11.30        | 1/2   | LBP         | ST          | 220-240V 60Hz ~1     | RSCR  | P        | C         | 87                                                                              | 126 | <b>172</b> | <b>1.42</b> | 345    | <b>228</b> | <b>1.80</b> | 9.40   | HYEd |

R600a HMBP | HBP • 50 Hz

Natural Refrigerant

|                                                                                     | MODEL   | DISPLACEMENT<br><br>cm³ | POWER<br><br>hp | APPLICATION | CPR COOLING | VOLTAGE<br>FREQUENCY | MOTOR | STARTING | EXPANSION | REFRIGERATION CAPACITY                                                          |     |     |      |        |     | WEIGHT<br><br>Kg | DESIGN |      |
|-------------------------------------------------------------------------------------|---------|-------------------------|-----------------|-------------|-------------|----------------------|-------|----------|-----------|---------------------------------------------------------------------------------|-----|-----|------|--------|-----|------------------|--------|------|
|                                                                                     |         |                         |                 |             |             |                      |       |          |           | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature<br>°C |     |     |      |        |     |                  |        |      |
|                                                                                     |         |                         |                 |             |             |                      |       |          |           | Cecomaf (W)                                                                     |     |     |      | Ashrae |     |                  |        |      |
|                                                                                     |         |                         |                 |             |             |                      |       |          |           | -25                                                                             | -15 | -5  |      | -10    | 7.2 |                  |        |      |
|                                                                                     |         |                         |                 |             |             |                      |       |          |           |                                                                                 |     | W   | COP  |        | W   |                  |        | COP  |
|  | HFY55MA | 5.50                    | 1/6             | HMBP        | S           | 220-240V 50Hz ~1     | RSIR  | P        | C         | 64                                                                              | 110 | 273 | 2.38 | 327    | 325 | 2.75             | 7.10   | HFYb |
|  | HFY70MA | 6.70                    | 1/6             | HMBP        | S           | 220-240V 50Hz ~1     | RSIR  | P        | C         | 80                                                                              | 137 | 338 | 2.37 | 406    | 395 | 2.75             | 7.10   | HFYb |

 Green Cooling Models

|                            | Conditions   |              |              |              |
|----------------------------|--------------|--------------|--------------|--------------|
|                            | CECOMAF      |              | ASHRAE       |              |
|                            | LBP/LMBP (A) | HMBP/HBP (C) | LBP/LMBP (B) | HMBP/HBP (D) |
| Evaporating temperature °C | -25          | 5            | -23.3        | 7.2          |
| Condensing temperature °C  | 55           | 55           | 55           | 55           |
| Liquid temperature °C      | 55           | 55           | 32           | 46           |
| Suction temperature °C     | 32           | 32           | 32           | 35           |
| Ambient temperature °C     | 32           | 32           | 32           | 35           |

Measurement conversion

R290  
W (A) x 1.17 = kcal/h (B)  
W (C) x 1.03 = kcal/h (D)

R600a  
W (A) x 1.15 = kcal/h (B)  
W (C) x 1.02 = kcal/h (D)





# 3.

Compressors  
Catalogue

**R134a**



## R134a LBP | LMBP • 50 Hz

| MODEL      | DISPLACEMENT<br><br>cm³ | POWER<br><br>hp | APPLICATION | CPR COOLING | VOLTAGE<br>FREQUENCY     | MOTOR | STARTING | EXPANSION | REFRIGERATION CAPACITY                                                          |     |     |      |     |       |        |       | WEIGHT<br><br>Kg | DESIGN |
|------------|-------------------------|-----------------|-------------|-------------|--------------------------|-------|----------|-----------|---------------------------------------------------------------------------------|-----|-----|------|-----|-------|--------|-------|------------------|--------|
|            |                         |                 |             |             |                          |       |          |           | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature<br>°C |     |     |      |     |       |        |       |                  |        |
|            |                         |                 |             |             |                          |       |          |           | Cecomaf (W)                                                                     |     |     |      |     |       | Ashrae |       |                  |        |
|            |                         |                 |             |             |                          |       |          |           | -35                                                                             | -30 | -25 |      | -10 | -23.3 |        |       |                  |        |
|            |                         |                 |             |             |                          |       |          |           |                                                                                 |     | W   | COP  |     | W     | COP    |       |                  |        |
| L22HL      | 2.20                    | 1/20            | LBP         | S           | 220-240V 50Hz ~1         | RSIR  | P        | C         | 16                                                                              | 24  | 34  | 0.63 | 75  | 47    | 0.82   | 3.70  | Lb               |        |
| HYB25YJ63a | 2.50                    | 1/12            | LBP         | S           | 220-240V 50/60Hz ~1      | RSIR  | P        | C         | 20                                                                              | 33  | 47  | 0.73 | 101 | 65    | 0.95   | 4.26  | HYBb             |        |
| HYB30YJ63a | 3.00                    | 1/12            | LBP         | S           | 220-240V 50/60Hz ~1      | RSIR  | P        | C         | 33                                                                              | 46  | 57  | 0.73 | 132 | 78    | 0.95   | 4.26  | HYBb             |        |
| L30HL      | 3.10                    | 1/12            | LBP         | S           | 220-240V 50/60Hz ~1      | RSIR  | P        | C         | 23                                                                              | 35  | 49  | 0.69 | 108 | 67    | 0.90   | 4.20  | Lc               |        |
| HYB35YJ63a | 3.50                    | 1/10            | LBP         | S           | 220-240V 50/60Hz ~1      | RSIR  | P        | C         | 37                                                                              | 52  | 66  | 0.73 | 146 | 90    | 0.95   | 4.62  | HYBc             |        |
| B38H       | 3.80                    | 1/12            | LBP         | S/F         | 220-240V 50Hz ~1         | RSIR  | P        | C         | 30                                                                              | 45  | 63  | 0.73 | 139 | 86    | 0.95   | 4.60  | Bc               |        |
| HYB41YK63a | 4.10                    | 1/8             | LBP         | S           | 220-240V 50/60Hz ~1      | RSCR  | P        | C         | 39                                                                              | 57  | 80  | 1.11 | 177 | 110   | 1.40   | 6.30  | HYBf             |        |
| B43H       | 4.30                    | 1/10            | LBP         | S/F         | 220-240V 50/60Hz ~1      | RSIR  | P        | C         | 34                                                                              | 50  | 71  | 0.77 | 156 | 97    | 1.00   | 5.40  | Bd               |        |
| B43HB      | 4.30                    | 1/10            | LBP         | S           | 220-240V 50Hz ~1         | RSCR  | P        | C         | 35                                                                              | 51  | 72  | 0.92 | 158 | 98    | 1.20   | 5.00  | Bd               |        |
| HYS45YH81a | 4.50                    | 1/8             | LBP         | S           | 220-240V 50Hz ~1         | RSIR  | P        | C         | 44                                                                              | 61  | 91  | 1.00 | 196 | 125   | 1.30   | 7.10  | HYSd             |        |
| B48H       | 4.80                    | 1/8             | LBP         | S           | 220-240V 50Hz ~1         | RSIR  | P        | C         | 38                                                                              | 56  | 79  | 0.81 | 174 | 108   | 1.05   | 5.00  | Bb               |        |
| HYS55YCA   | 5.50                    | 1/6             | LBP         | S           | 220-240V/50Hz            | RSIR  | P        | C         | 60                                                                              | 84  | 113 | 1.04 | 246 | 155   | 1.35   | 7.00  | HYSe             |        |
| HYE55YL63  | 5.50                    | 1/6             | LBP         | S           | 220-240V 50/60Hz ~1      | RSCR  | P        | C         | 59                                                                              | 83  | 116 | 0.86 | 243 | 155   | 1.15   | 7.90  | HYEf             |        |
| HYE60YL63  | 6.00                    | 1/6             | LBP         | S           | 220-240V 50/60Hz ~1      | RSIR  | P        | C         | 68                                                                              | 94  | 130 | 0.86 | 263 | 174   | 1.10   | 8.30  | HYEf             |        |
| HYS60YCA   | 6.00                    | 1/6             | LBP         | S           | 220-240V 50Hz ~1         | RSIR  | P        | C         | 66                                                                              | 91  | 128 | 1.04 | 258 | 175   | 1.35   | 7.40  | HYSe             |        |
| HYE69YL63  | 6.70                    | 1/6             | LBP         | S           | 220-240V 50/60Hz ~1      | RSIR  | P        | C         | 78                                                                              | 108 | 141 | 0.99 | 301 | 190   | 1.15   | 8.30  | HYEd             |        |
| HYS69YCA   | 6.70                    | 1/5             | LBP         | S           | 220-240V/50Hz            | RSIR  | P        | C         | 79                                                                              | 110 | 142 | 1.04 | 303 | 195   | 1.35   | 7.40  | HYSd             |        |
| HYE81Ya    | 8.10                    | 1/4             | LBP         | F           | 220-240V/50Hz            | RSIR  | P        | C         | 113                                                                             | 158 | 175 | 1.01 | 454 | 225   | 1.25   | 8.90  | HYEc             |        |
| GUG80LG    | 8.10                    | 1/4             | LBP         | F           | 220-240V 50/60Hz ~1      | CSIR  | R        | C-V       | 113                                                                             | 158 | 175 | 1.01 | 454 | 235   | 1.35   | 9.40  | Ub               |        |
| HY113Ya    | 11.30                   | 3/8             | LBP         | F           | 220-240V/50Hz            | CSR   | R        | C-V       | 140                                                                             | 200 | 246 | 1.05 | 623 | 330   | 1.35   | 11.20 | HYb              |        |
| HY131Ya    | 13.10                   | 1/2             | LBP         | F           | 220-240V/50Hz            | CSR   | R        | C-V       | 187                                                                             | 259 | 283 | 1.05 | 723 | 380   | 1.35   | 11.20 | HYb              |        |
| GPY14NGa   | 14.32                   | 1/2             | LMBP        | F           | 200-220/220-230v 50/60Hz | CSIR  | R        | C-V       | 147                                                                             | 205 | 283 | 0.92 | 636 | 376   | 1.14   | 12.59 | Pd               |        |
| GPY14NGb   | 14.32                   | 1/2             | LMBP        | F           | 200-220/220-230v 50/60Hz | CSR   | R        | C-V       | 148                                                                             | 206 | 284 | 0.97 | 636 | 388   | 1.27   | 12.69 | Pd               |        |
| GPY16LAa   | 16.15                   | 1/2             | LBP         | F           | 220-240V 50Hz ~1         | CSIR  | R        | C-V       | 151                                                                             | 220 | 306 | 1.02 | 677 | 419   | 1.32   | 11.73 | Pd               |        |
| GPY16LAb   | 16.15                   | 1/2             | LBP         | F           | 220-240V 50Hz ~1         | CSR   | R        | C-V       | 151                                                                             | 220 | 306 | 1.09 | 677 | 419   | 1.42   | 11.83 | Pd               |        |
| HY153Y     | 15.30                   | 1/2             | LBP         | F           | 220-240V/50Hz            | CSIR  | R        | C-V       | 206                                                                             | 296 | 314 | 1.00 | 842 | 430   | 1.28   | 11.20 | HYb              |        |
| GX21FB     | 20.72                   | 2/3             | LBP         | F           | 220-240V 50Hz ~1         | CSIR  | R        | C-V       | 151                                                                             | 243 | 351 | 0.93 | 778 | 483   | 1.20   | 15.75 | Xc               |        |

This table continues in the following page

## R134a LBP | LMBP • 60 Hz

| MODEL       | DISPLACEMENT | POWER | APPLICATION | CPR COOLING | VOLTAGE<br>FREQUENCY     | MOTOR | STARTING | EXPANSION | REFRIGERATION CAPACITY                                                          |     |     |      |     |       |        |       | WEIGHT | DESIGN |
|-------------|--------------|-------|-------------|-------------|--------------------------|-------|----------|-----------|---------------------------------------------------------------------------------|-----|-----|------|-----|-------|--------|-------|--------|--------|
|             |              |       |             |             |                          |       |          |           | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature<br>°C |     |     |      |     |       |        |       |        |        |
|             |              |       |             |             |                          |       |          |           | Cecomaf (W)                                                                     |     |     |      |     |       | Ashrae |       |        |        |
|             |              |       |             |             |                          |       |          |           | -35                                                                             | -30 | -25 |      | -10 | -23.3 |        |       |        |        |
|             |              |       |             |             |                          |       |          |           |                                                                                 |     | W   | COP  |     | W     | COP    |       |        |        |
| cm³         | hp           |       |             |             |                          |       |          |           |                                                                                 |     |     |      |     | Kg    |        |       |        |        |
| L22H5       | 2.20         | 1/20  | LBP         | S           | 110-120V 60Hz ~1         | RSIR  | P        | C         | 19                                                                              | 28  | 39  | 0.56 | 87  | 53    | 0.75   | 3.60  | Lb     |        |
| HYB25YJ63a  | 2.50         | 1/12  | LBP         | S           | 220-240V 50/60Hz ~1      | RSIR  | P        | C         | 26                                                                              | 39  | 55  | 0.81 | 123 | 76    | 1.05   | 4.26  | HYBb   |        |
| L30HL       | 3.10         | 1/12  | LBP         | S           | 220-240V 50/60Hz ~1      | RSIR  | P        | C         | 26                                                                              | 39  | 55  | 0.80 | 123 | 74    | 1.04   | 4.20  | Lc     |        |
| L30H5L      | 3.10         | 1/12  | LBP         | S           | 110-120V 60Hz ~1         | RSIR  | P        | C         | 27                                                                              | 40  | 57  | 0.73 | 127 | 78    | 0.95   | 3.85  | Lc     |        |
| HYB30YJ63a  | 3.00         | 1/12  | LBP         | S           | 220-240V 50/60Hz ~1      | RSIR  | P        | C         | 32                                                                              | 46  | 66  | 0.82 | 148 | 90    | 1.05   | 4.26  | HYBb   |        |
| HYB30YHJ72a | 3.00         | 1/12  | LBP         | S           | 115-127V 60Hz ~1         | RSIR  | P        | C         | 38                                                                              | 55  | 73  | 1.00 | 163 | 100   | 1.30   | 5.00  | HYBc   |        |
| HYB35YJ63a  | 3.50         | 1/12  | LBP         | S           | 220-240V 50/60Hz ~1      | RSIR  | P        | C         | 43                                                                              | 61  | 77  | 0.82 | 172 | 104   | 1.05   | 4.62  | HYBc   |        |
| B38H        | 3.80         | 1/12  | LBP         | S/F         | 220-240V 60Hz ~1         | RSIR  | P        | C         | 34                                                                              | 50  | 71  | 0.96 | 158 | 97    | 1.10   | 4.60  | Bc     |        |
| B38H5       | 3.80         | 1/12  | LBP         | S           | 110-115V 60Hz ~1         | RSIR  | P        | C         | 34                                                                              | 50  | 71  | 0.96 | 158 | 97    | 1.10   | 5.00  | Bc     |        |
| B38H5L      | 3.80         | 1/12  | LBP         | S           | 110-120V 60Hz ~1         | RSIR  | P        | C         | 34                                                                              | 50  | 71  | 0.81 | 158 | 97    | 1.05   | 4.60  | Bc     |        |
| HYB41Y72a   | 4.10         | 1/8   | LBP         | S           | 115-127V 60Hz ~1         | RSIR  | P        | C         | 45                                                                              | 66  | 95  | 1.00 | 205 | 130   | 1.30   | 5.80  | HYBf   |        |
| HYB41YK63a  | 4.10         | 1/8   | LBP         | S           | 220-240V 50/60Hz ~1      | RSCR  | P        | C         | 46                                                                              | 67  | 96  | 1.16 | 208 | 132   | 1.50   | 6.30  | HYBf   |        |
| B43H        | 4.30         | 1/10  | LBP         | S/F         | 220-240V 50/60Hz ~1      | RSIR  | P        | C         | 39                                                                              | 58  | 81  | 0.96 | 181 | 110   | 1.10   | 5.40  | Bd     |        |
| B43HB       | 4.30         | 1/10  | LBP         | S           | 220-240V 50/60Hz ~1      | RSCR  | P        | C         | 39                                                                              | 58  | 81  | 1.00 | 181 | 110   | 1.30   | 5.20  | Bd     |        |
| B43H5L      | 4.30         | 1/10  | LBP         | S           | 110-120V 60Hz ~1         | RSIR  | P        | C         | 39                                                                              | 58  | 81  | 0.81 | 181 | 110   | 1.05   | 5.00  | Bc     |        |
| HYS45YT42a  | 4.50         | 1/8   | LBP         | S           | 115V 60Hz ~1             | RSCR  | P        | C         | 54                                                                              | 80  | 113 | 1.22 | 234 | 152   | 1.57   | 7.40  | HYSb   |        |
| HYE55YT72a  | 5.50         | 1/6   | LBP         | S           | 115-127V 60Hz ~1         | RSCR  | P        | C         | 74                                                                              | 101 | 145 | 1.31 | 305 | 194   | 1.68   | 8.60  | HYEd   |        |
| HYE55YL63   | 5.50         | 1/6   | LBP         | S           | 220-240V 50/60Hz ~1      | RSIR  | P        | C         | 68                                                                              | 96  | 130 | 0.90 | 282 | 175   | 1.15   | 7.90  | HYEc   |        |
| HYE60YD72   | 6.00         | 1/6   | LBP         | S           | 115-127V 60Hz ~1         | RSCR  | P        | C         | 82                                                                              | 118 | 164 | 1.40 | 377 | 220   | 1.80   | 9.50  | HYEd   |        |
| HYE60YL63   | 6.00         | 1/6   | LBP         | S           | 220-240V 50/60Hz ~1      | RSIR  | P        | C         | 74                                                                              | 101 | 145 | 0.90 | 305 | 195   | 1.15   | 8.30  | HYEc   |        |
| GUY60NRb    | 6.00         | 1/6   | LMBP        | F           | 115-127V 60Hz ~1         | CSIR  | R        | C-V       | 80                                                                              | 113 | 158 | 1.15 | 362 | 215   | 1.49   | 9.00  | Ub     |        |
| GUY60NRc    | 6.00         | 1/6   | LMBP        | S           | 115-127V 60Hz ~1         | CSIR  | R        | C-V       | 80                                                                              | 113 | 158 | 1.15 | 362 | 215   | 1.49   | 9.00  | Ub     |        |
| GUY70NRb    | 6.70         | 1/5   | LMBP        | F           | 115-127V 60Hz ~1         | CSIR  | R        | C         | 86                                                                              | 121 | 166 | 1.15 | 386 | 226   | 1.49   | 9.30  | Ub     |        |
| GUY70NRc    | 6.70         | 1/5   | LMBP        | S           | 115-127V 60Hz ~1         | CSIR  | R        | C         | 86                                                                              | 121 | 166 | 1.15 | 386 | 226   | 1.49   | 9.30  | Ub     |        |
| GUG80LG     | 8.10         | 1/4   | LBP         | F           | 220-240V/50/60Hz         | CSIR  | R        | C-V       | 102                                                                             | 143 | 196 | 1.09 | 456 | 263   | 1.40   | 9.20  | Ub     |        |
| GUY80NRb    | 8.10         | 1/4   | LMBP        | F           | 115-127V 60Hz ~1         | CSIR  | R        | C-V       | 107                                                                             | 151 | 209 | 1.14 | 480 | 285   | 1.49   | 9.60  | Ub     |        |
| GUY80NRc    | 8.10         | 1/4   | LMBP        | S           | 115-127V 60Hz ~1         | CSIR  | R        | C-V       | 107                                                                             | 151 | 209 | 1.14 | 480 | 285   | 1.49   | 9.60  | Ub     |        |
| GLY12NRa    | 10.70        | 1/3   | LMBP        | F           | 115-127V 60Hz ~1         | CSIR  | R        | C-V       | 119                                                                             | 168 | 234 | 1.02 | 531 | 320   | 1.33   | 11.20 | Ld     |        |
| GLY12NRb    | 10.70        | 1/3   | LMBP        | F           | 115-127V 60Hz ~1         | CSR   | R        | C-V       | 119                                                                             | 168 | 234 | 1.07 | 531 | 320   | 1.39   | 11.20 | Ld     |        |
| HY113Y42    | 11.30        | 3/8   | LBP         | F           | 115V/60Hz                | CSIR  | R        | C-V       | 126                                                                             | 192 | 276 | 1.01 | 636 | 370   | 1.30   | 11.40 | HYb    |        |
| GPY12NRa    | 12.10        | 3/8   | LMBP        | F           | 115-127V 60Hz ~1         | CSIR  | R        | C-V       | 123                                                                             | 187 | 269 | 0.99 | 621 | 370   | 1.29   | 12.78 | Pd     |        |
| GPY12NRb    | 12.10        | 3/8   | LMBP        | F           | 115-127V 60Hz ~1         | CSR   | R        | C-V       | 123                                                                             | 187 | 269 | 1.05 | 621 | 370   | 1.36   | 12.78 | Pd     |        |
| GPY14NDa    | 14.32        | 1/2   | LMBP        | F           | 115V 60Hz ~1             | CSIR  | R        | C-V       | 166                                                                             | 234 | 322 | 0.90 | 715 | 440   | 1.17   | 12.04 | Pd     |        |
| GPY14NDb    | 14.32        | 1/2   | LMBP        | F           | 115V 60Hz ~1             | CSR   | R        | C-V       | 168                                                                             | 235 | 324 | 1.02 | 722 | 442   | 1.26   | 12.14 | Pd     |        |
| GPY14NGa    | 14.32        | 1/2   | LMBP        | F           | 200-220/220-230v 50/60Hz | CSIR  | R        | C-V       | 173                                                                             | 241 | 330 | 0.98 | 728 | 450   | 1.27   | 12.59 | Pd     |        |
| GPY14NGb    | 14.32        | 1/2   | LMBP        | F           | 200-220/220-230v 50/60Hz | CSR   | R        | C-V       | 173                                                                             | 242 | 331 | 1.03 | 729 | 452   | 1.33   | 12.69 | Pd     |        |

This table continues in the following page

# R134a HMBP | HBP • 50 Hz

| MODEL    | DISPLACEMENT<br><br>cm³ | POWER<br><br>hp | APPLICATION | CPR COOLING | VOLTAGE<br>FREQUENCY        | MOTOR  | STARTING | EXPANSION | REFRIGERATION CAPACITY                                                          |      |      |      |      |        |      | WEIGHT<br><br>Kg | DESIGN |
|----------|-------------------------|-----------------|-------------|-------------|-----------------------------|--------|----------|-----------|---------------------------------------------------------------------------------|------|------|------|------|--------|------|------------------|--------|
|          |                         |                 |             |             |                             |        |          |           | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature<br>°C |      |      |      |      |        |      |                  |        |
|          |                         |                 |             |             |                             |        |          |           | Cecomaf (W)                                                                     |      |      |      |      | Ashrae |      |                  |        |
|          |                         |                 |             |             |                             |        |          |           | -25                                                                             | -15  | 5    |      | 10   | 7.2    |      |                  |        |
|          |                         |                 |             |             |                             |        |          |           |                                                                                 |      | W    | COP  |      | W      | COP  |                  |        |
| B22G     | 2.20                    | 1/20            | HBP         | S-F         | 220-240V 50Hz ~1            | RSIR   | P        | C         | -                                                                               | 60   | 152  | 1.64 | 192  | 186    | 1.94 | 4.60             | Bb     |
| B25G     | 2.60                    | 1/14            | HBP         | S-F         | 220-240V 50Hz ~1            | RSIR   | P        | C         | -                                                                               | 76   | 202  | 1.53 | 243  | 242    | 2.08 | 4.60             | Bb     |
| B25GL    | 2.60                    | 1/14            | HBP         | S           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | -                                                                               | 70   | 190  | 1.84 | 228  | 228    | 2.14 | 5.50             | Be     |
| B30G     | 3.10                    | 1/12            | HBP         | S-F         | 220-240V 50Hz ~1            | RSIR   | P        | C         | -                                                                               | 83   | 229  | 1.77 | 270  | 272    | 1.77 | 4.80             | Bc     |
| B30G     | 3.10                    | 1/12            | HBP         | S-F         | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | -                                                                               | 83   | 229  | 1.77 | 270  | 272    | 1.77 | 4.80             | Bc     |
| B35GL    | 3.50                    | 1/12            | HBP         | S-F         | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | -                                                                               | 100  | 269  | 1.87 | 323  | 323    | 2.18 | 5.50             | Bf     |
| B38G     | 3.80                    | 1/12            | HBP         | S-F         | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | -                                                                               | 129  | 291  | 1.91 | 347  | 347    | 2.23 | 5.00             | Bc     |
| B43GL    | 4.30                    | 1/10            | HBP         | S-F         | 220-240V 50Hz ~1            | RSIR   | P        | C         | -                                                                               | 122  | 348  | 1.75 | 422  | 419    | 1.77 | 5.30             | Bf     |
| GU45TG   | 4.50                    | 1/8             | HMBP        | F           | 200-230V/50Hz 220-240V/60Hz | CSIR   | R        | C-V       |                                                                                 | 161  | 393  | 2.07 | 471  | 470    | 2.40 | 8.60             | Ub     |
| GU60TG   | 6.00                    | 1/6             | HBP         | F           | 200-230V/50Hz 220-240V/60Hz | CSIR   | R        | C-V       | -                                                                               | 219  | 529  | 2.06 | 652  | 640    | 2.40 | 8.60             | Ub     |
| GUY60RAa | 6.00                    | 1/6             | HMBP        | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | 126                                                                             | 221  | 540  | 2.32 | 646  | 644    | 2.70 | 9.04             | Ub     |
| GUY60RAb | 6.00                    | 1/6             | HMBP        | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 126                                                                             | 222  | 545  | 2.53 | 653  | 651    | 2.95 | 9.16             | Ub     |
| GE70TG   | 6.70                    | 1/5             | HBP         | F           | 200-230V/50Hz 22-240v/60Hz  | CSIR   | R        | C-V       | -                                                                               | 242  | 584  | 2.01 | 711  | 705    | 2.20 | 8.60             | Ub     |
| GE80TG   | 8.10                    | 1/4             | HBP         | F           | 220-240V/50Hz 230V/60Hz     | CSIR   | R        | C-V       | -                                                                               | 285  | 687  | 1.99 | 847  | 830    | 2.20 | 8.90             | Ub     |
| GUY80RAa | 8.10                    | 1/4             | HMBP        | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | 174                                                                             | 302  | 720  | 2.22 | 859  | 858    | 2.45 | 9.70             | Uc     |
| GUY80RAb | 8.10                    | 1/4             | HMBP        | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 177                                                                             | 304  | 727  | 2.38 | 868  | 858    | 2.75 | 9.80             | Uc     |
| GU80TB   | 8.10                    | 1/4             | HBP         | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | -                                                                               | 272  | 693  | 1.99 | 836  | 830    | 2.30 | 9.30             | Uc     |
| GUY90RAa | 8.80                    | 1/4             | HMBP        | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | 182                                                                             | 317  | 775  | 2.21 | 929  | 925    | 2.45 | 9.70             | Uc     |
| GUY90RAb | 8.80                    | 1/4             | HMBP        | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 180                                                                             | 319  | 783  | 2.35 | 938  | 935    | 2.73 | 9.80             | Uc     |
| GLY12RAa | 10.70                   | 1/3             | HBP         | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | -                                                                               | 349  | 867  | 1.97 | 1064 | 1047   | 2.30 | 10.23            | Ld     |
| GLY12RAb | 10.70                   | 1/3             | HBP         | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | -                                                                               | 349  | 867  | 2.20 | 1064 | 1047   | 2.57 | 10.33            | Ld     |
| GLY12RGa | 10.70                   | 1/3             | HBP         | F           | 200-220/220-230V 50/60Hz ~1 | CSIR   | R        | C-V       | -                                                                               | 349  | 867  | 1.87 | 1064 | 1047   | 2.19 | 10.43            | Ld     |
| GLY12RGb | 10.70                   | 1/3             | HBP         | F           | 200-220/220-230V 50/60Hz ~1 | CSR    | R        | C-V       | -                                                                               | 349  | 867  | 1.98 | 1064 | 1047   | 2.32 | 10.53            | Ld     |
| HY113YZ  | 11.30                   | 3/8             | HMBP        | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       |                                                                                 | 345  | 858  | 1.88 | 1052 | 1000   | 2.20 | 10.80            | HYb    |
| GPY12RAa | 12.10                   | 3/8             | HMBP        | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | 228                                                                             | 401  | 992  | 2.03 | 1191 | 1183   | 2.35 | 13.31            | Pd     |
| GPY12RAb | 12.10                   | 3/8             | HMBP        | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 228                                                                             | 401  | 992  | 2.23 | 1191 | 1183   | 2.58 | 13.42            | Pd     |
| HY131YZ  | 13.10                   | 1/2             | HMBP        | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | 224                                                                             | 394  | 975  | 1.92 | 1171 | 1160   | 2.20 | 10.80            | HYb    |
| GP14TG   | 14.17                   | 1/2             | HMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSIR   | R        | C-V       | 190                                                                             | 373  | 998  | 1.76 | 1208 | 1198   | 2.03 | 11.98            | Pd     |
| HY153YZ  | 15.30                   | 1/2             | HBP         | F           | 220-240V 50Hz               | CSIR   | R        | C-V       | -                                                                               | 405  | 1083 | 1.87 | 1310 | 1300   | 2.15 | 10.80            | HYb    |
| GPY14RAa | 14.32                   | 1/2             | HMBP        | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | 296                                                                             | 492  | 1161 | 1.97 | 1386 | 1380   | 2.27 | 12.20            | Pd     |
| GPY14RAb | 14.32                   | 1/2             | HMBP        | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 296                                                                             | 492  | 1161 | 2.16 | 1386 | 1380   | 2.50 | 12.30            | Pd     |
| GP16TB   | 16.15                   | 1/2             | HBP         | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | -                                                                               | 476  | 1204 | 1.80 | 1451 | 1442   | 2.09 | 11.93            | Pd     |
| GP16TG   | 16.15                   | 1/2             | HBP         | F           | 200-220/230V 50/60Hz ~1     | CSIR   | R        | C-V       | -                                                                               | 476  | 1204 | 1.81 | 1451 | 1442   | 2.09 | 11.93            | Pd     |
| GPY16RAa | 16.15                   | 1/2             | HMBP        | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | 307                                                                             | 542  | 1317 | 2.02 | 1574 | 1571   | 2.34 | 12.84            | Pd     |
| GPY16RAb | 16.15                   | 1/2             | HMBP        | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 307                                                                             | 542  | 1317 | 2.15 | 1574 | 1571   | 2.50 | 12.94            | Pd     |
| GPT16RG  | 16.15                   | 1/2             | HBP         | F           | 200-220/220-230V 50/60Hz ~1 | CSR    | R        | C-V       | -                                                                               | 552  | 1323 | 2.13 | 1600 | 1586   | 2.50 | 12.16            | Pd     |
| GPT18RA  | 18.00                   | 2/3             | HBP         | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | -                                                                               | 618  | 1482 | 2.06 | 1783 | 1774   | 2.39 | 12.68            | Pe     |
| GPT18RG  | 18.00                   | 2/3             | HBP         | F           | 200-220/230V 50/60Hz ~1     | CSR    | R        | C-V       | -                                                                               | 602  | 1443 | 2.04 | 1745 | 1731   | 2.37 | 12.84            | Xc     |
| GX21TB   | 20.72                   | 2/3             | HMBP        | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | 323                                                                             | 603  | 1549 | 1.88 | 1866 | 1855   | 2.18 | 16.13            | Xd     |
| GX23TB   | 23.20                   | 5/8             | HMBP        | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | 368                                                                             | 677  | 1729 | 1.88 | 2082 | 2070   | 2.18 | 16.33            | Xd     |
| GX23TG   | 23.20                   | 5/8             | HMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSIR   | R        | C-V       | 368                                                                             | 677  | 1729 | 1.79 | 2082 | 2070   | 2.08 | 16.34            | Xd     |
| GS26T3   | 25.93                   | 3/4             | HMBP        | F           | 400/440V 50/60Hz ~3         | 3PHASE | P        | C-V       | 265                                                                             | 703  | 2070 | 2.19 | 2514 | 2489   | 2.55 | 22.70            | Sc     |
| GS26TB   | 25.93                   | 3/4             | HMBP        | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | 265                                                                             | 703  | 2070 | 2.08 | 2514 | 2489   | 2.42 | 22.70            | Sc     |
| GS26TG   | 25.93                   | 3/4             | HMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSIR   | R        | C-V       | 265                                                                             | 703  | 2070 | 2.14 | 2514 | 2489   | 2.49 | 22.70            | Sc     |
| GS30TB   | 29.95                   | 7/8             | HMBP        | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 317                                                                             | 785  | 2451 | 2.31 | 3019 | 2966   | 2.70 | 22.70            | Sd     |
| GS30TG   | 29.95                   | 7/8             | HMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSR    | R        | C-V       | 317                                                                             | 785  | 2451 | 2.31 | 3019 | 2966   | 2.70 | 23.00            | Sd     |
| GS34TB   | 34.42                   | 1               | HMBP        | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 476                                                                             | 1068 | 2850 | 2.26 | 3420 | 3408   | 2.62 | 21.35            | Sd     |
| GS34TG   | 34.42                   | 1               | HMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSR    | R        | C-V       | 467                                                                             | 992  | 2829 | 2.24 | 3453 | 3409   | 2.64 | 22.27            | Sd     |

# R134a HMBP | HBP • 60 Hz

| MODEL    | DISPLACEMENT<br><br>cm³ | POWER<br><br>hp | APPLICATION | CPR COOLING | VOLTAGE<br>FREQUENCY        | MOTOR  | STARTING | EXPANSION | REFRIGERATION CAPACITY                                                          |      |      |      |      |        |      | WEIGHT<br><br>Kg | DESIGN |
|----------|-------------------------|-----------------|-------------|-------------|-----------------------------|--------|----------|-----------|---------------------------------------------------------------------------------|------|------|------|------|--------|------|------------------|--------|
|          |                         |                 |             |             |                             |        |          |           | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature<br>°C |      |      |      |      |        |      |                  |        |
|          |                         |                 |             |             |                             |        |          |           | Cecomaf (W)                                                                     |      |      |      |      | Ashrae |      |                  |        |
|          |                         |                 |             |             |                             |        |          |           | -25                                                                             | -15  | 5    |      | 10   | 7.2    |      |                  |        |
|          |                         |                 |             |             |                             |        |          |           |                                                                                 |      | W    | COP  |      | W      | COP  |                  |        |
| B22G5    | 2.20                    | 1/20            | HBP         | S-F         | 110-115V 60Hz ~1            | RSIR   | P        | C         | -                                                                               | 72   | 188  | 1.83 | 229  | 226    | 2.13 | 4.60             | Bb     |
| B25G5L   | 2.60                    | 1/14            | HBP         | S-F         | 110-115V 60Hz ~1            | CSIR   | R        | C-V       | -                                                                               | 88   | 231  | 1.93 | 283  | 279    | 2.27 | 5.70             | Be     |
| B30G5    | 3.10                    | 1/12            | HBP         | S-F         | 110-115V 60Hz ~1            | RSIR   | P        | C         | -                                                                               | 100  | 262  | 1.55 | 317  | 314    | 1.80 | 5.00             | Bc     |
| B35G5    | 3.50                    | 1/12            | HBP         | S-F         | 110-120V 60Hz ~1            | CSIR   | R        | C-V       | -                                                                               | 120  | 304  | 1.80 | 371  | 366    | 2.12 | 5.00             | Bc     |
| B38G5L   | 3.80                    | 1/12            | HBP         | S-F         | 110-115V 60Hz ~1            | CSIR   | R        | C-V       | -                                                                               | 136  | 353  | 1.83 | 424  | 422    | 2.13 | 5.70             | Be     |
| GU45TG   | 4.50                    | 1/8             | HMBP        | F           | 200-230V/50Hz 220-240V/60Hz | CSIR   | R        | C-V       | 101                                                                             | 177  | 431  | 2.05 | 515  | 545    | 2.50 | 8.60             | Ub     |
| GU60TG   | 6.00                    | 1/6             | HBP         | F           | 200-230V/50Hz 220-240V/60Hz | CSIR   | R        | C-V       | -                                                                               | 257  | 620  | 2.05 | 765  | 740    | 2.50 | 8.60             | Ub     |
| GE70TG   | 6.70                    | 1/5             | HBP         | F           | 220-240V/50Hz 230V/60Hz     | CSIR   | R        | C-V       | -                                                                               | 285  | 701  | 2.11 | 842  | 820    | 2.30 | 8.60             | Ub     |
| GE80TG   | 8.10                    | 1/4             | HBP         | F           | 220-240V/50Hz 230V/60Hz     | CSIR   | R        | C-V       | -                                                                               | 328  | 798  | 1.95 | 995  | 960    | 2.30 | 8.90             | Ub     |
| GLY12RGa | 10.70                   | 1/3             | HBP         | F           | 200-220/220-230V 50/60Hz ~1 | CSIR   | R        | C-V       | -                                                                               | 405  | 1007 | 1.90 | 1216 | 1207   | 2.22 | 10.43            | Ld     |
| GLY12RGb | 10.70                   | 1/3             | HBP         | F           | 200-220/220-230V 50/60Hz ~1 | CSR    | R        | C-V       | -                                                                               | 405  | 1007 | 2.07 | 1216 | 1207   | 2.40 | 10.53            | Ld     |
| GLY12RRa | 10.70                   | 1/3             | HMBP        | F           | 115-127V 60Hz ~1            | CSIR   | R        | C-V       | 222                                                                             | 402  | 1015 | 1.90 | 1221 | 1214   | 2.20 | 11.14            | Ld     |
| GLY12RRb | 10.70                   | 1/3             | HMBP        | F           | 115-127V 60Hz ~1            | CSR    | R        | C-V       | 222                                                                             | 402  | 1015 | 2.01 | 1221 | 1214   | 2.32 | 11.24            | Ld     |
| GPY12RDa | 12.10                   | 3/8             | HMBP        | F           | 115V 60Hz ~1                | CSIR   | R        | C-V       | 280                                                                             | 480  | 1150 | 1.95 | 1375 | 1372   | 2.25 | 12.03            | Pd     |
| GPY12RDb | 12.10                   | 3/8             | HMBP        | F           | 115V 60Hz ~1                | CSR    | R        | C-V       | 280                                                                             | 480  | 1150 | 2.11 | 1375 | 1372   | 2.44 | 12.13            | Pd     |
| GP14TG   | 14.17                   | 1/2             | HMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSIR   | R        | C-V       | 222                                                                             | 437  | 1168 | 1.76 | 1413 | 1401   | 2.03 | 11.98            | Pd     |
| GPY14RDa | 14.32                   | 1/2             | HBP         | F           | 115V 60Hz ~1                | CSIR   | R        | C-V       | -                                                                               | 317  | 1234 | 1.78 | 2012 | 1706   | 2.22 | 12.03            | Pd     |
| GPY14RDb | 14.32                   | 1/2             | HBP         | F           | 115V 60Hz ~1                | CSR    | R        | C-V       | -                                                                               | 317  | 1234 | 1.89 | 2012 | 1706   | 2.36 | 12.13            | Pd     |
| GP16TE   | 16.15                   | 1/2             | HBP         | F           | 115V 60Hz ~1                | CSIR   | R        | C-V       | -                                                                               | 556  | 1408 | 1.69 | 1697 | 1686   | 1.96 | 12.20            | Pd     |
| GP16TG   | 16.15                   | 1/2             | HBP         | F           | 200-220/230V 50/60Hz ~1     | CSIR   | R        | C-V       | -                                                                               | 556  | 1408 | 1.74 | 1697 | 1686   | 2.00 | 11.93            | Pd     |
| GPT16RG  | 16.15                   | 1/2             | HBP         | F           | 200-220/220-230V 50/60Hz ~1 | CSR    | R        | C-V       | -                                                                               | 650  | 1515 | 2.02 | 1827 | 1814   | 2.33 | 12.16            | Pd     |
| GPY16RDa | 16.15                   | 1/2             | HBP         | F           | 115V 60Hz ~1                | CSIR   | R        | C-V       | -                                                                               | 614  | 1518 | 1.88 | 1822 | 1814   | 2.17 | 12.05            | Pd     |
| GPY16RDb | 16.15                   | 1/2             | HBP         | F           | 115V 60Hz ~1                | CSR    | R        | C-V       | -                                                                               | 614  | 1518 | 2.00 | 1822 | 1814   | 2.31 | 12.15            | Pd     |
| GPT18RG  | 18.00                   | 2/3             | HBP         | F           | 200-220/230V 50/60Hz ~1     | CSR    | R        | C-V       | -                                                                               | 693  | 1640 | 1.90 | 1979 | 1964   | 2.20 | 12.84            | Pd     |
| GX23TG   | 23.20                   | 3/4             | HMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSIR   | R        | C-V       | 429                                                                             | 792  | 2021 | 1.71 | 2433 | 2419   | 1.98 | 16.34            | Xd     |
| GS26T3   | 25.93                   | 3/4             | HMBP        | F           | 400/440V 50/60Hz ~3         | 3PHASE | P        | C-V       | 307                                                                             | 824  | 2419 | 2.07 | 2935 | 2908   | 2.40 | 22.70            | Sc     |
| GS26TG   | 25.93                   | 3/4             | HMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSIR   | R        | C-V       | 307                                                                             | 824  | 2419 | 2.06 | 2935 | 2908   | 2.40 | 22.70            | Sc     |
| GS30TG   | 29.95                   | 7/8             | HMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSR    | R        | C-V       | 370                                                                             | 920  | 2865 | 2.23 | 3527 | 3466   | 2.61 | 23.00            | Sd     |
| GS34TF   | 34.42                   | 1               | HMBP        | F           | 220-230V 60Hz ~1            | CSR    | R        | C-V       | 550                                                                             | 1247 | 3327 | 2.17 | 3990 | 3977   | 2.50 | 22.70            | Sd     |
| GS34TG   | 34.42                   | 1               | HMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSR    | R        | C-V       | 440                                                                             | 1093 | 3248 | 2.11 | 3963 | 3913   | 2.44 | 22.27            | Sd     |

This table continues in the following page

|                            | Conditions |              |         |              |
|----------------------------|------------|--------------|---------|--------------|
|                            | CECOMAF    |              | ASHRAE  |              |
|                            | LBP (A)    | HMBP/HBP (C) | LBP (B) | HMBP/HBP (D) |
| Evaporating temperature °C | -25        | 5            | -23.3   | 7.2          |
| Condensing temperature °C  | 55         | 55           | 55      | 55           |
| Liquid temperature °C      | 55         | 55           | 32      | 46           |
| Suction temperature °C     | 32         | 32           | 32      | 35           |
| Ambient temperature °C     | 32         | 32           | 32      | 35           |

Measurement conversion  
R134a  
W (A) x 1.37 = W (B)  
W (C) x 1.19 = W (D)      S compressor's range can be provided with tube or valve



# 3.

Compressors  
Catalogue

**R404A**



## R404A LBP • 50 Hz

| MODEL    | DISPLACEMENT<br><br>cm <sup>3</sup> | POWER<br><br>hp | APPLICATION | CPR COOLING | VOLTAGE<br>FREQUENCY        | MOTOR  | STARTING | EXPANSION | REFRIGERATION CAPACITY                                                          |     |      |      |      |       |        |       | WEIGHT<br><br>Kg | DESIGN |
|----------|-------------------------------------|-----------------|-------------|-------------|-----------------------------|--------|----------|-----------|---------------------------------------------------------------------------------|-----|------|------|------|-------|--------|-------|------------------|--------|
|          |                                     |                 |             |             |                             |        |          |           | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature<br>°C |     |      |      |      |       |        |       |                  |        |
|          |                                     |                 |             |             |                             |        |          |           | Cecomaf (W)                                                                     |     |      |      |      |       | Ashrae |       |                  |        |
|          |                                     |                 |             |             |                             |        |          |           | -40                                                                             | -30 | -25  |      | -10  | -23.3 |        |       |                  |        |
|          |                                     |                 |             |             |                             |        |          |           |                                                                                 |     | W    | COP  |      | W     | COP    |       |                  |        |
| ML45FB   | 4.56                                | 1/6             | LBP         | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | 52                                                                              | 100 | 133  | 0.66 | 274  | 198   | 0.94   | 8.57  | Lb               |        |
| ML45FG   | 4.56                                | 1/6             | LBP         | F           | 200-240/220-230V 50/60Hz ~1 | CSIR   | R        | C-V       | 52                                                                              | 100 | 133  | 0.68 | 274  | 198   | 0.96   | 10.87 | Lc               |        |
| MLY45LAa | 4.56                                | 1/6             | LBP         | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | 61                                                                              | 118 | 157  | 0.92 | 317  | 233   | 1.30   | 9.55  | Lc               |        |
| MLY45LAb | 4.56                                | 1/6             | LBP         | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 61                                                                              | 118 | 157  | 0.98 | 317  | 233   | 1.38   | 9.65  | Lc               |        |
| ML60FB   | 5.98                                | 1/5             | LBP         | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | 73                                                                              | 140 | 186  | 0.86 | 371  | 275   | 1.20   | 8.84  | Lb               |        |
| ML60FG   | 5.98                                | 1/5             | LBP         | F           | 200-240/220-230V 50/60Hz ~1 | CSIR   | R        | C-V       | 69                                                                              | 134 | 177  | 0.71 | 351  | 262   | 1.01   | 10.87 | Lc               |        |
| MLY60LAa | 5.98                                | 1/5             | LBP         | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | 86                                                                              | 168 | 221  | 0.90 | 428  | 326   | 1.26   | 10.02 | Lc               |        |
| MLY60LAb | 5.98                                | 1/5             | LBP         | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 86                                                                              | 168 | 221  | 0.96 | 428  | 326   | 1.36   | 10.12 | Lc               |        |
| ML80FB   | 8.10                                | 1/4             | LBP         | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | 99                                                                              | 189 | 251  | 0.77 | 505  | 371   | 1.09   | 9.47  | Lc               |        |
| ML80FG   | 8.10                                | 1/4             | LBP         | F           | 200-220/220-230V 50/60Hz ~1 | CSIR   | R        | C-V       | 99                                                                              | 190 | 252  | 0.77 | 505  | 372   | 1.08   | 12.20 | Ld               |        |
| MLY80LAa | 8.10                                | 1/4             | LBP         | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | 104                                                                             | 207 | 275  | 0.91 | 548  | 407   | 1.28   | 9.59  | Lc               |        |
| MLY80LAb | 8.10                                | 1/4             | LBP         | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 104                                                                             | 207 | 275  | 0.98 | 548  | 407   | 1.38   | 9.69  | Lc               |        |
| ML90FB   | 8.85                                | 1/3             | LBP         | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | 104                                                                             | 207 | 275  | 0.83 | 548  | 407   | 1.16   | 9.59  | Lc               |        |
| ML90FG   | 8.85                                | 1/3             | LBP         | F           | 200-220/230V 50/60Hz ~1     | CSIR   | R        | C-V       | 104                                                                             | 207 | 275  | 0.80 | 548  | 407   | 1.13   | 10.78 | Ld               |        |
| MLY90LAa | 9.09                                | 1/3             | LBP         | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | 121                                                                             | 236 | 311  | 0.91 | 612  | 460   | 1.28   | 10.35 | Ld               |        |
| MLY90LAb | 9.09                                | 1/3             | LBP         | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 121                                                                             | 236 | 311  | 0.98 | 612  | 460   | 1.38   | 10.45 | Ld               |        |
| MLY12LAa | 10.70                               | 3/8             | LBP         | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | 156                                                                             | 294 | 387  | 0.94 | 762  | 570   | 1.33   | 11.18 | Ld               |        |
| MLY12LAb | 10.70                               | 3/8             | LBP         | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 156                                                                             | 294 | 387  | 1.00 | 762  | 570   | 1.41   | 11.28 | Ld               |        |
| MLY12LGa | 10.70                               | 3/8             | LBP         | F           | 200-220/230V 50/60Hz ~1     | CSIR   | R        | C-V       | 165                                                                             | 297 | 387  | 0.83 | 756  | 570   | 1.17   | 11.06 | Ld               |        |
| MLY12LGb | 10.70                               | 3/8             | LBP         | F           | 200-220/230V 50/60Hz ~1     | CSR    | R        | C-V       | 165                                                                             | 302 | 394  | 0.90 | 768  | 581   | 1.28   | 11.16 | Ld               |        |
| MPT12LA  | 12.10                               | 3/8             | LBP         | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 194                                                                             | 347 | 451  | 1.01 | 873  | 663   | 1.42   | 12.23 | Pd               |        |
| MP14FG   | 14.17                               | 1/2             | LBP         | F           | 200-220/230V 50/60Hz ~1     | CSIR   | R        | C-V       | 121                                                                             | 303 | 420  | 0.79 | 877  | 627   | 1.12   | 12.03 | Pd               |        |
| MPT14LA  | 14.32                               | 1/2             | LBP         | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 242                                                                             | 419 | 534  | 0.99 | 984  | 780   | 1.38   | 12.25 | Pd               |        |
| MPT16LA  | 16.15                               | 1/2             | LBP         | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 245                                                                             | 462 | 605  | 1.00 | 1168 | 890   | 1.40   | 12.37 | Pd               |        |
| MPT18LA  | 18.00                               | 1/2             | LBP         | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 269                                                                             | 504 | 657  | 0.96 | 1260 | 966   | 1.35   | 12.81 | Pd               |        |
| MX21FGa  | 20.72                               | 3/4             | LBP         | F           | 200-220/220-230V 50/60Hz ~1 | CSR    | R        | C-V       | 212                                                                             | 463 | 630  | 0.96 | 1296 | 937   | 1.35   | 16.76 | Xd               |        |
| MX23FBa  | 23.20                               | 7/8             | LBP         | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 259                                                                             | 534 | 718  | 0.96 | 1455 | 1065  | 1.35   | 16.61 | Xd               |        |
| MX23FGa  | 23.20                               | 7/8             | LBP         | F           | 200-220/220-230V 50/60Hz ~1 | CSR    | R        | C-V       | 259                                                                             | 534 | 718  | 0.95 | 1455 | 1065  | 1.34   | 16.74 | Xd               |        |
| MS26F3   | 25.93                               | 3/4             | LBP         | F           | 400/440V 50/60Hz ~3         | 3PHASE | P        | C-V       | 173                                                                             | 548 | 777  | 0.95 | 1626 | 1164  | 1.35   | 20.80 | Sd               |        |
| MS26FB   | 25.93                               | 3/4             | LBP         | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 182                                                                             | 571 | 814  | 0.97 | 1737 | 1222  | 1.37   | 21.63 | Sd               |        |
| MS26FG   | 25.93                               | 3/4             | LBP         | F           | 200-220/230V 50/60Hz ~1     | CSR    | R        | C-V       | 173                                                                             | 547 | 775  | 0.95 | 1626 | 1162  | 1.35   | 22.11 | Sd               |        |
| MS30F3   | 29.95                               | 7/8             | LBP         | F           | 400/440V 50/60Hz ~3         | 3PHASE | P        | C-V       | 207                                                                             | 655 | 931  | 0.93 | 1968 | 1397  | 1.32   | 24.00 | Sd               |        |
| MS30FB   | 29.95                               | 7/8             | LBP         | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 207                                                                             | 656 | 932  | 0.95 | 1969 | 1398  | 1.35   | 22.70 | Sd               |        |
| MS34F3   | 34.42                               | 1               | LBP         | F           | 400/440V 50/60Hz ~3         | 3PHASE | P        | C-V       | 242                                                                             | 762 | 1085 | 0.99 | 2311 | 1630  | 1.40   | 22.90 | Sd               |        |
| MST34LA  | 34.42                               | 1 3/8           | LBP         | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 617                                                                             | 857 | 1143 | 0.93 | 2276 | 1690  | 1.31   | 22.90 | Sd               |        |
| MST38LA  | 38.00                               | 1 5/8           | LBP         | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 697                                                                             | 959 | 1275 | 0.88 | 2542 | 1884  | 1.40   | 22.85 | Sd               |        |

## R404A LBP • 60 Hz

| MODEL    | DISPLACEMENT<br><br>cm <sup>3</sup> | POWER<br><br>hp | APPLICATION | CPR COOLING | VOLTAGE<br>FREQUENCY        | MOTOR  | STARTING | EXPANSION | REFRIGERATION CAPACITY                                                          |     |      |      |      |        |      |       | WEIGHT<br><br>Kg | DESIGN |
|----------|-------------------------------------|-----------------|-------------|-------------|-----------------------------|--------|----------|-----------|---------------------------------------------------------------------------------|-----|------|------|------|--------|------|-------|------------------|--------|
|          |                                     |                 |             |             |                             |        |          |           | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature<br>°C |     |      |      |      |        |      |       |                  |        |
|          |                                     |                 |             |             |                             |        |          |           | Cecomaf (W)                                                                     |     |      |      |      | Ashrae |      |       |                  |        |
|          |                                     |                 |             |             |                             |        |          |           | -40                                                                             | -30 | -25  |      | -10  | -23.3  |      |       |                  |        |
|          |                                     |                 |             |             |                             |        |          |           |                                                                                 |     | W    | COP  |      | W      | COP  |       |                  |        |
| ML45FG   | 4.56                                | 1/6             | LBP         | F           | 200-240/220-230V 50/60Hz ~1 | CSIR   | R        | C-V       | 61                                                                              | 117 | 157  | 0.68 | 321  | 233    | 0.97 | 10.87 | Lc               |        |
| ML45FR   | 4.56                                | 1/6             | LBP         | F           | 115-127V 60Hz ~1            | CSIR   | R        | C-V       | 61                                                                              | 117 | 157  | 0.72 | 321  | 233    | 1.01 | 9.21  | Lc               |        |
| MLY45LRa | 4.56                                | 1/6             | LBP         | F           | 115-127V 60Hz ~1            | CSIR   | R        | C-V       | 64                                                                              | 143 | 192  | 0.87 | 379  | 284    | 1.23 | 9.20  | Lc               |        |
| MLY45LRb | 4.56                                | 1/6             | LBP         | F           | 115-127V 60Hz ~1            | CSR    | R        | C-V       | 64                                                                              | 143 | 192  | 0.90 | 379  | 284    | 1.27 | 9.30  | Lc               |        |
| ML60FG   | 5.98                                | 1/5             | LBP         | F           | 200-240/220-230V 50/60Hz ~1 | CSIR   | R        | C-V       | 81                                                                              | 157 | 207  | 0.70 | 411  | 306    | 0.99 | 10.87 | Lc               |        |
| ML60FR   | 5.98                                | 1/5             | LBP         | F           | 115-127V 60Hz ~1            | CSIR   | R        | C-V       | 81                                                                              | 157 | 207  | 0.72 | 411  | 306    | 1.01 | 9.54  | Lc               |        |
| MLY60LDa | 5.98                                | 1/5             | LBP         | F           | 115V 60Hz ~1                | CSIR   | R        | C-V       | 102                                                                             | 197 | 259  | 0.89 | 501  | 381    | 1.25 | 10.40 | Lc               |        |
| MLY60LDb | 5.98                                | 1/5             | LBP         | F           | 115V 60Hz ~1                | CSR    | R        | C-V       | 102                                                                             | 197 | 259  | 0.95 | 501  | 381    | 1.34 | 10.50 | Lc               |        |
| ML80FG   | 8.10                                | 1/4             | LBP         | F           | 200-220/220-230V 50/60Hz ~1 | CSIR   | R        | C-V       | 117                                                                             | 223 | 296  | 0.76 | 590  | 437    | 1.07 | 12.20 | Ld               |        |
| ML80FR   | 8.10                                | 1/4             | LBP         | F           | 115-127V 60Hz ~1            | CSIR   | R        | C-V       | 117                                                                             | 223 | 296  | 0.75 | 590  | 437    | 1.05 | 11.97 | Ld               |        |
| ML90FG   | 8.85                                | 1/3             | LBP         | F           | 200-220/230V 50/60Hz ~1     | CSIR   | R        | C-V       | 121                                                                             | 242 | 323  | 0.80 | 642  | 477    | 1.12 | 10.78 | Ld               |        |
| ML90FR   | 8.85                                | 1/3             | LBP         | F           | 115-127V 60Hz ~1            | CSIR   | R        | C-V       | 121                                                                             | 242 | 323  | 0.79 | 642  | 477    | 1.11 | 11.97 | Ld               |        |
| MLT90LD  | 9.09                                | 1/4             | LBP         | F           | 115V 60Hz ~1                | CSR    | R        | C-V       | 159                                                                             | 284 | 373  | 0.99 | 750  | 551    | 1.40 | 11.80 | Ld               |        |
| MLY12LFa | 10.70                               | 3/8             | LBP         | F           | 208-230V 60Hz ~1            | CSIR   | R        | C-V       | 179                                                                             | 343 | 451  | 0.92 | 882  | 665    | 1.29 | 11.06 | Ld               |        |
| MLY12LFb | 10.70                               | 3/8             | LBP         | F           | 208-230V 60Hz ~1            | CSR    | R        | C-V       | 179                                                                             | 343 | 451  | 0.94 | 882  | 665    | 1.33 | 11.16 | Ld               |        |
| MLY12LGa | 10.70                               | 3/8             | LBP         | F           | 200-220/230V 50/60Hz ~1     | CSIR   | R        | C-V       | 190                                                                             | 351 | 458  | 0.86 | 884  | 673    | 1.22 | 11.06 | Ld               |        |
| MLY12LGb | 10.70                               | 3/8             | LBP         | F           | 200-220/230V 50/60Hz ~1     | CSR    | R        | C-V       | 190                                                                             | 357 | 466  | 0.91 | 889  | 684    | 1.29 | 11.16 | Ld               |        |
| MLY12LRa | 10.70                               | 3/8             | LBP         | F           | 115-127V 60Hz ~1            | CSIR   | R        | C-V       | 199                                                                             | 373 | 478  | 0.96 | 866  | 698    | 1.34 | 11.01 | Ld               |        |
| MLY12LRb | 10.70                               | 3/8             | LBP         | F           | 115-127V 60Hz ~1            | CSR    | R        | C-V       | 200                                                                             | 369 | 476  | 1.00 | 890  | 698    | 1.41 | 11.11 | Ld               |        |
| MPT12LD  | 12.10                               | 3/8             | LBP         | F           | 115V 60Hz ~1                | CSR    | R        | C-V       | 225                                                                             | 397 | 515  | 1.01 | 993  | 756    | 1.41 | 11.50 | Pd               |        |
| MP14FG   | 14.17                               | 1/2             | LBP         | F           | 200-220/230V 50/60Hz ~1     | CSIR   | R        | C-V       | 142                                                                             | 355 | 492  | 0.82 | 1026 | 734    | 1.15 | 12.03 | Pd               |        |
| MPT14LD  | 14.32                               | 1/2             | LBP         | F           | 115V 60Hz ~1                | CSR    | R        | C-V       | 258                                                                             | 453 | 590  | 0.96 | 1156 | 868    | 1.35 | 12.20 | Pd               |        |
| MPT14LF  | 14.32                               | 1/2             | LBP         | F           | 208-230V 60Hz ~1            | CSR    | R        | C-V       | 262                                                                             | 474 | 621  | 0.96 | 1223 | 914    | 1.36 | 12.30 | Pd               |        |
| MPT16LD  | 16.10                               | 1/2             | LBP         | F           | 115V 60Hz ~1                | CSR    | R        | C-V       | 269                                                                             | 509 | 666  | 0.95 | 1285 | 979    | 1.33 | 12.65 | Pd               |        |
| MPT16LF  | 16.10                               | 1/2             | LBP         | F           | 208-230V 60Hz ~1            | CSR    | R        | C-V       | 390                                                                             | 524 | 685  | 0.97 | 1330 | 1008   | 1.36 | 12.11 | Pd               |        |
| MPT18LF  | 18.00                               | 1/2             | LBP         | F           | 208-230V 60Hz ~1            | CSR    | R        | C-V       | 417                                                                             | 560 | 733  | 0.97 | 1421 | 1078   | 1.36 | 12.97 | Pd               |        |
| MX21FGa  | 20.72                               | 3/4             | LBP         | F           | 200-220/220-230V 50/60Hz ~1 | CSR    | R        | C-V       | 247                                                                             | 540 | 735  | 0.94 | 1515 | 1093   | 1.32 | 16.76 | Xd               |        |
| MX21FR   | 20.72                               | 3/4             | LBP         | F           | 115-127V 60Hz ~1            | CSR    | R        | C-V       | 247                                                                             | 627 | 768  | 0.98 | 1001 | 1093   | 1.32 | 17.71 | Xd               |        |
| MX23FGa  | 23.20                               | 7/8             | LBP         | F           | 200-220/220-230V 50/60Hz ~1 | CSR    | R        | C-V       | 303                                                                             | 627 | 843  | 0.93 | 1711 | 1250   | 1.32 | 16.74 | Xd               |        |
| MS26F3   | 25.93                               | 3/4             | LBP         | F           | 400/440V 50/60Hz ~3         | 3PHASE | P        | C-V       | 202                                                                             | 641 | 909  | 0.92 | 1902 | 1361   | 1.31 | 20.80 | Sd               |        |
| MS26FF   | 25.93                               | 3/4             | LBP         | F           | 208-230V 60Hz ~1            | CSR    | R        | C-V       | 202                                                                             | 641 | 909  | 0.91 | 1902 | 1361   | 1.30 | 22.60 | Sd               |        |
| MS26FG   | 25.93                               | 3/4             | LBP         | F           | 200-220/230V 50/60Hz ~1     | CSR    | R        | C-V       | 202                                                                             | 640 | 907  | 0.92 | 1902 | 1358   | 1.31 | 22.11 | Sd               |        |
| MS30F3   | 29.95                               | 7/8             | LBP         | F           | 400/440V 50/60Hz ~3         | 3PHASE | P        | C-V       | 242                                                                             | 763 | 1086 | 0.94 | 2302 | 1628   | 1.32 | 24.00 | Sd               |        |
| MS30FF   | 29.95                               | 7/8             | LBP         | F           | 208-230V 60Hz ~1            | CSR    | R        | C-V       | 242                                                                             | 763 | 1086 | 0.92 | 2302 | 1628   | 1.31 | 22.70 | Sd               |        |
| MS30FG   | 29.95                               | 7/8             | LBP         | F           | 230V 60Hz ~1                | CSR    | R        | C-V       | 242                                                                             | 763 | 1086 | 0.95 | 2302 | 1628   | 1.36 | 22.70 | Sd               |        |
| MS34F3   | 34.42                               | 1               | LBP         | F           | 400/440V 50/60Hz ~3         | 3PHASE | P        | C-V       | 277                                                                             | 885 | 1263 | 0.96 | 2696 | 1896   | 1.35 | 22.90 | Sd               |        |
| MS34FF   | 34.42                               | 1               | LBP         | F           | 208V 60Hz ~1                | CSR    | R        | C-V       | 272                                                                             | 838 | 1216 | 0.91 | 2738 | 1838   | 1.30 | 22.90 | Sd               |        |

## R404A HMBP | HBP • 50 Hz

| MODEL   | DISPLACEMENT<br>cm³ | POWER<br>hp | APPLICATION | CPR COOLING | VOLTAGE<br>FREQUENCY        | MOTOR  | STARTING | EXPANSION | REFRIGERATION CAPACITY                                                          |      |      |      |      |      |        |       | WEIGHT<br>Kg | DESIGN |
|---------|---------------------|-------------|-------------|-------------|-----------------------------|--------|----------|-----------|---------------------------------------------------------------------------------|------|------|------|------|------|--------|-------|--------------|--------|
|         |                     |             |             |             |                             |        |          |           | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature<br>°C |      |      |      |      |      |        |       |              |        |
|         |                     |             |             |             |                             |        |          |           | Cecomaf (W)                                                                     |      |      |      |      |      | Ashrae |       |              |        |
|         |                     |             |             |             |                             |        |          |           | -25                                                                             | -15  | 5    |      | 10   | 7.2  |        |       |              |        |
|         |                     |             |             |             |                             |        |          |           |                                                                                 |      | W    | COP  |      | W    | COP    |       |              |        |
| ML40TB  | 4.05                | 1/6         | HMBP        | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | 132                                                                             | 212  | 470  | 1.41 | 555  | 593  | 1.74   | 9.47  | Lc           |        |
| ML40TG  | 4.05                | 1/6         | HMBP        | F           | 200-240/220-230V 50/60Hz ~1 | CSIR   | R        | C-V       | 132                                                                             | 212  | 470  | 1.41 | 555  | 593  | 1.74   | 9.12  | Lc           |        |
| ML45TB  | 4.56                | 1/5         | HMBP        | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | 150                                                                             | 237  | 525  | 1.47 | 621  | 663  | 1.82   | 9.10  | Lc           |        |
| ML45TG  | 4.50                | 1/6         | HMBP        | F           | 200-240/220-230V 50/60Hz ~1 | CSIR   | R        | C-V       | 160                                                                             | 261  | 572  | 1.59 | 673  | 721  | 1.95   | 9.14  | Lc           |        |
| ML60TB  | 5.68                | 1/4         | HMBP        | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | 165                                                                             | 276  | 643  | 1.50 | 765  | 814  | 1.85   | 9.29  | Lc           |        |
| ML60TG  | 5.68                | 1/4         | HMBP        | F           | 200-220/230V 50/60Hz ~1     | CSIR   | R        | C-V       | 165                                                                             | 276  | 643  | 1.50 | 765  | 814  | 1.85   | 10.57 | Lc           |        |
| ML80TB  | 7.57                | 3/8         | HMBP        | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | 225                                                                             | 383  | 875  | 1.61 | 1034 | 1105 | 1.99   | 9.68  | Ld           |        |
| ML80TG  | 7.57                | 3/8         | HMBP        | F           | 200-240/220-230V 50/60Hz ~1 | CSIR   | R        | C-V       | 225                                                                             | 383  | 875  | 1.61 | 1034 | 1105 | 1.99   | 11.81 | Ld           |        |
| ML90TB  | 8.85                | 3/8         | HMBP        | F           | 220-240V 50Hz ~1            | CSIR   | R        | C-V       | 280                                                                             | 461  | 1049 | 1.61 | 1243 | 1326 | 1.98   | 12.31 | Ld           |        |
| ML90TG  | 8.85                | 3/8         | HMBP        | F           | 200-220/230V 50/60Hz ~1     | CSIR   | R        | C-V       | 280                                                                             | 461  | 1049 | 1.61 | 1243 | 1326 | 1.98   | 11.29 | Ld           |        |
| MLT12RA | 10.70               | 3/8         | HMBP        | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 396                                                                             | 632  | 1379 | 1.88 | 1622 | 1738 | 2.31   | 11.59 | Ld           |        |
| MLT12RG | 10.70               | 3/8         | HMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSR    | R        | C-V       | 365                                                                             | 601  | 1337 | 1.83 | 1576 | 1686 | 2.26   | 12.24 | Ld           |        |
| MPT12RG | 12.10               | 3/8         | HBP         | F           | 200-220/220-230V 50/60Hz ~1 | CSR    | R        | C-V       | 482                                                                             | 689  | 1489 | 1.87 | 1769 | 1884 | 2.33   | 12.89 | Pd           |        |
| MPT12RA | 12.10               | 3/8         | HMBP        | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 437                                                                             | 723  | 1559 | 1.91 | 1823 | 1960 | 2.35   | 12.20 | Pd           |        |
| MPT14RA | 14.32               | 1/2         | HBP         | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | -                                                                               | 789  | 1750 | 1.78 | 2068 | 2210 | 2.20   | 12.25 | Pd           |        |
| MPT16RA | 16.10               | 2/3         | HBP         | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | -                                                                               | 878  | 1904 | 1.66 | 2248 | 2403 | 2.05   | 13.60 | Pe           |        |
| MX18TBa | 18.40               | 7/8         | HMBP        | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 551                                                                             | 932  | 2143 | 1.76 | 2540 | 2710 | 2.18   | 16.33 | Xd           |        |
| MX18TGa | 18.40               | 7/8         | HMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSR    | R        | C-V       | 551                                                                             | 932  | 2143 | 1.76 | 2540 | 2710 | 2.18   | 16.24 | Xd           |        |
| MX21TBa | 20.72               | 1           | HMBP        | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 621                                                                             | 1047 | 2409 | 1.74 | 2857 | 3047 | 2.15   | 16.52 | Xd           |        |
| MX21TGa | 20.72               | 1           | HMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSR    | R        | C-V       | 621                                                                             | 1047 | 2409 | 1.74 | 2857 | 3047 | 2.15   | 16.74 | Xd           |        |
| MS22TB  | 21.75               | 1           | HMBP        | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 451                                                                             | 967  | 2550 | 2.02 | 3060 | 3244 | 2.50   | 20.51 | Sc           |        |
| MS26T3  | 25.93               | 1 3/8       | HMBP        | F           | 400/440V 50/60Hz ~3         | 3PHASE | P        | C-V       | 671                                                                             | 1289 | 3166 | 1.98 | 3769 | 4012 | 2.45   | 18.60 | Sd           |        |
| MS26TB  | 25.93               | 1 3/8       | HMBP        | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | 671                                                                             | 1288 | 3164 | 2.00 | 3767 | 4010 | 2.46   | 22.12 | Sd           |        |
| MS26TG  | 25.93               | 1 3/8       | HMBP        | F           | 200-220/230V 50/60Hz ~1     | CSR    | R        | C-V       | 671                                                                             | 1289 | 3166 | 2.00 | 3769 | 4012 | 2.46   | 23.00 | Sd           |        |
| MS34TB  | 34.42               | 1 5/8       | HBP         | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | -                                                                               | 1850 | 4205 | 1.89 | 4930 | 5292 | 2.30   | 22.21 | Sd           |        |
| MS34TG  | 34.42               | 1 5/8       | HBP         | F           | 200-220/230V 50/60Hz ~1     | CSR    | R        | C-V       | -                                                                               | 1850 | 4205 | 1.89 | 4930 | 5292 | 2.30   | 22.78 | Sd           |        |
| MS34T3  | 34.42               | 1 5/8       | HMBP        | F           | 400/440V 50/60Hz ~3         | 3PHASE | P        | C-V       | 1002                                                                            | 1850 | 4205 | 1.79 | 4930 | 5292 | 2.20   | 22.80 | Sd           |        |
| MST38RA | 38.00               | 2           | HBP         | F           | 220-240V 50Hz ~1            | CSR    | R        | C-V       | -                                                                               | 2035 | 4625 | 1.89 | 5423 | 5821 | 2.30   | 22.65 | Sd           |        |

## R404A HMBP | HBP • 60 Hz

| MODEL    | DISPLACEMENT<br><br>cm <sup>3</sup> | POWER<br><br>hp | APPLICATION | CPR COOLING | VOLTAGE<br>FREQUENCY        | MOTOR  | STARTING | EXPANSION | REFRIGERATION CAPACITY                                                          |      |      |      |      |      |        |       | WEIGHT<br><br>Kg | DESIGN |
|----------|-------------------------------------|-----------------|-------------|-------------|-----------------------------|--------|----------|-----------|---------------------------------------------------------------------------------|------|------|------|------|------|--------|-------|------------------|--------|
|          |                                     |                 |             |             |                             |        |          |           | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature<br>°C |      |      |      |      |      |        |       |                  |        |
|          |                                     |                 |             |             |                             |        |          |           | Cecomaf (W)                                                                     |      |      |      |      |      | Ashrae |       |                  |        |
|          |                                     |                 |             |             |                             |        |          |           | -25                                                                             | -15  | 5    |      | 10   | 7.2  |        |       |                  |        |
|          |                                     |                 |             |             |                             |        |          |           |                                                                                 |      | W    | COP  |      | W    | COP    |       |                  |        |
| ML40TG   | 4.05                                | 1/6             | HMBP        | F           | 200-240/220-230V 50/60Hz ~1 | CSIR   | R        | C-V       | 155                                                                             | 248  | 553  | 1.39 | 653  | 698  | 1.70   | 9.12  | Lc               |        |
| ML45TG   | 4.56                                | 1/6             | HMBP        | F           | 200-240/220-230V 50/60Hz ~1 | CSIR   | R        | C-V       | 190                                                                             | 310  | 672  | 1.55 | 788  | 846  | 1.89   | 9.14  | Lc               |        |
| ML60TG   | 5.68                                | 1/4             | HMBP        | F           | 200-220/230V 50/60Hz ~1     | CSIR   | R        | C-V       | 193                                                                             | 323  | 753  | 1.49 | 896  | 954  | 1.83   | 10.57 | Lc               |        |
| MLY60RDa | 5.98                                | 1/4             | HMBP        | F           | 115V 60Hz ~1                | CSIR   | R        | C-V       | 250                                                                             | 408  | 900  | 1.70 | 1059 | 1134 | 2.10   | 10.55 | Lc               |        |
| MLY60RDb | 5.98                                | 1/4             | HMBP        | F           | 115V 60Hz ~1                | CSR    | R        | C-V       | 250                                                                             | 408  | 900  | 1.83 | 1059 | 1134 | 2.27   | 10.65 | Lc               |        |
| ML80TG   | 7.57                                | 3/8             | HMBP        | F           | 200-240/220-230V 50/60Hz ~1 | CSIR   | R        | C-V       | 263                                                                             | 448  | 1022 | 1.59 | 1208 | 1291 | 1.96   | 11.81 | Ld               |        |
| MLY80RDa | 8.10                                | 3/8             | HMBP        | F           | 115V 60Hz ~1                | CSIR   | R        | C-V       | 329                                                                             | 541  | 1224 | 1.75 | 1449 | 1547 | 2.15   | 11.21 | Ld               |        |
| MLY80RDb | 8.10                                | 3/8             | HMBP        | F           | 115V 60Hz ~1                | CSR    | R        | C-V       | 329                                                                             | 541  | 1224 | 1.81 | 1449 | 1547 | 2.22   | 11.31 | Ld               |        |
| ML90TG   | 8.85                                | 3/8             | HMBP        | F           | 200-220/230V 50/60Hz ~1     | CSIR   | R        | C-V       | 329                                                                             | 539  | 1227 | 1.54 | 1454 | 1551 | 1.89   | 11.29 | Ld               |        |
| MLT12RG  | 10.70                               | 3/8             | HMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSR    | R        | C-V       | 441                                                                             | 702  | 1553 | 1.75 | 1833 | 1960 | 2.16   | 12.24 | Ld               |        |
| MLT12RR  | 10.70                               | 1/2             | HMBP        | F           | 115-127V 60Hz ~1            | CSR    | R        | C-V       | 463                                                                             | 736  | 1560 | 1.75 | 1825 | 1961 | 2.15   | 11.96 | Ld               |        |
| MPT12RG  | 12.10                               | 3/8             | HBP         | F           | 200-220/220-230V 50/60Hz ~1 | CSR    | R        | C-V       | -                                                                               | 795  | 1725 | 1.79 | 2043 | 2179 | 2.22   | 12.89 | Pd               |        |
| MPT14RF  | 14.32                               | 1/2             | HBP         | F           | 208-230V 60Hz ~1            | CSR    | R        | C-V       | -                                                                               | 929  | 1990 | 1.56 | 2351 | 2512 | 1.91   | 12.67 | Pd               |        |
| MPT14RD  | 14.32                               | 1/2             | HBP         | F           | 115V 60Hz ~1                | CSR    | R        | C-V       | -                                                                               | 929  | 1990 | 1.56 | 2351 | 2512 | 1.91   | 12.67 | Pd               |        |
| MX16TE   | 16.03                               | 7/8             | HMBP        | F           | 115V 60Hz ~1                | CSR    | R        | C-V       | 561                                                                             | 949  | 2185 | 1.62 | 2589 | 2762 | 2.00   | 17.20 | Xd               |        |
| MX18TE   | 18.40                               | 7/8             | HMBP        | F           | 115V 60Hz ~1                | CSR    | R        | C-V       | 644                                                                             | 1090 | 2507 | 1.62 | 2972 | 3170 | 2.00   | 17.20 | Xd               |        |
| MX18TGa  | 18.40                               | 7/8             | HMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSR    | R        | C-V       | 644                                                                             | 1090 | 2507 | 1.74 | 2972 | 3170 | 2.15   | 16.24 | Xd               |        |
| MX21TGa  | 20.72                               | 1               | HMBP        | F           | 200-220/220-230V 50/60Hz ~1 | CSR    | R        | C-V       | 726                                                                             | 1211 | 2781 | 1.72 | 3299 | 3518 | 2.12   | 16.74 | Xd               |        |
| MS26T3   | 25.93                               | 1.375           | HMBP        | F           | 400/440V 50/60Hz ~3         | 3PHASE | P        | C-V       | 785                                                                             | 1508 | 3705 | 1.84 | 4411 | 4695 | 2.25   | 18.60 | Sd               |        |
| MS26TG   | 25.93                               | 1.375           | HMBP        | F           | 200-220/230V 50/60Hz ~1     | CSR    | R        | C-V       | 785                                                                             | 1508 | 3705 | 1.93 | 4411 | 4695 | 2.37   | 23.00 | Sd               |        |
| MS34TG   | 34.42                               | 1.625           | HBP         | F           | 200-220/230V 50/60Hz ~1     | CSR    | R        | C-V       | -                                                                               | 2163 | 4917 | 1.71 | 5762 | 6187 | 2.10   | 22.78 | Sd               |        |
| MS34T3   | 34.42                               | 1.625           | HMBP        | F           | 400/440V 50/60Hz ~3         | 3PHASE | P        | C-V       | 1172                                                                            | 2164 | 4916 | 1.71 | 5764 | 6187 | 2.10   | 22.80 | Sd               |        |

|                            | Conditions |              |         |              |
|----------------------------|------------|--------------|---------|--------------|
|                            | CECOMAF    |              | ASHRAE  |              |
|                            | LBP (A)    | HMBP/HBP (C) | LBP (B) | HMBP/HBP (D) |
| Evaporating temperature °C | -25        | 5            | -23.3   | 7.2          |
| Condensing temperature °C  | 55         | 55           | 55      | 55           |
| Liquid temperature °C      | 55         | 55           | 32      | 46           |
| Suction temperature °C     | 32         | 32           | 32      | 35           |
| Ambient temperature °C     | 32         | 32           | 32      | 35           |

### Measurement conversion

R404A

W (A) x 1.29 = kcal/h (B)

W (C) x 1.08 = kcal/h (D)

S compressor's range can be provided with tube or valve



# 3.

## Compressors Catalogue

### **DC/VSC**



|                                                                                     | MODEL     | DISPLACEMENT<br>cm <sup>3</sup> | APPLICATION | COOLING | VOLTAGE<br>FREQUENCY     | MOTOR | EXPANSION | SPEED<br>rpm | REFRIGERATION CAPACITY                                                          |     |            |             |        |             | WEIGHT<br>Kg | DESIGN |     |
|-------------------------------------------------------------------------------------|-----------|---------------------------------|-------------|---------|--------------------------|-------|-----------|--------------|---------------------------------------------------------------------------------|-----|------------|-------------|--------|-------------|--------------|--------|-----|
|                                                                                     |           |                                 |             |         |                          |       |           |              | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature<br>°C |     |            |             |        |             |              |        |     |
|                                                                                     |           |                                 |             |         |                          |       |           |              | Cecomaf (W)                                                                     |     |            |             | Ashrae |             |              |        |     |
|                                                                                     |           |                                 |             |         |                          |       |           |              | -40                                                                             | -30 | -25        |             | -10    | -23.3       |              |        |     |
|                                                                                     |           |                                 |             |         |                          |       |           |              |                                                                                 |     | W          | COP         |        | W           |              |        | COP |
|    | NVK35FSC  | 3.50                            | LMBP        | F       | 220-240V or,<br>115-127V | PMSM  | C-V       | 1600         | 26                                                                              | 47  | <b>60</b>  | <b>1.16</b> | 111    | <b>80</b>   | <b>1.50</b>  | 6.40   | Vb  |
|                                                                                     |           |                                 |             |         |                          |       |           | 2400         | 38                                                                              | 69  | <b>88</b>  | <b>1.29</b> | 163    | <b>118</b>  | <b>1.67</b>  |        |     |
|                                                                                     |           |                                 |             |         |                          |       |           | 3000         | 50                                                                              | 90  | <b>116</b> | <b>1.28</b> | 214    | <b>155</b>  | <b>1.65</b>  |        |     |
|                                                                                     |           |                                 |             |         |                          |       |           | 4500         | 75                                                                              | 134 | <b>172</b> | <b>1.16</b> | 318    | <b>230</b>  | <b>1.50</b>  |        |     |
|    | NVS50FSC  | 5.00                            | LMBP        | F       | 220-240V or,<br>115-127V | PMSM  | C-V       | 1600         | 39                                                                              | 70  | <b>90</b>  | <b>1.35</b> | 166    | <b>120</b>  | <b>1.75</b>  | 6.40   | Vb  |
|                                                                                     |           |                                 |             |         |                          |       |           | 2400         | 62                                                                              | 111 | <b>142</b> | <b>1.43</b> | 263    | <b>190</b>  | <b>1.85</b>  |        |     |
|                                                                                     |           |                                 |             |         |                          |       |           | 3000         | 81                                                                              | 144 | <b>185</b> | <b>1.37</b> | 343    | <b>248</b>  | <b>1.80</b>  |        |     |
|                                                                                     |           |                                 |             |         |                          |       |           | 4500         | 119                                                                             | 212 | <b>272</b> | <b>1.24</b> | 504    | <b>365</b>  | <b>1.65</b>  |        |     |
|    | NMD50FSC  | 5.00                            | LMBP        | F       | 220-240V or,<br>115-127V | PMSM  | C-V       | 1600         | 42                                                                              | 76  | <b>97</b>  | <b>1.43</b> | 180    | <b>130</b>  | <b>1.86</b>  | 5.20   | Mb  |
|                                                                                     |           |                                 |             |         |                          |       |           | 2400         | 67                                                                              | 119 | <b>153</b> | <b>1.50</b> | 283    | <b>205</b>  | <b>1.95</b>  |        |     |
|                                                                                     |           |                                 |             |         |                          |       |           | 3000         | 85                                                                              | 151 | <b>194</b> | <b>1.44</b> | 359    | <b>260</b>  | <b>1.89</b>  |        |     |
|                                                                                     |           |                                 |             |         |                          |       |           | 4500         | 120                                                                             | 215 | <b>276</b> | <b>1.30</b> | 511    | <b>370</b>  | <b>1.73</b>  |        |     |
|    | NVS70FSC  | 7.00                            | LMBP        | F       | 220-240V or,<br>115-127V | PMSM  | C-V       | 1600         | 57                                                                              | 102 | <b>131</b> | <b>1.31</b> | 243    | <b>176</b>  | <b>1.70</b>  | 6.20   | Vb  |
|                                                                                     |           |                                 |             |         |                          |       |           | 2400         | 89                                                                              | 160 | <b>205</b> | <b>1.39</b> | 380    | <b>275</b>  | <b>1.80</b>  |        |     |
|                                                                                     |           |                                 |             |         |                          |       |           | 3000         | 114                                                                             | 204 | <b>261</b> | <b>1.36</b> | 484    | <b>350</b>  | <b>1.79</b>  |        |     |
|                                                                                     |           |                                 |             |         |                          |       |           | 4500         | 168                                                                             | 300 | <b>384</b> | <b>1.24</b> | 712    | <b>515</b>  | <b>1.65</b>  |        |     |
|   | NMD70FSC  | 7.00                            | LMBP        | F       | 220-240V or,<br>115-127V | PMSM  | C-V       | 1600         | 62                                                                              | 111 | <b>142</b> | <b>1.43</b> | 263    | <b>190</b>  | <b>1.86</b>  | 5.20   | Mb  |
|                                                                                     |           |                                 |             |         |                          |       |           | 2400         | 94                                                                              | 169 | <b>216</b> | <b>1.50</b> | 401    | <b>290</b>  | <b>1.95</b>  |        |     |
|                                                                                     |           |                                 |             |         |                          |       |           | 3000         | 117                                                                             | 210 | <b>269</b> | <b>1.44</b> | 498    | <b>360</b>  | <b>1.89</b>  |        |     |
|                                                                                     |           |                                 |             |         |                          |       |           | 4500         | 169                                                                             | 303 | <b>388</b> | <b>1.30</b> | 719    | <b>520</b>  | <b>1.73</b>  |        |     |
|  | NVT90FSC  | 9.00                            | LMBP        | F       | 220-240V or,<br>115-127V | PMSM  | C-V       | 1600         | 89                                                                              | 160 | <b>205</b> | <b>1.27</b> | 380    | <b>275</b>  | <b>1.65</b>  | 6.20   | Vb  |
|                                                                                     |           |                                 |             |         |                          |       |           | 2400         | 120                                                                             | 215 | <b>276</b> | <b>1.31</b> | 511    | <b>370</b>  | <b>1.70</b>  |        |     |
|                                                                                     |           |                                 |             |         |                          |       |           | 3000         | 150                                                                             | 268 | <b>343</b> | <b>1.28</b> | 636    | <b>460</b>  | <b>1.68</b>  |        |     |
|                                                                                     |           |                                 |             |         |                          |       |           | 4500         | 208                                                                             | 373 | <b>478</b> | <b>1.17</b> | 885    | <b>640</b>  | <b>1.55</b>  |        |     |
|  | NUD100FSC | 10.50                           | LMBP        | F       | 220-240V or,<br>115-127V | PMSM  | C-V       | 1800         | 104                                                                             | 186 | <b>239</b> | <b>1.40</b> | 442    | <b>320</b>  | <b>1.82</b>  | 8.95   | Uv  |
|                                                                                     |           |                                 |             |         |                          |       |           | 2400         | 140                                                                             | 250 | <b>321</b> | <b>1.47</b> | 594    | <b>430</b>  | <b>1.90</b>  |        |     |
|                                                                                     |           |                                 |             |         |                          |       |           | 3000         | 179                                                                             | 320 | <b>410</b> | <b>1.40</b> | 760    | <b>550</b>  | <b>1.85</b>  |        |     |
|                                                                                     |           |                                 |             |         |                          |       |           | 4500         | 275                                                                             | 492 | <b>631</b> | <b>1.24</b> | 1168   | <b>845</b>  | <b>1.65</b>  |        |     |
|  | NUD125FSC | 12.50                           | LMBP        | F       | 220-240V or,<br>115-127V | PMSM  | C-V       | 1800         | 127                                                                             | 227 | <b>291</b> | <b>1.40</b> | 539    | <b>390</b>  | <b>1.82</b>  | 8.95   | Uv  |
|                                                                                     |           |                                 |             |         |                          |       |           | 2400         | 174                                                                             | 311 | <b>399</b> | <b>1.47</b> | 739    | <b>535</b>  | <b>1.90</b>  |        |     |
|                                                                                     |           |                                 |             |         |                          |       |           | 3000         | 207                                                                             | 370 | <b>474</b> | <b>1.40</b> | 878    | <b>635</b>  | <b>1.85</b>  |        |     |
|                                                                                     |           |                                 |             |         |                          |       |           | 4500         | 309                                                                             | 553 | <b>709</b> | <b>1.24</b> | 1313   | <b>950</b>  | <b>1.65</b>  |        |     |
|  | NUS160FSC | 14.80                           | LBP         | F       | 220-240V or,<br>115-127V | PMSM  | C-V       | 2000         | 171                                                                             | 302 | <b>390</b> | <b>1.39</b> | 751    | <b>525</b>  | <b>1.80</b>  | 8.95   | Uv  |
|                                                                                     |           |                                 |             |         |                          |       |           | 2400         | 218                                                                             | 384 | <b>497</b> | <b>1.43</b> | 956    | <b>668</b>  | <b>1.86</b>  |        |     |
|                                                                                     |           |                                 |             |         |                          |       |           | 3000         | 264                                                                             | 465 | <b>602</b> | <b>1.41</b> | 1159   | <b>810</b>  | <b>1.84</b>  |        |     |
|                                                                                     |           |                                 |             |         |                          |       |           | 5000         | 408                                                                             | 719 | <b>930</b> | <b>1.29</b> | 1790   | <b>1251</b> | <b>1.68</b>  |        |     |

 Green Cooling Models

 New Models

## R600a LBP • 50 | 60 Hz

## Variable Speed Compressors

|                                                                                    | MODEL    | DISPLACEMENT<br><br>cm³ | APPLICATION | COOLING | VOLTAGE<br>FREQUENCY | MOTOR | EXPANSION | SPEED<br><br>rpm | REFRIGERATION CAPACITY                                                          |     |            |             |     |            |             | WEIGHT<br><br>Kg | DESIGN |
|------------------------------------------------------------------------------------|----------|-------------------------|-------------|---------|----------------------|-------|-----------|------------------|---------------------------------------------------------------------------------|-----|------------|-------------|-----|------------|-------------|------------------|--------|
|                                                                                    |          |                         |             |         |                      |       |           |                  | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature<br>°C |     |            |             |     |            |             |                  |        |
|                                                                                    |          |                         |             |         |                      |       |           |                  | Cecomaf (W)                                                                     |     |            |             |     | Ashrae     |             |                  |        |
|                                                                                    |          |                         |             |         |                      |       |           |                  | -40                                                                             | -30 | -25        |             | -10 | -23.3      |             |                  |        |
|                                                                                    |          |                         |             |         |                      |       |           |                  |                                                                                 |     | W          | COP         |     | W          | COP         |                  |        |
|   | HVM70MD  | 7.00                    | LBP         | S       | 220-240V 50/60Hz ~1  | PMSM  | C         | 1200             | 21                                                                              | 28  | <b>37</b>  | <b>1.37</b> | 77  | <b>45</b>  | <b>1.80</b> | 6.10             | HVMd   |
|                                                                                    |          |                         |             |         |                      |       |           | 1800             | 33                                                                              | 45  | <b>59</b>  | <b>1.48</b> | 124 | <b>72</b>  | <b>1.95</b> |                  |        |
|                                                                                    |          |                         |             |         |                      |       |           | 3000             | 55                                                                              | 75  | <b>98</b>  | <b>1.42</b> | 207 | <b>129</b> | <b>1.87</b> |                  |        |
|                                                                                    |          |                         |             |         |                      |       |           | 4500             | 81                                                                              | 109 | <b>142</b> | <b>1.14</b> | 301 | <b>170</b> | <b>1.50</b> |                  |        |
|   | HVM70MF  | 7.00                    | LBP         | S       | 220-240V 50/60Hz ~1  | PMSM  | C         | 1200             | 22                                                                              | 30  | <b>39</b>  | <b>1.45</b> | 83  | <b>48</b>  | <b>1.90</b> | 6.10             | HVMd   |
|                                                                                    |          |                         |             |         |                      |       |           | 1800             | 37                                                                              | 50  | <b>65</b>  | <b>1.56</b> | 138 | <b>80</b>  | <b>2.05</b> |                  |        |
|                                                                                    |          |                         |             |         |                      |       |           | 3000             | 56                                                                              | 75  | <b>98</b>  | <b>1.25</b> | 208 | <b>130</b> | <b>1.65</b> |                  |        |
|                                                                                    |          |                         |             |         |                      |       |           | 4500             | 86                                                                              | 115 | <b>151</b> | <b>1.14</b> | 319 | <b>180</b> | <b>1.50</b> |                  |        |
|   | HVM90MD  | 9.00                    | LBP         | S       | 220-240V 50/60Hz ~1  | PMSM  | C         | 1200             | 30                                                                              | 40  | <b>52</b>  | <b>1.37</b> | 110 | <b>64</b>  | <b>1.80</b> | 6.10             | HVMd   |
|                                                                                    |          |                         |             |         |                      |       |           | 1800             | 45                                                                              | 61  | <b>80</b>  | <b>1.48</b> | 169 | <b>98</b>  | <b>1.95</b> |                  |        |
|                                                                                    |          |                         |             |         |                      |       |           | 3000             | 72                                                                              | 97  | <b>127</b> | <b>1.43</b> | 269 | <b>160</b> | <b>1.88</b> |                  |        |
|                                                                                    |          |                         |             |         |                      |       |           | 4500             | 104                                                                             | 140 | <b>183</b> | <b>1.14</b> | 387 | <b>225</b> | <b>1.50</b> |                  |        |
|   | HVM90MF  | 9.00                    | LBP         | S       | 220-240V 50/60Hz ~1  | PMSM  | C         | 1200             | 30                                                                              | 40  | <b>53</b>  | <b>1.45</b> | 112 | <b>65</b>  | <b>1.90</b> | 6.10             | HVMd   |
|                                                                                    |          |                         |             |         |                      |       |           | 1800             | 45                                                                              | 61  | <b>80</b>  | <b>1.56</b> | 169 | <b>98</b>  | <b>2.05</b> |                  |        |
|                                                                                    |          |                         |             |         |                      |       |           | 3000             | 72                                                                              | 97  | <b>127</b> | <b>1.48</b> | 269 | <b>160</b> | <b>1.95</b> |                  |        |
|                                                                                    |          |                         |             |         |                      |       |           | 4500             | 104                                                                             | 140 | <b>183</b> | <b>1.14</b> | 387 | <b>225</b> | <b>1.50</b> |                  |        |
|  | HVM110MS | 10.00                   | LBP         | S       | 220-240V 50/60Hz ~1  | PMSM  | C         | 1200             | 36                                                                              | 48  | <b>63</b>  | <b>1.29</b> | 134 | <b>78</b>  | <b>1.70</b> | 6.10             | HVMc   |
|                                                                                    |          |                         |             |         |                      |       |           | 1800             | 55                                                                              | 73  | <b>96</b>  | <b>1.41</b> | 203 | <b>118</b> | <b>1.85</b> |                  |        |
|                                                                                    |          |                         |             |         |                      |       |           | 3000             | 89                                                                              | 119 | <b>156</b> | <b>1.33</b> | 331 | <b>192</b> | <b>1.75</b> |                  |        |
|                                                                                    |          |                         |             |         |                      |       |           | 4500             | 125                                                                             | 168 | <b>219</b> | <b>1.25</b> | 465 | <b>270</b> | <b>1.64</b> |                  |        |

 Green Cooling Models

 New Models

## R600a LBP | MBP | HBP • 12 Hz

## DC Compressors

|                                                                                     | MODEL  | DISPLACEMENT<br>cm³ | APPLICATION | COOLING | VOLTAGE<br>FREQUENCY     | MOTOR | EXPANSION | SPEED<br>rpm | REFRIGERATION CAPACITY                                                          |           |                         |                            |            |                          |                            | WEIGHT<br>Kg | DESIGN |
|-------------------------------------------------------------------------------------|--------|---------------------|-------------|---------|--------------------------|-------|-----------|--------------|---------------------------------------------------------------------------------|-----------|-------------------------|----------------------------|------------|--------------------------|----------------------------|--------------|--------|
|                                                                                     |        |                     |             |         |                          |       |           |              | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature<br>°C |           |                         |                            |            |                          |                            |              |        |
|                                                                                     |        |                     |             |         |                          |       |           |              | Cecomaf (W)                                                                     |           |                         |                            |            | Ashrae                   |                            |              |        |
|                                                                                     |        |                     |             |         |                          |       |           |              | -35                                                                             | -30       | -25                     |                            | -10        | -23.3                    |                            |              |        |
|                                                                                     |        |                     |             |         |                          |       |           |              |                                                                                 |           | W                       | COP                        |            | W                        | COP                        |              |        |
|    | DM19C  | 1.90                | LBP         | S       | 12-24V DC                | BLDC  | C         | 2500<br>4000 | 6<br>12                                                                         | 10<br>18  | <b>16</b><br><b>25</b>  | <b>0.95</b><br><b>0.93</b> | 40<br>62   | <b>22</b><br><b>35</b>   | <b>1.25</b><br><b>1.25</b> | 2.60         | DMb    |
|    | DM22C  | 2.20                | LBP         | S       | 12-24V DC                | BLDC  | C         | 2500<br>4000 | 7<br>14                                                                         | 12<br>20  | <b>18</b><br><b>29</b>  | <b>0.95</b><br><b>0.93</b> | 45<br>71   | <b>25</b><br><b>40</b>   | <b>1.25</b><br><b>1.25</b> | 2.60         | DMb    |
|    | DM35C  | 3.50                | LBP         | S       | 12-24V DC                | BLDC  | C         | 1200<br>1800 | 22<br>37                                                                        | 30<br>50  | <b>39</b><br><b>65</b>  | <b>1.45</b><br><b>1.56</b> | 83<br>138  | <b>48</b><br><b>80</b>   | <b>1.90</b><br><b>2.05</b> | 2.60         | DMb    |
|    | DL30C  | 3.00                | LBP         | S       | 12-24V DC                | BLDC  | C         | 3000<br>4500 | 56<br>86                                                                        | 75<br>115 | <b>98</b><br><b>151</b> | <b>1.25</b><br><b>1.14</b> | 208<br>319 | <b>130</b><br><b>180</b> | <b>1.65</b><br><b>1.50</b> | 4.20         | DLb    |
|    | DL35C  | 3.50                | LBP         | S       | 12-24V DC                | BLDC  | C         | 2000<br>3500 | 11<br>24                                                                        | 18<br>35  | <b>28</b><br><b>51</b>  | <b>0.99</b><br><b>1.01</b> | 71<br>123  | <b>39</b><br><b>70</b>   | <b>1.30</b><br><b>1.35</b> | 4.20         | DLb    |
|    | DK52C  | 5.20                | LBP         | S       | 12-24V DC                | BLDC  | C         | 2000<br>3500 | 17<br>35                                                                        | 28<br>50  | <b>43</b><br><b>73</b>  | <b>0.99</b><br><b>1.01</b> | 109<br>176 | <b>60</b><br><b>100</b>  | <b>1.30</b><br><b>1.35</b> | 4.00         | DKb    |
|    | DK70C  | 7.00                | LBP         | S       | 12-24V DC                | BLDC  | C         | 2000<br>3500 | 23<br>47                                                                        | 38<br>68  | <b>57</b><br><b>98</b>  | <b>1.06</b><br><b>1.08</b> | 145<br>237 | <b>80</b><br><b>135</b>  | <b>1.40</b><br><b>1.45</b> | 4.00         | DKb    |
|    | DK90C  | 9.00                | LBP         | S       | 12-24V DC                | BLDC  | C         | 2000<br>3500 | 29<br>61                                                                        | 47<br>88  | <b>71</b><br><b>127</b> | <b>1.06</b><br><b>1.08</b> | 182<br>308 | <b>100</b><br><b>175</b> | <b>1.40</b><br><b>1.45</b> | 4.00         | DKb    |
|    | VDL30C | 3.00                | LBP         | S       | 12-24V DC<br>100-240V AC | BLDC  | C         | 2000<br>3500 | 9<br>19                                                                         | 15<br>28  | <b>23</b><br><b>40</b>  | <b>0.91</b><br><b>0.93</b> | 58<br>97   | <b>32</b><br><b>55</b>   | <b>1.20</b><br><b>1.25</b> | 4.40         | VDLb   |
|   | VDL35C | 3.50                | LBP         | S       | 12-24V DC<br>100-240V AC | BLDC  | C         | 2000<br>3500 | 11<br>24                                                                        | 18<br>35  | <b>28</b><br><b>51</b>  | <b>0.99</b><br><b>1.01</b> | 71<br>123  | <b>39</b><br><b>70</b>   | <b>1.30</b><br><b>1.35</b> | 4.40         | VDLb   |
|  | VDK52C | 5.20                | LBP         | S       | 12-24V DC<br>100-240V AC | BLDC  | C         | 2000<br>3500 | 17<br>35                                                                        | 28<br>50  | <b>43</b><br><b>73</b>  | <b>0.99</b><br><b>1.01</b> | 109<br>176 | <b>60</b><br><b>100</b>  | <b>1.30</b><br><b>1.35</b> | 4.00         | DKb    |

## R290a LBP | MBP | HBP • 12V

## DC Compressors

|                                                                                    | MODEL | DISPLACEMENT<br><br>cm³ | APPLICATION | COOLING | VOLTAGE<br>FREQUENCY | MOTOR | EXPANSION | SPEED<br><br>rpm | REFRIGERATION CAPACITY                                                          |     |            |             |     |            |             | WEIGHT<br><br>Kg | DESIGN |
|------------------------------------------------------------------------------------|-------|-------------------------|-------------|---------|----------------------|-------|-----------|------------------|---------------------------------------------------------------------------------|-----|------------|-------------|-----|------------|-------------|------------------|--------|
|                                                                                    |       |                         |             |         |                      |       |           |                  | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature<br>°C |     |            |             |     |            |             |                  |        |
|                                                                                    |       |                         |             |         |                      |       |           |                  | Cecomaf (W)                                                                     |     |            |             |     | Ashrae     |             |                  |        |
|                                                                                    |       |                         |             |         |                      |       |           |                  | -35                                                                             | -30 | -25        |             | -10 | -23.3      |             |                  |        |
|                                                                                    |       |                         |             |         |                      |       |           |                  |                                                                                 |     | W          | COP         |     | W          | COP         |                  |        |
|  | DM14U | 1.40                    | LMBP        | S       | 12-24V DC            | BLDC  | C         | 2000             | 10                                                                              | 16  | <b>24</b>  | <b>0.87</b> | 62  | <b>34</b>  | <b>1.15</b> | 2.60             | DMb    |
|                                                                                    |       |                         |             |         |                      |       |           | 3500             | 21                                                                              | 30  | <b>44</b>  | <b>0.87</b> | 105 | <b>60</b>  | <b>1.15</b> |                  |        |
|  | DL19U | 1.90                    | LMBP        | S       | 12-24V DC            | BLDC  | C         | 2000             | 17                                                                              | 28  | <b>42</b>  | <b>0.87</b> | 107 | <b>59</b>  | <b>1.15</b> | 4.30             | DLb    |
|                                                                                    |       |                         |             |         |                      |       |           | 3500             | 36                                                                              | 52  | <b>75</b>  | <b>0.87</b> | 181 | <b>103</b> | <b>1.15</b> |                  |        |
|  | DL22U | 2.20                    | LMBP        | S       | 12-24V DC            | BLDC  | C         | 2000             | 20                                                                              | 33  | <b>50</b>  | <b>0.87</b> | 127 | <b>70</b>  | <b>1.15</b> | 4.30             | DLb    |
|                                                                                    |       |                         |             |         |                      |       |           | 3500             | 42                                                                              | 60  | <b>87</b>  | <b>0.87</b> | 211 | <b>120</b> | <b>1.15</b> |                  |        |
|  | DK52U | 5.20                    | LMBP        | S       | 24V DC or 48V DC     | BLDC  | C         | 2000             | 39                                                                              | 63  | <b>95</b>  | <b>1.14</b> | 242 | <b>133</b> | <b>1.50</b> | 4.60             | DKb    |
|                                                                                    |       |                         |             |         |                      |       |           | 3500             | 72                                                                              | 104 | <b>151</b> | <b>1.19</b> | 364 | <b>207</b> | <b>1.60</b> |                  |        |

 Green Cooling Models

 New Models

R134a LBP | MBP | HBP • 12V

DC Compressors

|                                                                                    | MODEL  | DISPLACEMENT<br><br>cm <sup>3</sup> | APPLICATION | COOLING | VOLTAGE<br>FREQUENCY     | MOTOR | EXPANSION | SPEED<br><br>rpm | REFRIGERATION CAPACITY                                                          |     |     |      |     |        |      | WEIGHT<br><br>Kg | DESIGN |
|------------------------------------------------------------------------------------|--------|-------------------------------------|-------------|---------|--------------------------|-------|-----------|------------------|---------------------------------------------------------------------------------|-----|-----|------|-----|--------|------|------------------|--------|
|                                                                                    |        |                                     |             |         |                          |       |           |                  | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature<br>°C |     |     |      |     |        |      |                  |        |
|                                                                                    |        |                                     |             |         |                          |       |           |                  | Cecomaf (W)                                                                     |     |     |      |     | Ashrae |      |                  |        |
|                                                                                    |        |                                     |             |         |                          |       |           |                  | -35                                                                             | -30 | -25 |      | -10 | -23.3  |      |                  |        |
|                                                                                    |        |                                     |             |         |                          |       |           |                  |                                                                                 |     | W   | COP  |     | W      | COP  |                  |        |
|   | DM14H  | 1.40                                | LBP         | S       | 12-24V DC                | BLDC  | C         | 2500             | 7                                                                               | 12  | 18  | 0.80 | 45  | 25     | 1.05 | 2.40             | DMb    |
|                                                                                    |        |                                     |             |         |                          |       |           | 4000             | 16                                                                              | 23  | 33  | 0.85 | 79  | 45     | 1.10 |                  |        |
|   | DM16H  | 1.60                                | LBP         | S       | 12-24V DC                | BLDC  | C         | 2500             | 9                                                                               | 14  | 21  | 0.85 | 54  | 30     | 1.10 | 2.40             | DMb    |
|                                                                                    |        |                                     |             |         |                          |       |           | 4000             | 17                                                                              | 25  | 36  | 0.85 | 88  | 50     | 1.10 |                  |        |
|   | DM19H  | 1.90                                | LMHBP       | S/F     | 12-24V DC                | BLDC  | C         | 2000             | 10                                                                              | 17  | 25  | 0.95 | 64  | 35     | 1.25 | 4.20             | DMb    |
|                                                                                    |        |                                     |             |         |                          |       |           | 3500             | 21                                                                              | 30  | 44  | 0.93 | 105 | 60     | 1.20 |                  |        |
|   | DL19H  | 1.90                                | LMHBP       | S/F     | 12-24V DC                | BLDC  | C         | 2000             | 9                                                                               | 15  | 23  | 0.84 | 58  | 32     | 1.10 | 4.20             | DLb    |
|                                                                                    |        |                                     |             |         |                          |       |           | 3500             | 21                                                                              | 30  | 44  | 0.95 | 105 | 60     | 1.15 |                  |        |
|   | DL22H  | 2.20                                | LMHBP       | S/F     | 12-24V DC                | BLDC  | C         | 2000             | 11                                                                              | 18  | 28  | 0.91 | 71  | 39     | 1.20 | 4.20             | DLb    |
|                                                                                    |        |                                     |             |         |                          |       |           | 3500             | 24                                                                              | 35  | 51  | 0.97 | 123 | 70     | 1.25 |                  |        |
|   | DL30H  | 3.00                                | LMHBP       | S/F     | 12-24V DC                | BLDC  | C         | 2000             | 17                                                                              | 27  | 41  | 0.91 | 104 | 57     | 1.20 | 4.20             | DLb    |
|                                                                                    |        |                                     |             |         |                          |       |           | 3500             | 35                                                                              | 50  | 73  | 0.97 | 176 | 100    | 1.25 |                  |        |
|   | DL35H  | 3.50                                | LBP         | S       | 12-24V DC                | BLDC  | C         | 2000             | 19                                                                              | 30  | 45  | 0.91 | 116 | 64     | 1.20 | 4.30             | DLb    |
|                                                                                    |        |                                     |             |         |                          |       |           | 3500             | 38                                                                              | 55  | 80  | 0.97 | 193 | 110    | 1.25 |                  |        |
|   | VDL19H | 1.90                                | LBP         | S       | 12-24V DC<br>100-240V AC | BLDC  | C         | 2000             | 9                                                                               | 15  | 23  | 0.84 | 58  | 32     | 1.10 | 4.40             | VDLb   |
|                                                                                    |        |                                     |             |         |                          |       |           | 3500             | 21                                                                              | 30  | 44  | 0.89 | 105 | 60     | 1.15 |                  |        |
|  | VDL22H | 2.20                                | LBP         | S       | 12-24V DC<br>100-240V AC | BLDC  | C         | 2000             | 11                                                                              | 18  | 28  | 0.91 | 71  | 39     | 1.20 | 4.40             | VDLb   |
|                                                                                    |        |                                     |             |         |                          |       |           | 3500             | 24                                                                              | 35  | 51  | 0.97 | 123 | 70     | 1.25 |                  |        |

R134a LBP | MBP | HBP • 12V

DC Compressors

|                                                                                    | MODEL | DISPLACEMENT<br><br>cm³ | APPLICATION | COOLING | VOLTAGE<br>FREQUENCY | MOTOR | EXPANSION | SPEED<br><br>rpm | REFRIGERATION CAPACITY                                                          |       |     |      |       |        |      | WEIGHT<br><br>Kg | DESIGN |
|------------------------------------------------------------------------------------|-------|-------------------------|-------------|---------|----------------------|-------|-----------|------------------|---------------------------------------------------------------------------------|-------|-----|------|-------|--------|------|------------------|--------|
|                                                                                    |       |                         |             |         |                      |       |           |                  | COP in W/W<br>1 W = 0,864 kcal/h = 3,415 BTU/h<br>Evaporating Temperature<br>°C |       |     |      |       |        |      |                  |        |
|                                                                                    |       |                         |             |         |                      |       |           |                  | Cecomaf (W)                                                                     |       |     |      |       | Ashrae |      |                  |        |
|                                                                                    |       |                         |             |         |                      |       |           |                  | -25                                                                             | -15   | 5   |      | 10    | +7.2   |      |                  |        |
|                                                                                    |       |                         |             |         |                      |       |           |                  |                                                                                 |       | W   | COP  |       | W      | COP  |                  |        |
|  | DK52G | 5.2                     | LMHBP       | F       | 12-24V DC            | BLDC  | C         | 2500             | 88                                                                              | 154.4 | 377 | 2.41 | 451.4 | 450    | 2.80 | 4.20             | DKb    |
|                                                                                    |       |                         |             |         |                      |       |           | 4000             | 137                                                                             | 239.8 | 586 | 2.23 | 700   | 700    | 2.60 |                  |        |

 Green Cooling Models

 New Models



# 4.

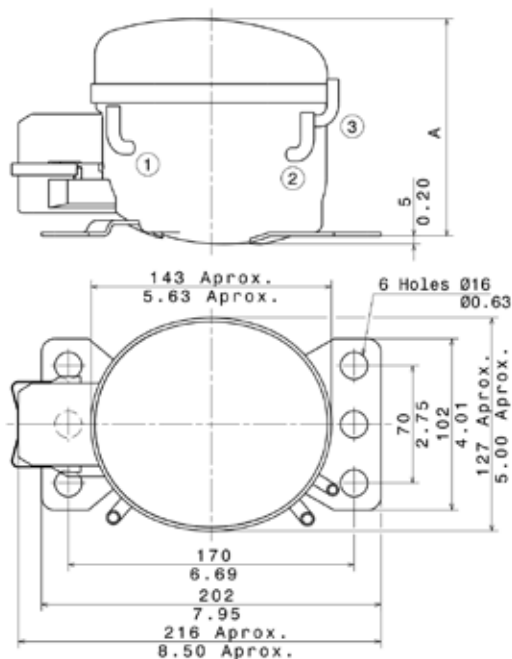
## Technical Information





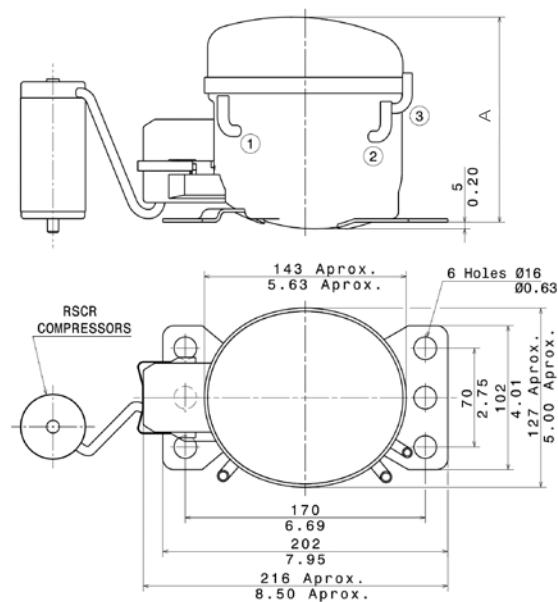
# Compressor Dimensional Drawings

## Small L range



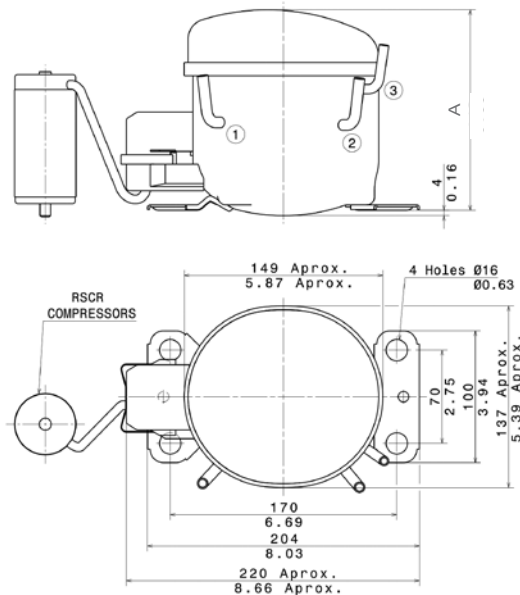
|   | Designation |     | A (mm) |
|---|-------------|-----|--------|
| 1 | Suction     | SLb | 125.5  |
| 2 | Service     | SLc | 129    |
| 3 | Discharge   | SLd | 138    |

## HL range



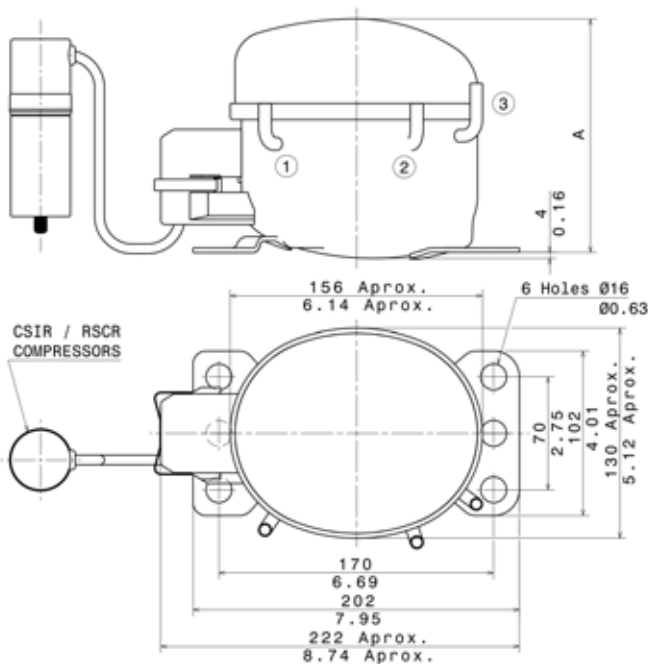
|   | Designation |     | A (mm) |
|---|-------------|-----|--------|
| 1 | Suction     | HLb | 145    |
| 2 | Service     |     |        |
| 3 | Discharge   |     |        |

## HK range



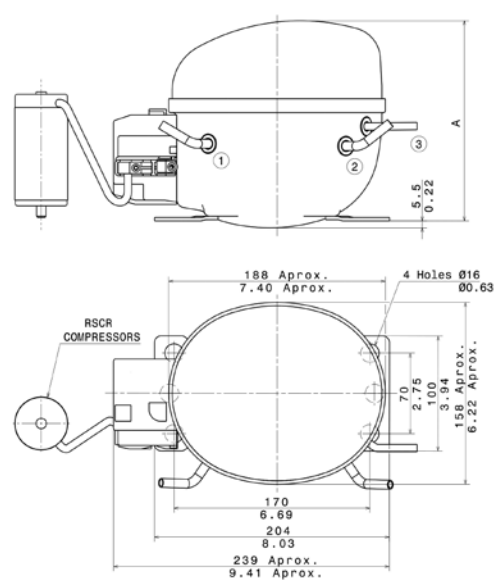
|   | Designation |     | A (mm) |
|---|-------------|-----|--------|
| 1 | Suction     | HKb | 148    |
| 2 | Service     |     |        |
| 3 | Discharge   |     |        |

## B range



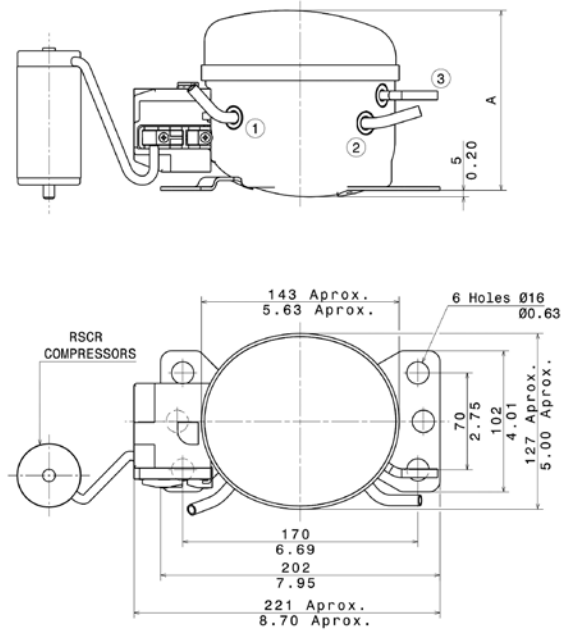
|   | Designation |    | A (mm) |
|---|-------------|----|--------|
| 1 | Suction     | Bb | 141    |
| 2 | Service     | Bc | 145    |
| 3 | Discharge   | Be | 155    |
|   |             | Bf | 159    |

**HYE** range



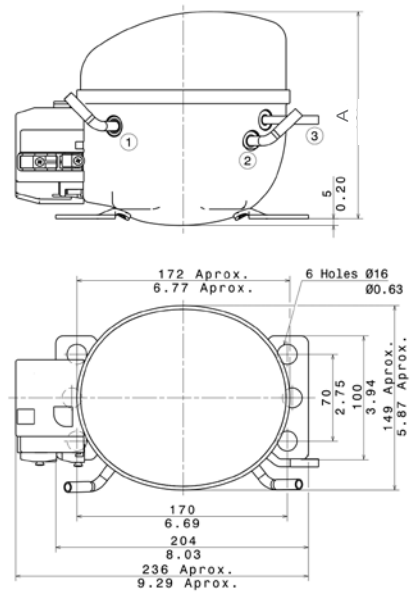
|   | Designation |      | A (mm) |
|---|-------------|------|--------|
| 1 | Service     | HYEb | 173.5  |
| 2 | Suction     | HYEc | 169    |
| 3 | Discharge   | HYEd | 176.5  |
|   |             | HYEf | 180    |

**HYB** range



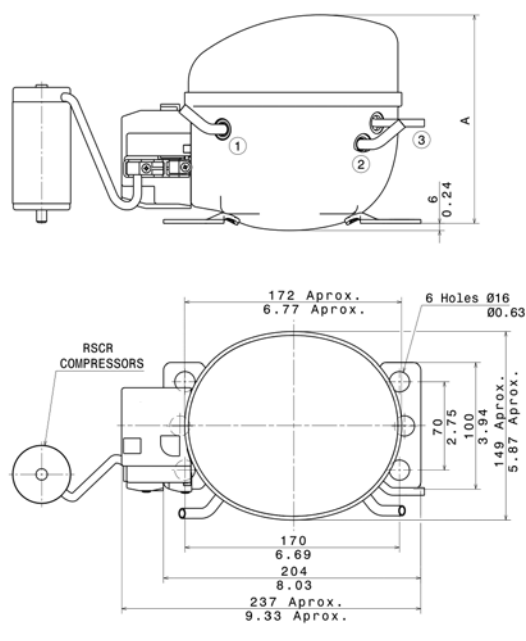
|   | Designation |      | A (mm) |
|---|-------------|------|--------|
| 1 | Suction     | HYBb | 130    |
| 2 | Service     | HYBc | 138    |
| 3 | Discharge   | HYBd | 142    |
|   |             | HYBe | 154    |
|   |             | HYBf | 161    |

**HFY** range



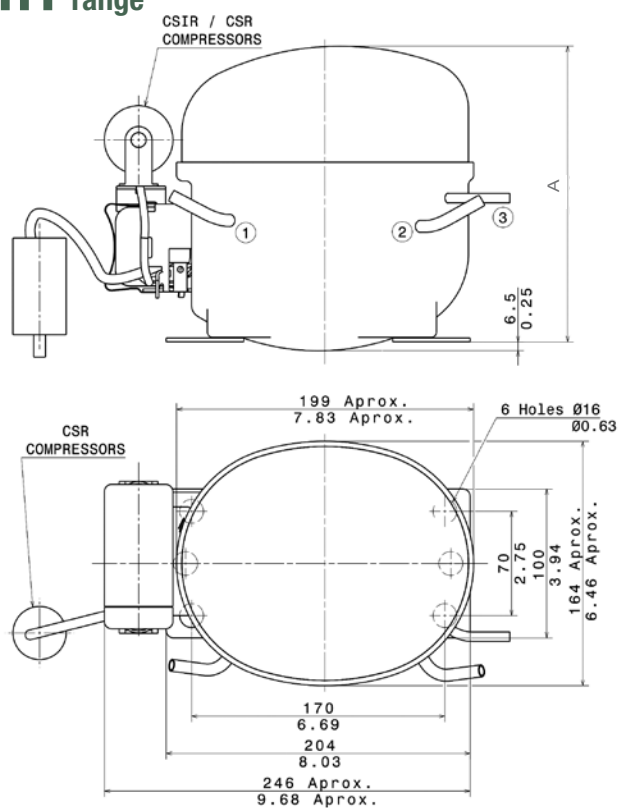
|   | Designation |      | A (mm) |
|---|-------------|------|--------|
| 1 | Service     | HFYb | 167    |
| 2 | Suction     |      |        |
| 3 | Discharge   |      |        |

**HYS** range



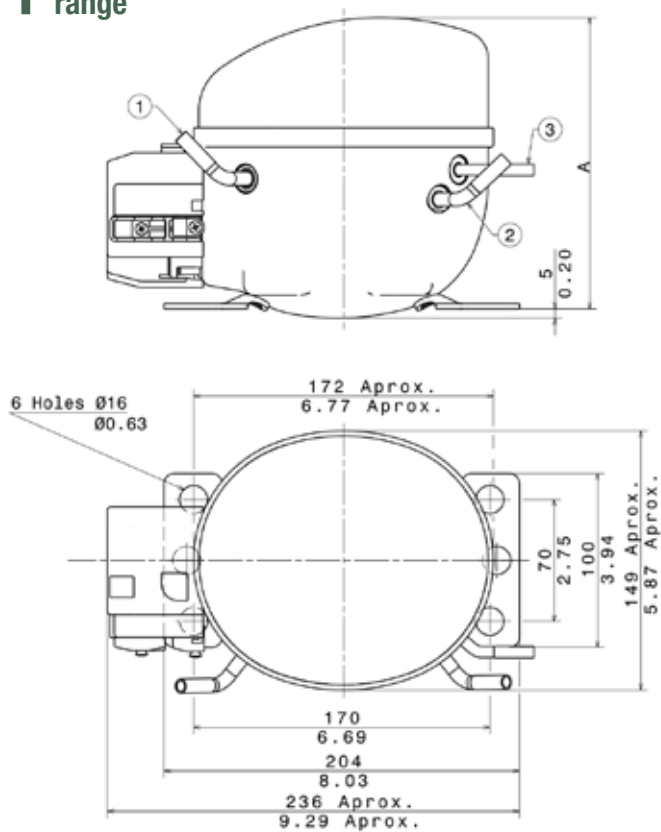
|   | Designation |      | A (mm) |
|---|-------------|------|--------|
| 1 | Service     | HYSb | 159.5  |
| 2 | Suction     | HYSd | 165    |
| 3 | Discharge   | HYSd | 168    |
|   |             | HYSe | 172    |

## HY range



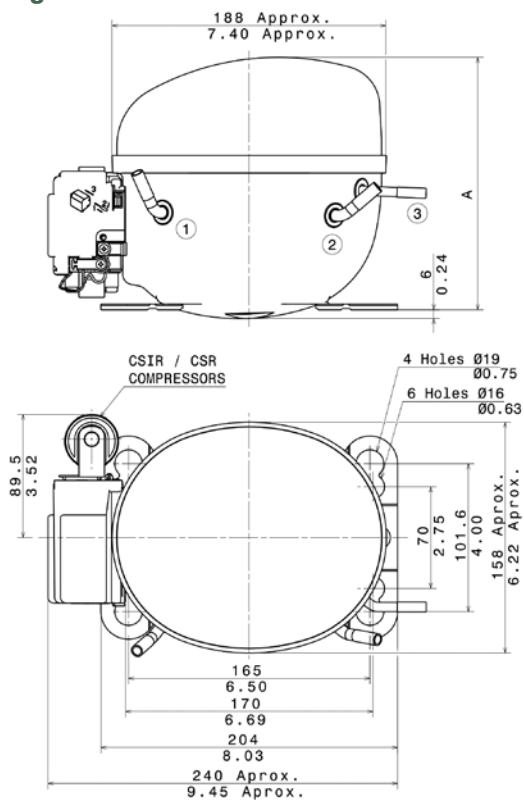
| Designation | A (mm)  |
|-------------|---------|
| 1 Service   | HYb 193 |
| 2 Suction   |         |
| 3 Discharge |         |

## F range



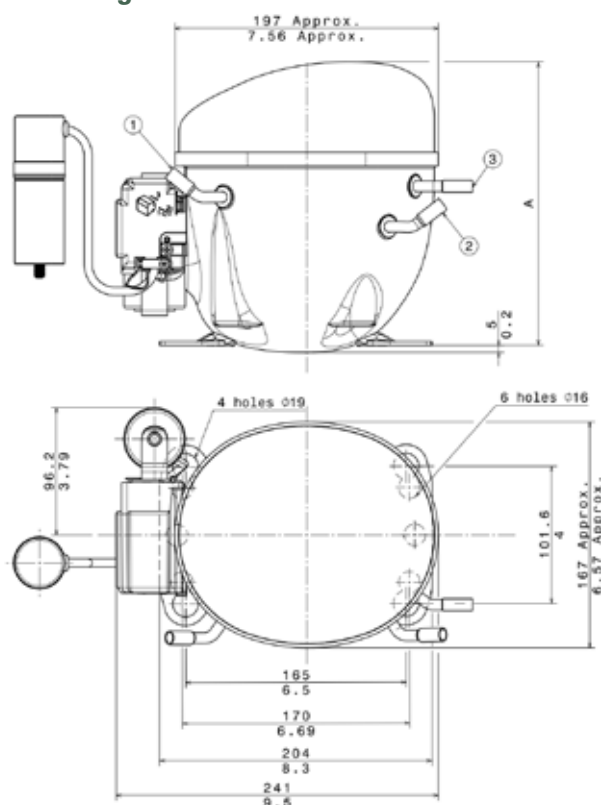
| Designation | A (mm) |
|-------------|--------|
| 1 Service   | Fb 165 |
| 2 Suction   | Fc 170 |
| 3 Discharge | Fd 175 |
|             | Fe 178 |

## U range



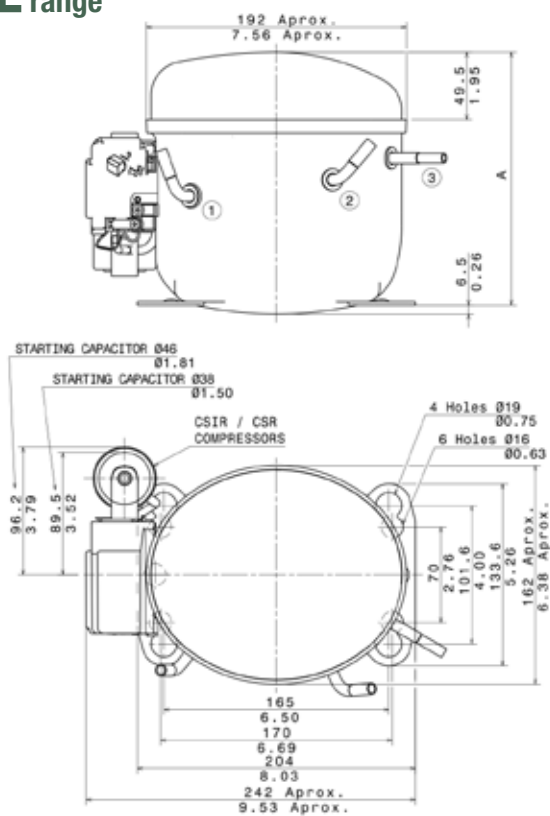
| Designation | A (mm)   |
|-------------|----------|
| 1 Service   | Ub 173.5 |
| 2 Suction   | Uc 176.5 |
| 3 Discharge | Ud 180   |
|             | Ue 182   |

## U+ range



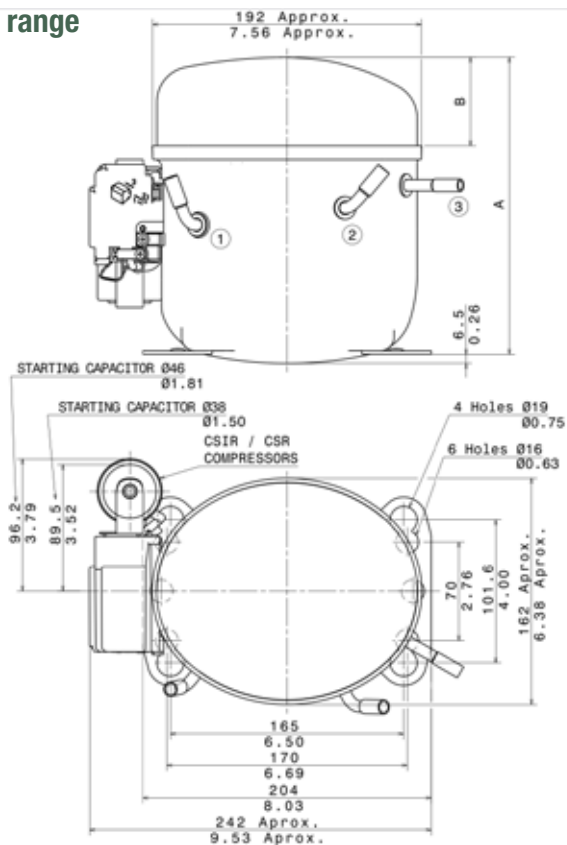
| Designation | A (mm)  |
|-------------|---------|
| 1 Service   | U+b 210 |
| 2 Suction   |         |
| 3 Discharge |         |

## L range



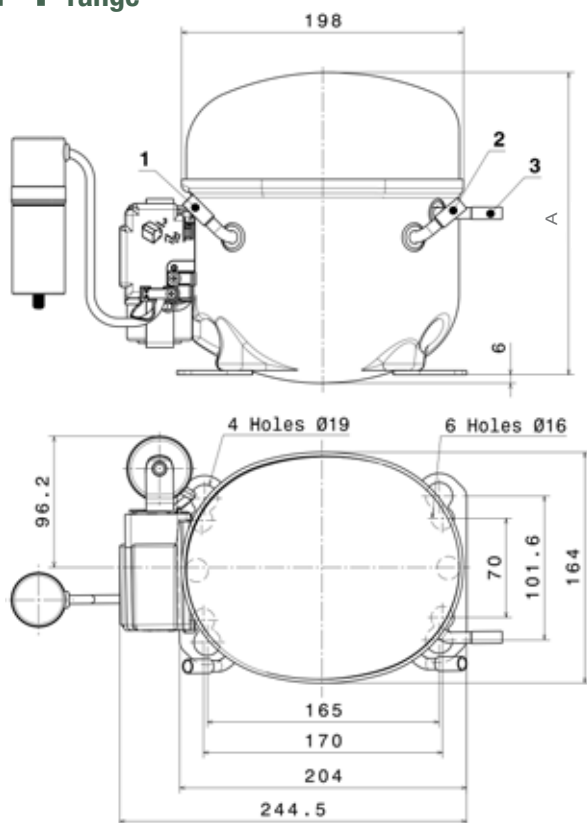
| Designation | A (mm)   |
|-------------|----------|
| 1 Suction   | Lb 175   |
| 2 Service   | Lc 185.6 |
| 3 Discharge | Ld 198   |

## P range



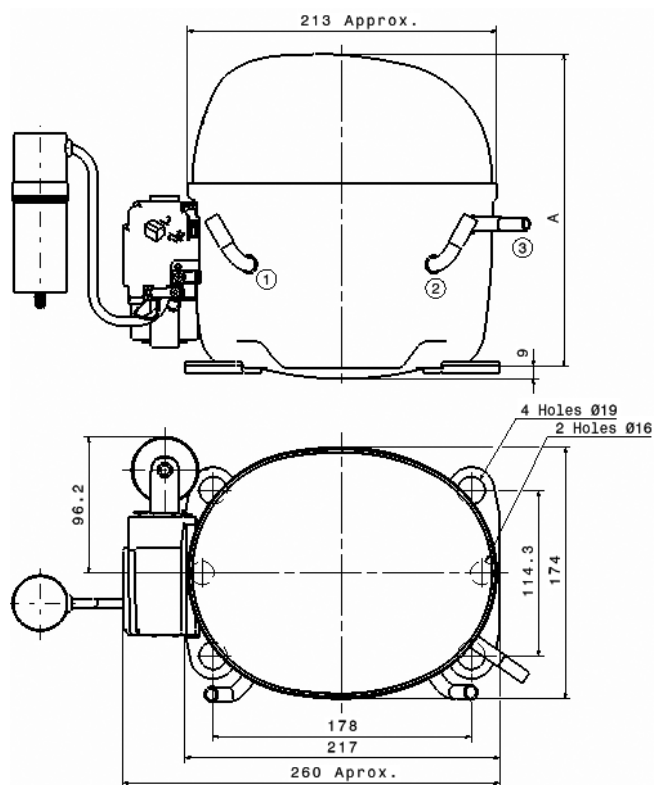
| Designation | A (mm)   |
|-------------|----------|
| 1 Suction   | Pc 198.1 |
| 2 Service   | Pd 210.5 |
| 3 Discharge | Pe 215.5 |

## P+ range



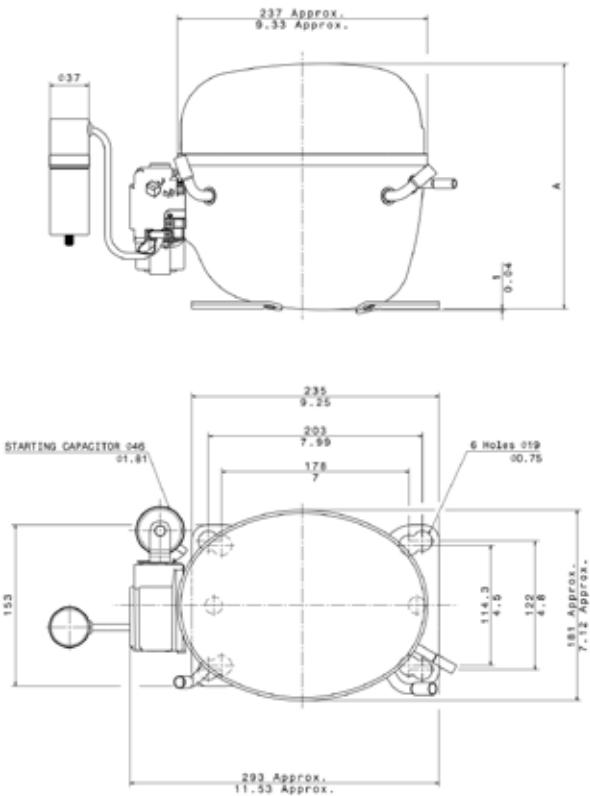
| Designation | A (mm)  |
|-------------|---------|
| 1 Service   | P+b 211 |
| 2 Suction   |         |
| 3 Discharge |         |

## X range



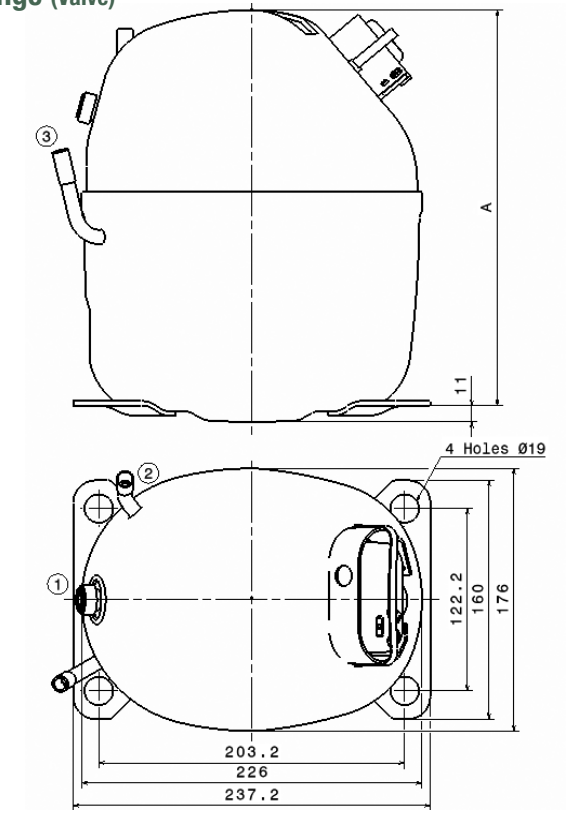
| Designation | A (mm) |
|-------------|--------|
| 1 Service   | Xc 215 |
| 2 Suction   | Xd 221 |
| 3 Discharge |        |

X+ range



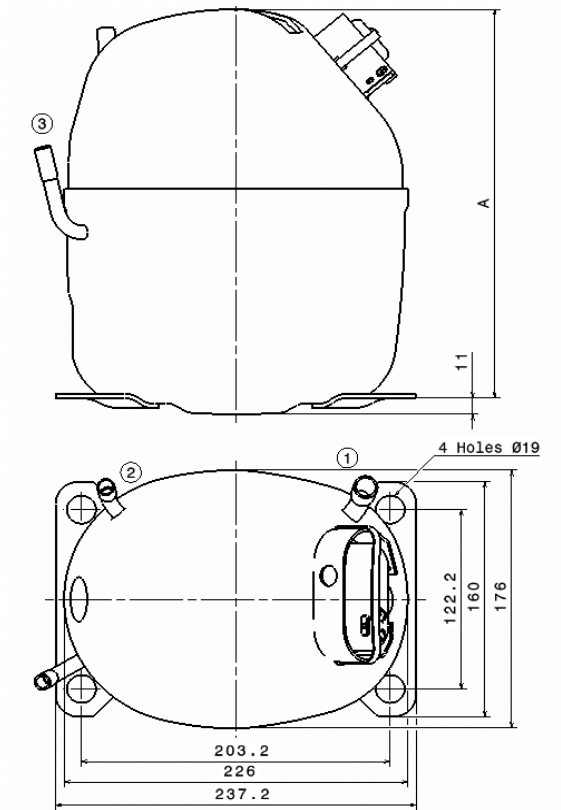
| Designation | A (mm)    |
|-------------|-----------|
| 1 Suction   | X+b 226.5 |
| 2 Service   | X+c 232.5 |
| 3 Discharge |           |

S range (Valve)



| Designation     | A (mm) |
|-----------------|--------|
| 1 Service valve | Sb 252 |
| 2 Service       | Sc 265 |
| 3 Discharge     | Sd 276 |

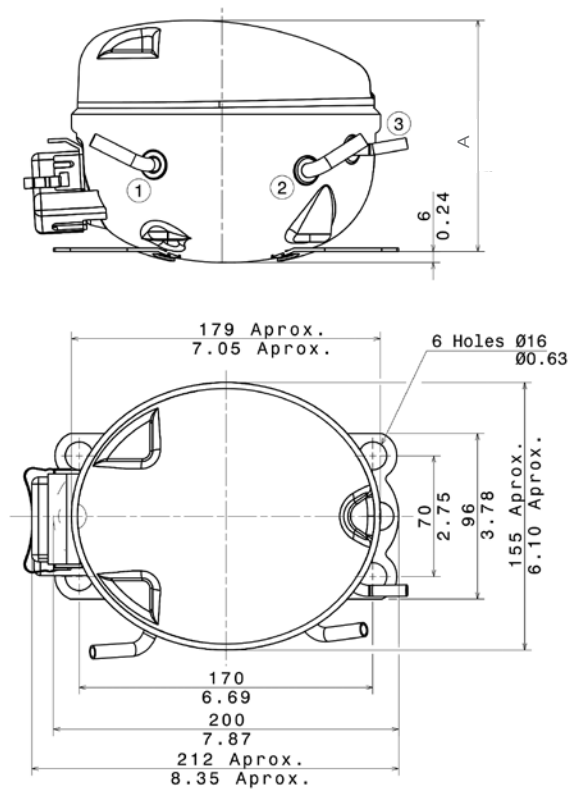
S range (Tube)



| Designation | A (mm) |
|-------------|--------|
| 1 Suction   | Sb 252 |
| 2 Service   | Sc 265 |
| 3 Discharge | Sd 276 |

Variable Speed Compressors

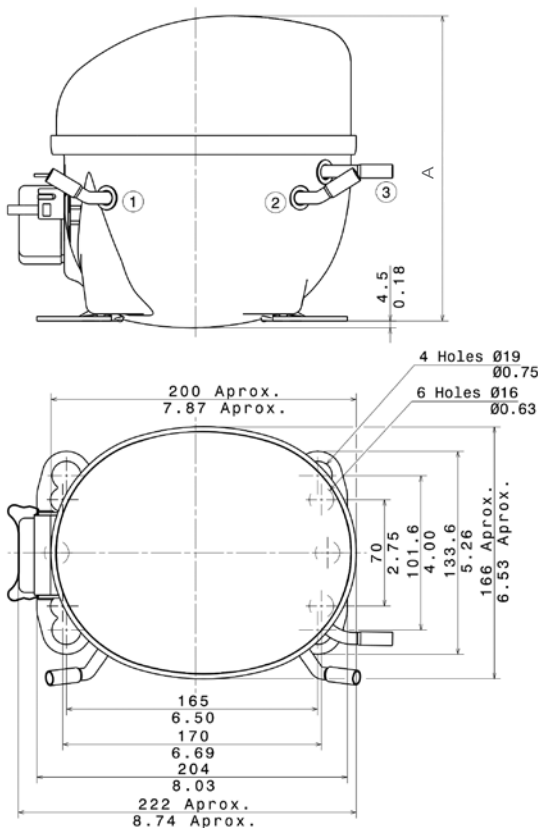
NVT/NVS Range



|   | Designation |
|---|-------------|
| 1 | Suction     |
| 2 | Service     |
| 3 | Discharge   |

|    | A (mm) |
|----|--------|
| Vb | 149    |

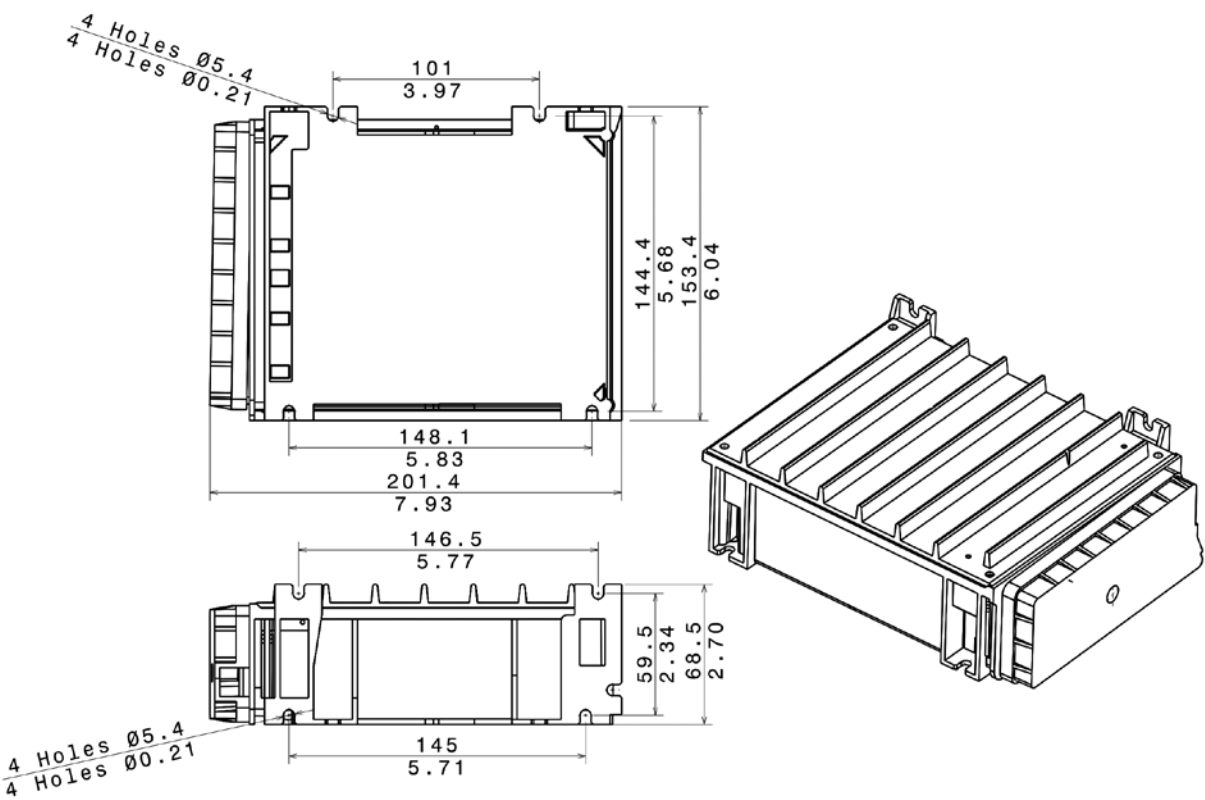
NUS/NUD Range



|   | Designation |
|---|-------------|
| 1 | Service     |
| 2 | Suction     |
| 3 | Discharge   |

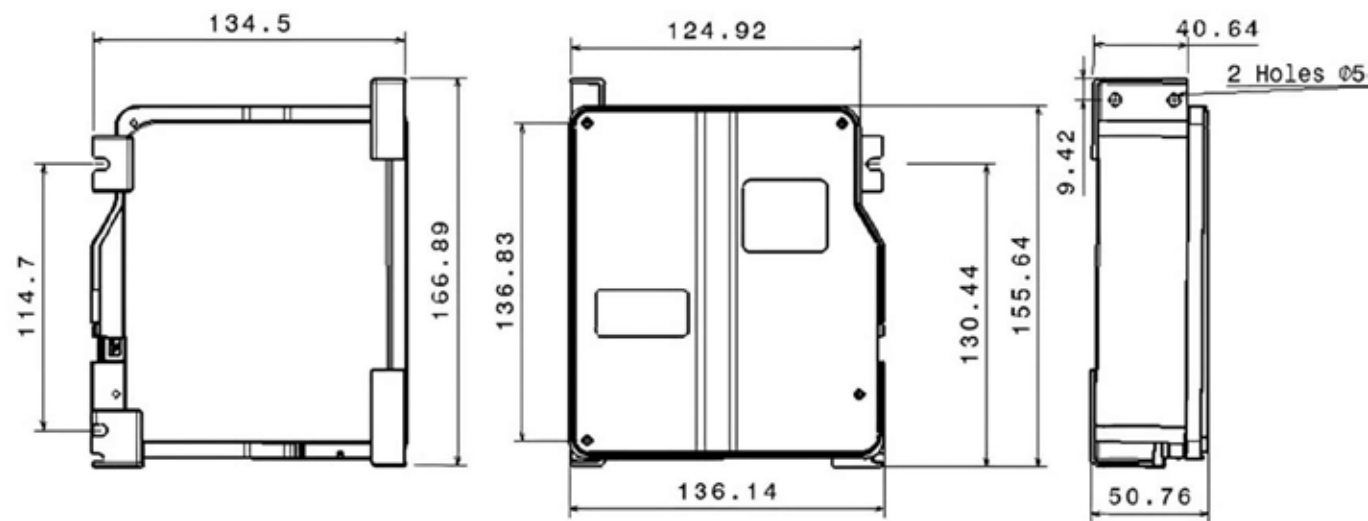
|    | A (mm) |
|----|--------|
| Uv | 201    |

Electronic Driver for NUS/NUD Range

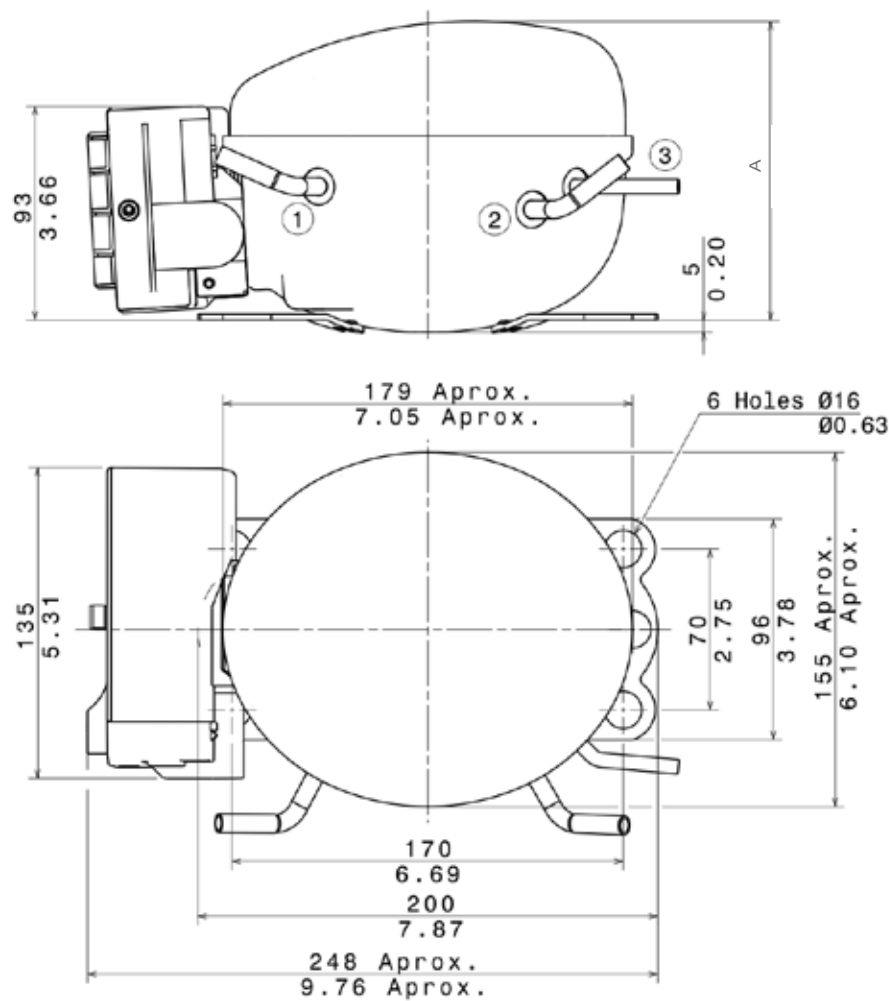




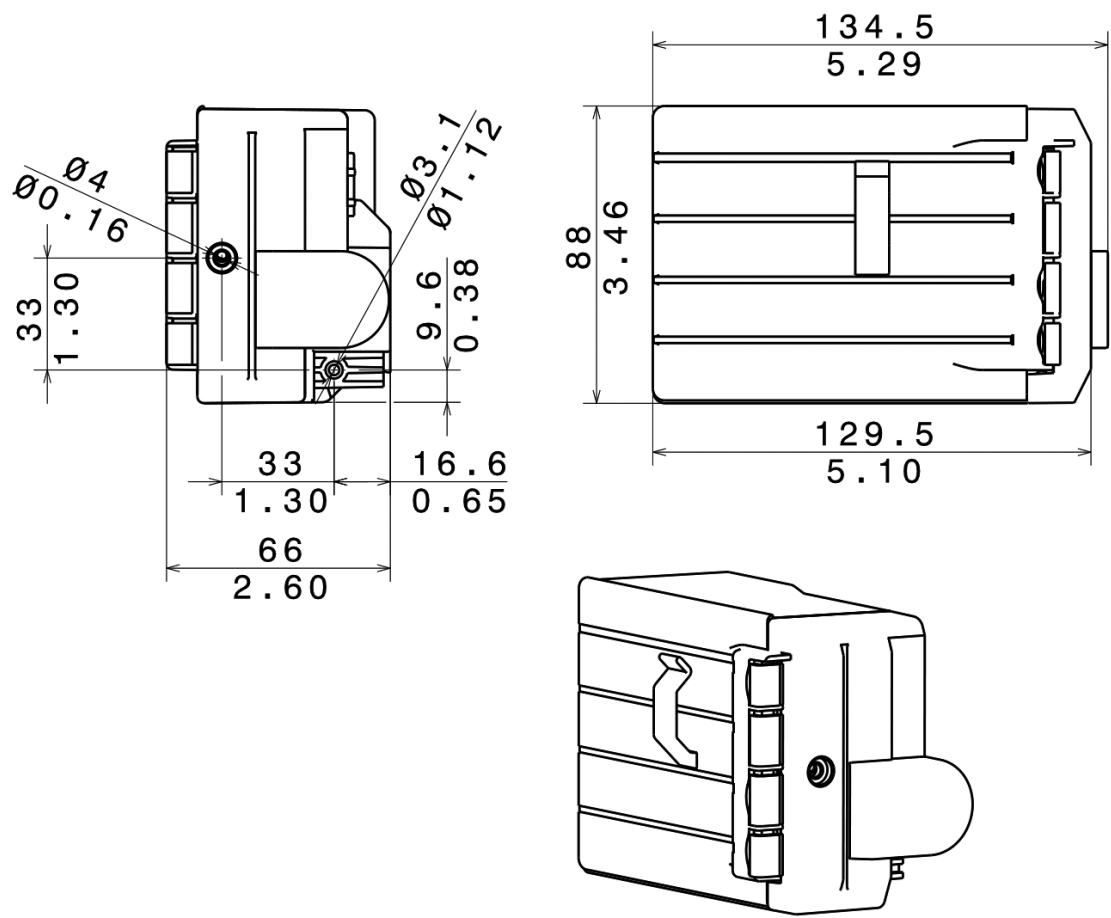
Electronic Driver for NVT/NVS/NMD Range



HVM VSC range

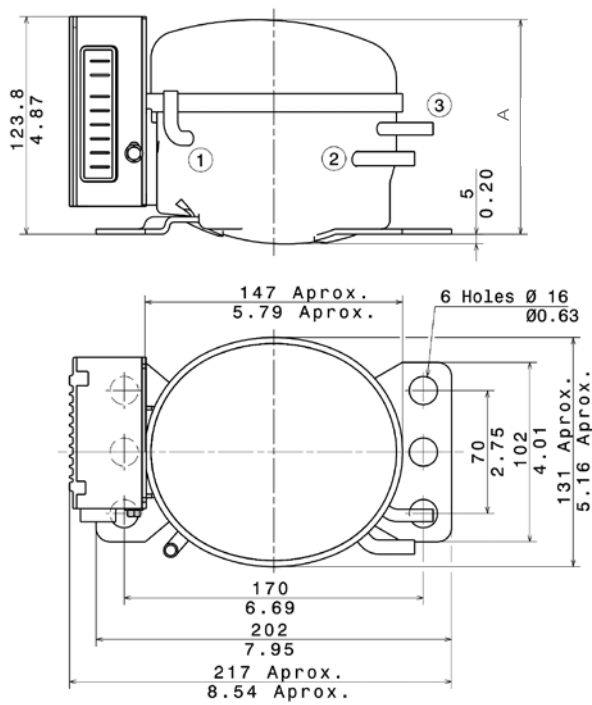


|   | Designation |      | A (mm) |
|---|-------------|------|--------|
| 1 | Service     | HVMb | 124    |
| 2 | Suction     | HVMc | 129    |
| 3 | Discharge   | HVMd | 134    |



12-42V DC Compressors

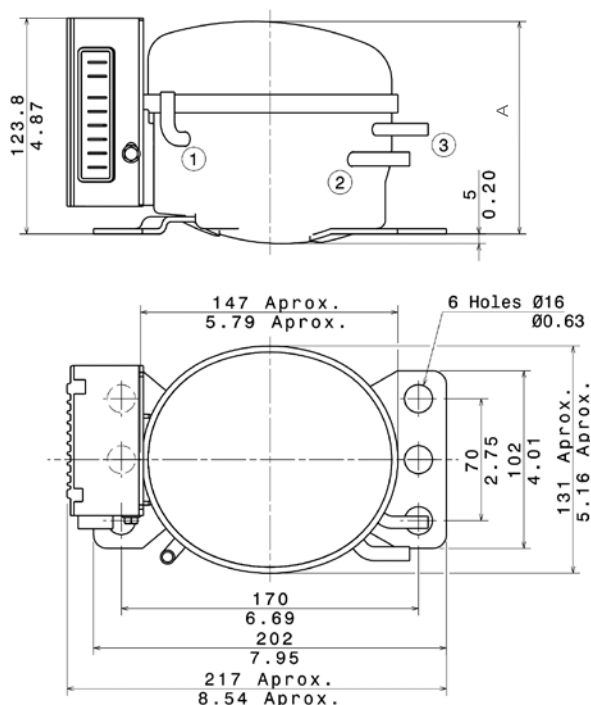
DL range



| Designation |
|-------------|
| 1 Suction   |
| 2 Service   |
| 3 Discharge |

| DLb | A (mm) |
|-----|--------|
|     | 123.8  |

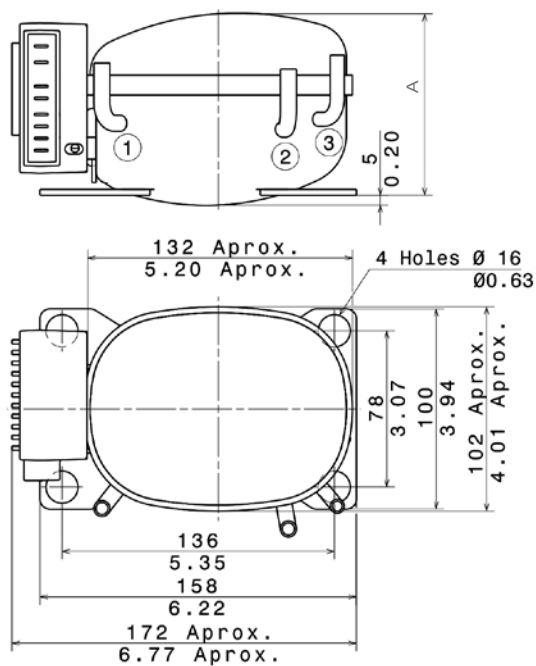
VDL range



| Designation |
|-------------|
| 1 Suction   |
| 2 Service   |
| 3 Discharge |

| VDLb | A (mm) |
|------|--------|
|      | 131.6  |

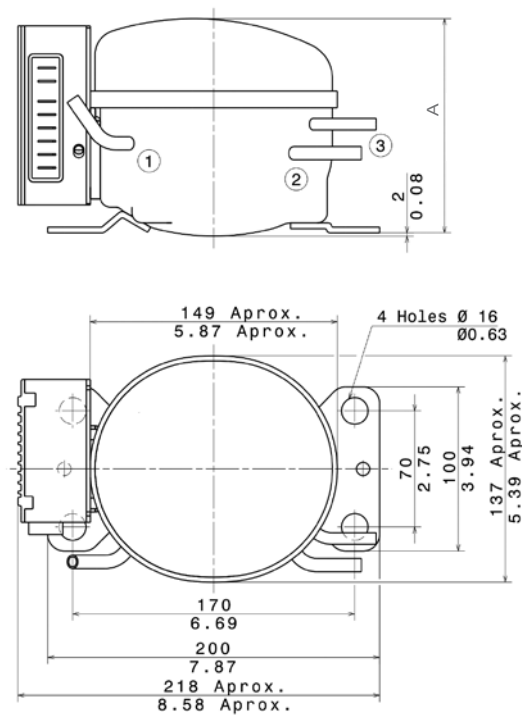
DM range



| Designation |
|-------------|
| 1 Suction   |
| 2 Service   |
| 3 Discharge |

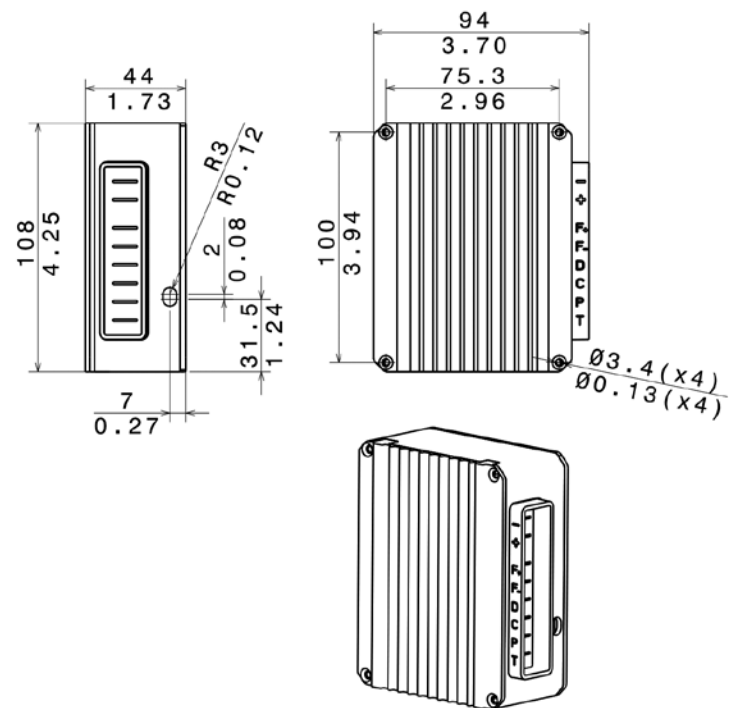
| DMb | A (mm) |
|-----|--------|
|     | 91     |

DK range



| Designation |
|-------------|
| 1 Suction   |
| 2 Service   |
| 3 Discharge |

| DKb | A (mm) |
|-----|--------|
|     | 135    |



# Fixings

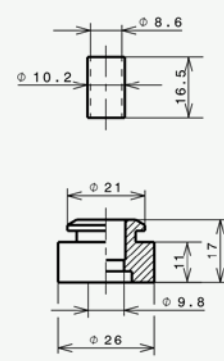
Fixings allow the manufacturer of appliances to fix the compressor to the appliance base, connecting it to the cooling system.

## Mounting feet

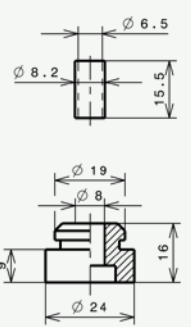
| Range                    | Mounting feet                                                                                                                                                |                                                                                                                                                                              |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Small L, HL, HK          | Set of 4 holes of 16mm DIA with inter-axes: 70x170mm                                                                                                         |                                                                                                                                                                              |
| B, HY, F, L, , U, U+, P+ | European type<br>Set of 4 holes of 16 mm DIA with inter-axes: 70 x 170 mm                                                                                    | American type<br>Two sets of 4 holes:<br>1.- Set of 16 mm DIA with inter-axes: 70 x 170 mm<br>2.- Set of ¾ inch (19 mm) DIA with inter-axes: 4 x 6 1/2 inch (101.6 x 165 mm) |
| X                        | One set of 4 holes of 19 mm (¾ inch) DIA with inter-axes: 114.3 x178 mm (4 1/2 x 7 inch)                                                                     |                                                                                                                                                                              |
| X+                       | American type<br>Two sets of 4 holes:<br>1.- Set of 16 mm DIA with inter-axes: 114,3 x 178 mm<br>2.- Set of ¾ inch (19 mm) DIA with inter-axes: 122 x 203 mm |                                                                                                                                                                              |
| S                        | One set of 4 holes of 19 mm (¾ inch) DIA with inter-axes: 122.2 x 203.2 mm (4 13/16 x 7 7/8 inch)                                                            |                                                                                                                                                                              |

## Silent Blocks (Mounting accessories)

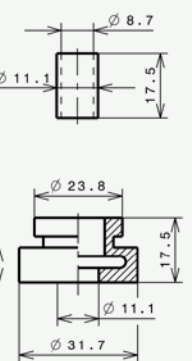
**STANDARD**  
**Small L & B**  
D.16 holds net



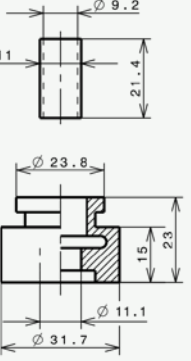
**STANDARD**  
D.16 holds net



**AMERICAN FEET**  
D.19 holds net



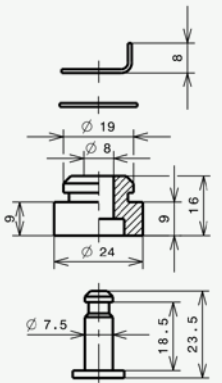
**STANDARD X & S**  
D.19 holds net



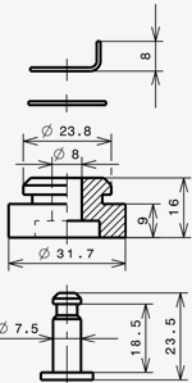
1. Mounting sleeve 2. Silent block



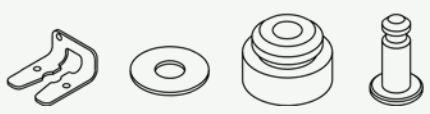
**SNAP-ON**  
D. 16 holds net



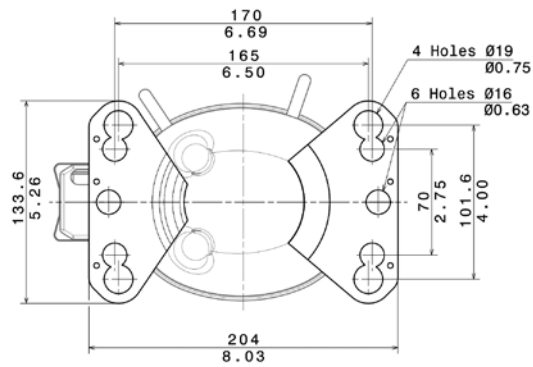
**AMERICAN SNAP-ON**  
D.19 holds net



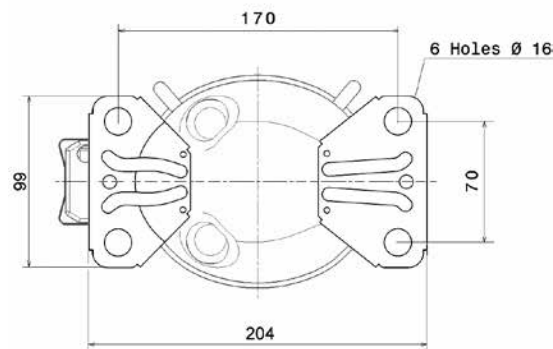
1. Clip 2. Washer 4. Axis



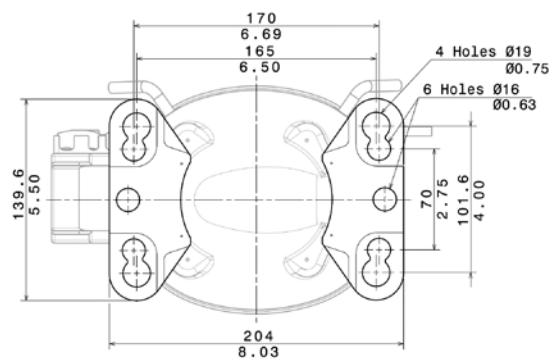
**B Range** (American mounting feet)



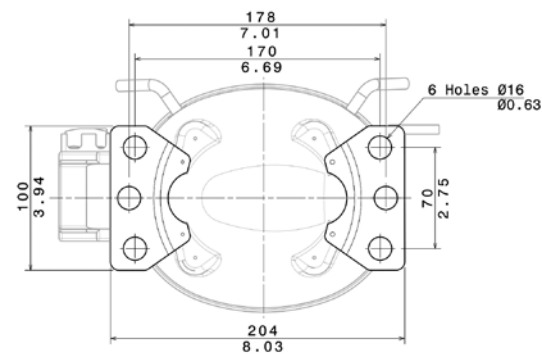
**Small L & B Range** (European mounting feet)



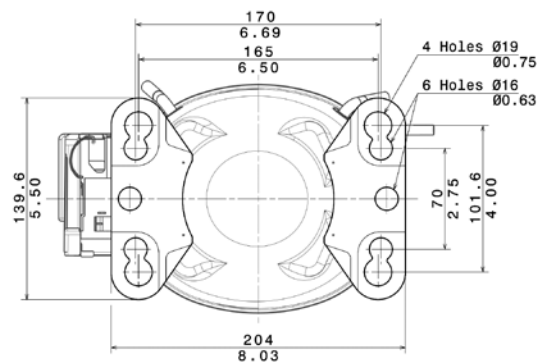
**HY Range** (American mounting feet)



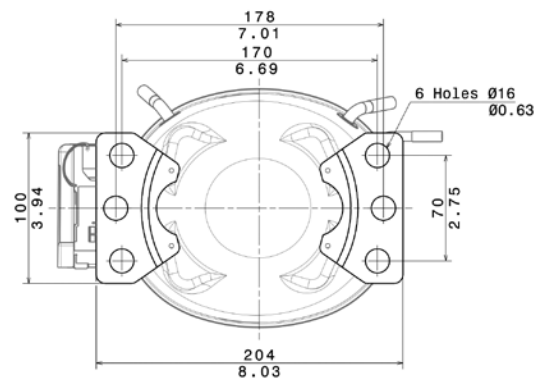
**HY Range** (European mounting feet)



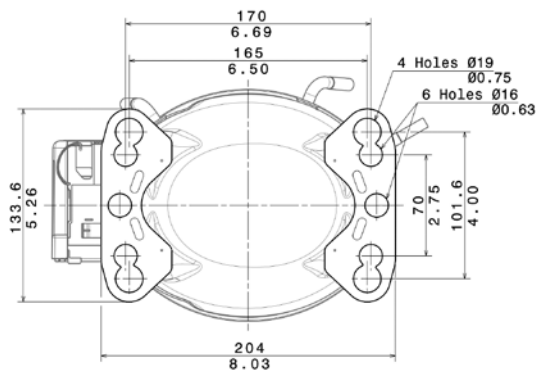
**F, U & U+ Range** (American mounting feet)



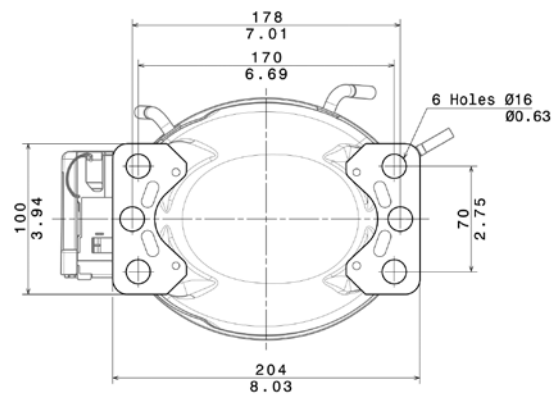
**F, U & U+ Range** (European mounting feet)



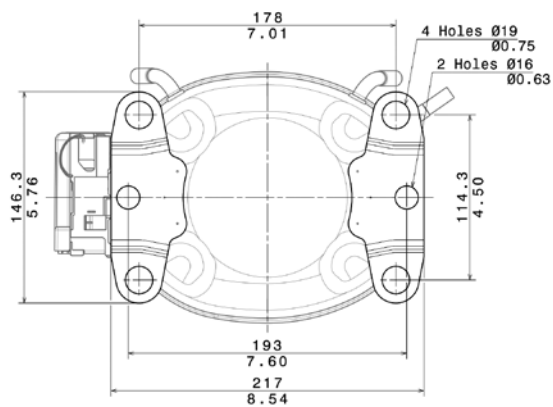
**L, P & P+ Range** (American mounting feet)



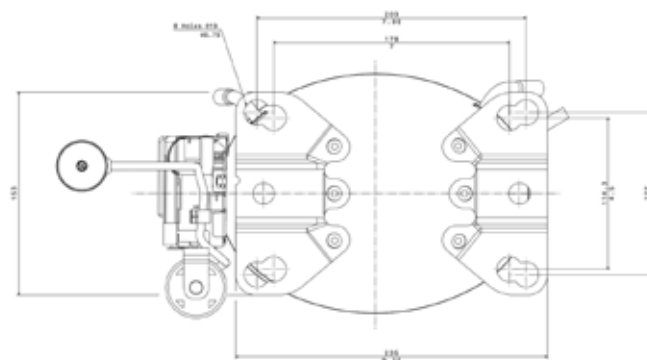
### L, P & P+ Range (European mounting feet)



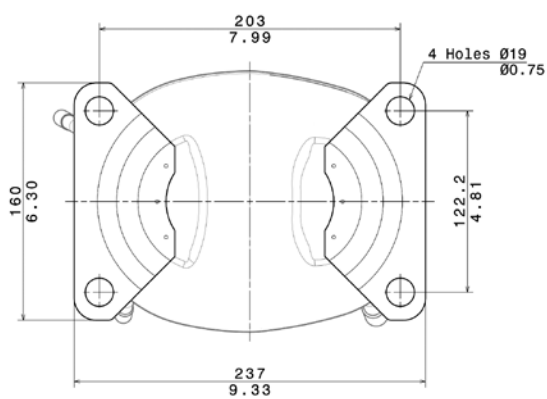
## X Range



## X+ Range



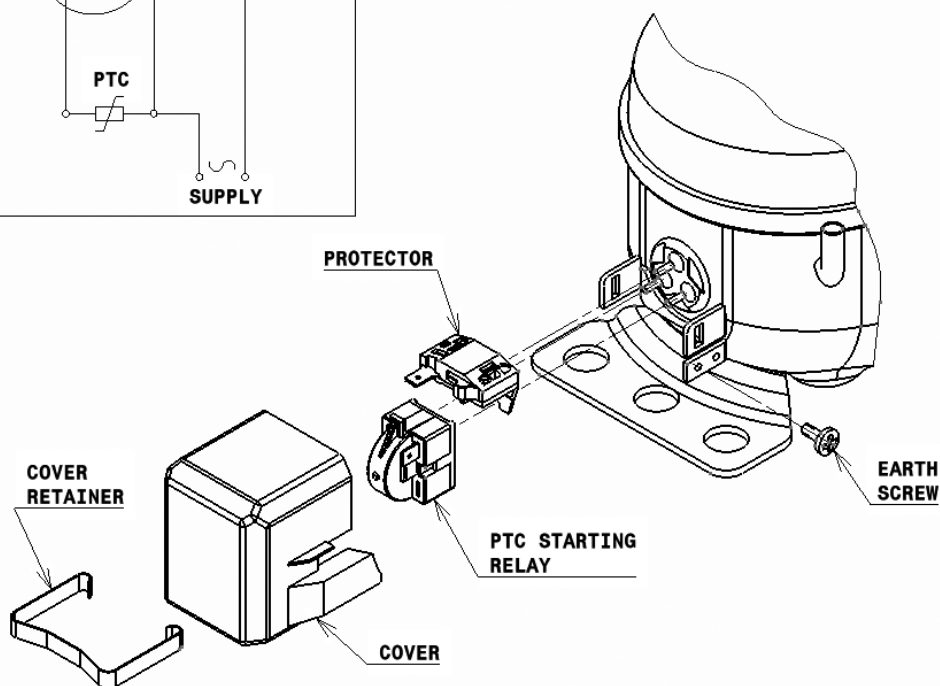
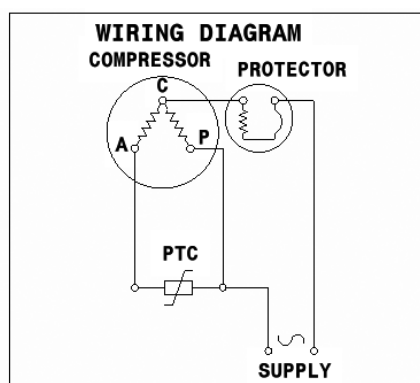
## S Range



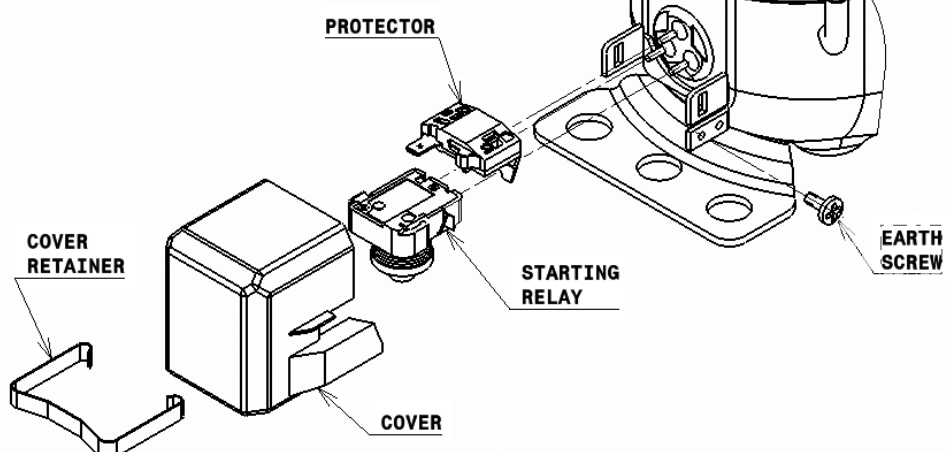
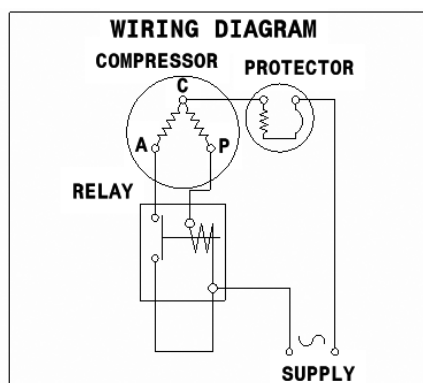


# Wiring Diagrams and Electrical Assembly

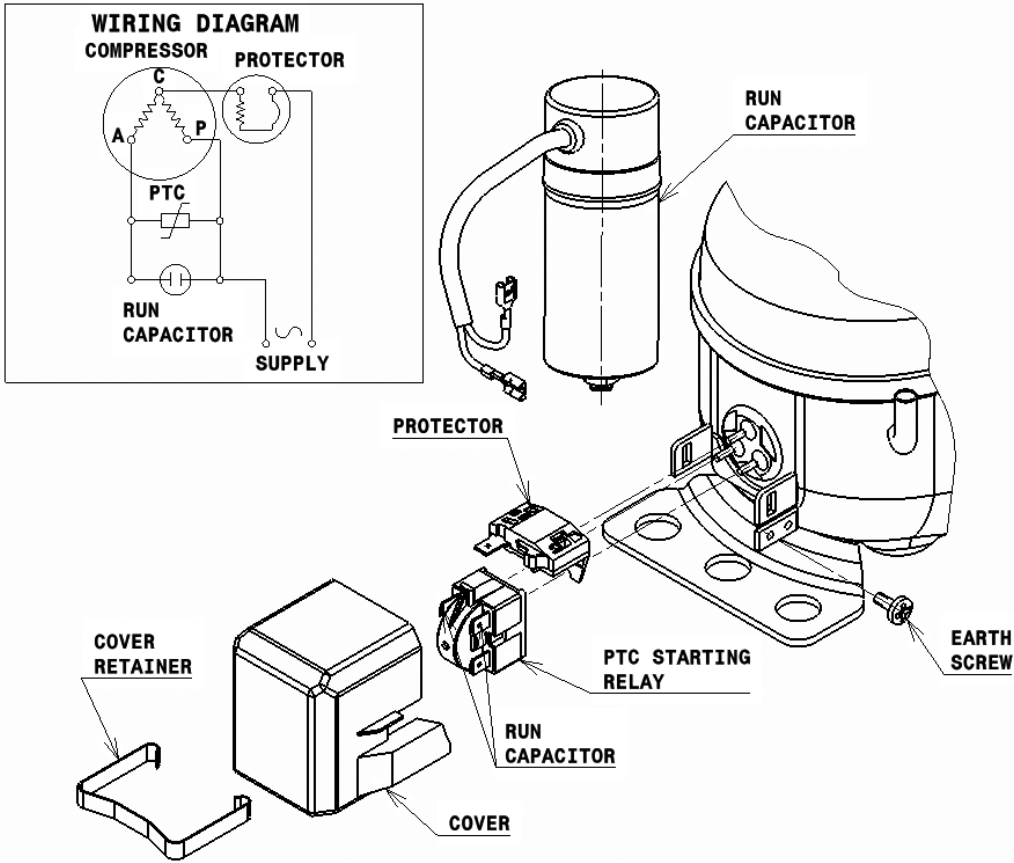
## RSIR-PTC (Small L, B, HL and HK ranges)



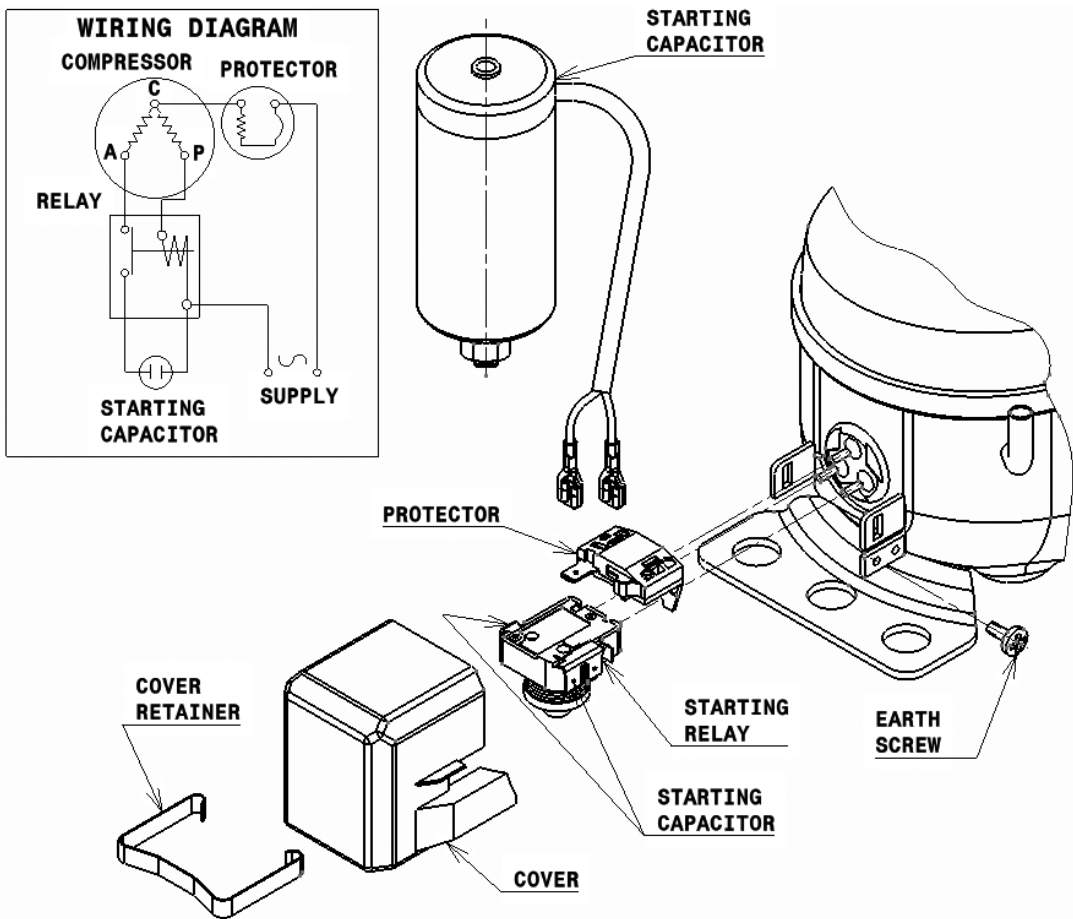
## RSIR-Relay (Small L, B, HL and HK ranges)



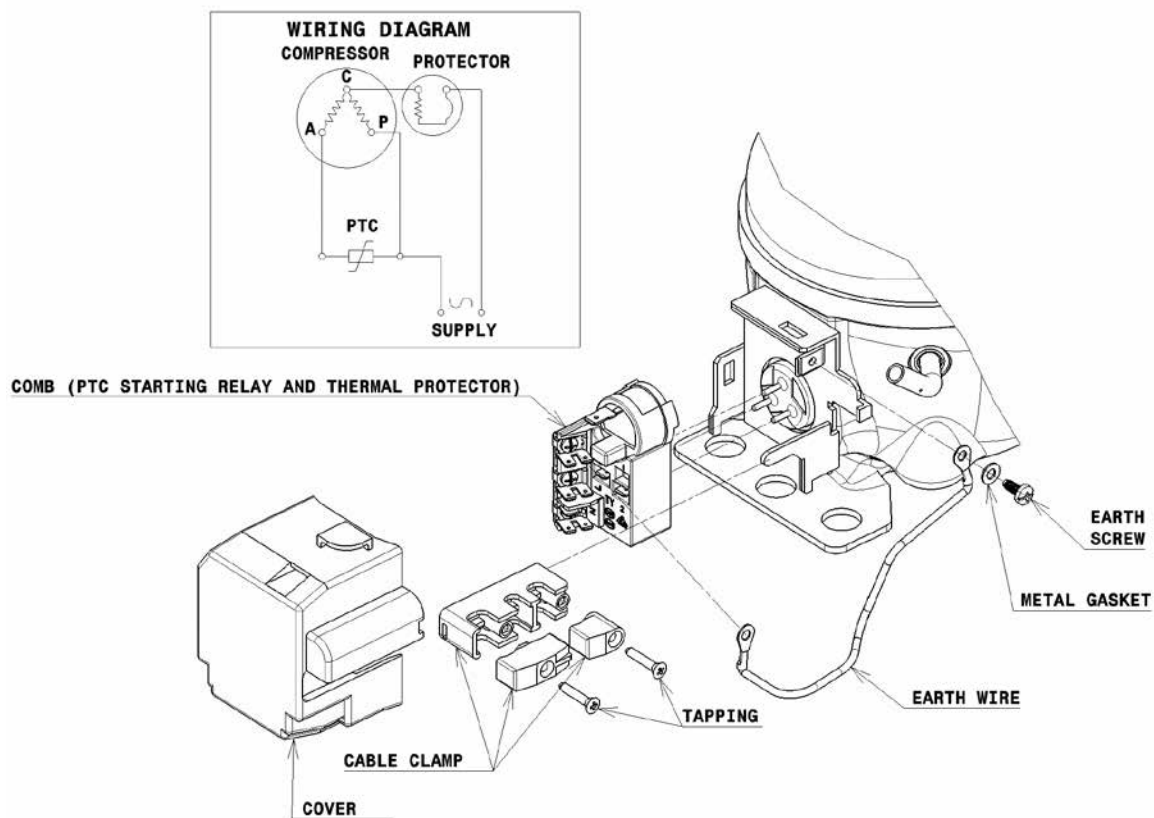
RSCR-PTC (Small L, B, HL and HK ranges)



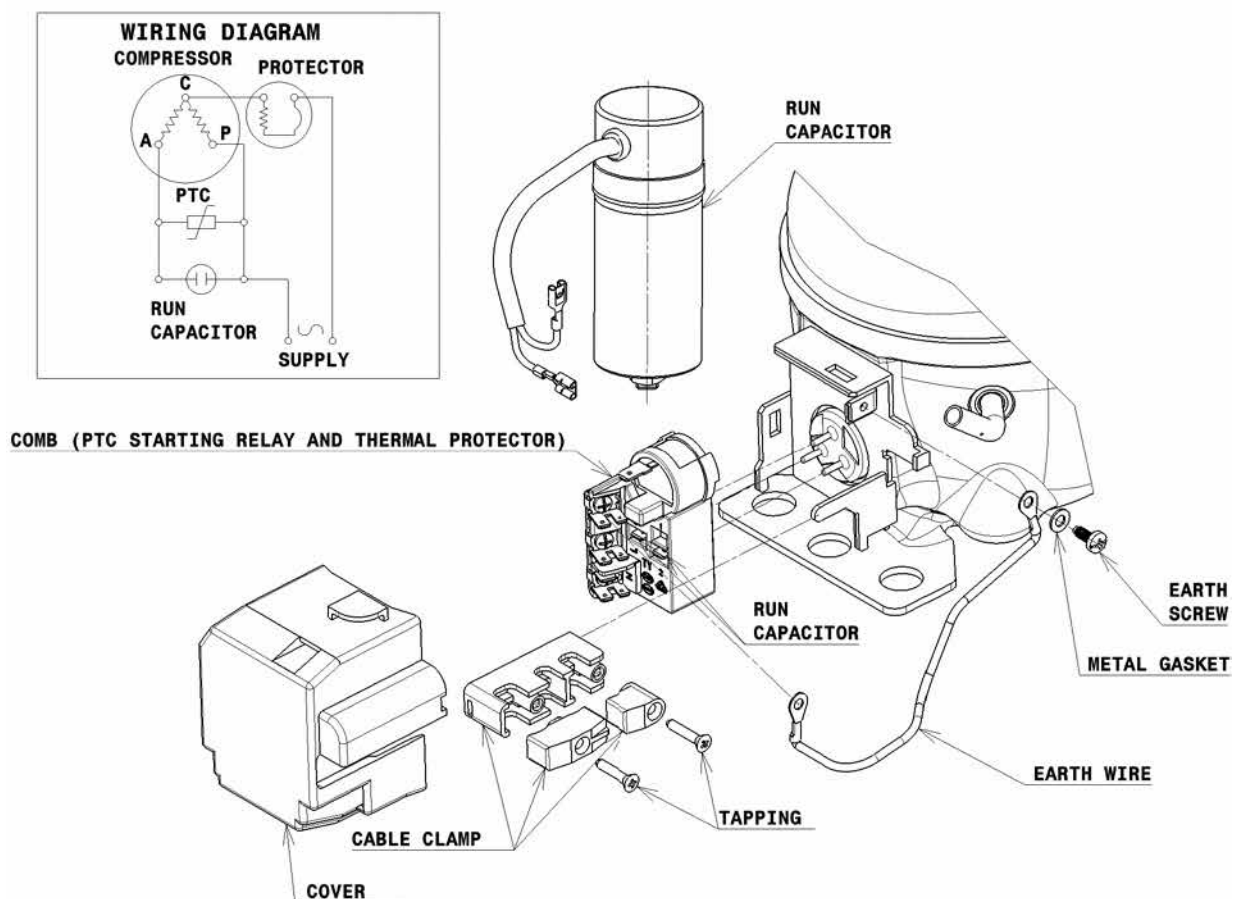
CSIR-RELAY (Small L, B, HL and HK ranges)



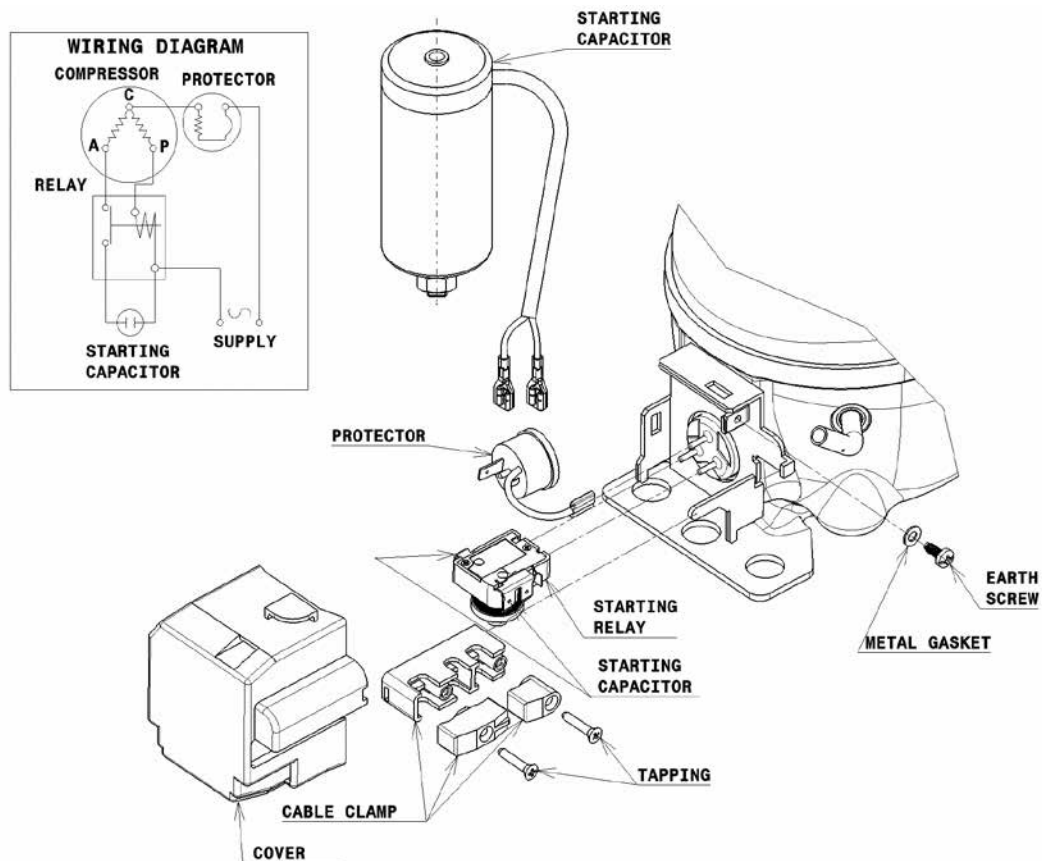
## RSIR - (F, HY, HYE, HYB, HYS, HFY and NUM)



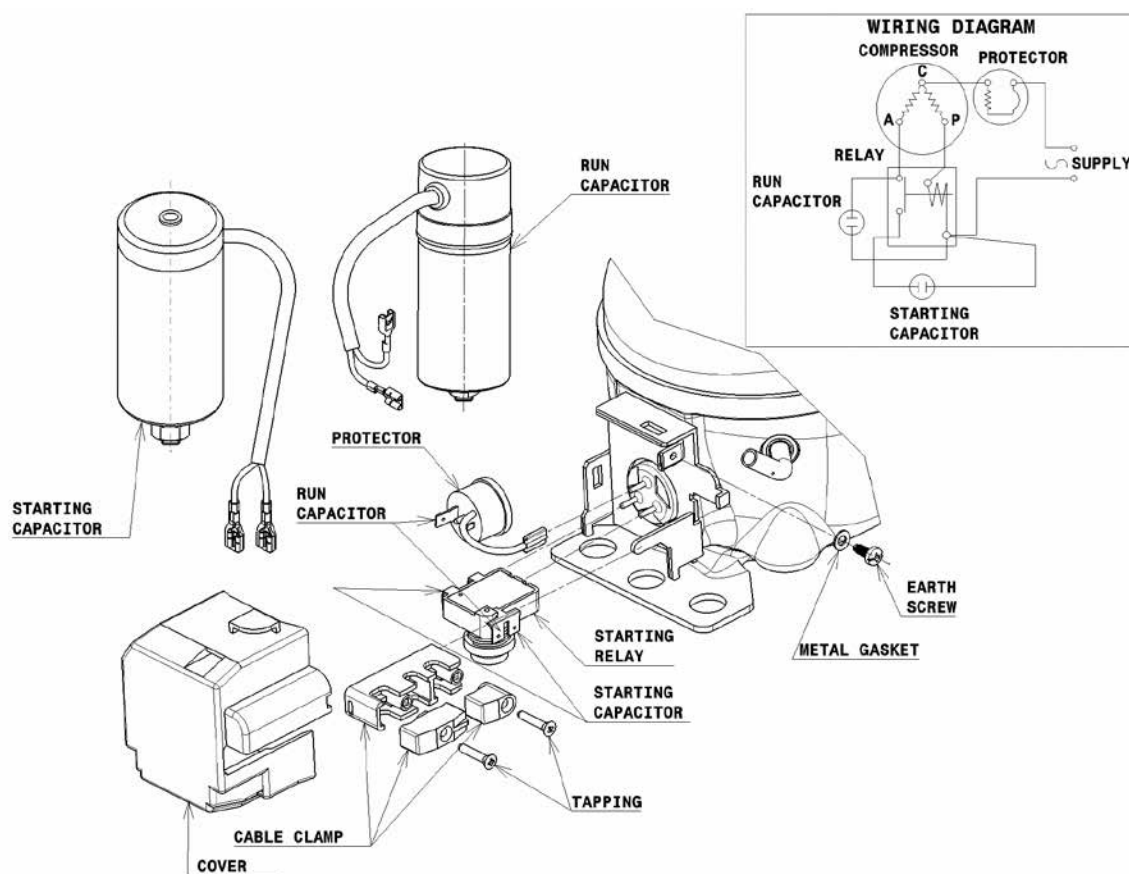
## RSCR - (F, HY, HYE, HYB, HYS, HFY and NUM)



## CSIR- RELAY (F, HY, HYE, HYB, HYS, HFY and NUM)

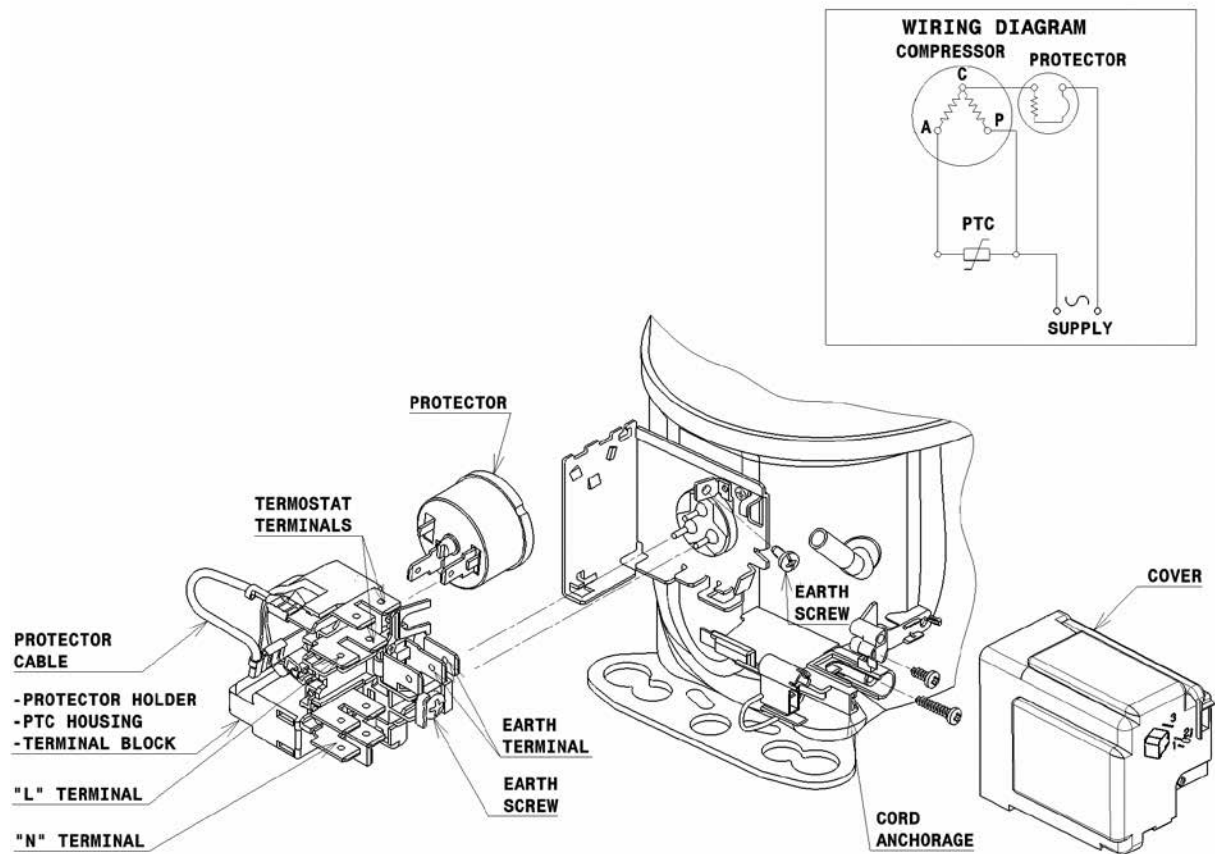


## CSR - RELAY (F, HY, HYE, HYB, HYS, HFY and NUM)

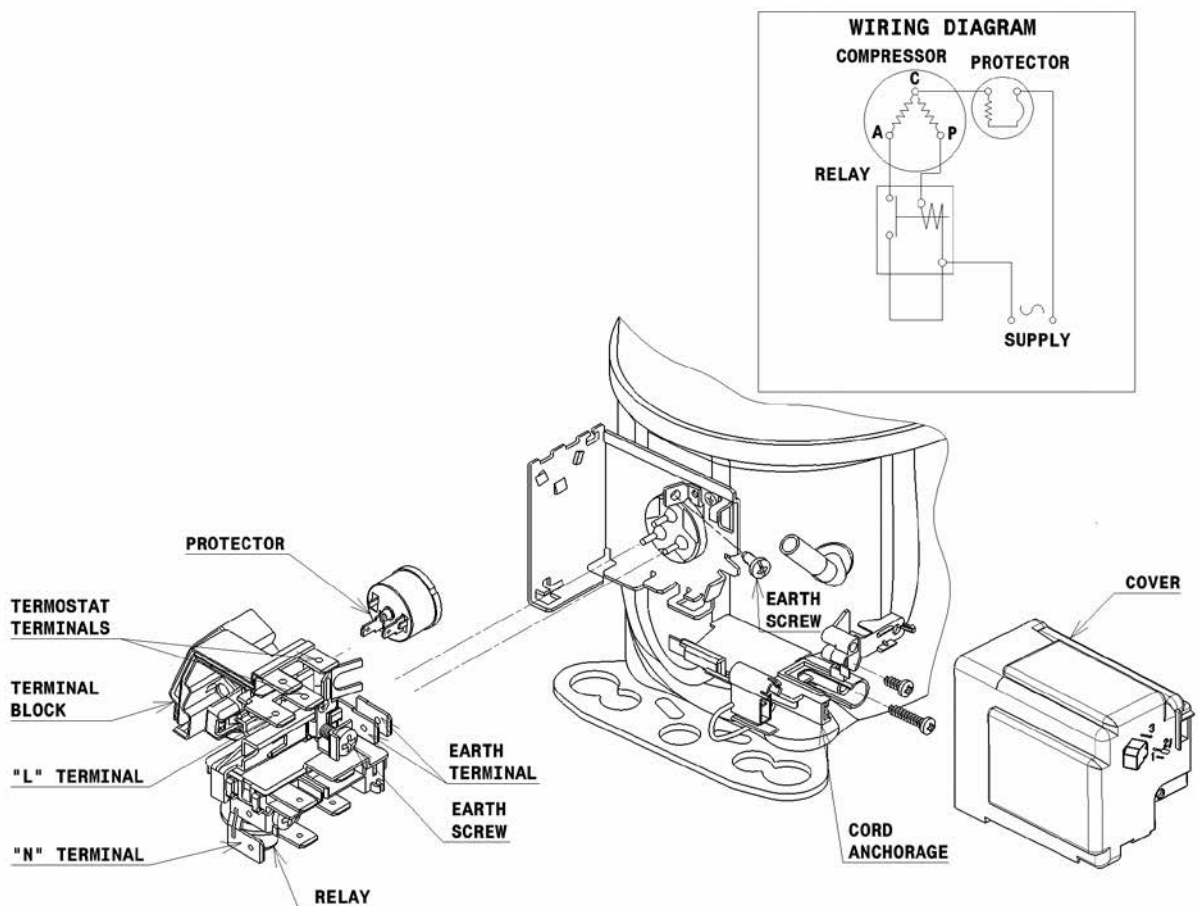




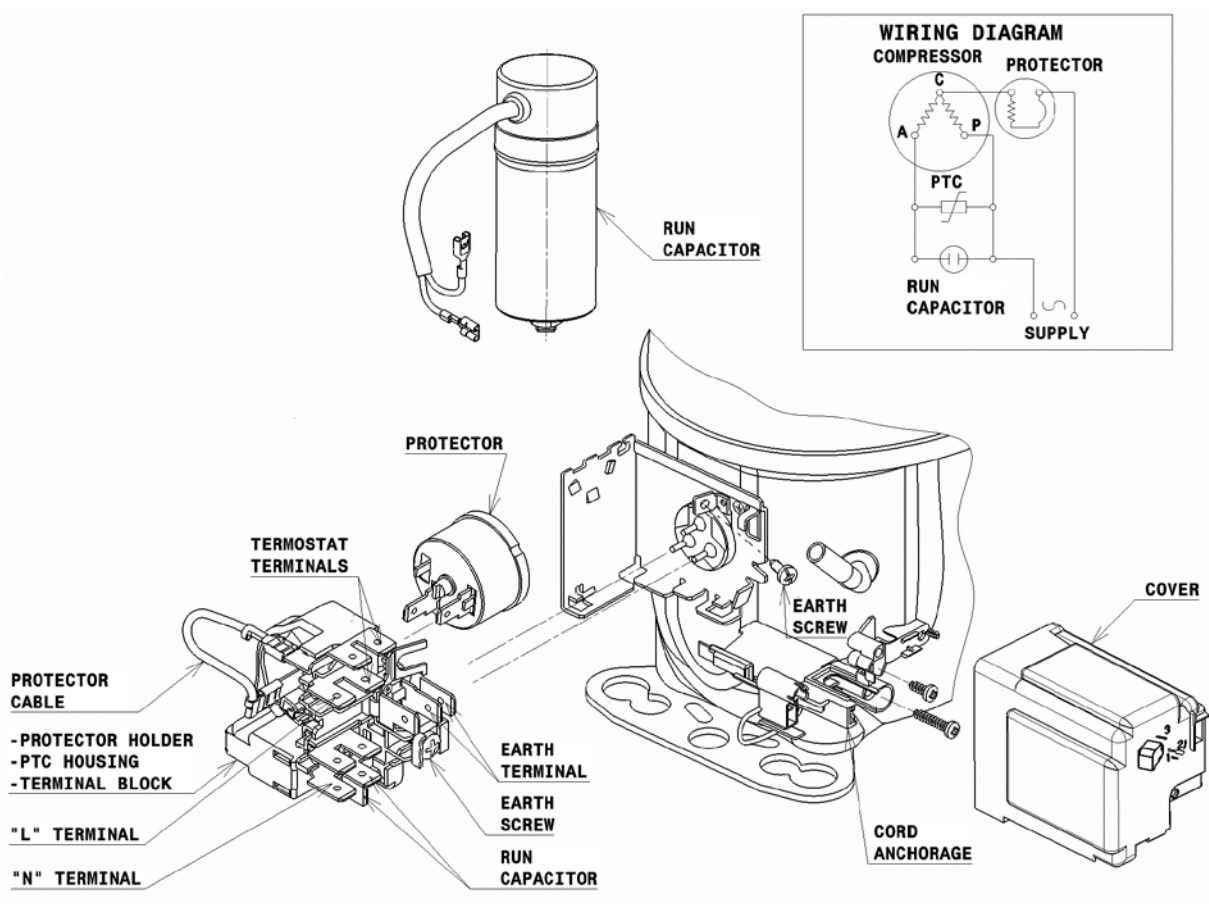
## RSIR-PTC (L, U, U+ ,P and P+ ranges)



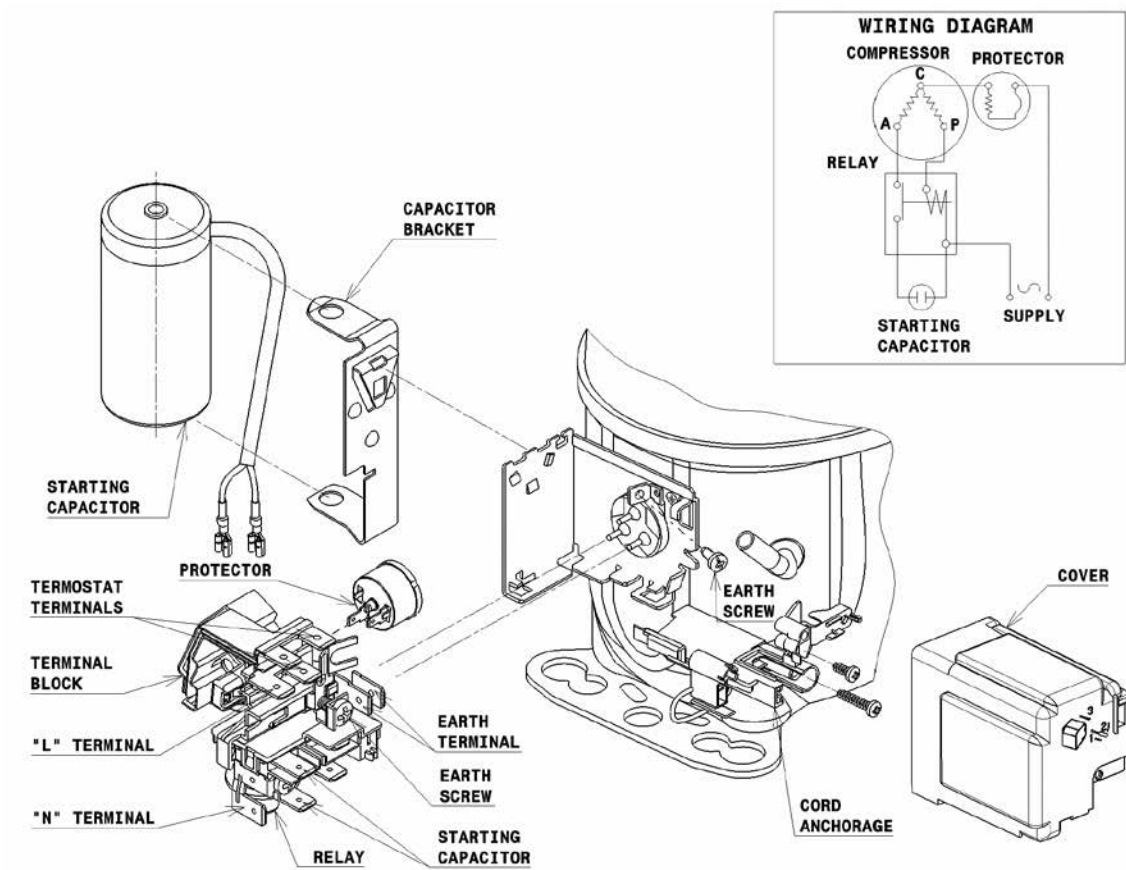
## RSIR-Relay (L, U, U+ ,P and P+ ranges)



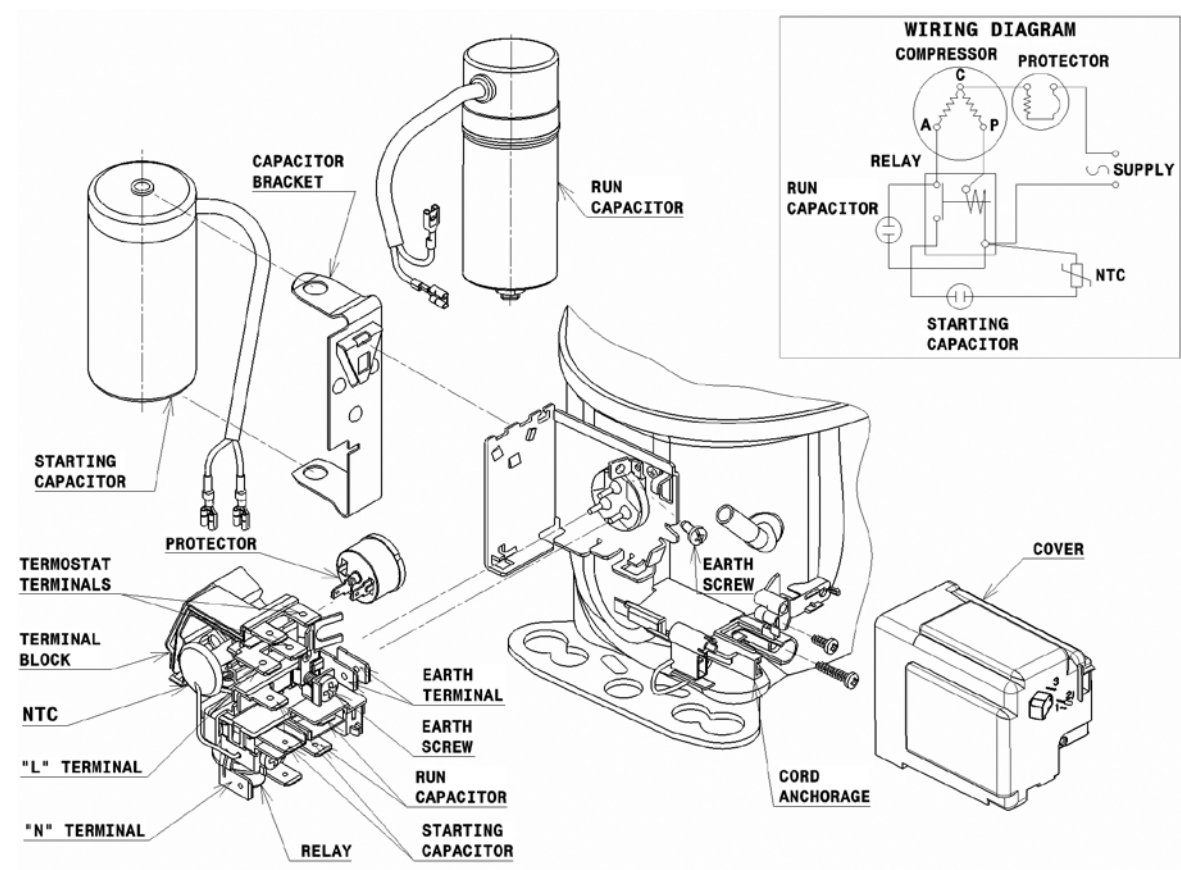
RSCR-PTC (L, U, U+, X+, P and P+ ranges)



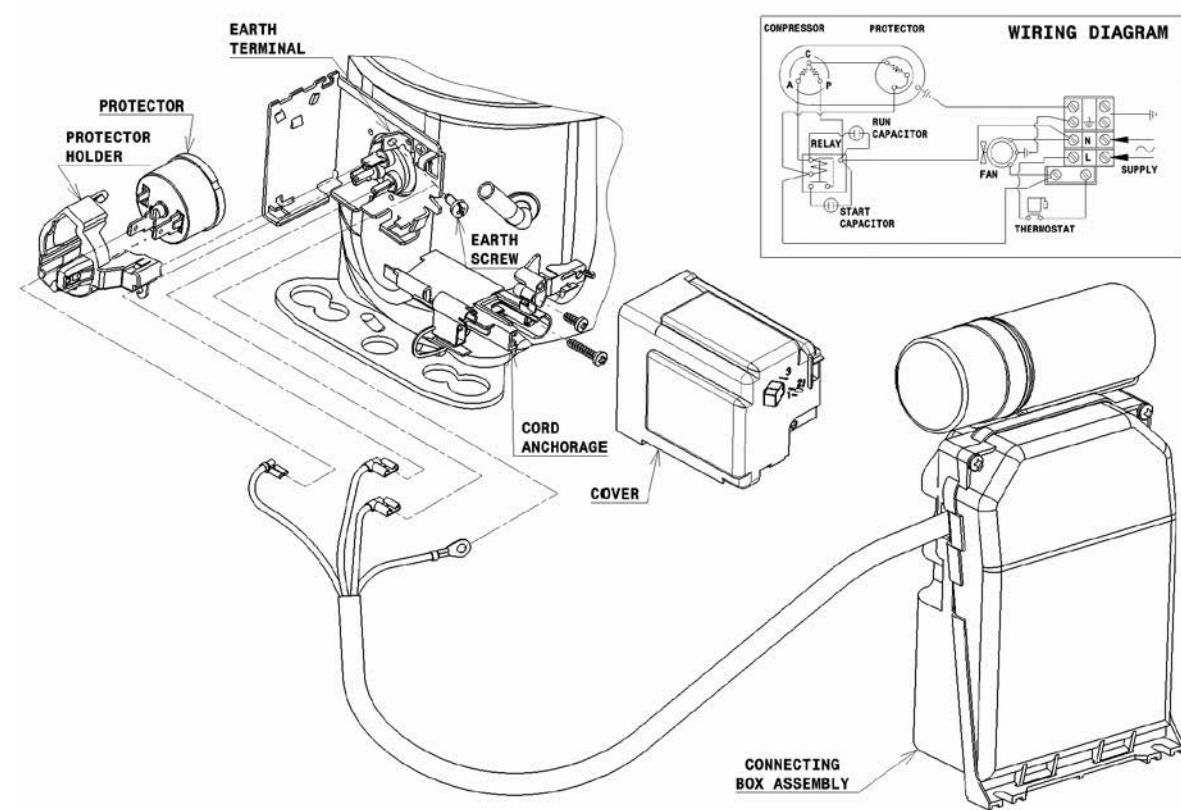
CSIR-RELAY (L, U, U+, X+, P and P+ ranges)



CSR-NTC-RELAY (L, U, U+, P, P+, X and X+ ranges)

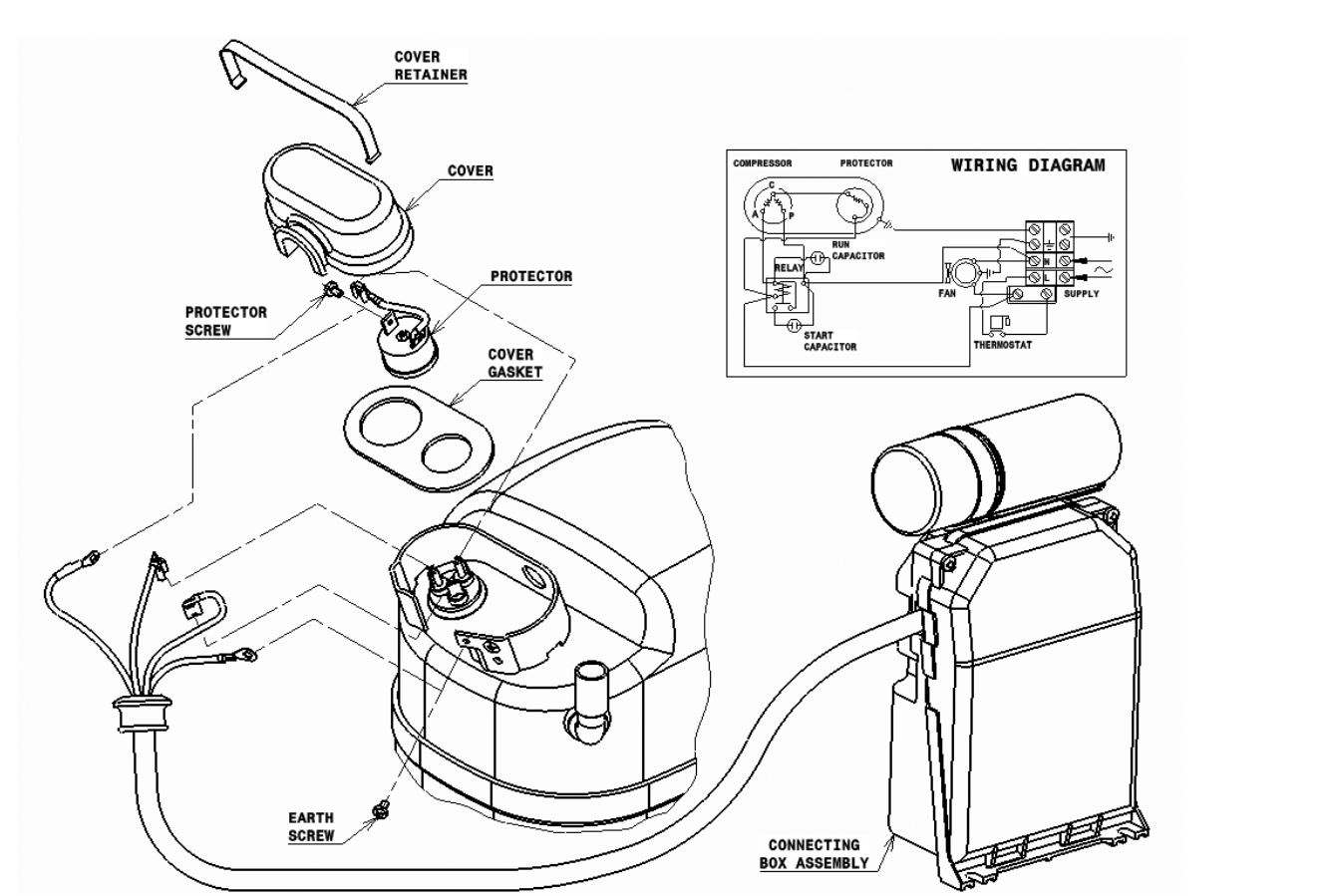


CSR-CAJA-RELAY (P, X and X+ range)

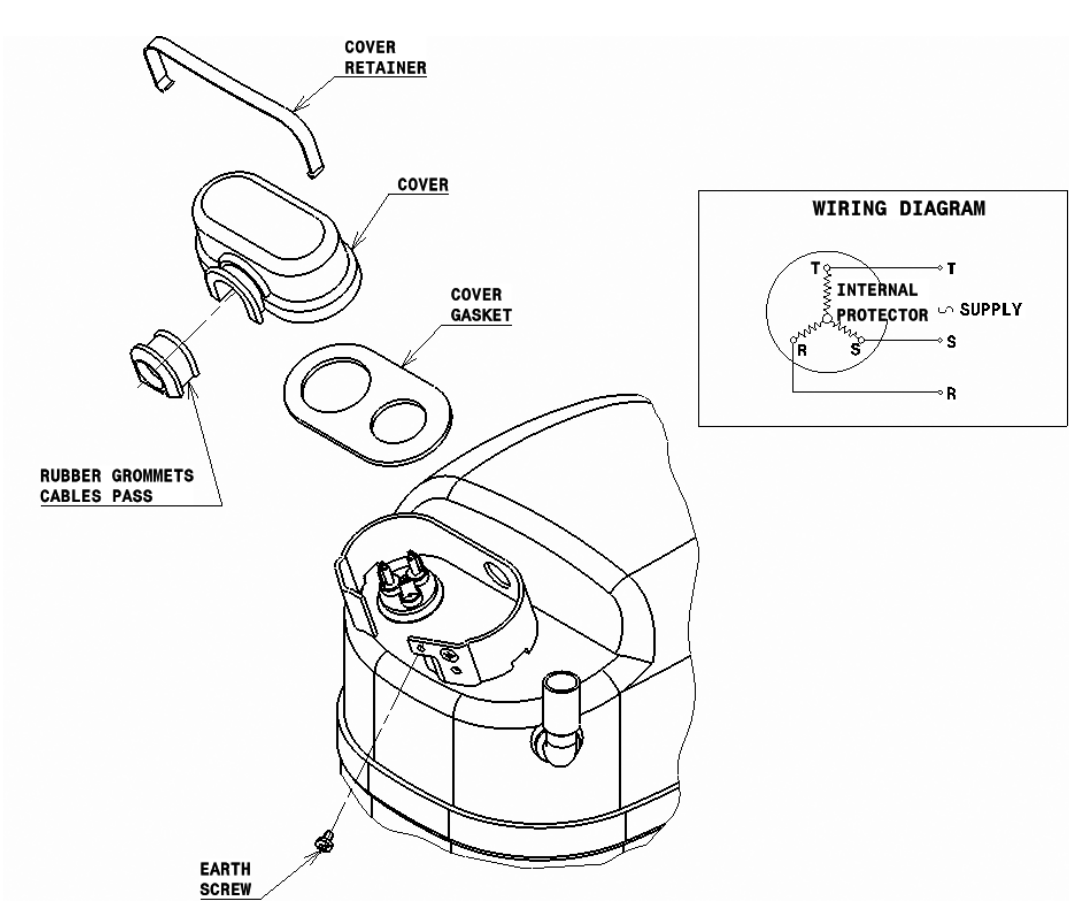




CSR-CAJA-RELAY (S range)



3PH (S range)



# Packaging & Logistics

## Single Box

| Range                 | Box dimensions (mm) |       |                     | Pallet dimensions (mm) |       |
|-----------------------|---------------------|-------|---------------------|------------------------|-------|
|                       | Length              | Width | Height              | Length                 | Width |
| Small L               | 257                 | 172   | 141/151             | 1010                   | 1010  |
| B / HL / HK           | 257                 | 172   | 151/166             | 1010                   | 1010  |
| HYS / HYB / HFY       | 250                 | 175   | 184                 | 1295                   | 985   |
| HYE                   | 302                 | 180   | 200/204/210         | 1295                   | 985   |
| HY                    | 300                 | 195   | 214                 | 1295                   | 1030  |
| U / F                 | 300                 | 192   | 180/198             | 1200                   | 1050  |
| U+                    | 300                 | 192   | 227                 | 1200                   | 1050  |
| L / P                 | 300                 | 192   | 180/198/209/227/235 | 1200                   | 1050  |
| X (w/ connecting box) | 320                 | 192   | 235                 | 1050                   | 1050  |
| X                     | 347                 | 207   | 242                 | 1050                   | 1050  |
| S                     | 340                 | 223   | 277/288             | 1010                   | 1010  |

## Tray

| Range                | Tray dimensions (mm) |       | Pallet dimensions (mm) |       |
|----------------------|----------------------|-------|------------------------|-------|
|                      | Length               | Width | Length                 | Width |
| Small L              | 1120                 | 815   | 1135                   | 830   |
| B / HL / HK          | 1120                 | 815   | 1135                   | 830   |
| HYS / HYE / HY / HFY | 1095                 | 796   | 1120                   | 820   |
| HYB                  | 1120                 | 815   | 1120                   | 820   |
| U / F / U+           | 1095                 | 796   | 1200                   | 800   |
| L / P                | 1060                 | 990   | 1050                   | 1050  |
| P+ / X               | 1050                 | 1020  | 1050                   | 1050  |
| S                    | 1050                 | 1050  | 1050                   | 1050  |

## Quantities by Pallet Compressors

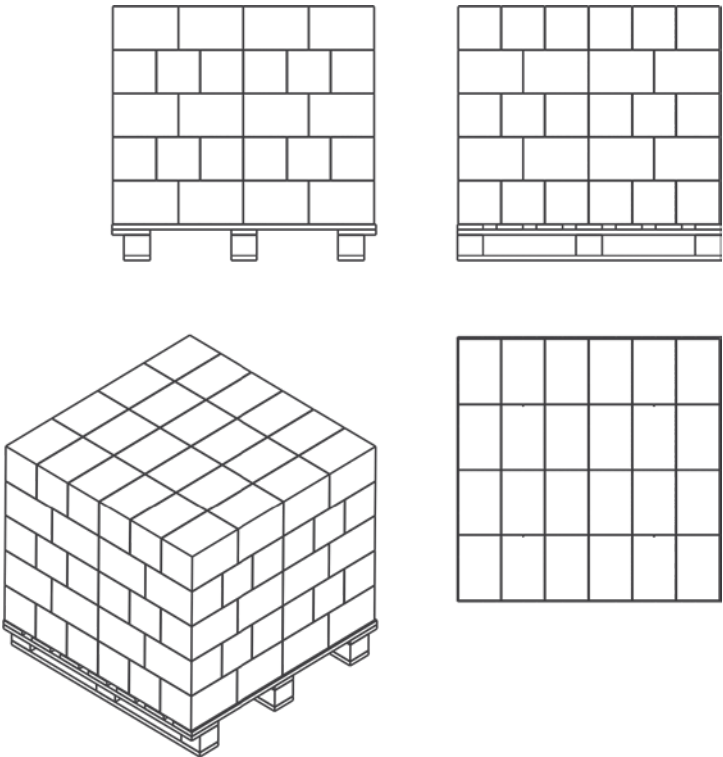
| Range                 | Tray        |           |              | Single Box  |            |              |
|-----------------------|-------------|-----------|--------------|-------------|------------|--------------|
|                       | Qty / Level | N° Levels | Qty / Pallet | Qty / Level | No. Levels | Qty / Pallet |
| Small L               | 25          | 6         | 150          | 24          | 5          | 120          |
| B / HL / HK           | 25          | 5         | 125          | 24          | 5          | 120          |
| HY / HYE              | 18          | 4         | 72           | 20          | 4          | 80           |
| HYB                   | 25          | 5         | 125          | 25          | 4          | 100          |
| HYS / HFY             | 18          | 4         | 72           | 25          | 4          | 100          |
| U / F                 | 18          | 5         | 90           | 20          | 5          | 100          |
| U+                    | 18          | 5         | 90           | 20          | 5          | 100          |
| L                     | 24          | 5         | 120          | 20          | 5          | 100          |
| P                     | 24          | 5         | 120          | 20          | 5          | 100          |
| P+ / X                | 17          | 4         | 68           | 16          | 4          | 64           |
| X (w/ connecting box) | 17          | 4         | 68           | 15          | 4          | 60           |
| S                     | 21          | 2         | 42           | 13          | 4          | 52           |

Pallet Product Layout

Single Box Pallet Distribution

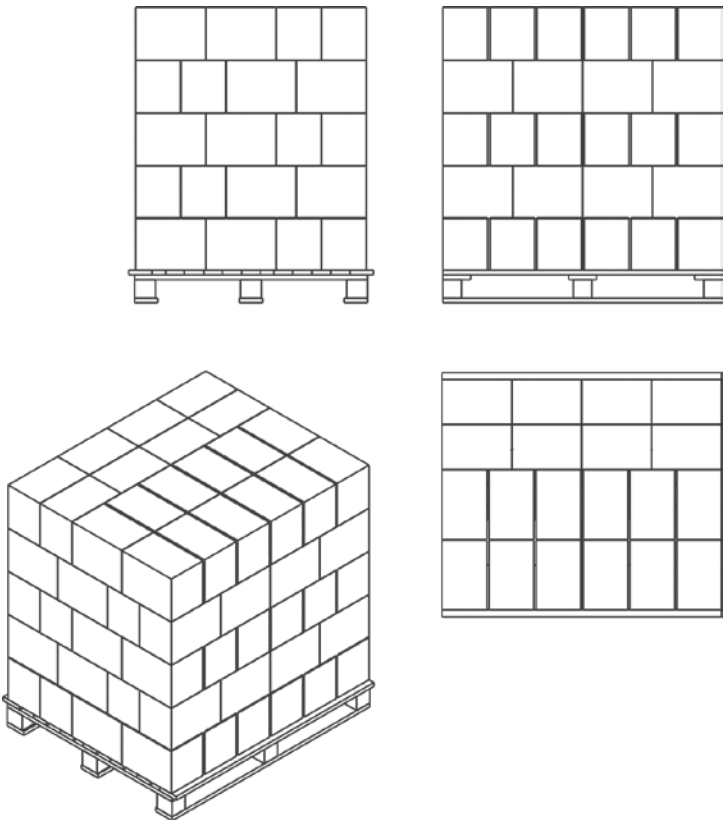
Small L , B , HL & HK

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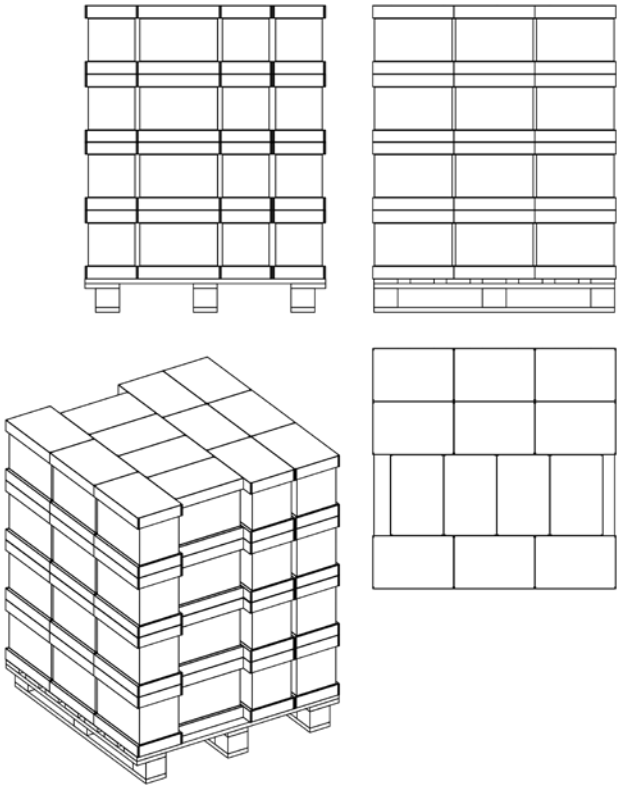


F, U+, L & P Ranges

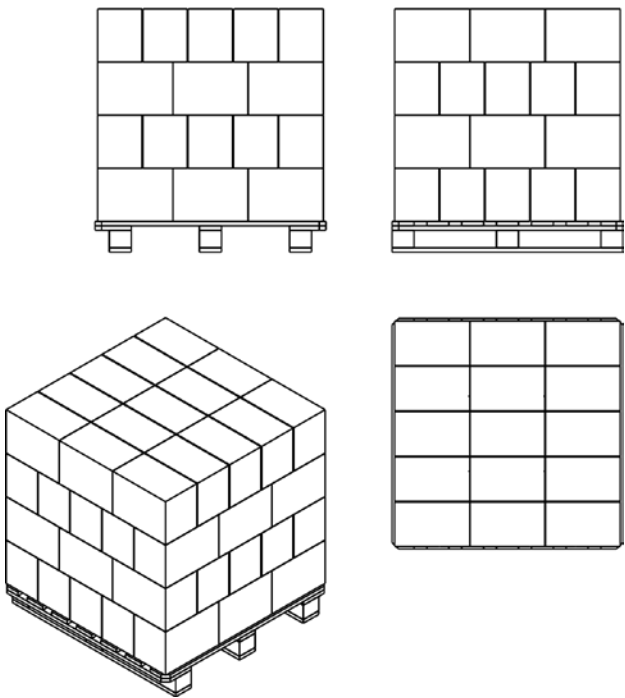
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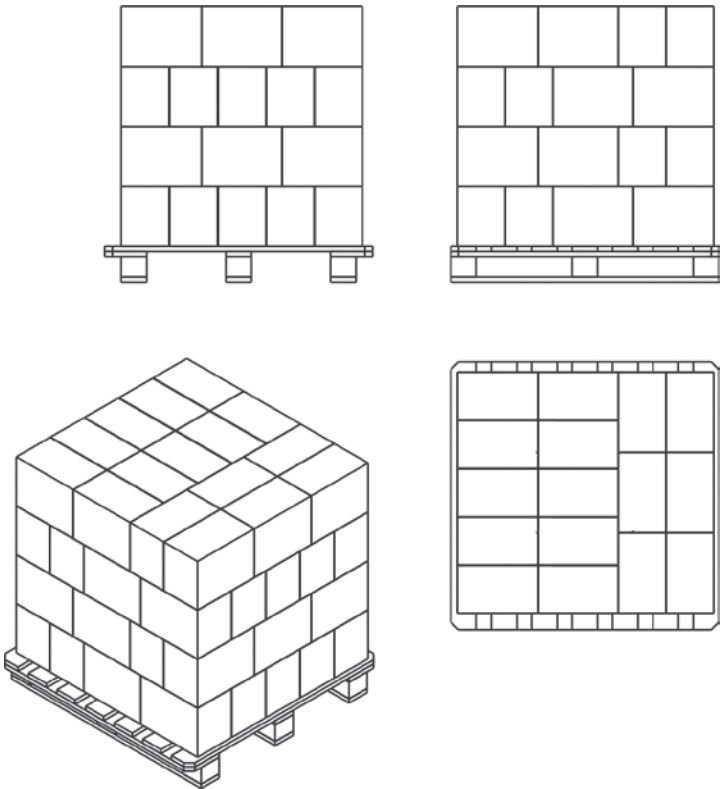
S Range



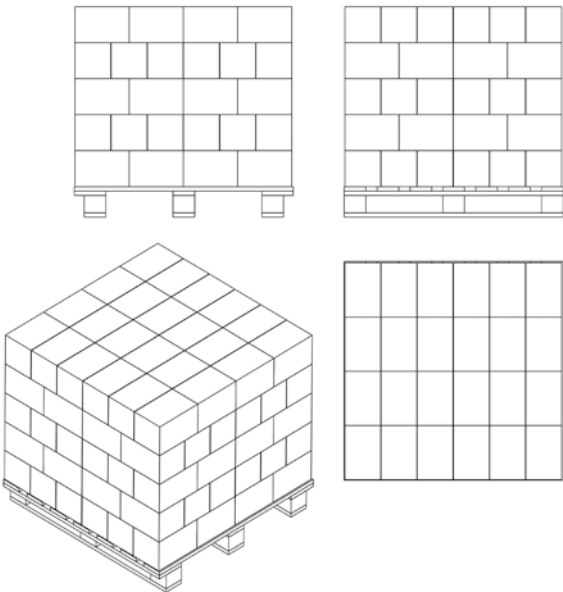
X Range (con caja conex.)



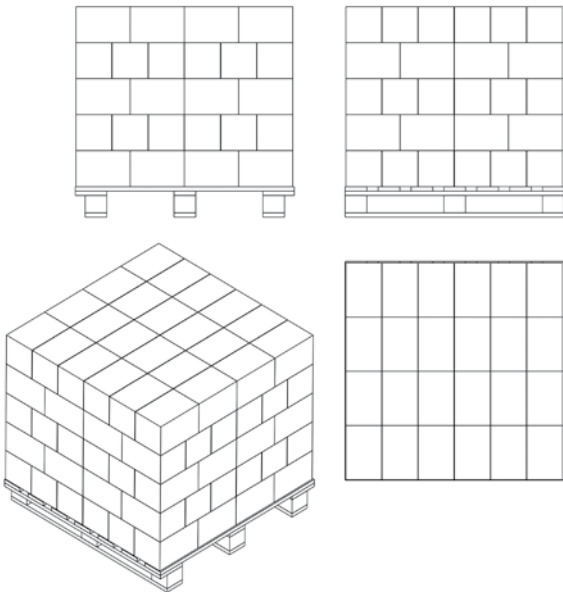
P+ & X Range (without external box)



Single box pallet distribution HY & HYE

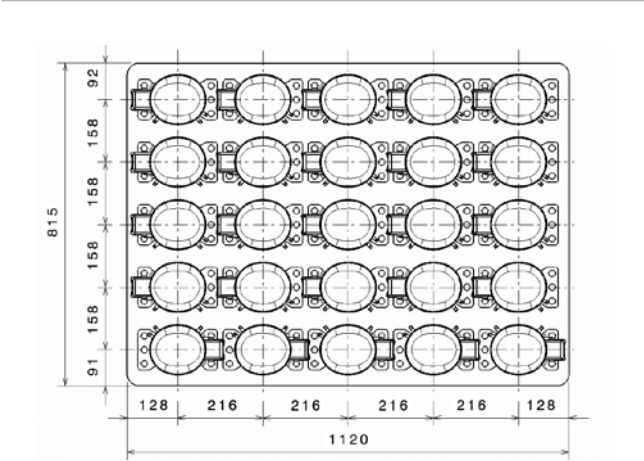


Single box pallet distribution HYB, HYS & HFY

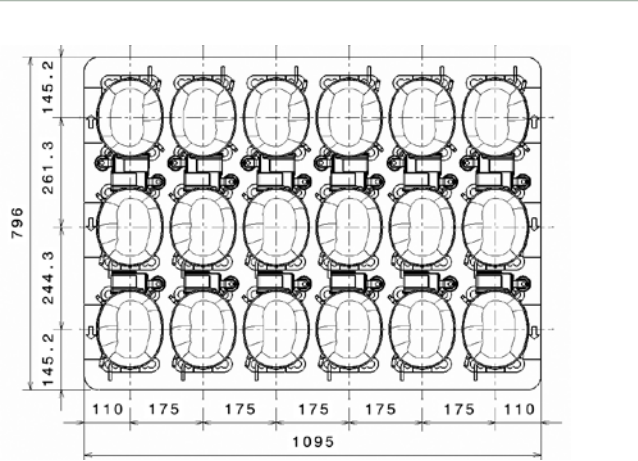


Tray per Pallet

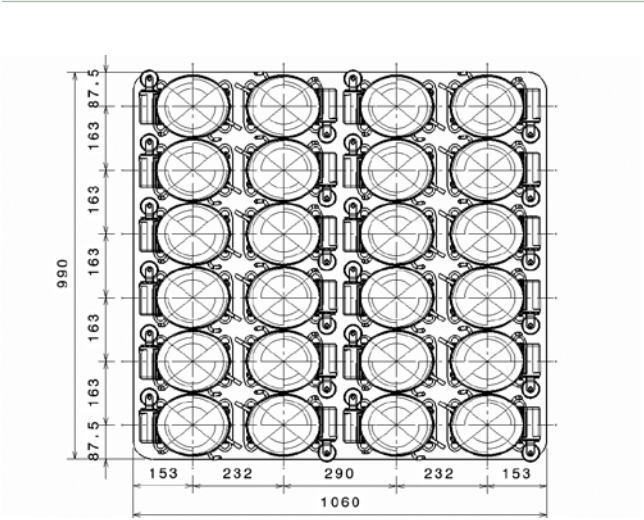
Small L, B, HL, HYB & HK



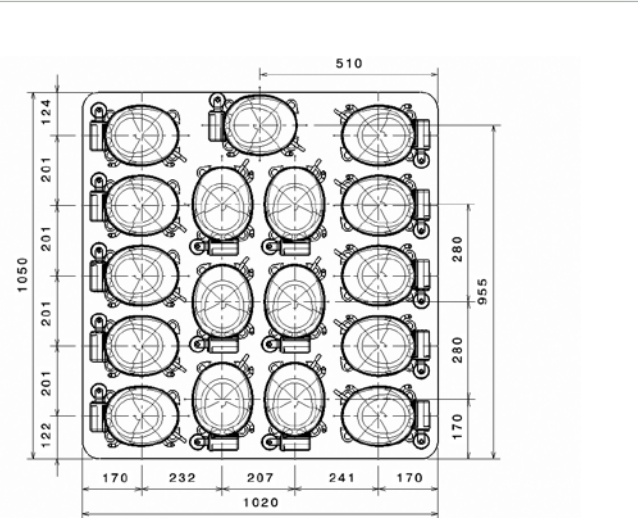
HYS, HYE, HY, HFY, U & U+



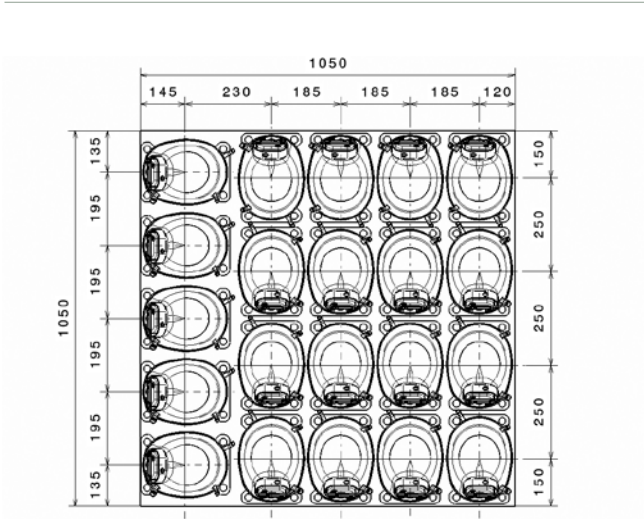
L & P



X



S



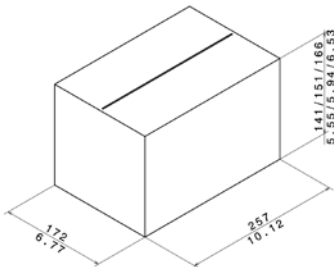
Pallet label

|                                                                                                                        |                                                                                                             |                                                                                   |
|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| Receiver<br><b>CUSTOMER</b>                                                                                            | Customer<br><b>00000</b>                                                                                    | Customer part number<br><b>00000000-000</b>                                       |
| Work Order<br><b>00000</b>                                                                                             | Supplier name<br><b>HUAYI COMPRESSOR</b>                                                                    |                                                                                   |
| Part Name(P)<br><b>0000000</b><br>  |                                                                                                             | <b>0000</b><br><b>A00 / MUELLE</b><br><b>000000</b><br><b>DD.MM.YYYY 00:00:00</b> |
| Quantity(Q)<br><b>00,000 UN</b><br> | Description<br><b>COMPRESSOR MODEL</b>                                                                      |                                                                                   |
| Supplier ID(V)                                                                                                         | Date<br><b>DD/MM/YYYY</b>                                                                                   | Drawing number                                                                    |
| Pallet number<br><b>0000000000</b>                                                                                     | Part number barcode<br> |                                                                                   |

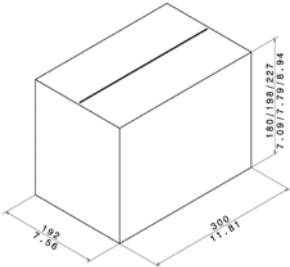


Single Boxes Drawings

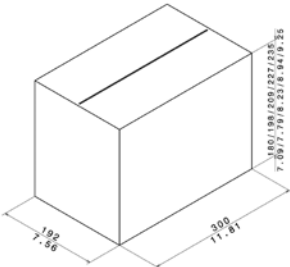
Small L, B, HL & HK



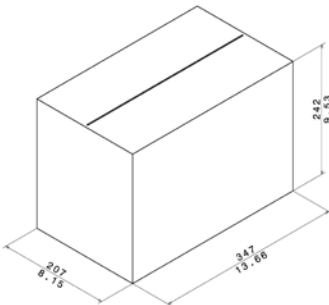
U & U+



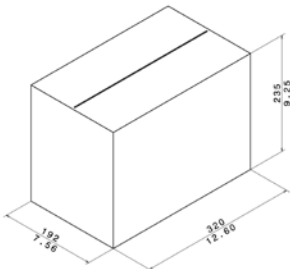
L & P Ranges



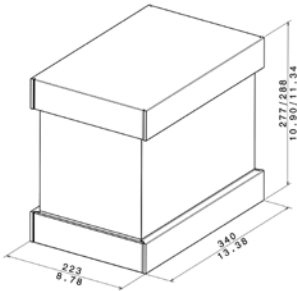
X with electric box



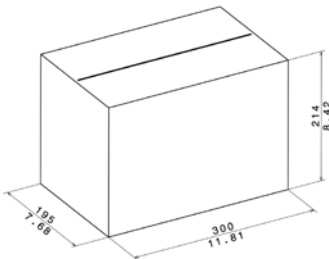
X without electric box



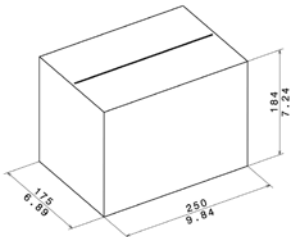
S Range



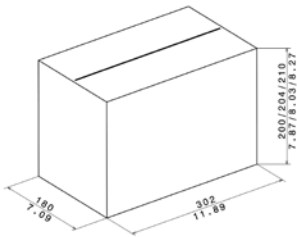
HY



HYB, HYS & HFY



HYE











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