



# GENERAL CATALOGUE

Compressors



for Commercial Refrigeration  
R134a · R404A · R507 · R600a · R290 · R1234yf



HUAYI  
COMPRESSOR  
BARCELONA





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**

Leading manufacturer  
of compressors





## **Huayi Compressor Barcelona**

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

# More than 50 years

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



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# General Information



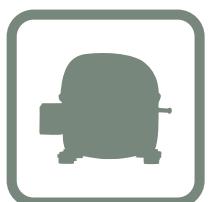
Research and Development



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 400W for refrigerators, water dispensers and dehumidifiers, among other household appliances.

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

## **Huayi Compressor Barcelona, S.L.**

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 50 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 2.2 to 38cc, 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:**

2.20 to 3.10 cc

**Refrigerants:**

R134a, R600a

**Applications:**

Small refrigerators and freezers

## B range

**Features:**

More displacement, more efficient, compactness

**Range:**

2.20 to 6.50 cc

**Refrigerants:**

R134a, R600a, R290

**Applications:**

Water coolers, can / bottle coolers, small refrigerator and freezers



## U range

**Features:**

The most efficient, Compact size, Extremely silent, Green Cooling

**Range:**

4.50 to 8.90 cc

**Refrigerants:**

R134a, R290, R600a, R1234yf

**Applications:**

Ice Cream Freezers, Bottle Coolers, Chest coolers, Freezers, Refrigerated display counters, Display cabinets



## L range

**Features:**

The highest efficient range with propane (R290) & isobutene (R600a)

**Range:**

4.56 to 10.7 cc

**Refrigerants:**

R134a, R404A, R452A, R600a, R290, R507, R1234yf

**Applications:**

Household Refrigerators, Bottle Coolers and Freezers, Can Coolers, Chest Freezers, Vending Machines, Ice Cream Freezers, Beer Dispensers, Ice Makers, Soft Drink Dispensers, Heat Pumps Systems



# P range

**Features:**

High Efficiency versions  
The highest efficient range with propane (R290) & isobutene (R600a)

**Range:**

12.10 to 18.00 cc

**Refrigerants:**

R134a, R404A, R452A, R600a, R290, R507, R1234yf

**Applications:**

Household Refrigerators, Bottle Coolers and Freezers, Can Coolers, Chest Freezers, Vending Machines, Ice Cream Freezers, Beer Dispensers, Ice Makers, Soft Drink Dispensers

# X range

**Features:**

High reliability & efficiency. New design to work under heavy duty operation conditions

**Range:**

16.03 to 23.20 cc

**Refrigerants:**

R134a, R404A, R452A, R290, R407C, R507, R1234yf

**Applications:**

Large Freezers (vertical and chest), Blast Freezers, Ice Makers, Vending Machines, Display Cabinets, Display Islands, Soft Drink Dispensers

# S range

**Features:**

Top capacity range, Optimized design to reduce vibration

**Range:**

18.10 to 38 cc

**Refrigerants:**

R290, R134a, R404A, R452A, R407C, R507, R1234yf, R290

**Applications:**

Large Freezers (vertical and chest), Soft drinks dispensers, Blast Freezers, Air Dryers, Ice Makers, Air Conditioning, Vending Machines, Heat Pumps, Display Cabinets and Islands

# CONDENSING UNITS

**Features:**

Complete range of Condensing Units from 2.20 to 34.42 cc

High reliability & top-quality components

Specific customized versions

Designed to work under 43° C tropical conditions

**Refrigerants:**

R134a, R404A, R290, R407C, R507, R1234yf

**Applications:**

Suitable for all applications



# 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 10% to 15% 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 50%.

Using Smart Speed® software 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.

Variable  
Speed  
Compressors



### Features:

High Efficiency, Flexible Speed Drive

Drop-in Configuration

External Controlling

200-240 V / 50-60Hz

### Models:

GLT99FSN, NPT12FSC, NLT60FSN, NVT70FSC

### Refrigerant:

R290, R134a





## DC Compressors for mobile applications

The Cubigel Compressors mobile cooling solutions for transportation vehicles are designed to operate from a 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.

The GLT80TDC 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.

The GLT80TDC is designed to operate from a low voltage DC power supply to operate silently, efficiently and reliably even up to angles of tilt of 30° / 20° respectively, working with refrigerant R134a.

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

DC  
Compressors  
Range



### Features:

DC compressors for mobile applications, exceptionally silent  
Ready to work under heavy duty operating conditions

24-42V DC

### Models:

GLT80TDC.

### Refrigerant:

R134a

# 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 2.2 to 38 cc
- High reliability & top-quality components
- High Efficiency version available
- Specific customized range
- Designed to work under 43°C
- Suitable for all refrigerants & applications

Condensing  
Units

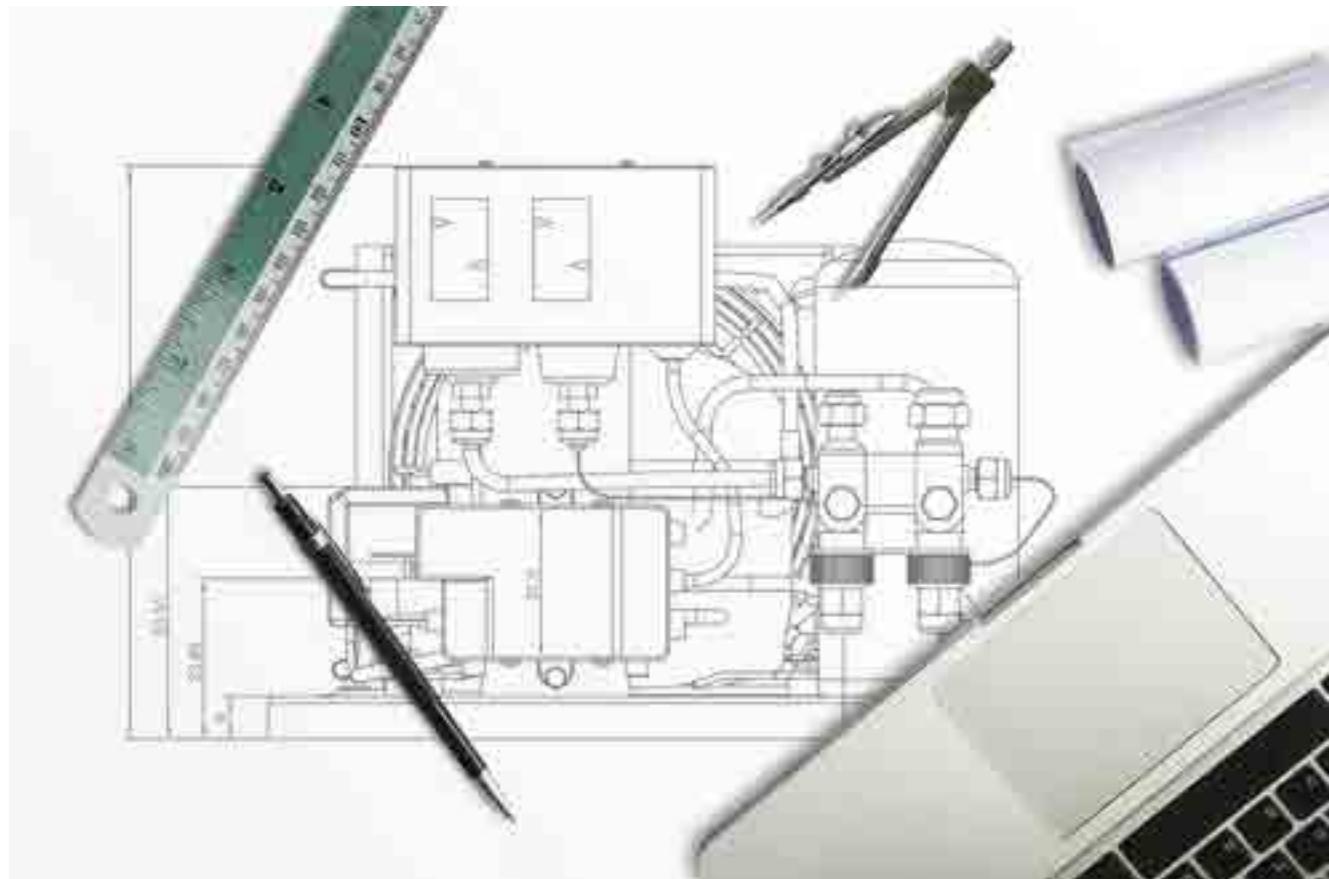


### Main specific components

- 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



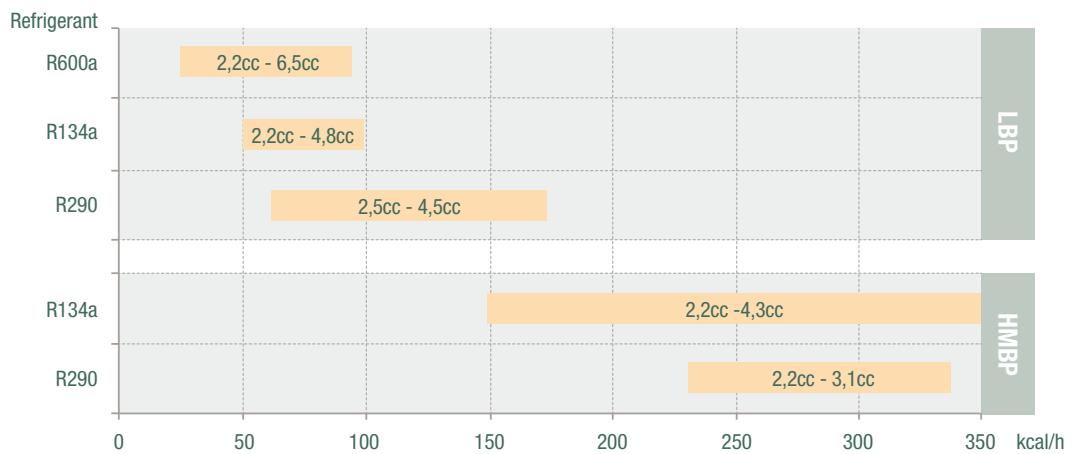


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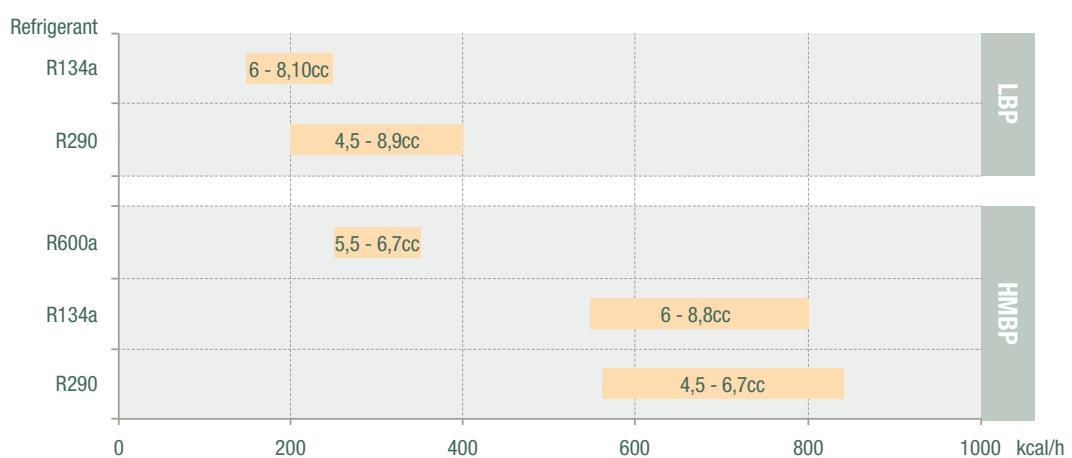
## Compressor Information

# Compressors ranges by Cooling Capacity

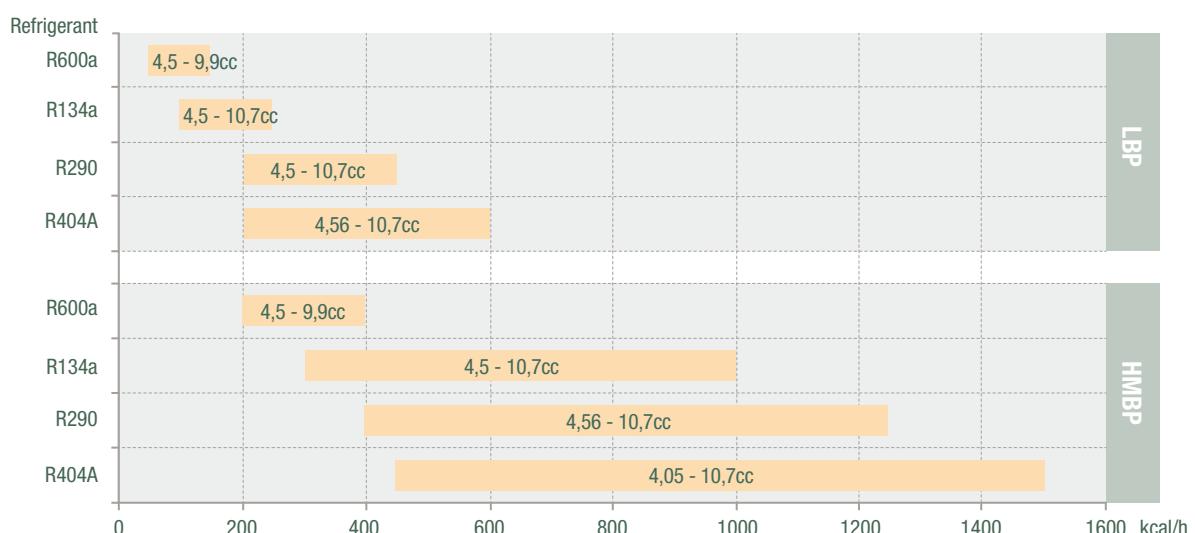
## Compressors Ranges Small L & B



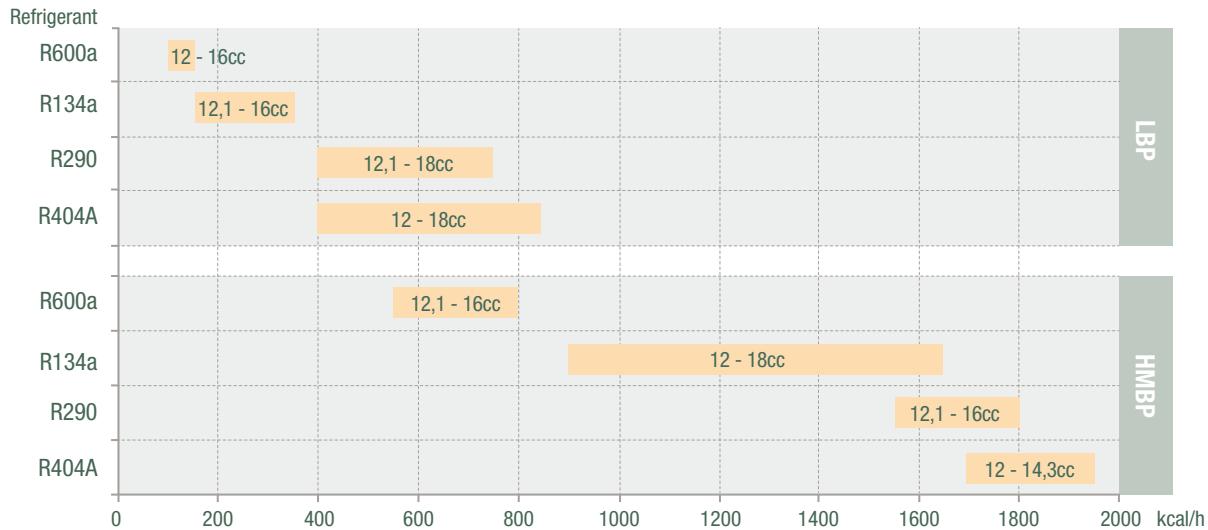
## Compressors Ranges U



## Compressors Ranges L

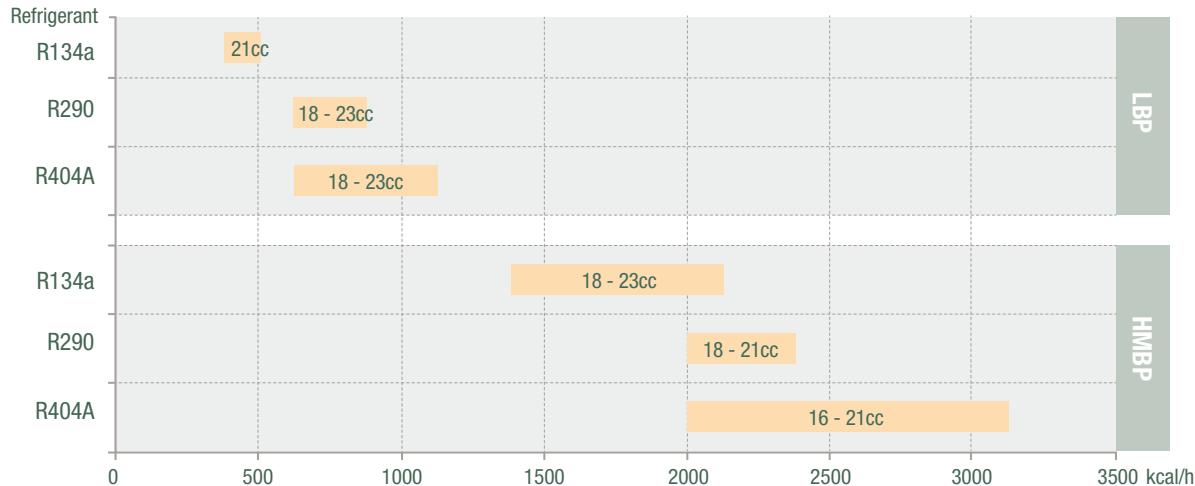


## Compressors Ranges P

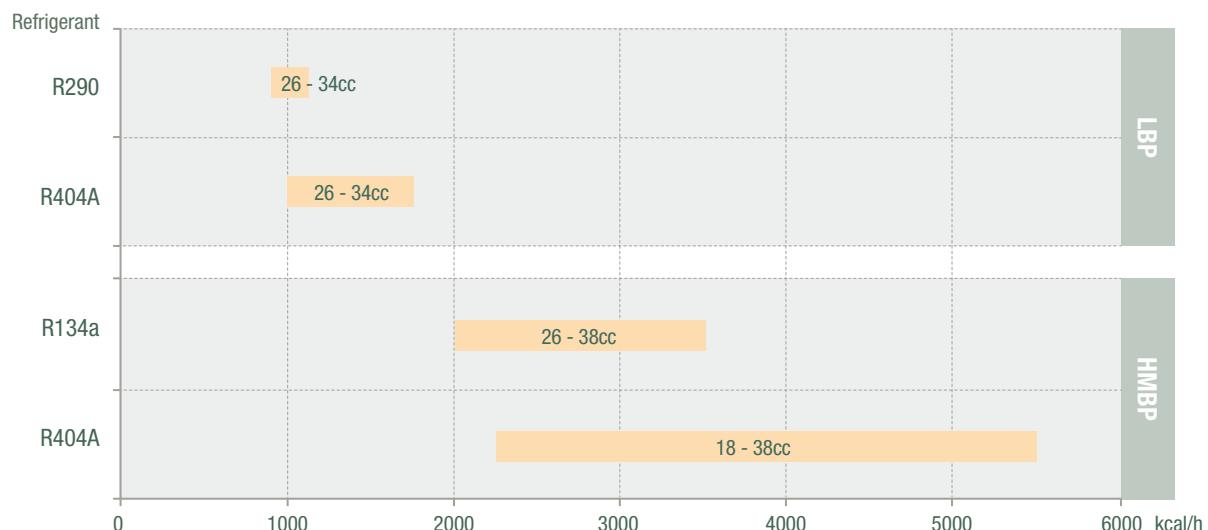


Compressor Information

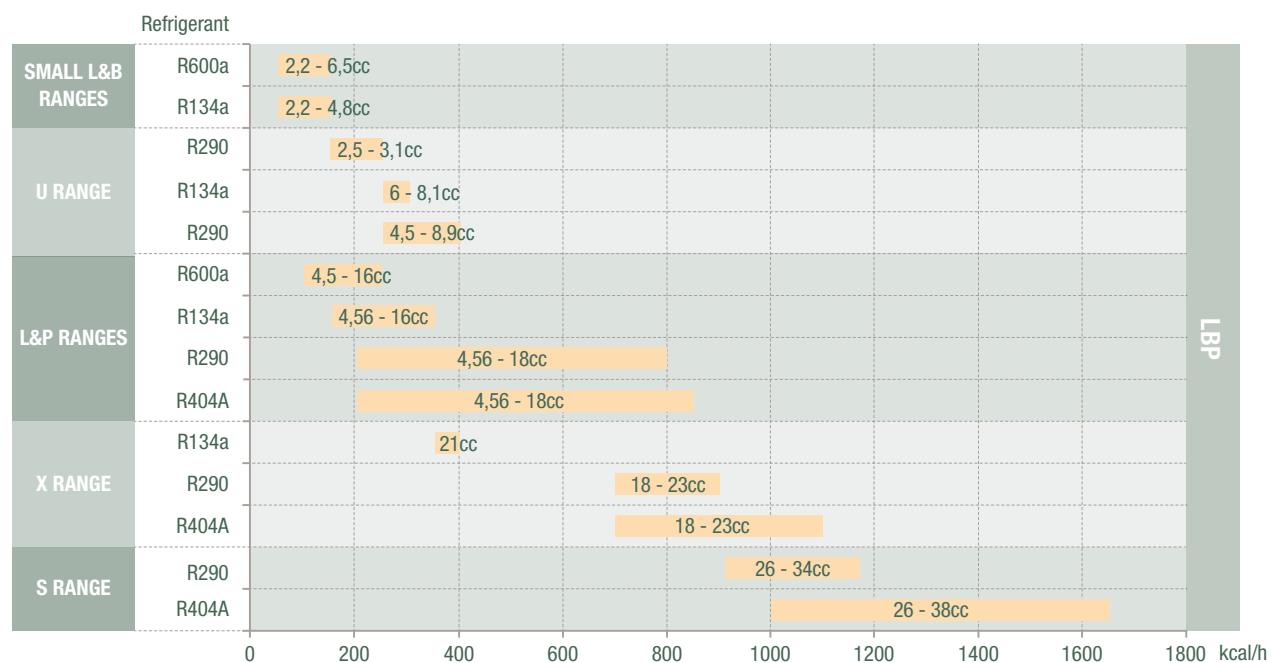
## Compressors Ranges X



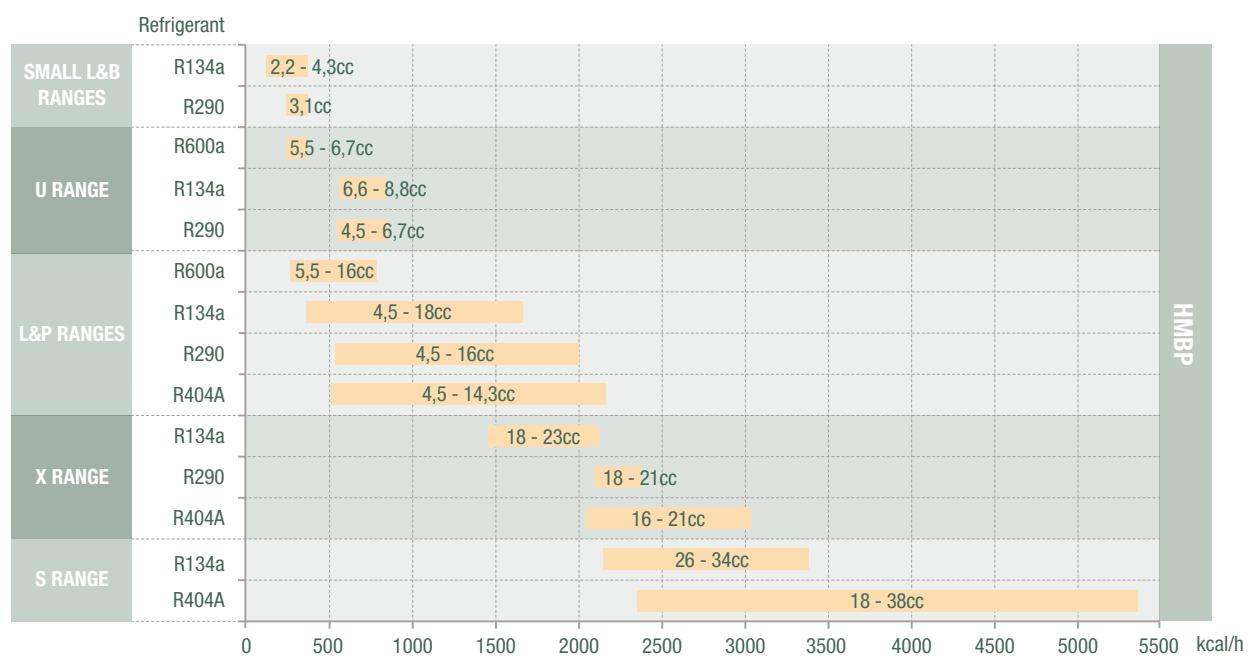
## Compressors Ranges S



## Compressors Ranges LBP

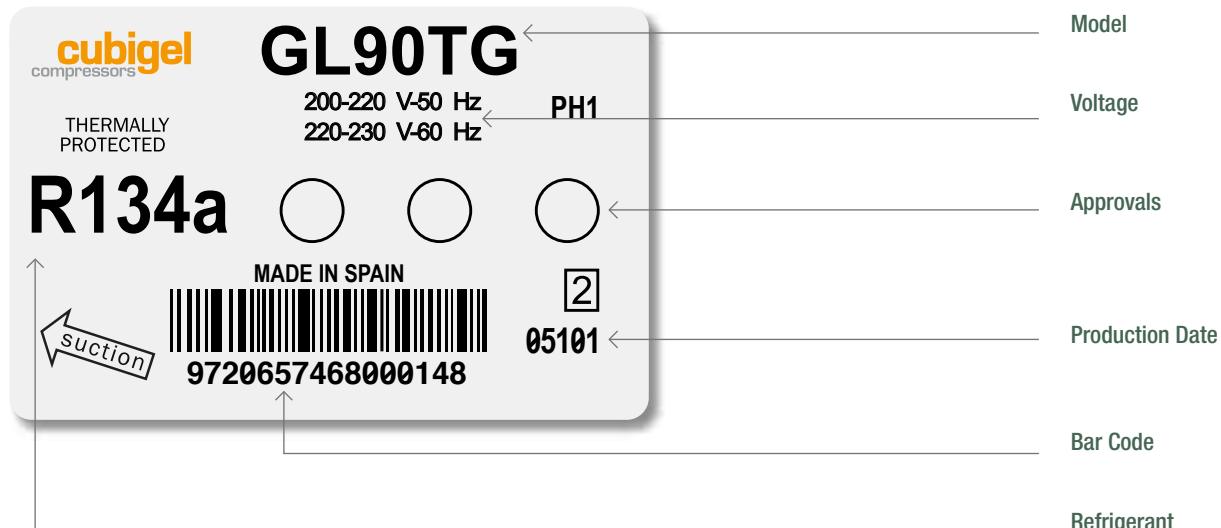


## Compressors Ranges HMBP

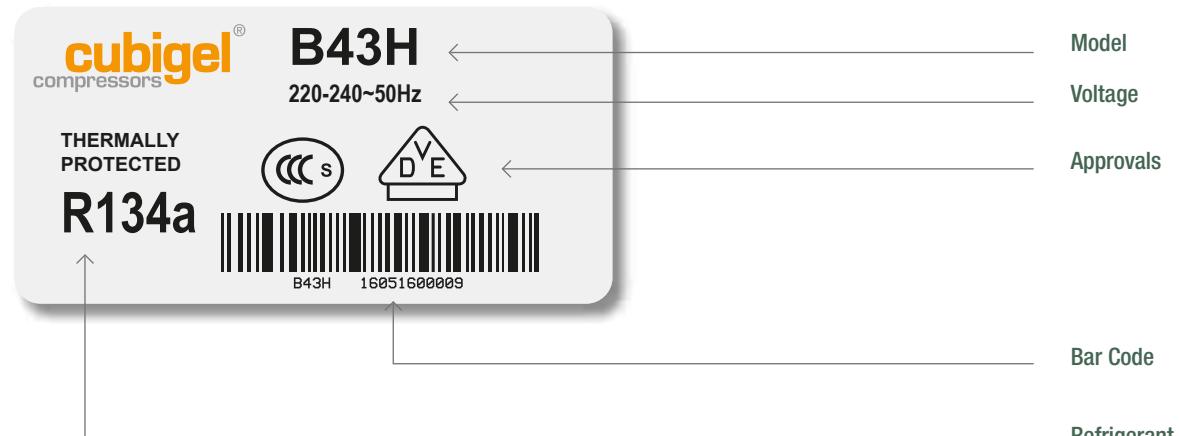


# Labels and Approvals

For U, L, P, X, S



For Small L & B



Approvals



Directive compliance declarations



Flammable gases



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

model

G	L	Y	60	R	A	a
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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 - 8.9cm<sup>3</sup>    **P** = 12.0 - 18.0cm<sup>3</sup>    **S** = 18.0 - 38.0cm<sup>3</sup>

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

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

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 /
<b>D</b> = 115V 60Hz	220-230V 60Hz
<b>E</b> = 115V 60Hz (standard efficiency)	<b>R</b> = 115-127V 60Hz
<b>F</b> = 208-230V 60Hz	<b>3</b> = 3 phase 400-440V 50/60Hz

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).

# Nomenclature Small L & B Ranges

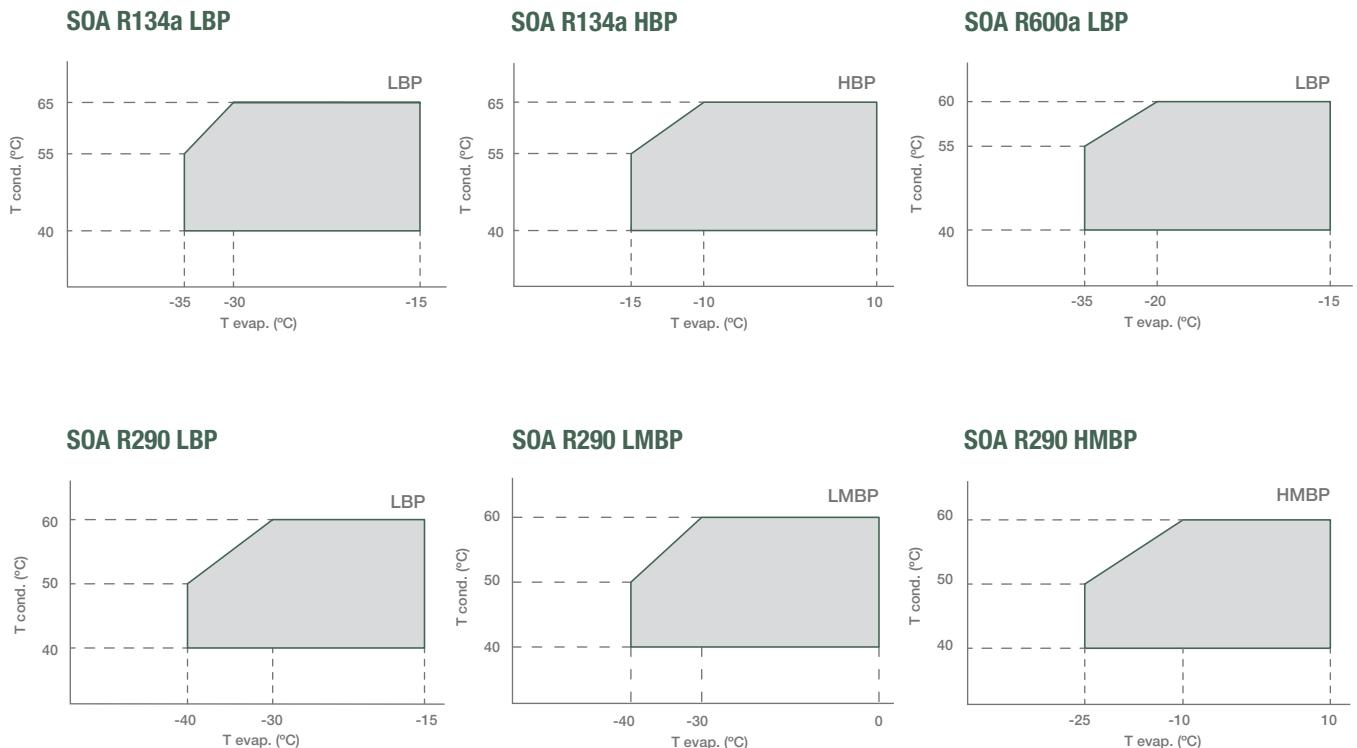
model						
B	35	C	5		B	
Range:						
L --> Small L range						
B --> B range						
Displacement x10:						
22 - 2.2cc						
25 - 2.5cc						
30 - 3.0cc						
Refrigerant & application:						
H = R134a LBP						
G = R134a HBP						
C = R600a LBP						
M = R600a HBP						
Voltage & Frequency:						
Blank = 220-240V 50Hz and 220-240V 60 Hz						
0 = 100V 50/60Hz						
5 = 115V 60Hz						
7 = 127V 60Hz						
Efficiency level:						
Blank = Standard Efficiency						
B = High Efficiency						
A = Very High Efficiency						
S = Top efficiency						

model						
N	B	C	30	R	A	
R290 Models						
Range:						
L --> Small L range						
B --> B range						
C --> Without Running Capacitor						
G --> With Running Capacitor						
Displacement x10:						
22 - 2.2cc						
25 - 2.5cc						
30 - 3.0cc						
Refrigerant & application:						
For R290 (Propane) Models:						
C = LBP – LST – Static						
N = LMBP – HST – Static / Fan						
R = HMBP – HST - Fan						
Voltage & Frequency:						
A = 220-240V 50Hz						
R = 115-127V 60Hz						

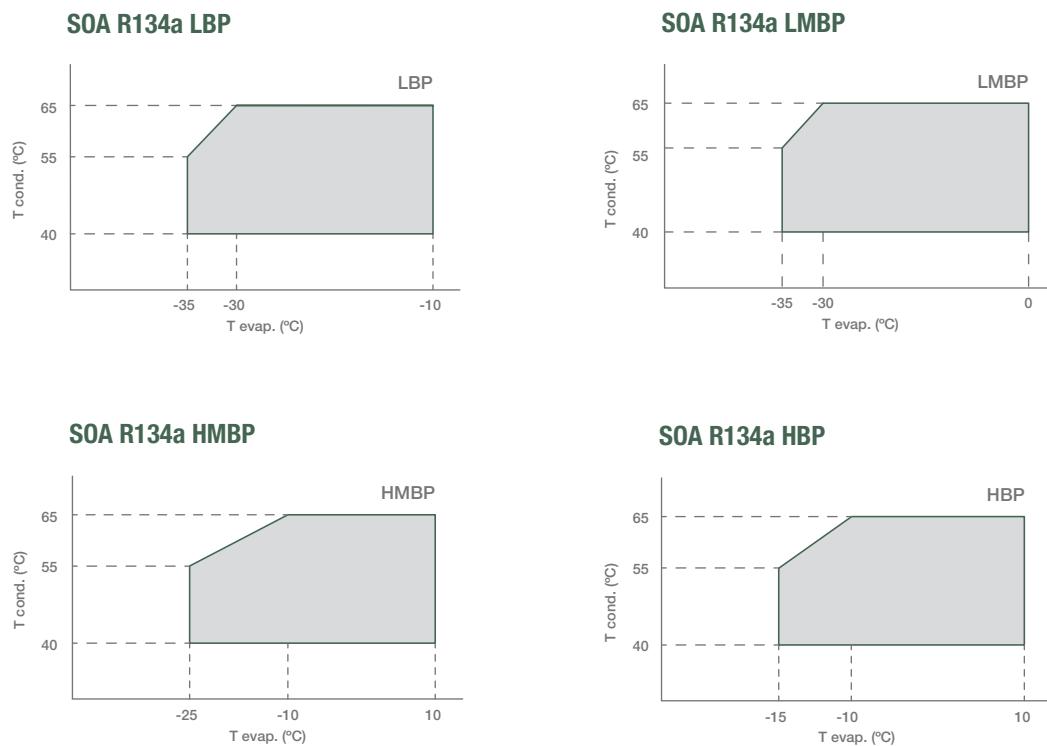
# SOA - Safe Operating Area

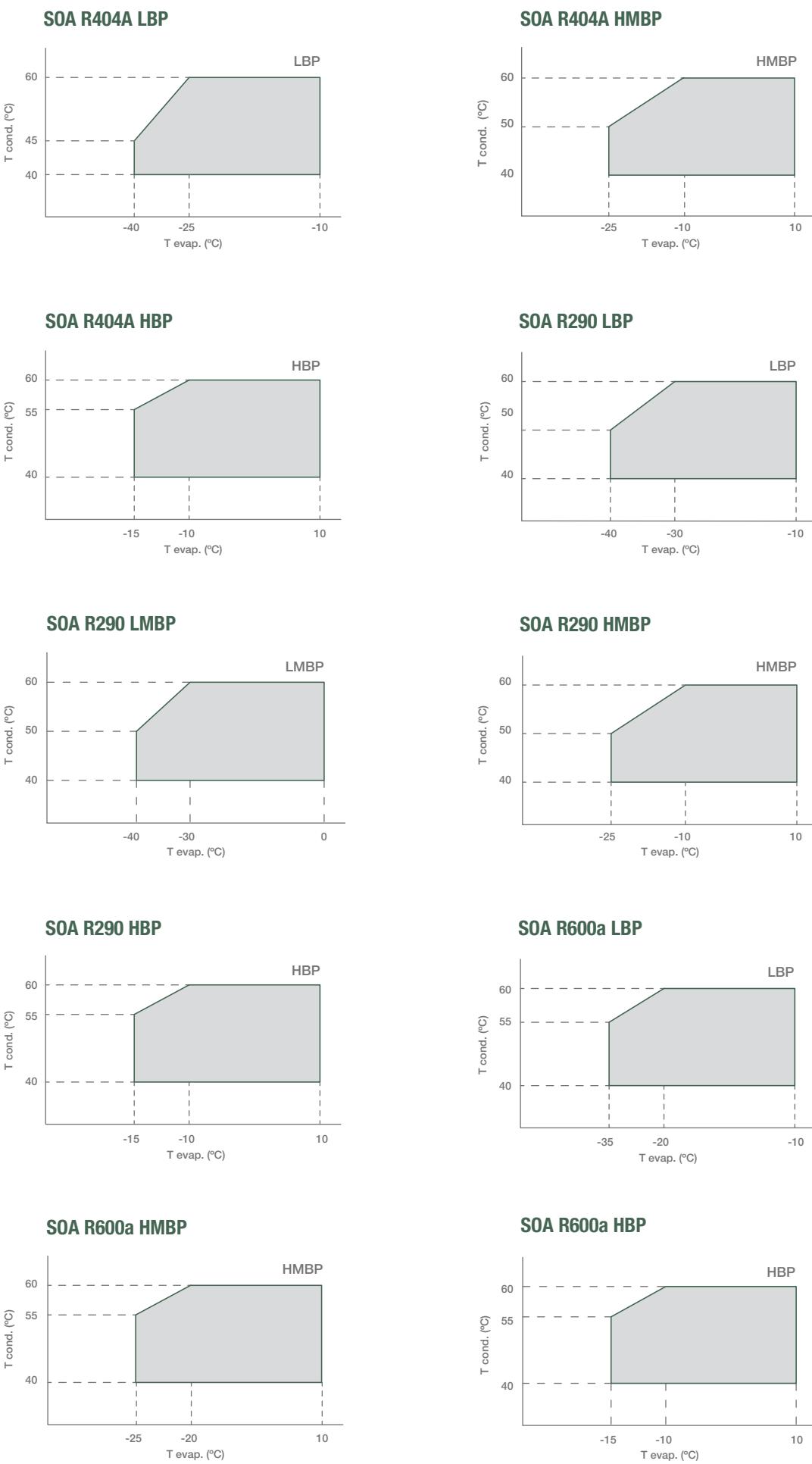
In order to grant the compressor reliability it is recommended that the point representing the operating conditions (suction and discharge pressures) falls within the shadowed area of the corresponding graph.

## For Small L and B ranges:



## For U, L, P, X and S ranges:





# Voltage

The standards consider the voltage variation of the network to be within +/- 6% of its rated value, nevertheless the Cubigel Compressors® motors' design is able to work within -15% of the lowest rating and +10% of the highest rating.

Compressor Voltage Versions for U, L, P, X, S Ranges		
Voltage version	Compressor rating	Voltage operative range
A or B	220-240 V 50 Hz	187-264 V 50 Hz
D or E	115 V 60 Hz	98-127 V 60 Hz
F	208-230 V 60 Hz	177-253 V 60 Hz
G or N	200-220/220-230 V 50/60 Hz	170-242/187-253 V 50/60 Hz
J	100 V 50/60 Hz	85-110 V 50/60 Hz
R	115-127V 60Hz	98-140V 60Hz
3	400/440 V 50/60 Hz 3ph	340-440/374-484 V 50/60 Hz

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

R404A (*) HMBP   HBP • 50 Hz										Performance CECOMAF & ASHRAE										Operative range of evaporating temp		Dimensional drawing reference	
MODEL	DISPLACEMENT	POWER	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY								WEIGHT	DESIGN	Kg	Lc			
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C		Cecomaf (W)				Ashrae								
									-25	-15	5	W	COP	10	7.2	kcal/h	COP						
ML40TB	4.05	1/6	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	133	214	<b>473</b>	<b>1.43</b>	558	<b>510</b>	<b>1.74</b>	10.0	Lc						
ML40TG	4.05	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	133	214	<b>473</b>	<b>1.43</b>	558	<b>510</b>	<b>1.74</b>	10.0	Lc						
ML45TB	4.50	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	151	238	<b>528</b>	<b>1.49</b>	624	<b>570</b>	<b>1.82</b>	10.1	Lc						
ML45TG	4.50	1/5	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	151	238	<b>528</b>	<b>1.49</b>	624	<b>570</b>	<b>1.82</b>	10.0	Lc						
MLY60RAa	5.98	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	212	346	<b>766</b>	<b>1.77</b>	902	<b>825</b>	<b>2.15</b>	10.5	Lc						
MLY60RAb	5.98	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	212	346	<b>766</b>	<b>1.93</b>	902	<b>825</b>	<b>2.36</b>	10.5	Lc						
ML60TB	5.68	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	166	277	<b>647</b>	<b>1.53</b>	769	<b>700</b>	<b>1.85</b>	10.1	Lc						
ML60TG	5.68	1/4	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	166	277	<b>647</b>	<b>1.53</b>	769	<b>700</b>	<b>1.85</b>	10.0	Lc						
MLY80RAa	8.10	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	282	463	<b>1055</b>	<b>1.86</b>	1250	<b>1140</b>	<b>2.27</b>	10.2	Ld						
MLY80RAb	8.10	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	282	463	<b>1055</b>	<b>2.02</b>	1250	<b>1140</b>	<b>2.46</b>	10.2	Ld						
ML80TB	7.57	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	227	385	<b>880</b>	<b>1.63</b>	1040	<b>950</b>	<b>1.99</b>	11.4	Ld						
ML80TG	7.57	3/8	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	227	385	<b>880</b>	<b>1.63</b>	1040	<b>950</b>	<b>1.99</b>	11.2	Ld						
MLY90RAa	9.09	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	317	512	<b>1132</b>	<b>1.75</b>	1334	<b>1220</b>	<b>2.13</b>	11.3	Ld						
MLY90RAb	9.09	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	317	511	<b>1136</b>	<b>1.92</b>	1340	<b>1225</b>	<b>2.34</b>	11.3	Ld						
ML90TB	8.86	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	282	463	<b>1055</b>	<b>1.63</b>	1250	<b>1140</b>	<b>1.98</b>	11.6	Ld						
ML90TG	8.86	3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	282	463	<b>1055</b>	<b>1.63</b>	1250	<b>1140</b>	<b>1.98</b>	12.7	Ld						
MP12TG	12.05	1/2	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	373	634	<b>1463</b>	<b>1.85</b>	1732	<b>1580</b>	<b>2.25</b>	13.5	Pd						
MPT12RA	12.10	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	398	676	<b>1560</b>	<b>1.93</b>	1845	<b>1685</b>	<b>2.35</b>	12.6	Pd						
MPT14RA	14.32	1/2	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	478	784	<b>1760</b>	<b>1.81</b>	2078	<b>1900</b>	<b>2.20</b>	13.5	Pd						
MX16TBa	16.03	3/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	484	818	<b>1880</b>	<b>1.76</b>	2225	<b>2030</b>	<b>2.15</b>	16.2	Xc						
MX18TBa	18.40	7/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	554	937	<b>2157</b>	<b>1.78</b>	2554	<b>2330</b>	<b>2.18</b>	16.0	Xd						
MX18TG	18.40	7/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	554	937	<b>2157</b>	<b>1.78</b>	2554	<b>2330</b>	<b>2.18</b>	17.0	Xd						
MX21TBa	20.73	2	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	625	1052	<b>2425</b>	<b>1.78</b>	2873	<b>2620</b>	<b>2.16</b>	17.5	Xd						
MX21TG	20.72	1	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	625	1052	<b>2425</b>	<b>1.77</b>	2873	<b>2620</b>	<b>2.15</b>	17.6	Xd						
MS18T3	18.10	7/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	R	C-V	423	838	<b>2137</b>	<b>1.92</b>	2557	<b>2320</b>	<b>2.35</b>	20.0	Sb						
MS22TB	21.75	1	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	453	972	<b>2566</b>	<b>2.04</b>	3077	<b>2789</b>	<b>2.50</b>	20.5	Sc						
MS22T3	21.75	1	HMBP	F	400/440V 50/60Hz ~3	3PHASE	R	C-V	453	975	<b>2576</b>	<b>2.01</b>	3090	<b>2800</b>	<b>2.45</b>	20.0	Sb						
MS26TB	25.93	1 3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	675	1295	<b>3185</b>	<b>2.02</b>	3789	<b>3449</b>	<b>2.46</b>	23.0	Sd						
MS26TG	25.93	1 3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	675	1295	<b>3186</b>	<b>2.02</b>	3791	<b>3451</b>	<b>2.46</b>	23.0	Sd						
MS26T3	25.93	1 3/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	R	C-V	675	1295	<b>3186</b>	<b>2.01</b>	3791	<b>3451</b>	<b>2.45</b>	18.6	Sd						
MS34TB	34.42	1 5/8	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	1860	<b>4231</b>	<b>1.92</b>	4959	<b>4551</b>	<b>2.30</b>	22.7	Sd						
MS34T3	34.42	1 5/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	R	C-V	1007	1860	<b>4231</b>	<b>1.82</b>	4958	<b>4551</b>	<b>2.20</b>	22.8	Sd						
MS34TG	34.42	1 5/8	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	1012	1860	<b>4231</b>	<b>1.92</b>	4959	<b>4551</b>	<b>2.30</b>	22.7	Sd						



# 3

## Compressors Catalogue

# R290/R600a

**R290 LBP | LMBP • 50 Hz**
**Natural Refrigerant**

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN		
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-40	-30	-25	-10	-23.3	-23.3				
									W	COP	W	COP	W	COP				
 NBC25CA (**)	2.60	1/12	LBP	S	220-240V 50Hz ~1	RSIR	R	C	32	57	<b>74</b>	<b>1.00</b>	143	<b>100</b>	<b>1.30</b>	5.90	Bf	
 NBG25CA (**)	2.60	1/12	LBP	S	220-240V 50Hz ~1	RSCR	R	C	32	57	<b>74</b>	<b>1.17</b>	143	<b>100</b>	<b>1.52</b>	6.00	Bf	
 NBC35NA	3.50	1/8	LBP	S	220-240V 50Hz ~1	RSIR	R	C	40	79	<b>106</b>	<b>1.04</b>	211	<b>143</b>	<b>1.35</b>	6.10	Bf	
 NBG35CA (**)	3.50	1/8	LBP	S	220-240V 50Hz ~1	RSCR	R	C	47	83	<b>108</b>	<b>1.20</b>	209	<b>145</b>	<b>1.55</b>	6.20	Bf	
 NBC41NA	4.10	1/7	LMBP	S	220-240V 50Hz ~1	RSIR	R	C	58	103	<b>134</b>	<b>1.00</b>	259	<b>180</b>	<b>1.30</b>	5.90	Bf	
 NBG41CA (**)	4.10	1/7	LBP	S	220-240V 50Hz ~1	RSCR	R	C	58	103	<b>134</b>	<b>1.20</b>	259	<b>181</b>	<b>1.55</b>	6.00	Bf	
 NBC45CA (**)	4.50	1/6	LBP	S	220-240V 50Hz ~1	RSIR	R	C	65	115	<b>150</b>	<b>1.00</b>	290	<b>201</b>	<b>1.30</b>	5.90	Bf	
 NBG45CA (**)	4.50	1/6	LBP	S	220-240V 50Hz ~1	RSCR	R	C	65	115	<b>150</b>	<b>1.16</b>	290	<b>201</b>	<b>1.50</b>	6.00	Bf	
 NUY45Laa	4.50	1/5	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	1/5	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	
 NUS45NAA (**)	4.50	1/5	LMBP	F	220-240V 50Hz ~1	RSIR	P	C	69	129	<b>169</b>	<b>1.35</b>	326	<b>227</b>	<b>1.76</b>	9.30	Ub	
 NUS45NAB (**)	4.50	1/5	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	69	129	<b>169</b>	<b>1.44</b>	326	<b>227</b>	<b>1.88</b>	9.45	Ub	
 NUS45NAC (**)	4.50	1/5	LMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	69	129	<b>169</b>	<b>1.35</b>	326	<b>227</b>	<b>1.76</b>	9.30	Ub	
 NUC45NGa	4.50	1/5	LMBP	F	200-220/230V 50/60Hz~1	RSIR	P	C	68	120	<b>157</b>	<b>1.05</b>	304	<b>210</b>	<b>1.35</b>	8.60	Ub	
 NUM55CAa	5.50	1/5	LBP	S/F	220-240V 50Hz ~1	RSIR	P	C	79	147	<b>193</b>	<b>1.11</b>	373	<b>260</b>	<b>1.45</b>	8.30	Ub	
 NUM55CAb	5.50	1/5	LMBP	S/F	220-240V 50Hz ~1	RSCR	P	C	79	147	<b>193</b>	<b>1.19</b>	373	<b>260</b>	<b>1.55</b>	8.30	Ub	
 NUM55CAC	5.50	1/5	LBP	S/F	220-240V 50Hz ~1	CSIR	R	C-V	79	147	<b>193</b>	<b>1.11</b>	373	<b>260</b>	<b>1.45</b>	8.30	Ub	
 NUM55CAD	5.50	1/5	LMBP	S/F	220-240V 50Hz ~1	CSR	R	C-V	79	147	<b>193</b>	<b>1.19</b>	373	<b>260</b>	<b>1.55</b>	8.30	Ub	
 NUS55CAa (**)	5.50	1/5	LMBP	F	220-240V 50Hz ~1	RSIR	P	C	79	147	<b>193</b>	<b>1.37</b>	373	<b>260</b>	<b>1.78</b>	9.10	Ub	
 NUS55CAB (**)	5.50	1/5	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	79	147	<b>193</b>	<b>1.46</b>	373	<b>260</b>	<b>1.90</b>	9.21	Ub	
 NUS55CAC (**)	5.50	1/5	LMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	79	147	<b>193</b>	<b>1.37</b>	373	<b>260</b>	<b>1.78</b>	9.10	Ub	
 NUT55CAa	5.50	1/5	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	1/5	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	1/5	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	1/5	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	
 NUC55NGa	5.50	1/5	LMBP	F	200-220/230V 50/60Hz~1	RSIR	P	C	89	154	<b>198</b>	<b>1.04</b>	386	<b>265</b>	<b>1.35</b>	8.60	Ub	
 NUC55NGc	5.50	1/5	LMBP	F	200-220/230V 50/60Hz~1	CSIR	R	C-V	89	154	<b>198</b>	<b>1.04</b>	386	<b>265</b>	<b>1.35</b>	8.60	Ub	
 NUM60CAa	6.00	1/4	LBP	S/F	220-240V 50Hz ~1	RSIR	P	C	98	170	<b>219</b>	<b>1.11</b>	427	<b>295</b>	<b>1.45</b>	8.30	Ub	
 NUM60CAb	6.00	1/4	LMBP	S/F	220-240V 50Hz ~1	RSCR	P	C	98	170	<b>219</b>	<b>1.19</b>	427	<b>295</b>	<b>1.55</b>	8.30	Ub	
 NUM60CAC	6.00	1/4	LBP	S/F	220-240V 50Hz ~1	CSIR	R	C-V	98	170	<b>219</b>	<b>1.11</b>	427	<b>295</b>	<b>1.45</b>	8.30	Ub	
 NUM60CAD	6.00	1/4	LMBP	S/F	220-240V 50Hz ~1	CSR	R	C-V	98	170	<b>219</b>	<b>1.19</b>	427	<b>295</b>	<b>1.55</b>	8.30	Ub	
 NUS60NAa (**)	6.00	1/4	LMBP	F	220-240V 50Hz ~1	RSIR	P	C	98	170	<b>219</b>	<b>1.37</b>	427	<b>295</b>	<b>1.78</b>	9.20	Ub	
 NUS60NAb (**)	6.00	1/4	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	98	170	<b>219</b>	<b>1.46</b>	427	<b>295</b>	<b>1.90</b>	9.31	Ub	
 NUS60NAC (**)	6.00	1/4	LMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	98	170	<b>219</b>	<b>1.37</b>	427	<b>295</b>	<b>1.78</b>	9.20	Ub	
 NUT60CAa	6.00	1/4	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	1/4	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	1/4	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	1/4	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	
 NUY60LAa	6.00	1/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	91	168	<b>217</b>	<b>1.24</b>	405	<b>291</b>	<b>1.60</b>	9.40	Ub	
 NUY60Lab	6.00	1/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	92	167	<b>216</b>	<b>1.29</b>	414	<b>291</b>	<b>1.67</b>	9.50	Ub	
 NUM70CAa	6.70	1/4	LBP	F	220-240V 50Hz ~1	RSIR	P	C	103	186	<b>241</b>	<b>1.11</b>	462	<b>325</b>	<b>1.45</b>	8.60	Ub	
 NUM70Cab	6.70	1/4	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	103	186	<b>241</b>	<b>1.19</b>	462	<b>325</b>	<b>1.55</b>	8.60	Ub	
NUM70CAC	6.70	1/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	103	186	<b>241</b>	<b>1.11</b>	462	<b>325</b>	<b>1.45</b>	8.60	Ub	
NUM70CAD	6.70	1/4	LMBP	F	220-240V 50Hz ~1	CSR	R	C-V	103	186	<b>241</b>	<b>1.19</b>	462	<b>325</b>	<b>1.55</b>	8.60	Ub	
NUS70NAa (**)	6.70	1/4	LMBP	F	220-240V 50Hz ~1	RSIR	P	C	103	186	<b>241</b>	<b>1.37</b>	462	<b>325</b>	<b>1.76</b>	8.60	Ub	
NUS70NAb (**)	6.70	1/4	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	103	186	<b>241</b>	<b>1.46</b>	462	<b>325</b>	<b>1.88</b>	8.60	Ub	



(\*\*) Under development

This table continues in the following page

## R290 LBP | LMBP • 50 Hz

Natural Refrigerant

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN		
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-40	-30	-25	-10	-23.3	-23.3				
									W	COP	W	COP	W	COP				
 NUS70NAc (**)	6.70	1/4	LMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	103	186	<b>241</b>	<b>1.37</b>	462	<b>325</b>	<b>1.76</b>	8.60	Ub	
 NUT70CAa	6.70	1/4	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	1/4	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	
 NUT70ACa	6.70	1/4	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	1/4	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	
 NUC70NGa	6.70	1/4	LMBP	F	200-220/230V 50/60Hz~1	RSIR	P	C	106	190	<b>243</b>	<b>1.04</b>	450	<b>325</b>	<b>1.35</b>	8.80	Ub	
 NUY70NGa (**)	6.70	1/4	LMBP	F	200-220/220-230V 50/60Hz~1	CSIR	R	C-V	109	195	<b>250</b>	<b>1.39</b>	463	<b>335</b>	<b>1.40</b>	8.95	Uc	
 NUY80LAa	8.10	1/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	129	230	<b>294</b>	<b>1.16</b>	540	<b>393</b>	<b>1.49</b>	9.43	Uc	
 NLY90CAa	9.09	1/3	LBP	F	220-240V 50Hz ~1	RSIR	P	C	130	236	<b>307</b>	<b>1.06</b>	591	<b>413</b>	<b>1.37</b>	10.30	Ld	
 NLY90CAb	9.09	1/3	LBP	F	220-240V 50Hz ~1	RSCR	P	C	130	236	<b>307</b>	<b>1.11</b>	591	<b>413</b>	<b>1.44</b>	10.30	Ld	
 NUY90CAa	8.90	1/3	LBP	F	220-240V 50Hz ~1	RSIR	P	C	157	267	<b>338</b>	<b>1.21</b>	614	<b>451</b>	<b>1.55</b>	9.30	Uc	
 NUY90CAb	8.90	1/3	LBP	F	220-240V 50Hz ~1	RSCR	P	C	158	270	<b>342</b>	<b>1.28</b>	625	<b>457</b>	<b>1.64</b>	9.40	Uc	
 NUY90LAa	8.90	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	157	267	<b>338</b>	<b>1.21</b>	614	<b>451</b>	<b>1.55</b>	9.40	Uc	
 NUY90Lab	8.90	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	158	270	<b>342</b>	<b>1.28</b>	625	<b>457</b>	<b>1.64</b>	9.50	Uc	
 NLY12LAa	10.70	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	163	283	<b>364</b>	<b>0.96</b>	689	<b>488</b>	<b>1.24</b>	11.21	Ld	
 NLY12Lab	10.70	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	163	283	<b>364</b>	<b>1.01</b>	689	<b>488</b>	<b>1.31</b>	11.31	Ld	
 NLY12NGa	10.70	3/8	LMBP	F	200-220/220-230V 50/60Hz~1	CSIR	R	C-V	168	288	<b>371</b>	<b>0.98</b>	715	<b>499</b>	<b>1.28</b>	11.04	Ld	
 NLY12Ngb	10.70	3/8	LMBP	F	200-220/220-230V 50/60Hz~1	CSR	R	C-V	171	287	<b>371</b>	<b>1.06</b>	726	<b>499</b>	<b>1.31</b>	11.14	Ld	
 NPY12LAa	12.10	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	174	309	<b>402</b>	<b>1.05</b>	783	<b>541</b>	<b>1.35</b>	12.13	Pd	
 NPY12Lab	12.10	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	174	309	<b>402</b>	<b>1.15</b>	783	<b>541</b>	<b>1.49</b>	12.23	Pd	
 NPY14LAa	14.32	1/2	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	217	376	<b>485</b>	<b>1.05</b>	928	<b>651</b>	<b>1.35</b>	12.17	Pd	
 NPY14Lab	14.32	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	217	376	<b>485</b>	<b>1.14</b>	928	<b>651</b>	<b>1.48</b>	12.27	Pd	
 NPT16LA	16.15	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	254	440	<b>564</b>	<b>1.16</b>	1062	<b>756</b>	<b>1.50</b>	12.17	Pd	
 NPT18LA	18.00	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	269	473	<b>611</b>	<b>1.13</b>	1165	<b>820</b>	<b>1.46</b>	12.30	Pd	
 NX18FBa	18.40	3/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	243	471	<b>611</b>	<b>1.11</b>	1137	<b>820</b>	<b>1.44</b>	16.41	Xd	
 NX21FBa	20.72	3/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	267	517	<b>675</b>	<b>1.11</b>	1275	<b>907</b>	<b>1.44</b>	16.00	Xd	
 NX23FBa	23.20	7/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	297	572	<b>746</b>	<b>1.09</b>	1411	<b>1003</b>	<b>1.41</b>	16.75	Xd	
 NS26FB (**)	25.93	7/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	199	580	<b>765</b>	<b>1.04</b>	1448	<b>1029</b>	<b>1.35</b>	22.60	Sd	
 NS34FB (**)	34.42	1	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	257	750	<b>990</b>	<b>1.04</b>	1873	<b>1332</b>	<b>1.35</b>	23.00	Sd	

Compressors  
R290 / R600a

## R290 LBP | LMBP • 60 Hz

Natural Refrigerant

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN		
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-40	-30	-25	-10	-23.3	-23.3				
									W	COP	W	COP	W	COP				
 NBC30NR	3.10	1/7	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	
 NUY45Ra	4.50	1/5	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	76	136	<b>180</b>	<b>1.15</b>	363	<b>243</b>	<b>1.50</b>	9.12	Ub	
 NUY45Rb	4.50	1/5	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	73	137	<b>182</b>	<b>1.23</b>	369	<b>247</b>	<b>1.60</b>	9.19	Ub	
 NUC45NGa	4.50	1/5	LMBP	F	200-220/230V 50/60Hz ~1	RSIR	P	C	72	136	<b>180</b>	<b>1.10</b>	365	<b>244</b>	<b>1.43</b>	8.60	Ub	
 NUT55LRa	5.50	1/5	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	110	189	<b>243</b>	<b>1.24</b>	460	<b>326</b>	<b>1.60</b>	9.47	Ub	
 NUT55LRb	5.50	1/5	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	110	193	<b>247</b>	<b>1.34</b>	463	<b>331</b>	<b>1.73</b>	9.54	Ub	
 NUT55LRc	5.50	1/5	LBP	S	115-127V 60Hz ~1	CSIR	R	C-V	110	189	<b>243</b>	<b>1.24</b>	460	<b>326</b>	<b>1.60</b>	9.47	Ub	
 NUT55LRd	5.50	1/5	LBP	S	115-127V 60Hz ~1	CSR	R	C-V	110	193	<b>247</b>	<b>1.34</b>	463	<b>331</b>	<b>1.73</b>	9.54	Ub	

Green Cooling Models

(\*\*) Under development

This table continues in the following page

New Models

## R290 LBP | LMBP • 60 Hz

Natural Refrigerant

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN		
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-40	-30	-25	-10	-23.3	-23.3				
									W	COP	W	COP	W	COP				
NUY55NRa (**)	5.50	1/5	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	105	184	<b>235</b>	<b>1.21</b>	441	<b>312</b>	<b>1.56</b>	9.10	Ub	
NUY55NRc (**)	5.50	1/5	LMBP	S	115-127V 60Hz ~1	CSIR	R	C-V	105	184	<b>235</b>	<b>1.21</b>	441	<b>312</b>	<b>1.56</b>	9.10	Ub	
NUC55NGa	5.50	1/5	LMBP	F	200-220/230V 50/60Hz ~1	RSIR	P	C	106	186	<b>237</b>	<b>1.15</b>	445	<b>314</b>	<b>1.48</b>	8.60	Ub	
NUC55NGc	5.50	1/5	LMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	106	186	<b>237</b>	<b>1.15</b>	445	<b>314</b>	<b>1.48</b>	8.60	Ub	
NUT60LRa	6.00	1/3	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	122	207	<b>266</b>	<b>1.25</b>	508	<b>357</b>	<b>1.60</b>	9.40	Ub	
NUT60LRb	6.00	1/3	LBP	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	Ub	
NUT60LRc	6.00	1/3	LBP	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	Ub	
NUT60LXd	6.00	1/3	LBP	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	Ub	
NUY60NRa	6.00	1/3	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	121	209	<b>269</b>	<b>1.22</b>	513	<b>361</b>	<b>1.58</b>	9.55	Uc	
NUY60NRc	6.00	1/3	LMBP	S	115-127V 60Hz ~1	CSIR	R	C-V	121	209	<b>269</b>	<b>1.22</b>	513	<b>361</b>	<b>1.58</b>	9.55	Uc	
NUY70NRa	6.70	1/5	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	129	231	<b>297</b>	<b>1.20</b>	551	<b>398</b>	<b>1.56</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>1.20</b>	551	<b>398</b>	<b>1.56</b>	9.40	Uc	
NUY70NGa (**)	6.70	1/5	LMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	127	228	<b>292</b>	<b>1.18</b>	542	<b>391</b>	<b>1.53</b>	8.95	Uc	
NUC70NGa	6.70	1/4	LMBP	F	200-220/230V 50/60Hz ~1	RSIR	P	C	126	226	<b>290</b>	<b>1.21</b>	538	<b>388</b>	<b>1.57</b>	8.80	Ub	
NUY80NRa (**)	8.10	1/4	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	154	272	<b>356</b>	<b>1.21</b>	703	<b>479</b>	<b>1.56</b>	9.30	Uc	
NUY80NRc (**)	8.10	1/4	LMBP	S	115-127V 60Hz ~1	CSIR	R	C-V	154	272	<b>356</b>	<b>1.21</b>	703	<b>479</b>	<b>1.56</b>	9.30	Uc	
NUY90NRa	8.90	1/3	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	
NUY90NRc	8.90	1/3	LMBP	S	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	
NLY12NGa	10.70	3/8	LMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	197	339	<b>439</b>	<b>1.09</b>	848	<b>590</b>	<b>1.41</b>	11.04	Ld	
NLY12Ngb	10.70	3/8	LMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	207	342	<b>439</b>	<b>1.15</b>	850	<b>590</b>	<b>1.49</b>	11.14	Ld	
NLY12NRa	10.70	1/3	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	188	338	<b>437</b>	<b>1.10</b>	835	<b>587</b>	<b>1.42</b>	10.94	Ld	
NLY12NRb	10.70	1/3	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	191	343	<b>443</b>	<b>1.16</b>	845	<b>595</b>	<b>1.49</b>	11.04	Ld	
NPY12LRa	12.10	3/8	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	199	362	<b>473</b>	<b>1.04</b>	927	<b>637</b>	<b>1.35</b>	11.77	Pd	
NPY12LRb	12.10	3/8	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	199	362	<b>473</b>	<b>1.11</b>	927	<b>637</b>	<b>1.44</b>	11.87	Pd	
NPY14LFa	14.32	1/2	LBP	F	208-230V 60Hz ~1	CSIR	R	C-V	269	466	<b>603</b>	<b>1.04</b>	1175	<b>812</b>	<b>1.34</b>	12.19	Pd	
NPY14LFb	14.32	1/2	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	269	466	<b>603</b>	<b>1.09</b>	1175	<b>812</b>	<b>1.42</b>	12.29	Pd	
NPT16LR	16.10	1/2	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	288	492	<b>637</b>	<b>1.10</b>	1244	<b>857</b>	<b>1.42</b>	12.70	Pd	

## R290 HMBP | HBP • 50 Hz

Natural Refrigerant

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN		
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-25	-15	5	COP	10	7.2				
									W	COP	W	COP	W	COP				
NBC22RA	2.20	1/12	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	54	93	<b>222</b>	<b>1.87</b>	264	<b>265</b>	<b>2.21</b>	5.20	Bc	
NBC30RA	3.10	1/10	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	100	157	<b>354</b>	<b>2.21</b>	421	<b>423</b>	<b>2.61</b>	5.80	Be	
NUY45RAa	4.50	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	142	231	<b>516</b>	<b>2.36</b>	610	<b>615</b>	<b>2.77</b>	9.30	Ub	
NUY55RAa	4.50	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	192	298	<b>653</b>	<b>2.29</b>	771	<b>778</b>	<b>2.69</b>	9.50	Ub	
NUY60RAa	6.00	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	208	328	<b>714</b>	<b>2.32</b>	841	<b>850</b>	<b>2.72</b>	9.48	Ub	
NUY70RAa	6.70	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	248	382	<b>817</b>	<b>2.34</b>	961	<b>972</b>	<b>2.75</b>	9.60	Uc	
NUY70RAb	6.70	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	248	382	<b>817</b>	<b>2.47</b>	961	<b>972</b>	<b>2.90</b>	9.70	Uc	
NLY80RAa	8.10	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	258	411	<b>930</b>	<b>2.21</b>	1104	<b>1111</b>	<b>2.60</b>	10.54	Ld	
NLY80RAb	8.10	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	258	411	<b>930</b>	<b>2.38</b>	1104	<b>1111</b>	<b>2.80</b>	10.64	Ld	
NUY90RA	8.90	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	290	461	<b>1045</b>	<b>2.25</b>	1240	<b>1247</b>	<b>2.65</b>	9.80	Uc	

Green Cooling Models

(\*\*) Under development

New Models

This table continues in the following page

## R290 HMBP | HBP • 50 Hz

Natural Refrigerant

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN		
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-25	-15	5	10	7.2	W	COP			
 NLY12RAa	10.70	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	379	584	<b>1224</b>	<b>2.06</b>	1432	<b>1453</b>	<b>2.41</b>	11.44	Ld	
 NLY12RBa	10.70	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	379	597	<b>1249</b>	<b>2.28</b>	1457	<b>1480</b>	<b>2.66</b>	11.54	Ld	
 NLY12RGa	10.70	1/2	HMBP	F	200-220/220-230V 50/60Hz~1	CSIR	R	C-V	341	553	<b>1217</b>	<b>2.03</b>	1432	<b>1448</b>	<b>2.39</b>	12.14	Ld	
 NLY12RGb	10.70	1/2	HMBP	F	200-220/220-230V 50/60Hz~1	CSR	R	C-V	355	554	<b>1226</b>	<b>2.20</b>	1450	<b>1462</b>	<b>2.58</b>	12.24	Ld	
 NPY12RAa	12.10	1/2	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	635	<b>1460</b>	<b>2.08</b>	1735	<b>1745</b>	<b>2.45</b>	12.16	Pd	
 NPY12RBa	12.10	1/2	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	635	<b>1460</b>	<b>2.28</b>	1735	<b>1745</b>	<b>2.70</b>	12.26	Pd	
 NPT14RA	14.32	1/2	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	763	<b>1709</b>	<b>2.26</b>	2085	<b>2065</b>	<b>2.69</b>	12.25	Pd	
 NPT16RA	16.10	2/3	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	853	<b>1911</b>	<b>2.18</b>	2331	<b>2310</b>	<b>2.55</b>	12.34	Pd	
 NX18TBa	18.40	3/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	511	852	<b>2039</b>	<b>2.22</b>	2440	<b>2445</b>	<b>2.61</b>	16.14	Xd	
 NX21TBa	20.72	7/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	601	973	<b>2267</b>	<b>2.18</b>	2705	<b>2714</b>	<b>2.55</b>	16.09	Xd	

Compressors  
R290 / R600a

## R290 HMBP | HBP • 60 Hz

Natural Refrigerant

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN		
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-25	-15	5	10	7.2	W	COP			
 NLY45RRa	4.56	1/5	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	180	282	<b>618</b>	<b>2.08</b>	729	<b>736</b>	<b>2.41</b>	9.19	Lc	
 NLY45RRb	4.56	1/5	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	180	282	<b>618</b>	<b>2.25</b>	729	<b>736</b>	<b>2.61</b>	9.29	Lc	
 NLY60RRa	5.98	1/5	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	245	385	<b>827</b>	<b>2.11</b>	971	<b>983</b>	<b>2.43</b>	9.68	Lc	
 NLY60RRb	5.98	1/5	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	245	385	<b>827</b>	<b>2.29</b>	971	<b>983</b>	<b>2.65</b>	9.78	Lc	
 NLY75RRa	7.57	3/8	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	278	445	<b>1010</b>	<b>2.14</b>	1200	<b>1207</b>	<b>2.50</b>	10.07	Ld	
 NLY75RRb	7.57	3/8	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	278	454	<b>1034</b>	<b>2.36</b>	1227	<b>1235</b>	<b>2.76</b>	10.17	Ld	
 NLY80RRa	8.10	1/4	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	314	497	<b>1098</b>	<b>2.12</b>	1297	<b>1308</b>	<b>2.45</b>	10.03	Ld	
 NLY80RRb	8.10	1/4	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	314	497	<b>1098</b>	<b>2.31</b>	1297	<b>1308</b>	<b>2.67</b>	10.13	Ld	
 NLY90RRa	9.09	1/3	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	353	563	<b>1239</b>	<b>2.03</b>	1462	<b>1476</b>	<b>2.35</b>	10.55	Ld	
 NLY90RRb	9.09	1/3	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	353	563	<b>1239</b>	<b>2.21</b>	1462	<b>1476</b>	<b>2.56</b>	10.65	Ld	
 NLT12RR	10.70	1/2	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	1/2	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	1/2	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	

Green Cooling Models

New Models

# R600a LBP • 50 Hz

Natural Refrigerant

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN		
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-35	-30	-25	-10	-10	-23.3				
									W	COP	W	COP	W	COP				
 L22CL	2.20	1/18	LBP	S	220-240V 50Hz ~1	RSIR	P	C	12	31	<b>23</b>	<b>0.67</b>	48	<b>30</b>	<b>0.85</b>	3.60	SLb	
 L30CL	3.10	1/16	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	19	49	<b>36</b>	<b>0.77</b>	75	<b>48</b>	<b>0.98</b>	3.80	SLc	
 B35C	3.50	1/15	LBP	S	220-240V 50Hz ~1	RSIR	P	C	16	28	<b>41</b>	<b>0.95</b>	89	<b>56</b>	<b>1.23</b>	4.50	Bc	
 B35C	3.50	1/15	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	17	26	<b>37</b>	<b>0.77</b>	79	<b>50</b>	<b>1.00</b>	4.50	Bb	
 B35CA	3.50	1/15	LBP	S	220-240V 50Hz ~1	RSCR	P	C	21	31	<b>43</b>	<b>1.13</b>	96	<b>58</b>	<b>1.45</b>	5.10	Bc	
 B43CB	4.30	1/12	LBP	S	220-240V 50Hz ~1	RSIR	P	C	29	39	<b>51</b>	<b>0.91</b>	108	<b>69</b>	<b>1.16</b>	5.00	Bc	
 B43CB	4.30	1/12	LBP	S	220-240V 50Hz ~1	RSCR	P	C	29	39	<b>51</b>	<b>1.02</b>	108	<b>69</b>	<b>1.29</b>	5.00	Bc	
 B43CB	3.80	1/20	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	25	33	<b>44</b>	<b>0.87</b>	92	<b>58</b>	<b>1.10</b>	5.00	Bc	
 B43C0	4.30	1/12	LBP	S	100V 50/60Hz ~1	RSIR	P	C	27	69	<b>51</b>	<b>0.93</b>	107	<b>69</b>	<b>1.18</b>	4.60	Bc	
 B52CL	5.20	1/10	LBP	S	220-240V 50Hz ~1	RSIR	P	C	34	44	<b>58</b>	<b>0.94</b>	124	<b>78</b>	<b>1.20</b>	5.00	Bc	
 B52CL	5.20	1/10	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	35	45	<b>60</b>	<b>0.91</b>	127	<b>80</b>	<b>1.16</b>	5.00	Bc	
 B52CL	5.20	1/10	LBP	S	220-240V 50Hz ~1	RSIR	P	C	34	44	<b>58</b>	<b>1.11</b>	124	<b>78</b>	<b>1.42</b>	5.00	Be	
 B52C0L	5.20	1/10	LBP	S	100V 50/60Hz ~1	RSIR	P	C	31	78	<b>58</b>	<b>0.86</b>	121	<b>78</b>	<b>1.10</b>	4.80	Bc	
 B60CBL	6.00	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	38	95	<b>71</b>	<b>1.02</b>	149	<b>95</b>	<b>1.30</b>	5.00	Bc	
 B60CBL	6.00	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	38	96	<b>71</b>	<b>1.10</b>	149	<b>95</b>	<b>1.40</b>	5.00	Be	
 B65CL	6.50	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	42	105	<b>78</b>	<b>0.86</b>	163	<b>105</b>	<b>1.10</b>	5.00	Be	
 B65CL	6.50	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	42	105	<b>78</b>	<b>1.10</b>	163	<b>105</b>	<b>1.40</b>	5.20	Be	
 HLY80AAa	8.10	1/7	LBP	S	220-240V 50Hz ~1	RSIR	P	C	54	74	<b>99</b>	<b>1.11</b>	201	<b>131</b>	<b>1.41</b>	9.45	Lb	
 HLY80AAb	8.10	1/7	LBP	S	220-240V 50Hz ~1	RSCR	P	C	54	74	<b>99</b>	<b>1.18</b>	203	<b>131</b>	<b>1.49</b>	9.56	Lb	
 HLY90AAa	9.09	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	67	84	<b>109</b>	<b>1.11</b>	231	<b>145</b>	<b>1.41</b>	9.85	Lb	
 HLY90AAb	9.09	1/6	LBP	S	220-240V 50Hz ~1	RSCR	P	C	65	85	<b>111</b>	<b>1.18</b>	234	<b>148</b>	<b>1.49</b>	9.96	Lb	
 HLY99AAa	9.95	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	69	90	<b>119</b>	<b>1.10</b>	249	<b>158</b>	<b>1.40</b>	10.95	Lc	
 HLY99AAb	9.95	1/6	LBP	S	220-240V 50Hz ~1	RSCR	P	C	67	90	<b>120</b>	<b>1.16</b>	250	<b>159</b>	<b>1.48</b>	11.06	Lc	
 HPY12AAa	12.10	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	79	107	<b>144</b>	<b>1.13</b>	301	<b>192</b>	<b>1.43</b>	11.13	Pc	
 HPY12AAb	12.10	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	79	107	<b>144</b>	<b>1.18</b>	301	<b>192</b>	<b>1.50</b>	11.24	Pc	
 HPY12AGa	12.10	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	79	107	<b>144</b>	<b>1.10</b>	301	<b>192</b>	<b>1.40</b>	10.90	Pc	
 HPY12AGb	12.10	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSCR	P	C	79	107	<b>144</b>	<b>1.10</b>	301	<b>192</b>	<b>1.40</b>	11.01	Pc	
 HPY14AAa	14.32	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	92	124	<b>166</b>	<b>1.13</b>	345	<b>221</b>	<b>1.43</b>	11.41	Pc	
 HPY14AAb	14.32	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	92	124	<b>166</b>	<b>1.19</b>	345	<b>221</b>	<b>1.50</b>	11.52	Pc	
 HPY14AJa	14.32	1/5	LBP	S	100V 50/60Hz ~1	RSIR	P	C	86	116	<b>157</b>	<b>1.01</b>	336	<b>209</b>	<b>1.28</b>	10.75	Pd	
 HPY14AJb	14.32	1/5	LBP	S	100V 50/60Hz ~1	RSCR	P	C	86	116	<b>157</b>	<b>1.07</b>	336	<b>209</b>	<b>1.35</b>	10.86	Pd	
 HPY16AAa	16.15	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	102	136	<b>181</b>	<b>1.14</b>	381	<b>242</b>	<b>1.44</b>	10.64	Pc	
 HPY16AAb	16.15	1/4	LBP	S	220-240V 50Hz ~1	RSCR	P	C	102	136	<b>181</b>	<b>1.19</b>	381	<b>242</b>	<b>1.51</b>	10.75	Pc	

Green Cooling Models

New Models

## R600a LBP • 60 Hz

Natural Refrigerant

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN		
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-35	-30	-25	-10	-23.3	-23.3				
									W	COP	W	COP	W	COP				
L22C5L	2.20	1/16	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	SLb	
L30CL	3.10	1/14	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	22	30	<b>41</b>	<b>0.90</b>	85	<b>55</b>	<b>1.00</b>	3.80	SLb	
B35C	3.50	1/15	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	18	31	<b>45</b>	<b>0.94</b>	93	<b>60</b>	<b>1.21</b>	4.60	Bb	
B35C5B	3.50	1/12	LBP	S	110-115V 60Hz ~1	RSIR	P	C	28	37	<b>49</b>	<b>0.95</b>	102	<b>65</b>	<b>1.21</b>	4.60	Bc	
B35C5BL	3.50	1/12	LBP	S	110-120 60Hz ~1	RSCR	P	C	26	36	<b>49</b>	<b>1.10</b>	103	<b>65</b>	<b>1.40</b>	4.60	Bc	
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	
B43CB	4.30	1/10	LBP	S	220-240V 60Hz ~1	RSCR	P	C	31	43	<b>58</b>	<b>1.06</b>	121	<b>78</b>	<b>1.35</b>	4.60	Bc	
B43CO	4.30	1/10	LBP	S	100V 50/60Hz ~1	RSIR	P	C	31	43	<b>58</b>	<b>0.93</b>	121	<b>78</b>	<b>1.18</b>	4.60	Bb	
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	Bb	
B52C5BL	5.20	1/8	LBP	S	110-120V 60Hz ~1	RSCR	P	C	38	53	<b>71</b>	<b>1.18</b>	149	<b>95</b>	<b>1.50</b>	5.20	Be	
B52C0L	5.20	1/8	LBP	S	100V 50/60Hz ~1	RSIR	P	C	38	53	<b>71</b>	<b>0.86</b>	149	<b>95</b>	<b>1.10</b>	4.80	Bc	
B60CBL	6.00	1/8	LBP	S	220-240V 60Hz ~1	RSIR	P	C	44	61	<b>83</b>	<b>1.02</b>	174	<b>110</b>	<b>1.30</b>	4.60	Bc	
B60C5BL	6.00	1/8	LBP	S	110-120V 60Hz ~1	RSCR	P	C	44	61	<b>82</b>	<b>1.10</b>	172	<b>109</b>	<b>1.40</b>	5.20	Bd	
HPY12AGa	12.10	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	92	126	<b>168</b>	<b>1.08</b>	351	<b>224</b>	<b>1.37</b>	10.90	Pc	
HPY12AGb	12.10	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSCR	P	C	92	126	<b>168</b>	<b>1.08</b>	351	<b>224</b>	<b>1.37</b>	11.01	Pc	
HPY14AJa	14.32	1/5	LBP	S	100V 50/60Hz ~1	RSIR	P	C	101	139	<b>187</b>	<b>1.06</b>	393	<b>250</b>	<b>1.34</b>	10.75	Pd	
HPY14AJb	14.32	1/5	LBP	S	100V 50/60Hz ~1	RSCR	P	C	101	139	<b>187</b>	<b>1.12</b>	393	<b>250</b>	<b>1.41</b>	10.86	Pd	

Compressors  
R290 / R600a

## R600a HMBP | HBP • 50 Hz

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN		
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-25	-15	5	10	7.2	7.2				
									W	COP	W	COP	W	COP				
HUY55MAa	5.50	1/10	HMBP	S	220-240V 50Hz ~1	RSIR	P	C	64	110	<b>272</b>	<b>2.47</b>	327	<b>323</b>	<b>2.86</b>	8.95	Ub	
HUY55MAb	5.50	1/10	HMBP	S	220-240V 50Hz ~1	RSCR	P	C	64	110	<b>272</b>	<b>2.58</b>	327	<b>323</b>	<b>2.99</b>	9.05	Ub	
HUY70MAa	6.70	1/8	HMBP	S	220-240V 50Hz ~1	RSIR	P	C	80	137	<b>338</b>	<b>2.47</b>	406	<b>401</b>	<b>2.87</b>	8.90	Ub	
HUY70MAb	6.70	1/8	HMBP	S	220-240V 50Hz ~1	RSCR	P	C	80	137	<b>338</b>	<b>2.59</b>	406	<b>401</b>	<b>2.99</b>	9.01	Ub	
HLY99RAa	9.95	1/6	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	103	178	<b>458</b>	<b>2.03</b>	555	<b>547</b>	<b>2.35</b>	9.31	Lc	
HLY99RAb	9.95	1/6	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	103	178	<b>458</b>	<b>2.21</b>	555	<b>547</b>	<b>2.57</b>	9.41	Lc	
HPY12RAa	12.10	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	135	236	<b>583</b>	<b>2.15</b>	700	<b>692</b>	<b>2.50</b>	10.5	Pc	
HPY12RAb	12.10	1/5	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	135	236	<b>583</b>	<b>2.32</b>	700	<b>692</b>	<b>2.70</b>	10.6	Pc	
HPY14RAa	14.32	1/5	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	281	<b>668</b>	<b>2.08</b>	797	<b>791</b>	<b>2.40</b>	9.74	Pc	
HPY14RAb	14.32	1/5	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	281	<b>668</b>	<b>2.26</b>	797	<b>791</b>	<b>2.61</b>	9.84	Pc	
HPY16RAa	16.15	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	179	310	<b>755</b>	<b>2.12</b>	904	<b>896</b>	<b>2.45</b>	10.99	Pd	
HPY16RAb	16.15	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	179	310	<b>755</b>	<b>2.29</b>	904	<b>896</b>	<b>2.64</b>	11.09	Pd	

Conditions			
CECOMAF		ASHRAE	
LBP/LMBP (A)	HMBP/HBP (C)	LBP/LMBP (B)	HMBP/HBP (D)
-25	5	-23.3	7.2
55	55	55	55
55	55	32	46
32	32	32	35
32	32	32	35

Measurement conversion  
R290  
W (A) x 1.36 = W (B)  
W (C) x 1.20 = W (D)  
W (A) x 1.34 = W (B)  
W (C) x 1.19 = W (D)



# 3

## Compressors Catalogue

# R134a

## R134a (\*) LBP | LMBP • 50 Hz

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN		
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-35	-30	-25	-10	-10	-23.3				
									W	COP	W	COP	W	COP				
L22HL	2.20	1/20	LBP	S	220-240V 50Hz ~1	RSIR	P	C	18	24	<b>34</b>	<b>0.63</b>	79	<b>47</b>	<b>0.82</b>	3.70	SLb	
L30HL	3.10	1/12	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	23	34	<b>49</b>	<b>0.69</b>	112	<b>67</b>	<b>0.90</b>	4.20	SLc	
B38H	3.80	1/8	LBP	S/F	220-240V 50Hz ~1	RSIR	P	C	33	45	<b>63</b>	<b>0.72</b>	147	<b>86</b>	<b>0.95</b>	4.60	Bc	
B43H	4.30	1/7	LBP	S/F	220-240V 50/60Hz ~1	RSIR	P	C	33	50	<b>71</b>	<b>0.76</b>	157	<b>97</b>	<b>1.00</b>	5.40	Bd	
B43HB	4.30	1/7	LBP	S	220-240V 50Hz ~1	RSIR	P	C	35	51	<b>72</b>	<b>0.92</b>	158	<b>98</b>	<b>1.20</b>	5.00	Bd	
B48H	4.80	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	37	56	<b>79</b>	<b>0.80</b>	174	<b>108</b>	<b>1.05</b>	5.00	Bc	
GL45AAa	4.56	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	37	57	<b>81</b>	<b>0.81</b>	184	<b>112</b>	<b>1.06</b>	7.91	Lb	
GL45AAb	4.56	1/8	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	37	57	<b>81</b>	<b>0.81</b>	184	<b>112</b>	<b>1.06</b>	8.06	Lb	
GL45ANa	4.56	1/8	LBP	S	200-240/220-230V 50/60Hz ~1	RSIR	P	C	36	56	<b>80</b>	<b>0.78</b>	184	<b>110</b>	<b>1.03</b>	8.42	Lb	
GLY45AAa	4.56	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	46	65	<b>89</b>	<b>1.01</b>	192	<b>121</b>	<b>1.30</b>	8.70	Lb	
GLY45AAb	4.56	1/8	LBP	S	220-240V 50Hz ~1	RSCR	P	C	47	66	<b>90</b>	<b>1.05</b>	193	<b>122</b>	<b>1.36</b>	8.80	Lb	
GL60AAa	5.98	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	50	75	<b>107</b>	<b>0.85</b>	239	<b>147</b>	<b>1.10</b>	8.45	Lb	
GL60AAb	5.98	1/6	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	50	75	<b>107</b>	<b>0.85</b>	239	<b>147</b>	<b>1.10</b>	8.60	Lb	
GL60ANa	5.98	1/6	LBP	S	200-240/220-230V 50/60Hz ~1	RSIR	P	C	57	82	<b>114</b>	<b>0.83</b>	244	<b>155</b>	<b>1.09</b>	9.11	Lc	
GL60ANb	5.98	1/6	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	82	94	<b>116</b>	<b>0.84</b>	244	<b>155</b>	<b>1.09</b>	9.26	Lc	
GL60ANC	5.98	1/6	LBP	S	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	82	94	<b>116</b>	<b>0.84</b>	244	<b>155</b>	<b>1.09</b>	9.26	Lc	
GLY60AAa	5.98	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	58	85	<b>119</b>	<b>1.04</b>	255	<b>162</b>	<b>1.34</b>	8.49	Lb	
GLY60AAb	5.98	1/6	LBP	S	220-240V 50Hz ~1	RSCR	P	C	59	86	<b>120</b>	<b>1.10</b>	255	<b>163</b>	<b>1.42</b>	8.60	Lb	
GL70ANa	6.65	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	70	96	<b>129</b>	<b>0.83</b>	278	<b>176</b>	<b>1.08</b>	9.49	Lb	
GLY70AAa	6.65	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	66	96	<b>133</b>	<b>1.03</b>	289	<b>181</b>	<b>1.33</b>	9.09	Lc	
GLY70AAb	6.65	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	66	96	<b>133</b>	<b>1.08</b>	289	<b>181</b>	<b>1.40</b>	9.20	Lc	
GL80AAa	8.10	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	68	102	<b>144</b>	<b>0.89</b>	326	<b>198</b>	<b>1.15</b>	8.98	Lc	
GL80AAb	8.10	1/5	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	68	102	<b>144</b>	<b>0.89</b>	326	<b>198</b>	<b>1.15</b>	9.13	Lc	
GL80ANa	8.10	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	76	107	<b>148</b>	<b>0.83</b>	331	<b>202</b>	<b>1.09</b>	9.75	Lc	
GL80ANb	8.10	1/5	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	76	107	<b>148</b>	<b>0.83</b>	331	<b>202</b>	<b>1.09</b>	9.90	Lc	
GL80ANC	8.10	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	76	107	<b>148</b>	<b>0.83</b>	331	<b>202</b>	<b>1.09</b>	9.90	Lc	
GLY80AAa	8.10	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	92	123	<b>164</b>	<b>1.07</b>	349	<b>222</b>	<b>1.37</b>	9.51	Lc	
GLY80AAb	8.10	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	93	124	<b>165</b>	<b>1.13</b>	351	<b>223</b>	<b>1.45</b>	9.62	Lc	
GL90AAa	9.09	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	82	120	<b>165</b>	<b>0.90</b>	351	<b>224</b>	<b>1.15</b>	9.39	Lc	
GL90AAb	9.09	1/4	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	82	120	<b>165</b>	<b>0.90</b>	351	<b>224</b>	<b>1.15</b>	9.54	Lc	
GL90ANa	9.09	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	85	118	<b>163</b>	<b>0.84</b>	366	<b>222</b>	<b>1.10</b>	10.33	Ld	
GL90ANb	9.09	1/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	85	118	<b>163</b>	<b>0.84</b>	366	<b>222</b>	<b>1.10</b>	10.48	Ld	
GL90ANC	9.09	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	85	118	<b>163</b>	<b>0.84</b>	366	<b>222</b>	<b>1.10</b>	10.48	Ld	
GLY90AAa	9.09	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	104	140	<b>186</b>	<b>1.07</b>	387	<b>251</b>	<b>1.37</b>	9.43	Lc	
GLY90AAb	9.09	1/4	LBP	S	220-240V 50Hz ~1	RSCR	P	C	104	140	<b>187</b>	<b>1.13</b>	388	<b>252</b>	<b>1.45</b>	9.54	Lc	
GL99AAa	9.95	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	83	125	<b>175</b>	<b>0.92</b>	377	<b>238</b>	<b>1.19</b>	9.64	Ld	
GL99AAb	9.95	1/4	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	83	125	<b>175</b>	<b>0.92</b>	377	<b>238</b>	<b>1.19</b>	9.79	Ld	
GLM12LAa	10.70	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	98	143	<b>200</b>	<b>0.92</b>	445	<b>273</b>	<b>1.19</b>	10.06	Ld	
GLM12Lab	10.70	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	98	145	<b>204</b>	<b>0.99</b>	451	<b>279</b>	<b>1.29</b>	10.16	Ld	
GPY12AAa	12.10	3/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	128	178	<b>241</b>	<b>0.96</b>	500	<b>326</b>	<b>1.23</b>	12.07	Pd	
GPy12AAb	12.10	3/8	LBP	S	220-240V 50Hz ~1	RSCR	P	C	128	178	<b>241</b>	<b>1.04</b>	500	<b>326</b>	<b>1.33</b>	12.18	Pd	
GPy12LAa	12.10	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	113	162	<b>225</b>	<b>1.00</b>	509	<b>308</b>	<b>1.30</b>	12.78	Pd	
GPy12LBa	12.10	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	113	162	<b>225</b>	<b>1.06</b>	509	<b>308</b>	<b>1.38</b>	12.89	Pd	
GP14CG	14.17	3/8	LBP	F	200-220/220-230V 50/60Hz ~1	RSIR	R	C	99	158	<b>228</b>	<b>0.83</b>	509	<b>314</b>	<b>1.08</b>	10.62	Pc	
GP14FB	14.17	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	99	157	<b>228</b>	<b>0.90</b>	509	<b>313</b>	<b>1.16</b>	10.36	Pc	
GP14FC	14.17	3/8	LBP	F	100V 50/60Hz ~1	CSIR	R	C-V	106	160	<b>229</b>	<b>0.81</b>	519	<b>314</b>	<b>1.06</b>	12.20	Pc	

Green Cooling Models  
New Models

(\*) Or HF01234yf  
(\*\*) Under development

This table continues in the following page

## R134a (\*) LBP | LMBP • 50 Hz

MODEL	DISPLACEMENT	POWER	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT	DESIGN		
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-35	-30	-25	-10	-23.3	-23.3				
		cm³	hp						W	COP	W	COP	W	COP	Kg			
GPY14NGa	14.32	1/3	LMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	147	205	283	0.92	636	376	1.14	12.59 Pd		
GPY14NGb	14.32	1/3	LMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	148	206	284	0.97	636	388	1.27	12.69 Pd		
GP16FB	16.15	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	109	182	266	0.89	585	366	1.14	11.79 Pd		
GPY16LAa	16.15	3/8	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	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	151	220	306	1.09	677	419	1.42	11.83 Pd		
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		

## R134a (\*) LBP | LMBP • 60 Hz

MODEL	DISPLACEMENT	POWER	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT	DESIGN		
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-35	-30	-25	-10	-23.3	-23.3	Kg			
		cm³	hp						W	COP	W	COP	W	COP				
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 SLb		
L30HL	3.10	1/12	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	25	37	54	0.80	129	74	1.05	4.20 SLC		
L30H5L	3.10	1/12	LBP	S	110-120V 60Hz ~1	RSIR	P	C	26	39	57	0.74	134	78	0.96	3.85 SLC		
B38H	3.80	1/7	LBP	S/F	220-240V 60Hz ~1	RSIR	P	C	33	48	70	0.85	171	97	1.11	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	1/7	LBP	S	110-120V 60Hz ~1	RSIR	P	C	34	52	72	0.83	134	97	1.06	4.60 Bc		
B43H	4.30	1/7	LBP	S/F	220-240V 50/60Hz ~1	RSIR	P	C	38	56	80	0.85	187	110	1.11	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	34	58	82	0.81	155	110	1.05	5.00 Bc		
GL45ADa	4.56	1/8	LBP	S	115V 60Hz ~1	RSIR	P	C	42	65	95	0.80	215	130	1.05	8.19 Lb		
GL45ADb	4.56	1/8	LBP	S	115V 60Hz ~1	CSIR	R	C-V	42	65	95	0.80	215	130	1.05	8.34 Lb		
GL45ANa	4.56	1/8	LBP	S	200-240/220-230V 50/60Hz ~1	RSIR	P	C	43	65	93	0.83	213	128	1.09	8.42 Lb		
GL60ADa	5.98	1/6	LBP	S	115V 60Hz ~1	RSIR	P	C	65	95	132	0.85	290	180	1.10	9.48 Lb		
GL60ADB	5.98	1/6	LBP	S	115V 60Hz ~1	CSIR	R	C-V	65	95	132	0.85	290	180	1.10	9.63 Lb		
GL60ANa	5.98	1/6	LBP	S	200-240/220-230V 50/60Hz ~1	RSIR	P	C	95	108	133	0.89	285	178	1.15	9.11 Lc		
GL60ANb	5.98	1/6	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	95	108	133	0.89	285	178	1.15	9.26 Lc		
GL60ANC	5.98	1/6	LBP	S	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	95	108	133	0.89	285	178	1.15	9.26 Lc		
GUY60NRb	6.00	1/5	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	1/5	LMBP	S	115-127V 60Hz ~1	CSIR	R	C-V	80	113	158	1.15	362	215	1.49	9.00 Ub		
GL70ANa	6.65	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	80	110	150	0.90	323	204	1.17	9.49 Lc		
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		
GL80ANa	8.10	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	87	124	172	0.92	385	235	1.19	9.75 Lc		
GL80ANb	8.10	1/5	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	87	124	172	0.92	385	235	1.19	9.90 Lc		
GL80ANC	8.10	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	87	124	172	0.92	385	235	1.19	9.90 Lc		
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		
GL90ANa	9.09	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	96	134	185	0.93	421	254	1.20	10.33 Ld		
GL90ANb	9.09	1/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	96	134	185	0.93	421	254	1.20	10.48 Ld		
GL90ANC	9.09	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	96	134	185	0.93	421	254	1.20	10.48 Ld		
GLY12NRa	10.70	3/8	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	119	168	234	1.02	531	320	1.33	10.55 Ld		

## R134a (\*) LBP | LMBP • 60 Hz

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN		
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-35	-30	-25	-10	-23.3	-23.3				
									W	COP	W	COP	W	COP				
GLY12NRb	10.70	3/8	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	119	168	<b>234</b>	<b>1.07</b>	531	<b>320</b>	<b>1.39</b>	10.65	Ld	
GP14CG	14.17	3/8	LBP	F	200-220/220-230V 50/60Hz ~1	RSIR	R	C	113	181	<b>262</b>	<b>0.91</b>	589	<b>361</b>	<b>1.18</b>	10.62	Pc	
GP14FE	14.17	3/8	LBP	F	115V 60Hz ~1	CSIR	R	C-V	119	186	<b>267</b>	<b>0.84</b>	603	<b>368</b>	<b>1.11</b>	12.35	Pd	
GPY14NDa	14.32	3/8	LMBP	F	115V 60Hz ~1	CSIR	R	C-V	166	234	<b>322</b>	<b>0.90</b>	715	<b>440</b>	<b>1.17</b>	12.04	Pd	
GPY14NDb	14.32	3/8	LMBP	F	115V 60Hz ~1	CSR	R	C-V	168	235	<b>324</b>	<b>1.02</b>	722	<b>442</b>	<b>1.26</b>	12.14	Pd	
GPY14NGa	14.32	3/8	LMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	173	241	<b>330</b>	<b>0.98</b>	728	<b>450</b>	<b>1.27</b>	12.59	Pd	
GPY14NGb	14.32	3/8	LMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	173	242	<b>332</b>	<b>1.03</b>	729	<b>452</b>	<b>1.33</b>	12.69	Pd	

## R134a (\*) HMBP | HBP • 50 Hz

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN		
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-25	-15	5	10	7.2	7.2				
									W	COP	W	COP	W	COP				
B22G	2.20	1/14	HBP	S/F	220-240V 50Hz ~1	RSIR	P	C-V	-	60	<b>152</b>	<b>1.64</b>	192	<b>186</b>	<b>1.94</b>	4.60	Bb	
B25G	2.60	1/14	HBP	S/F	220-240V 50/60Hz ~1	RSIR	P	C-V	-	76	<b>202</b>	<b>1.78</b>	243	<b>242</b>	<b>2.08</b>	4.65	Bc	
B25GL	2.60	1/14	HBP	S	220-240V 50Hz ~1	CSIR	R	C-V	-	81	<b>186</b>	<b>1.81</b>	235	<b>228</b>	<b>2.16</b>	5.35	Be	
B30G	3.10	1/10	HBP	S/F	220-240V 50Hz ~1	CSIR	R	C-V	-	83	<b>229</b>	<b>1.77</b>	270	<b>272</b>	<b>2.06</b>	3.80	Bc	
B30G	3.10	1/10	HBP	S/F	220-240V 50Hz ~1	RSIR	P	C-V	-	83	<b>229</b>	<b>1.77</b>	270	<b>272</b>	<b>2.06</b>	3.80	Bc	
B35GL	3.50	1/8	HBP	S/F	220-240V 50Hz ~1	CSIR	R	C-V	-	100	<b>262</b>	<b>2.00</b>	321	<b>316</b>	<b>2.34</b>	6.00	Bf	
B35G0	3.50	1/8	HMBP	S	100V 50/60Hz ~1	RSIR	P	C	63	116	<b>302</b>	<b>2.21</b>	366	<b>363</b>	<b>2.59</b>	5.89	Be	
B38G	3.80	1/8	HBP	S/F	220-240V 50/60Hz ~1	CSIR	R	C-V	-	129	<b>291</b>	<b>1.91</b>	347	<b>347</b>	<b>2.23</b>	5.00	Bc	
B38G	3.80	1/8	HBP	S/F	220-240V 50/60Hz ~1	CSIR	R	C-V	-	129	<b>288</b>	<b>1.87</b>	359	<b>350</b>	<b>2.22</b>	5.40	Be	
B43GL	4.30	1/6	HBP	S/F	220-240V 50Hz ~1	RSIR	P	C-V	-	122	<b>348</b>	<b>1.75</b>	422	<b>419</b>	<b>2.06</b>	5.50	Bf	
GL45MG	4.56	1/6	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	175	<b>340</b>	<b>1.67</b>	415	<b>409</b>	<b>1.95</b>	9.37	Lb	
GL45PB	4.56	1/6	HMBP	F	220-240V 50Hz ~1	RSIR	R	C	76	134	<b>341</b>	<b>1.61</b>	412	<b>409</b>	<b>1.86</b>	7.76	Lb	
GL45TB	4.56	1/6	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	76	134	<b>341</b>	<b>1.61</b>	412	<b>409</b>	<b>1.86</b>	8.04	Lb	
GL45TG	4.56	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	76	134	<b>341</b>	<b>1.67</b>	412	<b>409</b>	<b>1.95</b>	8.78	Lb	
GLY45RAa	4.56	1/6	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	71	139	<b>373</b>	<b>1.93</b>	452	<b>448</b>	<b>2.25</b>	8.75	Lb	
GLY45Rab	4.56	1/6	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	71	139	<b>373</b>	<b>2.10</b>	452	<b>448</b>	<b>2.45</b>	8.85	Lb	
GL60PB	5.68	1/5	HMBP	F	220-240V 50Hz ~1	RSIR	R	C	95	170	<b>436</b>	<b>1.81</b>	527	<b>523</b>	<b>2.09</b>	8.34	Lc	
GL60TB	5.68	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	95	170	<b>436</b>	<b>1.81</b>	527	<b>523</b>	<b>2.09</b>	8.65	Lb	
GL60TC	5.68	1/5	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	95	170	<b>436</b>	<b>1.72</b>	527	<b>523</b>	<b>2.01</b>	10.38	Lb	
GL60TG	5.68	1/5	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	95	170	<b>436</b>	<b>1.81</b>	527	<b>523</b>	<b>2.09</b>	9.07	Lc	
GL60MG	5.98	1/5	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	206	<b>427</b>	<b>1.70</b>	530	<b>518</b>	<b>1.99</b>	9.00	Lc	
GLY60RAa	5.98	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	106	190	<b>485</b>	<b>2.04</b>	585	<b>582</b>	<b>2.36</b>	10.47	Lc	
GLY60Rab	5.98	1/5	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	106	190	<b>485</b>	<b>2.24</b>	585	<b>582</b>	<b>2.60</b>	10.58	Lc	
GUY60RAa	6.00	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	126	221	<b>540</b>	<b>2.32</b>	646	<b>644</b>	<b>2.70</b>	9.04	Ub	
GUY60RAb	6.00	1/5	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	126	222	<b>545</b>	<b>2.53</b>	653	<b>651</b>	<b>2.95</b>	9.16	Ub	
GUY72RCa	7.20	1/4	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	153	262	<b>646</b>	<b>2.24</b>	777	<b>773</b>	<b>2.60</b>	9.52	Uc	
GUY72RCb	7.20	1/4	HMBP	F	100V 50/60Hz ~1	CSR	R	C-V	153	264	<b>650</b>	<b>2.39</b>	782	<b>778</b>	<b>2.78</b>	9.59	Uc	
GL80MG	7.57	1/5	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	286	<b>576</b>	<b>1.78</b>	714	<b>698</b>	<b>2.10</b>	9.53	Lc	
GL80PB	7.57	1/5	HMBP	F	220-240V 50Hz ~1	RSIR	R	C	111	212	<b>553</b>	<b>1.81</b>	667	<b>663</b>	<b>2.10</b>	8.88	Lc	
GL80TB	7.57	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	111	212	<b>553</b>	<b>1.81</b>	667	<b>663</b>	<b>2.10</b>	9.19	Lc	

Green Cooling Models  
New Models

(\*) Or HF01234yf  
(\*\*) Under development

This table continues in the following page

## R134a (\*) HMBP | HBP • 50 Hz

Model	Displacement cm <sup>3</sup>	Power hp	Application	CPR Cooling	Voltage Frequency	Motor	Starting	Expansion	Refrigeration Capacity						Weight Kg	Design		
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-25	-15	5	10	7.2	7.2				
									W	COP	W	COP	W	COP				
GL80TC	7.57	1/5	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	111	212	<b>553</b>	<b>1.85</b>	667	<b>663</b>	<b>2.21</b>	10.98	Lc	
GL80TG	7.57	1/5	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	111	212	<b>553</b>	<b>1.81</b>	667	<b>663</b>	<b>2.10</b>	9.53	Lc	
GLY80RAa	8.10	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	159	275	<b>680</b>	<b>2.16</b>	818	<b>814</b>	<b>2.51</b>	10.10	Lc	
GLY80RAb	8.10	1/5	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	159	275	<b>680</b>	<b>2.33</b>	818	<b>814</b>	<b>2.71</b>	10.21	Lc	
GUY80RAa	8.10	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	174	302	<b>720</b>	<b>2.22</b>	859	<b>858</b>	<b>2.56</b>	9.70	Ub	
GUY80RAb	8.10	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	177	304	<b>727</b>	<b>2.38</b>	868	<b>866</b>	<b>2.75</b>	9.80	Ub	
GUY90RAa	8.80	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	182	317	<b>775</b>	<b>2.21</b>	929	<b>926</b>	<b>2.56</b>	9.70	Ld	
GUY90RAb	8.80	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	180	319	<b>783</b>	<b>2.35</b>	938	<b>935</b>	<b>2.73</b>	9.80	Ld	
GL90MG	8.85	1/4	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	328	<b>661</b>	<b>1.79</b>	810	<b>797</b>	<b>2.10</b>	10.61	Lc	
GL90PB	8.85	1/4	HMBP	F	220-240V 50Hz ~1	RSIR	R	C	143	259	<b>660</b>	<b>1.90</b>	796	<b>791</b>	<b>2.20</b>	9.12	Ld	
GL90TB	8.85	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	143	259	<b>660</b>	<b>1.90</b>	796	<b>791</b>	<b>2.20</b>	9.66	Ld	
GL90TC	8.85	1/4	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	143	259	<b>660</b>	<b>1.75</b>	796	<b>791</b>	<b>2.08</b>	11.48	Lc	
GL90TG	8.85	1/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	143	259	<b>660</b>	<b>1.80</b>	796	<b>791</b>	<b>2.08</b>	9.70	Lc	
GU80TB	8.10	1/4	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	272	<b>693</b>	<b>1.99</b>	836	<b>830</b>	<b>2.30</b>	9.80	Uc	
GLY90RAa	9.09	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	169	298	<b>748</b>	<b>2.05</b>	901	<b>896</b>	<b>2.37</b>	10.74	Ub	
GLY90RAb	9.09	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	169	298	<b>748</b>	<b>2.25</b>	901	<b>896</b>	<b>2.61</b>	10.84	Ub	
GL11TB	9.95	1/3	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	190	330	<b>817</b>	<b>1.92</b>	981	<b>977</b>	<b>2.23</b>	9.97	Ld	
GLY12RAa	10.70	3/8	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	349	<b>867</b>	<b>1.97</b>	1064	<b>1047</b>	<b>2.30</b>	10.23	Ld	
GLY12RAb	10.70	3/8	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	349	<b>867</b>	<b>2.20</b>	1064	<b>1047</b>	<b>2.57</b>	10.33	Ld	
GLY12RGa	10.70	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	-	349	<b>867</b>	<b>1.87</b>	1064	<b>1047</b>	<b>2.19</b>	10.43	Ld	
GLY12RGb	10.70	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	-	349	<b>867</b>	<b>1.98</b>	1064	<b>1047</b>	<b>2.32</b>	10.53	Ld	
GPY12RAa	12.10	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	228	401	<b>992</b>	<b>2.03</b>	1191	<b>1186</b>	<b>2.35</b>	13.31	Pd	
GPY12RAb	12.10	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	228	401	<b>992</b>	<b>2.23</b>	1191	<b>1186</b>	<b>2.58</b>	13.42	Pd	
GP14TB	14.17	3/8	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	373	<b>998</b>	<b>1.76</b>	1208	<b>1198</b>	<b>2.03</b>	11.29	Pd	
GP14TG	14.17	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	190	373	<b>998</b>	<b>1.76</b>	1208	<b>1198</b>	<b>2.03</b>	11.98	Pd	
GPY14RAa	14.32	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	296	492	<b>1161</b>	<b>1.97</b>	1386	<b>1384</b>	<b>2.27</b>	12.20	Pd	
GPY14RAb	14.32	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	296	492	<b>1161</b>	<b>2.16</b>	1386	<b>1384</b>	<b>2.50</b>	12.30	Pd	
GP16TB	16.15	3/8	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	476	<b>1204</b>	<b>1.80</b>	1451	<b>1442</b>	<b>2.09</b>	11.93	Pd	
GP16TG	16.15	3/8	HBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	-	476	<b>1204</b>	<b>1.81</b>	1451	<b>1442</b>	<b>2.09</b>	11.93	Pd	
GPY16RAa	16.15	1/2	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	543	<b>1317</b>	<b>1.79</b>	1574	<b>1571</b>	<b>2.09</b>	12.29	Pd	
GPT16RG	16.15	1/2	HBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	-	552	<b>1323</b>	<b>2.13</b>	1600	<b>1586</b>	<b>2.50</b>	12.16	Pd	
GPY16RAa	16.15	1/2	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	307	542	<b>1317</b>	<b>2.02</b>	1574	<b>1571</b>	<b>2.34</b>	12.84	Pd	
GPY16RAb	16.15	1/2	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	307	542	<b>1317</b>	<b>2.15</b>	1574	<b>1571</b>	<b>2.50</b>	12.94	Pd	
GPT18RA	18.00	1/2	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	618	<b>1482</b>	<b>2.06</b>	1783	<b>1774</b>	<b>2.39</b>	12.68	Pd	
GPT18RG	18.00	1/2	HBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	-	602	<b>1443</b>	<b>2.04</b>	1745	<b>1731</b>	<b>2.37</b>	12.84	Pd	
GX18TB	18.40	1/2	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	286	539	<b>1389</b>	<b>1.90</b>	1673	<b>1663</b>	<b>2.20</b>	15.44	Xc	
GX18TG	18.40	1/2	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	286	539	<b>1389</b>	<b>1.90</b>	1673	<b>1663</b>	<b>2.20</b>	16.08	Xc	
GX21TB	20.72	5/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	323	603	<b>1549</b>	<b>1.88</b>	1866	<b>1855</b>	<b>2.18</b>	16.13	Xd	
GX23TB	23.20	5/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	368	677	<b>1729</b>	<b>1.88</b>	2082	<b>2070</b>	<b>2.18</b>	16.33	Xd	
GX23TG	23.20	5/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	368	677	<b>1729</b>	<b>1.79</b>	2082	<b>2070</b>	<b>2.08</b>	16.34	Xd	
GS26T3	25.93	3/4	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	265	703	<b>2070</b>	<b>2.19</b>	2514	<b>2489</b>	<b>2.55</b>	22.70	Sc	
GS26TB	25.93	3/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	265	703	<b>2070</b>	<b>2.08</b>	2514	<b>2489</b>	<b>2.42</b>	22.70	Sc	
GS26TG	25.93	3/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	265	703	<b>2070</b>	<b>2.14</b>	2514	<b>2489</b>	<b>2.49</b>	22.70	Sc	
GS30TB	29.95	7/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	317	785	<b>2451</b>	<b>2.31</b>	3019	<b>2966</b>	<b>2.70</b>	22.70	Sd	
GS30TG	29.95	7/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	317	785	<b>2451</b>	<b>2.31</b>	3019	<b>2966</b>	<b>2.70</b>	23.00	Sd	
GS34TB	34.42	1	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	476	1068	<b>2850</b>	<b>2.26</b>	3420	<b>3408</b>	<b>2.62</b>	21.37	Sd	
GS34TG	34.42	1	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	467	992	<b>2829</b>	<b>2.24</b>	3453	<b>3409</b>	<b>2.64</b>	22.27	Sd	

Compressors  
R134a

Green Cooling Models  
New Models

(\*) Or HF01234yf  
(\*\*) Under development

# R134a (\*) HMBP | HBP • 60 Hz

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN		
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-25	-15	5	10	7.2					
											W	COP		W	COP			
B22G5	2.20	1/16	HBP	S/F	110-115V 60Hz ~1	RSIR	P	C-V	-	72	<b>188</b>	<b>1.83</b>	229	<b>226</b>	<b>2.13</b>	4.80	Bb	
B25G	2.60	1/14	HBP	S/F	220-240V 50/60Hz ~1	RSIR	P	C-V	-	86	<b>224</b>	<b>1.80</b>	274	<b>269</b>	<b>2.10</b>	4.65	Bc	
B25G5L	2.60	1/14	HBP	S/F	115V 60Hz ~1	CSIR	R	C-V	-	74	<b>231</b>	<b>1.93</b>	283	<b>279</b>	<b>2.28</b>	5.35	Be	
B30G5	3.10	1/10	HBP	S/F	110-115V 60Hz ~1	RSIR	R	C-V	-	101	<b>262</b>	<b>1.79</b>	317	<b>314</b>	<b>2.08</b>	4.80	Bc	
B35G5	3.50	1/10	HBP	S/F	110-115V 60Hz ~1	CSIR	R	C-V	-	120	<b>304</b>	<b>1.80</b>	371	<b>366</b>	<b>2.12</b>	4.90	Bc	
B35G0	3.50	1/8	HMBP	S	100V 50/60Hz ~1	RSIR	P	C	84	138	<b>352</b>	<b>2.23</b>	428	<b>423</b>	<b>2.60</b>	5.89	Be	
B38G	3.80	1/8	HBP	S/F	220-240V 50/60Hz ~1	CSIR	R	C-V	-	150	<b>339</b>	<b>1.98</b>	410	<b>406</b>	<b>2.31</b>	5.40	Be	
B38G5L	3.80	1/8	HBP	S/F	110-115V 60Hz ~1	CSIR	R	C-V	-	136	<b>353</b>	<b>1.83</b>	424	<b>422</b>	<b>2.13</b>	5.50	Be	
GL45PE	4.56	1/6	HMBP	F	115V 60Hz ~1	RSIR	R	C	89	157	<b>400</b>	<b>1.59</b>	483	<b>479</b>	<b>1.84</b>	8.87	Lb	
GL45TE	4.56	1/6	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	89	157	<b>400</b>	<b>1.59</b>	483	<b>479</b>	<b>1.84</b>	9.18	Lb	
GL45TG	4.56	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	89	157	<b>400</b>	<b>1.65</b>	483	<b>479</b>	<b>1.92</b>	8.78	Lb	
GL45MG	4.56	1/6	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	204	<b>398</b>	<b>1.65</b>	487	<b>479</b>	<b>1.92</b>	9.37	Lc	
GL60PE	5.68	1/5	HMBP	F	115V 60Hz ~1	RSIR	R	C	111	199	<b>510</b>	<b>1.73</b>	616	<b>612</b>	<b>2.01</b>	9.97	Lc	
GL60TC	5.68	1/5	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	111	199	<b>510</b>	<b>1.74</b>	616	<b>612</b>	<b>2.01</b>	10.38	Lc	
GL60TE	5.68	1/5	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	111	199	<b>510</b>	<b>1.73</b>	616	<b>612</b>	<b>2.01</b>	10.28	Lc	
GL60TG	5.68	1/5	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	111	199	<b>510</b>	<b>1.76</b>	616	<b>612</b>	<b>2.04</b>	9.07	Lc	
GL60MG	5.98	1/5	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	243	<b>499</b>	<b>1.73</b>	619	<b>605</b>	<b>2.02</b>	9.00	Lc	
GUY72RCa	7.20	1/4	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	184	319	<b>765</b>	<b>2.18</b>	913	<b>912</b>	<b>2.51</b>	9.52	Uc	
GUY72RCb	7.20	1/4	HMBP	F	100V 50/60Hz ~1	CSR	R	C-V	181	318	<b>772</b>	<b>2.35</b>	923	<b>921</b>	<b>2.72</b>	9.59	Uc	
GL80PE	7.57	1/5	HMBP	F	115V 60Hz ~1	RSIR	R	C	130	248	<b>647</b>	<b>1.78</b>	781	<b>776</b>	<b>2.04</b>	9.97	Lc	
GL80TC	7.57	1/5	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	130	248	<b>647</b>	<b>1.92</b>	781	<b>776</b>	<b>2.22</b>	10.98	Lc	
GL80TE	7.57	1/5	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	130	248	<b>647</b>	<b>1.78</b>	781	<b>776</b>	<b>2.04</b>	10.68	Lc	
GL80TG	7.57	1/5	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	130	248	<b>647</b>	<b>1.78</b>	781	<b>776</b>	<b>2.04</b>	9.53	Lc	
GL80MG	7.57	1/5	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	344	<b>674</b>	<b>1.84</b>	836	<b>816</b>	<b>2.15</b>	9.53	Lc	
GLY80RDa	8.10	1/5	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	169	299	<b>775</b>	<b>2.02</b>	939	<b>930</b>	<b>2.34</b>	9.74	Lc	
GLY80RDb	8.10	1/5	HMBP	F	115V 60Hz ~1	CSR	R	C-V	169	299	<b>775</b>	<b>2.17</b>	939	<b>930</b>	<b>2.51</b>	9.85	Lc	
GL90MG	8.85	1/4	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	391	<b>772</b>	<b>1.83</b>	947	<b>930</b>	<b>2.11</b>	10.61	Ld	
GL90PE	8.85	1/4	HMBP	F	115V 60Hz ~1	RSIR	R	C	167	303	<b>773</b>	<b>1.78</b>	932	<b>926</b>	<b>2.06</b>	11.27	Ld	
GL90TC	8.85	1/4	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	167	303	<b>773</b>	<b>1.82</b>	932	<b>926</b>	<b>2.10</b>	11.48	Ld	
GL90TE	8.85	1/4	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	167	303	<b>773</b>	<b>1.78</b>	932	<b>926</b>	<b>2.06</b>	9.75	Ld	
GL90TG	8.85	1/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	168	303	<b>773</b>	<b>1.71</b>	932	<b>926</b>	<b>1.97</b>	9.70	Ld	
GLY90RDa	9.09	1/4	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	198	348	<b>874</b>	<b>1.95</b>	1053	<b>1047</b>	<b>2.25</b>	10.59	Lc	
GLY90RDb	9.09	1/4	HMBP	F	115V 60Hz ~1	CSR	R	C-V	198	348	<b>874</b>	<b>2.10</b>	1053	<b>1047</b>	<b>2.42</b>	10.69	Lc	
GLY12RGA	10.70	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	-	405	<b>1007</b>	<b>1.90</b>	1216	<b>1207</b>	<b>2.22</b>	10.43	Ld	
GLY12RGB	10.70	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	-	405	<b>1007</b>	<b>2.07</b>	1216	<b>1207</b>	<b>2.40</b>	10.53	Ld	
GLY12RRa	10.70	3/8	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	222	402	<b>1015</b>	<b>1.90</b>	1221	<b>1214</b>	<b>2.20</b>	11.14	Ld	
GLY12RRb	10.70	3/8	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	222	402	<b>1015</b>	<b>2.01</b>	1221	<b>1214</b>	<b>2.32</b>	11.24	Ld	
GPY12RDa	12.10	3/8	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	280	480	<b>1150</b>	<b>1.95</b>	1375	<b>1372</b>	<b>2.25</b>	12.03	Pd	
GPY12RDb	12.10	3/8	HMBP	F	115V 60Hz ~1	CSR	R	C-V	280	480	<b>1150</b>	<b>2.11</b>	1375	<b>1372</b>	<b>2.44</b>	12.13	Pd	
GP14TG	14.17	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	222	437	<b>1168</b>	<b>1.76</b>	1413	<b>1401</b>	<b>2.03</b>	11.98	Pd	
GPY14RDa	14.32	1/2	HBP	F	115V 60Hz ~1	CSIR	R	C-V	-	515	<b>1410</b>	<b>1.90</b>	1738	<b>1706</b>	<b>2.22</b>	12.03	Pd	
GPY14RDb	14.32	1/2	HBP	F	115V 60Hz ~1	CSR	R	C-V	-	515	<b>1410</b>	<b>2.02</b>	1738	<b>1706</b>	<b>2.36</b>	12.13	Pd	
GP16TE	16.15	3/8	HBP	F	115V 60Hz ~1	CSIR	R	C-V	-	556	<b>1408</b>	<b>1.69</b>	1697	<b>1686</b>	<b>1.96</b>	12.20	Pd	
GP16TG	16.15	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	-	556	<b>1408</b>	<b>1.74</b>	1697	<b>1686</b>	<b>2.00</b>	11.93	Pd	
GPT16RG	16.15	1/2	HBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	-	650	<b>1515</b>	<b>2.02</b>	1827	<b>1814</b>	<b>2.33</b>	12.16	Pd	

Green Cooling Models  
New Models

(\*) Or HF01234yf  
(\*\*) Under development

This table continues in the following page

## R134a (\*) HMBP | HBP • 60 Hz

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN		
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-25	-15	5	10	7.2					
									W	COP	W	COP	W	COP				
GPY16RDa	16.15	1/2	HBP	F	115V 60Hz ~1	CSIR	R	C-V	-	614	<b>1518</b>	<b>1.88</b>	1822	<b>1814</b>	<b>2.17</b>	12.05	Pd	
GPY16RDb	16.15	1/2	HBP	F	115V 60Hz ~1	CSR	R	C-V	-	614	<b>1518</b>	<b>2.00</b>	1822	<b>1814</b>	<b>2.31</b>	12.15	Pd	
GPT18RG	18.00	1/2	HBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	-	693	<b>1640</b>	<b>1.90</b>	1979	<b>1964</b>	<b>2.20</b>	12.84	Pd	
GX18TG	18.40	1/2	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	333	630	<b>1625</b>	<b>1.87</b>	1957	<b>1946</b>	<b>2.17</b>	16.08	Xc	
GX23TG	23.20	5/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	429	792	<b>2021</b>	<b>1.71</b>	2433	<b>2419</b>	<b>1.98</b>	16.34	Xd	
GX23TF (*)	23.20	5/8	HMBP	F	208-230V 60Hz ~1	CSIR	R	C-V	429	792	<b>2021</b>	<b>1.71</b>	2433	<b>2419</b>	<b>1.98</b>	16.34	Xd	
GS26T3	25.93	3/4	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	307	824	<b>2419</b>	<b>2.07</b>	2935	<b>2908</b>	<b>2.40</b>	22.70	Sc	
GS26TG	25.93	3/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	307	824	<b>2419</b>	<b>2.06</b>	2935	<b>2908</b>	<b>2.40</b>	22.70	Sc	
GS30TG	29.95	7/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	370	920	<b>2865</b>	<b>2.23</b>	3527	<b>3466</b>	<b>2.61</b>	23.00	Sd	
GS34TF	34.42	1	HMBP	F	220-230V 60Hz ~1	CSR	R	C-V	550	1247	<b>3327</b>	<b>2.17</b>	3990	<b>3977</b>	<b>2.50</b>	22.70	Sd	
GS34TG	34.42	1	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	440	1093	<b>3248</b>	<b>2.11</b>	3963	<b>3913</b>	<b>2.44</b>	22.27	Sd	

Green Cooling Models

(\*) Or HFO1234yf

New Models

(\*\*) Under development

Conditions			
CECOMAF		ASHRAE	
LBP (A)	HMBP/HBP (C)	LBP (B)	HMBP/HBP (D)
Evaporating temperature °C	-25	5	-23.3
Condensing temperature °C	55	55	55
Liquid temperature °C	55	55	32
Suction temperature °C	32	32	32
Ambient temperature °C	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/R507

**R404A • R507 (\*) LBP • 50 Hz**

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN		
								COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °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	<b>133</b>	<b>0.66</b>	274	<b>198</b>	<b>0.94</b>	8.57	Lb
ML45FG	4.56	1/6	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	52	100	<b>133</b>	<b>0.68</b>	274	<b>198</b>	<b>0.96</b>	10.87	Lc
MLY45LAa	4.56	1/6	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	61	118	<b>157</b>	<b>0.92</b>	317	<b>233</b>	<b>1.30</b>	9.55	Lc
MLY45LAb	4.56	1/6	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	61	118	<b>157</b>	<b>0.98</b>	317	<b>233</b>	<b>1.38</b>	9.65	Lc
ML60FB	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	73	140	<b>186</b>	<b>0.86</b>	371	<b>275</b>	<b>1.20</b>	8.84	Lc
ML60FBa (*)	5.98	1/5	LBP	F	220-240V 50Hz ~1	RSIR	P	C	73	140	<b>186</b>	<b>0.86</b>	371	<b>275</b>	<b>1.20</b>	8.84	Lc
ML60FG	5.98	1/5	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	69	134	<b>177</b>	<b>0.71</b>	351	<b>262</b>	<b>1.01</b>	10.87	Lc
MLY60LAa	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	86	168	<b>221</b>	<b>0.90</b>	428	<b>326</b>	<b>1.26</b>	10.02	Lc
MLY60LAb	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	86	168	<b>221</b>	<b>0.96</b>	428	<b>326</b>	<b>1.36</b>	10.12	Lc
ML80FB	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	99	189	<b>251</b>	<b>0.77</b>	505	<b>371</b>	<b>1.09</b>	9.47	Lc
ML80FG	8.10	1/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	99	190	<b>252</b>	<b>0.77</b>	505	<b>372</b>	<b>1.08</b>	12.20	Ld
MLY80LAa	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	104	207	<b>275</b>	<b>0.91</b>	548	<b>407</b>	<b>1.28</b>	9.59	Ld
MLY80LAb	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	104	207	<b>275</b>	<b>0.98</b>	548	<b>407</b>	<b>1.38</b>	9.69	Ld
ML90FB	8.85	1/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	104	207	<b>275</b>	<b>0.83</b>	548	<b>407</b>	<b>1.16</b>	9.59	Ld
ML90FBa	8.85	1/3	LBP	F	220-240V 50Hz ~1	RSIR	P	C	104	207	<b>275</b>	<b>0.83</b>	548	<b>407</b>	<b>1.16</b>	9.59	Ld
ML90FG	8.85	1/3	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	104	207	<b>275</b>	<b>0.80</b>	548	<b>407</b>	<b>1.13</b>	10.78	Ld
MLY90LAa	9.09	1/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	121	236	<b>311</b>	<b>0.91</b>	612	<b>460</b>	<b>1.28</b>	10.35	Ld
MLY90LAb	9.09	1/3	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	121	236	<b>311</b>	<b>0.98</b>	612	<b>460</b>	<b>1.38</b>	10.45	Ld
MLY12LAa	10.70	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	156	294	<b>387</b>	<b>0.94</b>	762	<b>570</b>	<b>1.33</b>	11.18	Ld
MLY12LAb	10.70	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	156	294	<b>387</b>	<b>1.00</b>	762	<b>570</b>	<b>1.41</b>	11.28	Ld
MLY12LGa	10.70	3/8	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	165	297	<b>387</b>	<b>0.83</b>	756	<b>570</b>	<b>1.17</b>	11.06	Ld
MLY12LGb	10.70	3/8	LBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	165	302	<b>394</b>	<b>0.90</b>	768	<b>581</b>	<b>1.28</b>	11.16	Ld
MPT12LA	12.10	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	194	347	<b>451</b>	<b>1.01</b>	873	<b>663</b>	<b>1.42</b>	12.23	Pd
MP14FB	14.17	1/2	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	121	304	<b>421</b>	<b>0.79</b>	877	<b>629</b>	<b>1.12</b>	12.07	Pd
MP14FG	14.17	1/2	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	121	303	<b>420</b>	<b>0.79</b>	877	<b>627</b>	<b>1.12</b>	12.03	Pd
MPT14LA	14.32	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	242	419	<b>534</b>	<b>0.99</b>	984	<b>780</b>	<b>1.38</b>	12.25	Pd
MPT16LA	16.15	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	245	462	<b>605</b>	<b>1.00</b>	1168	<b>890</b>	<b>1.40</b>	12.37	Pd
MPT18LA	18.00	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	269	504	<b>657</b>	<b>0.96</b>	1260	<b>966</b>	<b>1.35</b>	12.81	Pd
MX18FBa	18.40	5/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	173	396	<b>546</b>	<b>0.96</b>	1147	<b>815</b>	<b>1.36</b>	16.29	Xd
MX21FBa	20.72	3/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	212	463	<b>630</b>	<b>0.96</b>	1296	<b>937</b>	<b>1.35</b>	16.66	Xd
MX21FGa	20.72	3/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	212	463	<b>630</b>	<b>0.96</b>	1296	<b>937</b>	<b>1.35</b>	16.76	Xd
MX23FBa	23.20	7/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	259	534	<b>718</b>	<b>0.96</b>	1455	<b>1065</b>	<b>1.35</b>	16.61	Xd
MX23FGa	23.20	7/8	LBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	259	534	<b>718</b>	<b>0.95</b>	1455	<b>1065</b>	<b>1.34</b>	16.74	Xd
MS26F3	25.93	3/4	LBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	173	548	<b>777</b>	<b>0.95</b>	1626	<b>1164</b>	<b>1.35</b>	20.80	Sd
MS26FB	25.93	3/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	182	571	<b>814</b>	<b>0.97</b>	1737	<b>1222</b>	<b>1.37</b>	21.63	Sd
MS26FG	25.93	3/4	LBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	173	547	<b>775</b>	<b>0.95</b>	1626	<b>1162</b>	<b>1.35</b>	22.11	Sd
MS30F3	29.95	7/8	LBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	207	655	<b>931</b>	<b>0.93</b>	1968	<b>1397</b>	<b>1.32</b>	24.00	Sd
MS30FB	29.95	7/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	207	656	<b>932</b>	<b>0.95</b>	1969	<b>1398</b>	<b>1.35</b>	22.70	Sd
MS34F3	34.42	1	LBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	242	762	<b>1085</b>	<b>0.99</b>	2311	<b>1630</b>	<b>1.40</b>	22.90	Sd
MS34FB	34.42	1	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	242	759	<b>1083</b>	<b>0.95</b>	2311	<b>1626</b>	<b>1.35</b>	22.13	Sd
MS38FB (**)	38.00	1 1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	263	826	<b>1178</b>	<b>0.94</b>	2513	<b>1769</b>	<b>1.34</b>	22.10	Sd

 Green Cooling Models

 (\*) Or R407B / R452A

 (\*\*\*) Under development

## R404A • R507 (\*) LBP • 60 Hz

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY							WEIGHT Kg	DESIGN		
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C										
									Cecomaf (W)				Ashrae						
									-40	-30	-25		-10	-23.3		kcal/h	COP		
ML45FG	4.56	1/6	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	61	117	<b>157</b>	<b>0.68</b>	321	<b>233</b>	<b>0.97</b>	10.87	Lc		
ML45FR	4.56	1/6	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	61	117	<b>157</b>	<b>0.72</b>	321	<b>233</b>	<b>1.01</b>	9.21	Lc		
MLY45LRa	4.56	1/6	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	64	143	<b>192</b>	<b>0.87</b>	379	<b>284</b>	<b>1.23</b>	9.20	Lc		
MLY45LRb	4.56	1/6	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	64	143	<b>192</b>	<b>0.90</b>	379	<b>284</b>	<b>1.27</b>	9.30	Lc		
ML60FG	5.98	1/5	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	81	157	<b>207</b>	<b>0.70</b>	411	<b>306</b>	<b>0.99</b>	10.87	Lc		
ML60FR	5.98	1/5	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	81	157	<b>207</b>	<b>0.72</b>	411	<b>306</b>	<b>1.01</b>	9.54	Lc		
MLY60LDa	5.98	1/5	LBP	F	115V 60Hz ~1	CSIR	R	C-V	102	197	<b>259</b>	<b>0.89</b>	501	<b>381</b>	<b>1.25</b>	10.40	Lc		
MLY60LDb	5.98	1/5	LBP	F	115V 60Hz ~1	CSR	R	C-V	102	197	<b>259</b>	<b>0.95</b>	501	<b>381</b>	<b>1.34</b>	10.50	Lc		
ML80FG	8.10	1/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	117	223	<b>296</b>	<b>0.76</b>	590	<b>437</b>	<b>1.07</b>	12.20	Ld		
ML80FR	8.10	1/4	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	117	223	<b>296</b>	<b>0.75</b>	590	<b>437</b>	<b>1.05</b>	11.97	Ld		
ML90FG	8.85	1/3	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	121	242	<b>323</b>	<b>0.80</b>	642	<b>477</b>	<b>1.12</b>	10.78	Ld		
ML90FR	8.85	1/3	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	121	242	<b>323</b>	<b>0.79</b>	642	<b>477</b>	<b>1.11</b>	11.97	Ld		
MLT90CD	9.09	1/3	LBP	F	115V 60Hz ~1	RSCR	P	C	164	290	<b>382</b>	<b>1.03</b>	770	<b>564</b>	<b>1.45</b>	11.40	Ld		
MLT90CDC	9.09	1/3	LBP	S	115V 60Hz ~1	CSR	R	C-V	159	284	<b>373</b>	<b>0.99</b>	750	<b>551</b>	<b>1.40</b>	11.55	Ld		
MLT90LD	9.09	1/4	LBP	F	115V 60Hz ~1	CSR	R	C-V	159	284	<b>373</b>	<b>0.99</b>	750	<b>551</b>	<b>1.40</b>	11.80	Ld		
MLY12LFa	10.70	3/8	LBP	F	208-230V 60Hz ~1	CSIR	R	C-V	179	343	<b>451</b>	<b>0.92</b>	882	<b>665</b>	<b>1.29</b>	11.06	Ld		
MLY12LFb	10.70	3/8	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	179	343	<b>451</b>	<b>0.94</b>	882	<b>665</b>	<b>1.33</b>	11.16	Ld		
MLY12LGa	10.70	3/8	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	190	351	<b>458</b>	<b>0.86</b>	884	<b>673</b>	<b>1.22</b>	11.06	Ld		
MLY12LGb	10.70	3/8	LBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	190	357	<b>466</b>	<b>0.91</b>	889	<b>684</b>	<b>1.29</b>	11.16	Ld		
MLY12LRa	10.70	3/8	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	199	373	<b>478</b>	<b>0.96</b>	866	<b>698</b>	<b>1.34</b>	11.01	Ld		
MLY12LRb	10.70	3/8	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	200	369	<b>476</b>	<b>1.00</b>	890	<b>698</b>	<b>1.41</b>	11.11	Ld		
MPT12CD	12.10	3/8	LBP	F	115V 60Hz ~1	RSCR	P	C	225	397	<b>515</b>	<b>1.01</b>	993	<b>756</b>	<b>1.41</b>	12.35	Pd		
MPT12LD	12.10	3/8	LBP	F	115V 60Hz ~1	CSR	R	C-V	225	397	<b>515</b>	<b>1.01</b>	993	<b>756</b>	<b>1.41</b>	11.50	Pd		
MP14FG	14.17	1/2	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	142	355	<b>492</b>	<b>0.82</b>	1026	<b>734</b>	<b>1.15</b>	12.03	Pd		
MLT14LD	14.32	1/2	LBP	F	115V 60Hz ~1	CSR	R	C-V	258	453	<b>590</b>	<b>0.96</b>	1156	<b>868</b>	<b>1.35</b>	12.20	Pd		
MLT14LF	14.32	1/2	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	262	474	<b>621</b>	<b>0.96</b>	1223	<b>914</b>	<b>1.36</b>	12.30	Pd		
MPT16LD	16.10	1/2	LBP	F	115V 60Hz ~1	CSR	R	C-V	269	509	<b>666</b>	<b>0.95</b>	1285	<b>979</b>	<b>1.33</b>	12.65	Pd		
MX21FGa	20.72	3/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	247	540	<b>735</b>	<b>0.94</b>	1515	<b>1093</b>	<b>1.32</b>	16.76	Xd		
MX21FR	20.72	3/4	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	247	627	<b>768</b>	<b>0.98</b>	1001	<b>1093</b>	<b>1.32</b>	17.71	Xd		
MX23FGa	23.20	7/8	LBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	303	627	<b>843</b>	<b>0.93</b>	1711	<b>1250</b>	<b>1.32</b>	16.74	Xd		
MS26F3	25.93	3/4	LBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	202	641	<b>909</b>	<b>0.92</b>	1902	<b>1361</b>	<b>1.31</b>	20.80	Xd		
MS26FF	25.93	3/4	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	202	641	<b>909</b>	<b>0.91</b>	1902	<b>1361</b>	<b>1.30</b>	22.60	Sd		
MS26FG	25.93	3/4	LBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	202	640	<b>907</b>	<b>0.92</b>	1902	<b>1358</b>	<b>1.31</b>	22.11	Sd		
MS30F3	29.95	7/8	LBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	242	763	<b>1086</b>	<b>0.94</b>	2302	<b>1628</b>	<b>1.32</b>	24.00	Sd		
MS30FF	29.95	7/8	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	242	763	<b>1086</b>	<b>0.92</b>	2302	<b>1628</b>	<b>1.31</b>	22.70	Sd		
MS30FG	29.95	7/8	LBP	F	230V 60Hz ~1	CSR	R	C-V	277	885	<b>1263</b>	<b>0.96</b>	2696	<b>1896</b>	<b>1.35</b>	22.90	Sd		
MS34F3	34.42	1	LBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	277	838	<b>1216</b>	<b>0.91</b>	2738	<b>1838</b>	<b>1.30</b>	22.90	Sd		
MS34FF	34.42	1	LBP	F	208V 60Hz ~1	CSR	R	C-V	272	838	<b>1216</b>	<b>0.91</b>	2738	<b>1838</b>	<b>1.30</b>	22.90	Sd		

Green Cooling Models

(\*) Or R407B / R452A

New Models

(\*\*) Under development

## R404A • R507 (\*) HMBP | HBP • 50 Hz

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN		
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-25	-15	5	10	7.2	W	COP			
ML40TB	4.05	1/6	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	132	212	<b>470</b>	<b>1.41</b>	555	<b>593</b>	<b>1.74</b>	9.47	Lc	
ML40TG	4.05	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	132	212	<b>470</b>	<b>1.41</b>	555	<b>593</b>	<b>1.74</b>	9.12	Lc	
ML45TB	4.56	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	150	237	<b>525</b>	<b>1.47</b>	621	<b>663</b>	<b>1.82</b>	9.10	Lc	
ML45TG	4.50	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	160	261	<b>572</b>	<b>1.59</b>	673	<b>721</b>	<b>1.95</b>	9.14	Lc	
MLT45RG	4.56	1/5	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	160	262	<b>591</b>	<b>1.91</b>	699	<b>747</b>	<b>2.36</b>	9.75	Ld	
ML60TB	5.68	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	165	276	<b>643</b>	<b>1.50</b>	765	<b>814</b>	<b>1.85</b>	9.29	Lc	
ML60TG	5.68	1/4	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	165	276	<b>643</b>	<b>1.50</b>	765	<b>814</b>	<b>1.85</b>	10.57	Lc	
MLY60RAa	5.98	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	210	344	<b>761</b>	<b>1.74</b>	896	<b>959</b>	<b>2.15</b>	10.49	Lc	
MLY60RAb	5.98	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	210	344	<b>761</b>	<b>1.91</b>	896	<b>959</b>	<b>2.36</b>	10.59	Lc	
MLY60RGa	5.98	1/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	215	341	<b>765</b>	<b>1.85</b>	907	<b>968</b>	<b>2.29</b>	10.24	Lc	
MLY60RGb	5.98	1/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	216	352	<b>778</b>	<b>2.00</b>	916	<b>980</b>	<b>2.48</b>	10.34	Lc	
ML80TB	7.57	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	225	383	<b>875</b>	<b>1.61</b>	1034	<b>1105</b>	<b>1.99</b>	9.68	Ld	
ML80TG	7.57	3/8	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	225	383	<b>875</b>	<b>1.61</b>	1034	<b>1105</b>	<b>1.99</b>	11.81	Ld	
MLY80RAa	8.10	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	280	461	<b>1049</b>	<b>1.84</b>	1243	<b>1326</b>	<b>2.27</b>	11.29	Ld	
MLY80RAb	8.00	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	280	461	<b>1049</b>	<b>1.99</b>	1243	<b>1326</b>	<b>2.46</b>	11.39	Ld	
ML90TB	8.85	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	280	461	<b>1049</b>	<b>1.61</b>	1243	<b>1326</b>	<b>1.98</b>	12.31	Ld	
ML90TG	8.85	3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	280	461	<b>1049</b>	<b>1.61</b>	1243	<b>1326</b>	<b>1.98</b>	11.29	Ld	
MLY90RAa	9.09	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	316	509	<b>1125</b>	<b>1.73</b>	1327	<b>1419</b>	<b>2.13</b>	11.34	Ld	
MLY90RAb	9.09	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	316	508	<b>1129</b>	<b>1.89</b>	1333	<b>1425</b>	<b>2.34</b>	11.44	Ld	
MLT12RA	10.70	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	396	632	<b>1379</b>	<b>1.88</b>	1622	<b>1738</b>	<b>2.31</b>	11.59	Ld	
MLT12RG	10.70	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	365	601	<b>1337</b>	<b>1.83</b>	1576	<b>1686</b>	<b>2.26</b>	12.24	Ld	
MPT12RG	12.10	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	482	689	<b>1489</b>	<b>1.87</b>	1769	<b>1884</b>	<b>2.33</b>	12.89	Pd	
MPT12RA	12.10	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	437	723	<b>1559</b>	<b>1.91</b>	1823	<b>1960</b>	<b>2.35</b>	12.20	Pd	
MPT14RA	14.32	1/2	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	789	<b>1750</b>	<b>1.78</b>	2068	<b>2210</b>	<b>2.20</b>	12.25	Pd	
MX16TBa	16.03	7/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	481	814	<b>1868</b>	<b>1.74</b>	2212	<b>2361</b>	<b>2.15</b>	16.33	Xd	
MX18TBa	18.40	7/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	551	932	<b>2143</b>	<b>1.76</b>	2540	<b>2710</b>	<b>2.18</b>	16.33	Xd	
MX18TGA	18.40	7/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	551	932	<b>2143</b>	<b>1.76</b>	2540	<b>2710</b>	<b>2.18</b>	16.24	Xd	
MX21TBa	20.72	1	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	621	1047	<b>2409</b>	<b>1.74</b>	2857	<b>3047</b>	<b>2.15</b>	16.52	Xd	
MX21TGA	20.72	1	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	621	1047	<b>2409</b>	<b>1.74</b>	2857	<b>3047</b>	<b>2.15</b>	16.74	Sb	
MS18T3	18.10	7/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	421	834	<b>2124</b>	<b>1.89</b>	2543	<b>2698</b>	<b>2.35</b>	20.00	Xd	
MS22T3	21.75	1	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	451	970	<b>2560</b>	<b>1.98</b>	3072	<b>3256</b>	<b>2.45</b>	20.00	Sb	
MS22TB	21.75	1	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	451	967	<b>2550</b>	<b>2.02</b>	3060	<b>3244</b>	<b>2.50</b>	20.51	Sc	
MS26T3	25.93	1 3/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	671	1289	<b>3166</b>	<b>1.98</b>	3769	<b>4012</b>	<b>2.45</b>	18.60	Sd	
MS26TB	25.93	1 3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	671	1288	<b>3164</b>	<b>2.00</b>	3767	<b>4010</b>	<b>2.46</b>	22.12	Sd	
MS26TG	25.93	1 3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	671	1289	<b>3166</b>	<b>2.00</b>	3769	<b>4012</b>	<b>2.46</b>	23.00	Sd	
MS34TB	34.42	1 5/8	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	1850	<b>4205</b>	<b>1.89</b>	4930	<b>5292</b>	<b>2.30</b>	22.21	Sd	
MS34TG	34.42	1 5/8	HBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	-	1850	<b>4205</b>	<b>1.89</b>	4930	<b>5292</b>	<b>2.30</b>	22.78	Sd	
MS34T3	34.42	1 5/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	1002	1850	<b>4205</b>	<b>1.79</b>	4930	<b>5292</b>	<b>2.20</b>	22.80	Sd	
MS38TB (**)	38.00	2	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	1998	<b>4542</b>	<b>1.89</b>	5325	<b>5716</b>	<b>2.29</b>	22.90	Sd	

Green Cooling Models

(\*) Or R407B / R452A

New Models

(\*\*) Under development

## R404A • R507 (\*) HMBP | HBP • 60 Hz

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN		
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-25	-15	5	10	7.2					
ML40TG	4.05	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	155	248	<b>553</b>	<b>1.39</b>	653	<b>698</b>	<b>1.70</b>	9.12	Lc	
ML45TG	4.56	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	190	310	<b>672</b>	<b>1.55</b>	788	<b>846</b>	<b>1.89</b>	9.14	Lc	
MLT45RG	4.56	1/5	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	192	314	<b>687</b>	<b>1.83</b>	808	<b>865</b>	<b>2.25</b>	9.75	Ld	
ML60TG	5.68	1/4	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	193	323	<b>753</b>	<b>1.49</b>	896	<b>954</b>	<b>1.83</b>	10.57	Lc	
ML60TR	5.68	1/4	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	193	323	<b>753</b>	<b>1.48</b>	896	<b>954</b>	<b>1.83</b>	10.58	Lc	
MLY60RDa	5.98	1/4	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	250	408	<b>900</b>	<b>1.70</b>	1059	<b>1134</b>	<b>2.10</b>	10.55	Lc	
MLY60RDb	5.98	1/4	HMBP	F	115V 60Hz ~1	CSR	R	C-V	250	408	<b>900</b>	<b>1.83</b>	1059	<b>1134</b>	<b>2.27</b>	10.65	Lc	
MLY60RGa	5.98	1/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	257	407	<b>883</b>	<b>1.74</b>	1039	<b>1113</b>	<b>2.14</b>	10.24	Lc	
MLY60RGb	5.98	1/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	258	416	<b>897</b>	<b>1.89</b>	1051	<b>1128</b>	<b>2.33</b>	10.34	Lc	
ML80TG	7.57	3/8	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	263	448	<b>1022</b>	<b>1.59</b>	1208	<b>1291</b>	<b>1.96</b>	11.81	Ld	
MLY80RDa	8.10	3/8	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	329	541	<b>1224</b>	<b>1.75</b>	1449	<b>1547</b>	<b>2.15</b>	11.21	Ld	
MLY80RDb	8.10	3/8	HMBP	F	115V 60Hz ~1	CSR	R	C-V	329	541	<b>1224</b>	<b>1.81</b>	1449	<b>1547</b>	<b>2.22</b>	11.31	Ld	
ML90TG	8.85	3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	329	539	<b>1227</b>	<b>1.54</b>	1454	<b>1551</b>	<b>1.89</b>	11.29	Ld	
MLT12RG	10.70	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	441	702	<b>1553</b>	<b>1.75</b>	1833	<b>1960</b>	<b>2.16</b>	12.24	Ld	
MLT12RR	10.70	1/2	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	463	736	<b>1560</b>	<b>1.75</b>	1825	<b>1961</b>	<b>2.15</b>	11.96	Ld	
MPT12RG	12.10	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	-	795	<b>1725</b>	<b>1.79</b>	2043	<b>2179</b>	<b>2.22</b>	12.89	Pd	
MPT14RF	14.32	1/2	HBP	F	208-230V 60Hz ~1	CSR	R	C-V	-	929	<b>1990</b>	<b>1.56</b>	2351	<b>2512</b>	<b>1.91</b>	12.67	Pd	
MPT14RD (*)	14.32	1/2	HBP	F	115V 60Hz ~1	CSR	R	C-V	-	929	<b>1990</b>	<b>1.56</b>	2351	<b>2512</b>	<b>1.91</b>	12.67	Pd	
MX16TE	16.03	7/8	HMBP	F	115V 60Hz ~1	CSR	R	C-V	561	949	<b>2185</b>	<b>1.62</b>	2589	<b>2762</b>	<b>2.00</b>	17.20	Xd	
MX18TE	18.40	7/8	HMBP	F	115V 60Hz ~1	CSR	R	C-V	644	1090	<b>2507</b>	<b>1.62</b>	2972	<b>3170</b>	<b>2.00</b>	17.20	Xd	
MX18TGA	18.40	7/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	644	1090	<b>2507</b>	<b>1.74</b>	2972	<b>3170</b>	<b>2.15</b>	16.24	Xd	
MX21TGA	20.72	1	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	726	1211	<b>2781</b>	<b>1.72</b>	3299	<b>3518</b>	<b>2.12</b>	16.74	Sb	
MS18T3	18.10	7/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	491	971	<b>2471</b>	<b>1.82</b>	2959	<b>3140</b>	<b>2.25</b>	20.00	Sb	
MS22T3	21.75	1	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	527	1135	<b>2995</b>	<b>1.94</b>	3595	<b>3810</b>	<b>2.40</b>	20.00	Sb	
MS26T3	25.93	1,375	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	785	1508	<b>3705</b>	<b>1.84</b>	4411	<b>4695</b>	<b>2.25</b>	18.60	Sd	
MS26TG	25.93	1,375	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	785	1508	<b>3705</b>	<b>1.93</b>	4411	<b>4695</b>	<b>2.37</b>	23.00	Sd	
MS34TG	34.42	1,625	HBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	-	2163	<b>4917</b>	<b>1.71</b>	5762	<b>6187</b>	<b>2.10</b>	22.78	Sd	
MS34T3	34.42	1,625	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	1172	2164	<b>4916</b>	<b>1.71</b>	5764	<b>6187</b>	<b>2.10</b>	22.80	Sd	

Green Cooling Models

(\*) Or R407B / R452A

New Models

(\*\*) Under development

Conditions			
CECOMAF		ASHRAE	
LBP (A)	HMBP/HBP (C)	LBP (B)	HMBP/HBP (D)
-25	5	-23.3	7.2
55	55	55	55
55	55	32	46
32	32	32	35
32	32	32	35

All R404A Cubigel Compressor® range can be used with R452A. For detailed information, refer to the statement at [www.huayicompressor.es](http://www.huayicompressor.es)

### Measurement conversion

R404A

W (A) x 1.50 = W (B)

W (C) x 1.26 = W (D)

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



# 3

## Compressors Catalogue

**DC/VSC**

## R134a (\*) HMBP • 50 | 60 Hz

## Variable Speed Compressors

	MODEL	DISPLACEMENT cm <sup>3</sup>	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	EXPANSION	SPEED rpm	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN		
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-25	-15	+5	+10	+7.2	W (W/W)				
 GLT99FSN	9.95	HMBP	F	220-240V 50/60Hz ~1	ECM	C-V	1800	115	205	<b>542</b>	<b>2.52</b>	658	<b>651</b>	<b>2.92</b>	11.20	Lc		
							2100	135	242	<b>630</b>	<b>2.60</b>	764	<b>787</b>	<b>2.98</b>				
							2400	153	275	<b>712</b>	<b>2.54</b>	860	<b>854</b>	<b>2.92</b>				
							3000	188	340	<b>868</b>	<b>2.42</b>	1046	<b>1040</b>	<b>2.77</b>				
							3600	222	391	<b>1030</b>	<b>2.30</b>	1253	<b>1238</b>	<b>2.62</b>				

## R290 HMBP • 50 | 60 Hz

## Variable Speed Compressors

	MODEL	DISPLACEMENT cm <sup>3</sup>	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	EXPANSION	SPEED rpm	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN		
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-25	-15	+5	+10	+7.2	W (W/W)				
 NLT60FSN (**)	5.98	HMBP	F	220-240V 50/60Hz ~1	ECM	C	1800	101	180	<b>476</b>	<b>2.76</b>	578	<b>541</b>	<b>3.08</b>	10.80	Lc		
							2100	119	214	<b>557</b>	<b>2.79</b>	675	<b>632</b>	<b>3.12</b>				
							2400	136	244	<b>632</b>	<b>2.75</b>	764	<b>718</b>	<b>3.07</b>				
							3000	171	308	<b>787</b>	<b>2.63</b>	948	<b>893</b>	<b>2.94</b>				
							3600	203	358	<b>940</b>	<b>2.55</b>	1144	<b>1067</b>	<b>2.85</b>				

## R290 LBP • 50 | 60 Hz

## Variable Speed Compressors

	MODEL	DISPLACEMENT cm <sup>3</sup>	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	EXPANSION	SPEED rpm	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN		
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-40	-30	+25	+10	+23.3	W (W/W)				
 NVT70FSC (**)	7.00	LMBP	F	220-240V 50/60Hz ~1	ECM	C	1800	65	110	<b>145</b>	<b>1.28</b>	293	<b>196</b>	<b>1.65</b>	6.20	Vb		
							2100	73	127	<b>166</b>	<b>1.31</b>	328	<b>223</b>	<b>1.70</b>				
							2400	89	157	<b>204</b>	<b>1.32</b>	398	<b>275</b>	<b>1.72</b>				
							3000	107	196	<b>252</b>	<b>1.31</b>	492	<b>339</b>	<b>1.70</b>				
							3600	127	232	<b>298</b>	<b>1.29</b>	581	<b>400</b>	<b>1.66</b>				
 NLT12FSC (**)	12.10	LMBP	F	220-240V 50/60Hz ~1	ECM	C	1800	104	178	<b>233</b>	<b>1.23</b>	472	<b>316</b>	<b>1.58</b>	8.95	Ld		
							2100	118	205	<b>268</b>	<b>1.26</b>	528	<b>358</b>	<b>1.63</b>				
							2400	134	236	<b>307</b>	<b>1.24</b>	598	<b>413</b>	<b>1.61</b>				
							3000	161	294	<b>378</b>	<b>1.23</b>	737	<b>508</b>	<b>1.59</b>				
							3600	191	348	<b>448</b>	<b>1.20</b>	873	<b>601</b>	<b>1.55</b>				
 NPT12FSC	12.10	LBP	F	220-240V 50/60Hz ~1	ECM	C	1800	115	196	<b>257</b>	<b>1.18</b>	521	<b>348</b>	<b>1.52</b>	12.10	Pc		
							2100	134	233	<b>305</b>	<b>1.28</b>	601	<b>408</b>	<b>1.65</b>				
							2400	152	268	<b>349</b>	<b>1.26</b>	680	<b>470</b>	<b>1.63</b>				
							3000	178	326	<b>419</b>	<b>1.25</b>	-	<b>563</b>	<b>1.60</b>				
							3600	216	393	<b>506</b>	<b>1.22</b>	-	<b>679</b>	<b>1.57</b>				

Green Cooling Models

(\*) Or HF0123yf (\*\*\*) Model under development. Provisional performances/data.

**R134a (\*) LBP | MBP | HBP • 12-42 DC**
**DC Compressors**

MODEL	DISPLACEMENT cm <sup>3</sup>	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	EXPANSION	SPEED rpm	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN Lc (**)					
								COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C												
								Cecomaf (W)				Ashrae								
								-25	-15	+5	+10	+7.2								
								W		COP	W		(W/W)							
GLT80TDC 24-42V		8.10		HMBP		F		24-42V DC		ECM		C		1500						
								78		139		<b>362</b>		<b>1.93</b>						
								2000		107		<b>487</b>		<b>2.06</b>						
								2500		135		<b>601</b>		<b>1.99</b>						
								3000		161		<b>711</b>		<b>1.91</b>						
								3500		185		<b>818</b>		<b>1.82</b>						
								185		320		<b>818</b>		<b>1.82</b>						
								185		320		<b>818</b>		<b>1.82</b>						
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								185		320		<b>818</b>		<b>1.82</b>						





# Technical Information

# Technical Datasheets online

Complete data for each model of Cubigel Condensing Units can be downloaded from the website:  
**<https://catalog.huayicompressor.es>**

## Technical Data Sheet

**cubigel**  
bodypressors

### Technical Data Sheet

Compressor model **NPT16LA**  
 Voltage **220-240V 50Hz ~1**  
 Refrigerant **R290**

#### APPLICATION

Application: Low Back Pressure  
 Refrigerant: R290  
 Evaporating Temp.: -40.0 °C to -10.0 °C  
 Capacity: Capillary tube  
 Comp. Cooling: Fan cooled  
 Max ambient temp: 40.0 °C

#### COMPRESSOR

Displacement: 10.15 cm<sup>3</sup>  
 Diameter: 31.19 mm  
 Stroke: 31.19 mm  
 Net weight: 10.17 kg  
 Oil type: 190 ISO 32 SAE30  
 Oil charge: 400 cc/ml

#### MOTOR

Nominal Power: 1.07 kW  
 Voltage/frequency: 220-240V 50Hz  
 Voltage range: 197-255 V  
 Type: CSE  
 Phase number: 1 PH  
 Locked Rotor Amps (LRA): 18.00 A  
 Max. Cold Current (MCCI): 5.50 A  
 Max. W. resist. at 25°C: 8.30 Ω  
 Start W. resist. at 25°C: 8.70 Ω

#### NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	890 W/m <sup>2</sup>	584 W/m <sup>2</sup>
COP	1.00 W/W	1.16 W/W
EER	1.29 W/m <sup>2</sup> W	1.06 W/m <sup>2</sup> W
Input Power	554 W	465 W
Current	2.48 A	2.40 A

#### APPROVALS

#### TEST CYCLE CONDITIONS

	ASHRAE	CECOMAF
Evaporating temp. (T <sub>e</sub> )	LBP (B)	LBP (A)
Condensing temp. (T <sub>c</sub> )	-25.0 °C	-25.0 °C
Liquid temp. (T <sub>l</sub> )	-25.0 °C	-25.0 °C
Ambient temp. (T <sub>a</sub> )	-25.0 °C	-25.0 °C
Subcool temp. (T <sub>s</sub> )	-25.0 °C	-25.0 °C
Voltage/Frequency	220 V 50 Hz	220 V 50 Hz

#### ELECTRICAL COMPONENTS

Starting capacitor	72-88 μF 230 V		
Run capacitor	12 μF 420 V		
Pump	Option 1		
Performance	2014.158 x RTC150		
Pump-Up	3.00 A		
Step-Down	1.75 A		
Processor	Option 1	Option 2	
Performance	MRX400/300	103000	
Current	10.30 A	8.60 A	
Time phases	7.5-14 seq	7.5-14 seq	
Gas temp. (Open/Closed)	100.00/-50.00 °C	105.00/-50.00 °C	

	ASHRAE	CECOMAF
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2	3	4
3	4	5
4	5	6
5	6	7
6	7	8
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9	10	11
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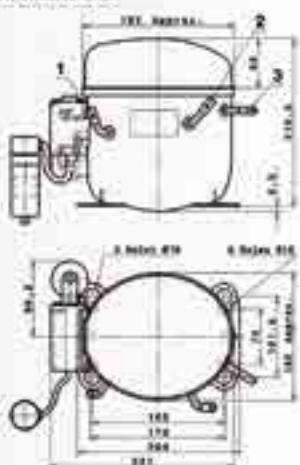
## Technical Data Sheet

**cubigel**  
polymerase

PROBLEMS

Technical Data Sheet

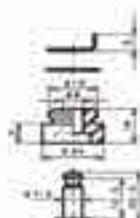
#### **COMPRESSOR Dimensions.**



DESIGNATION	INTERNAL DIAM.
Suction	8.1 mm
Service	8.1 mm
Discharge	8.5 mm

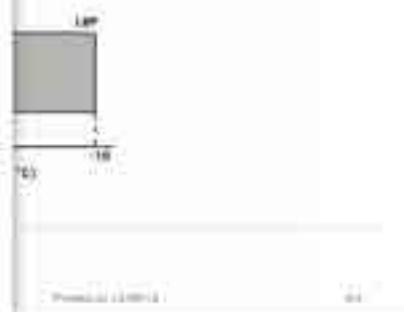
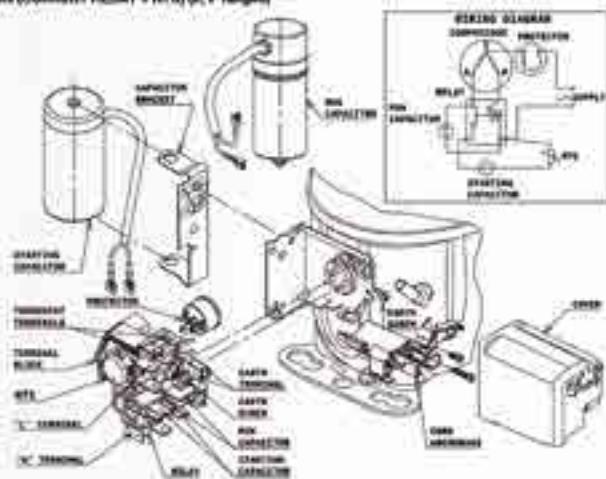


**SET** **SNAP-ON**  
x101.0 mm) x104.0 mm (170x170 mm)



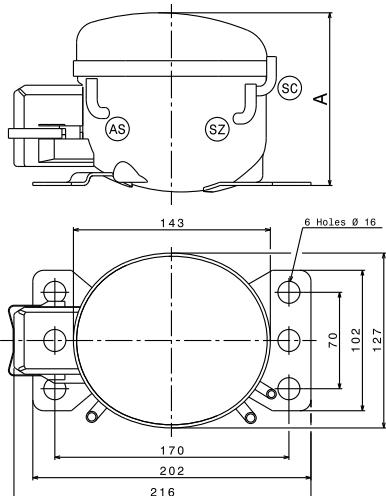
#### WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

THE CONNECTION CURRENT RELAY : REF. 6-2000



# Compressor Dimensional Drawings

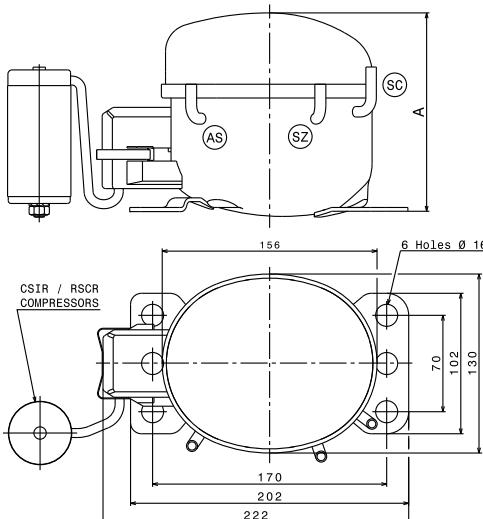
## Small L range



	Designation	Internal diam.
AS	Suction	6.2
SC	Discharge	4.9
SZ	Service	6.2

	A (mm)
SLb	125.5
SLc	129
SLd	138
SLe	141

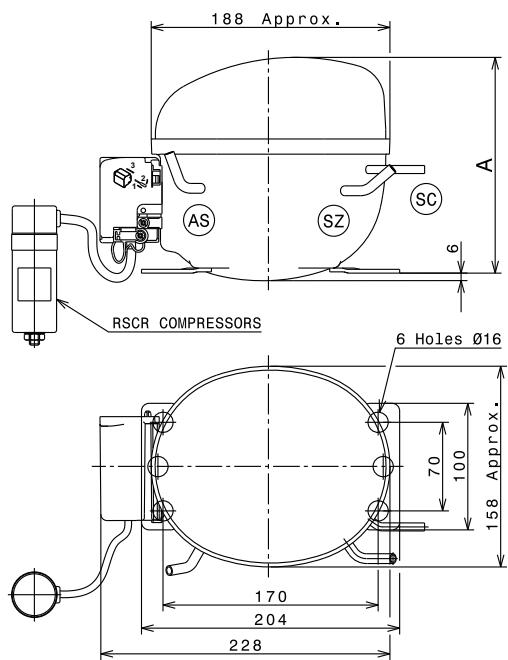
## B range



	Designation	Internal diam.
AS	Suction	6.2
SC	Discharge	4.9
SZ	Service	6.2

	A (mm)
Bb	141
Bc	145
Bd	153
Be	155
Bf	159

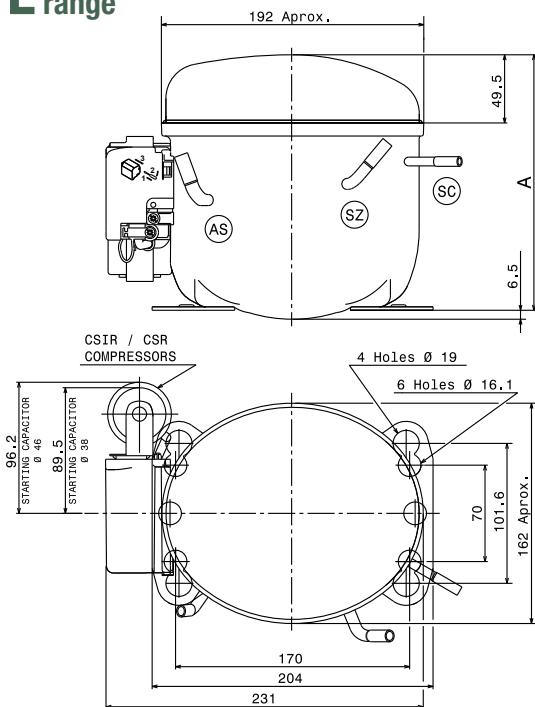
## U range



	A (mm)
Ub	173.5
Uc	176.5

LEGEND	
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

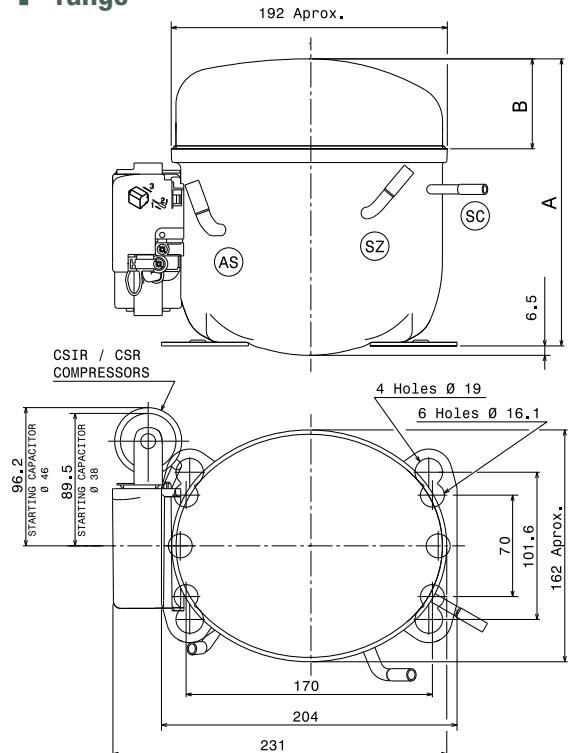
## L range



	A (mm)
Lb	175
Lc	185.6
Ld	198

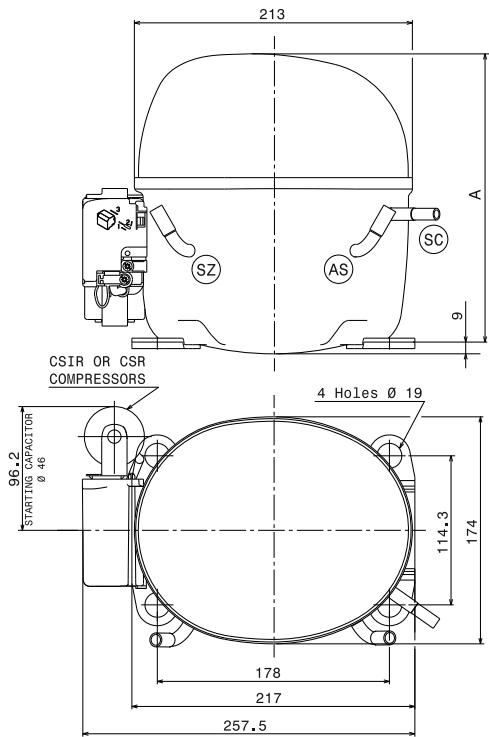
LEGEND	
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

## P range



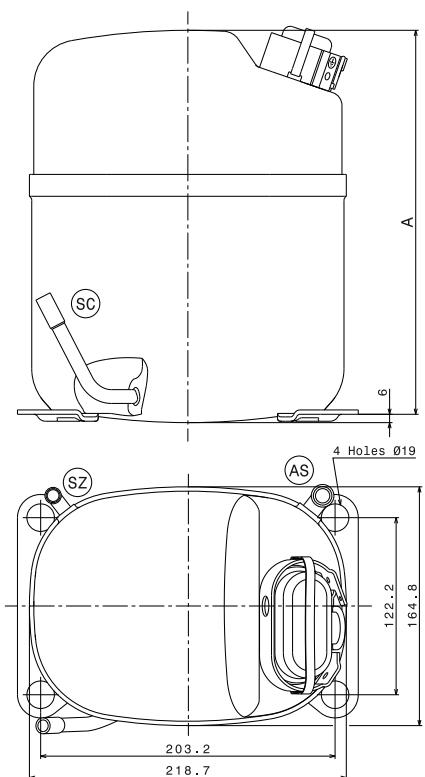
	A (mm)	B (mm)	LEGEND
Pc	198.1	62	AS Suction/Service
Pd	210.5	62	SC Discharge
Pe	215.5	67	SZ Service/Suction

## X range



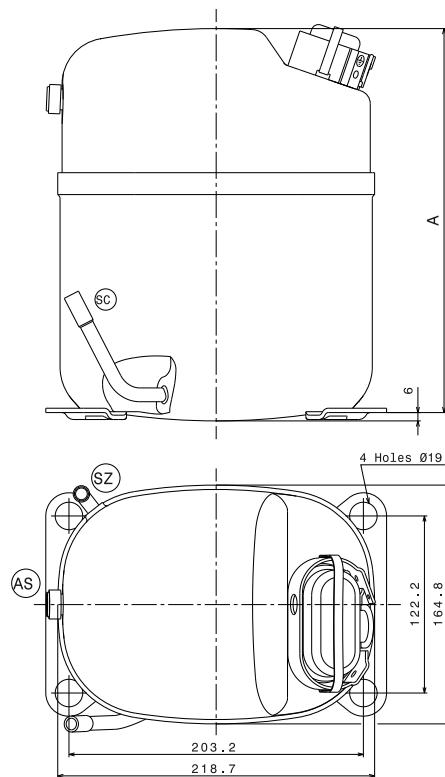
	A (mm)	LEGEND
Xc	215	AS Suction/Service
Xd	221	SC Discharge
		SZ Service/Suction

## S range (Tube)



	A (mm)	LEGEND (TUBE)
Sb	252	AS Suction/Service
Sc	265	SC Discharge
Sd	276	SZ Service/Suction

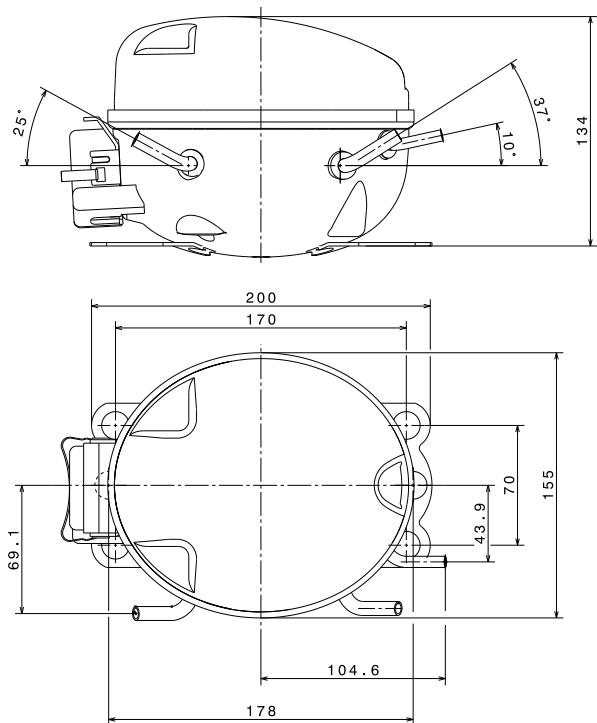
## S range (Valve)



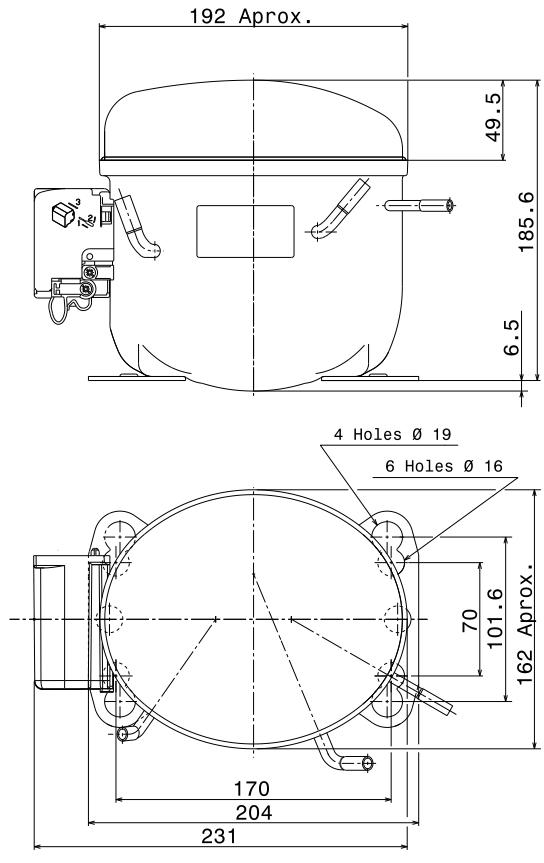
	A (mm)	LEGEND (VALVE)
Sb	252	AS Valve Service
Sc	265	SC Discharge
Sd	276	SZ Service/Suction

## Variable Speed Compressors

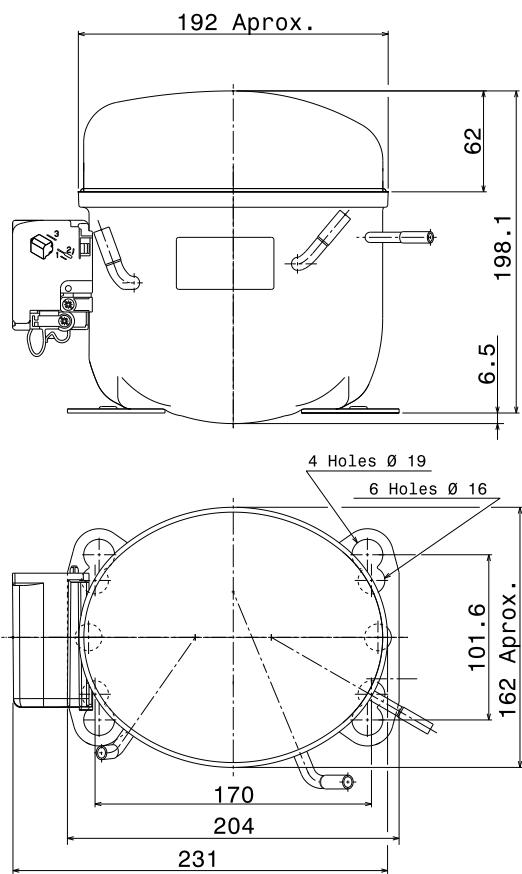
### NVT70FSC



### GLT99FSN and NLT60FSN

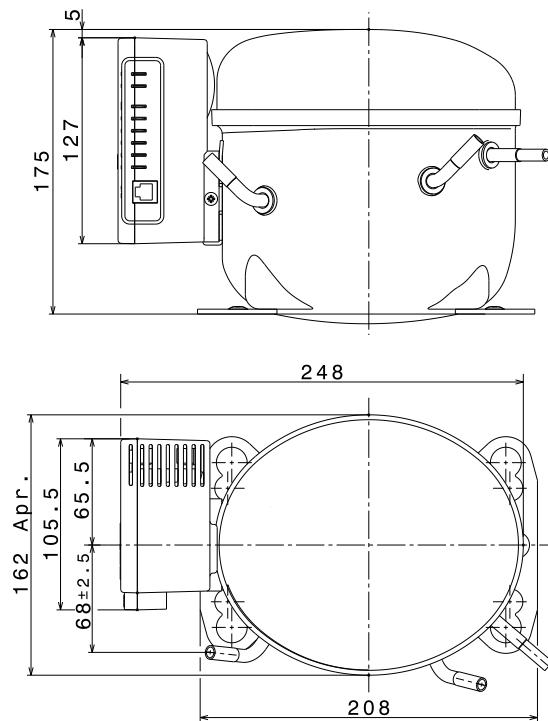


### NPT12FSC

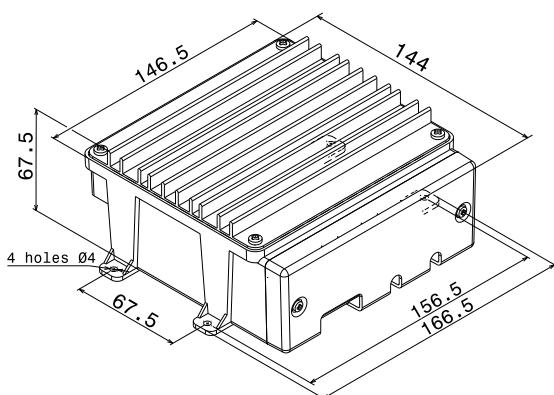


## 12-42V DC Compressors

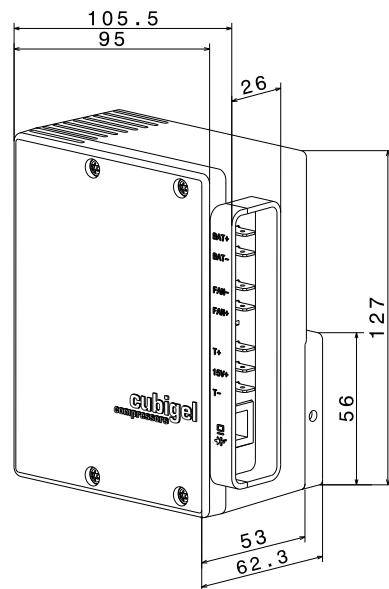
### GLT80TDC



**Electronic driver (FAC1)**  
for GLT99FSN, NLT60FSN and NPT12FSN



**Electronic driver (FDC3) for GLT80TDC**



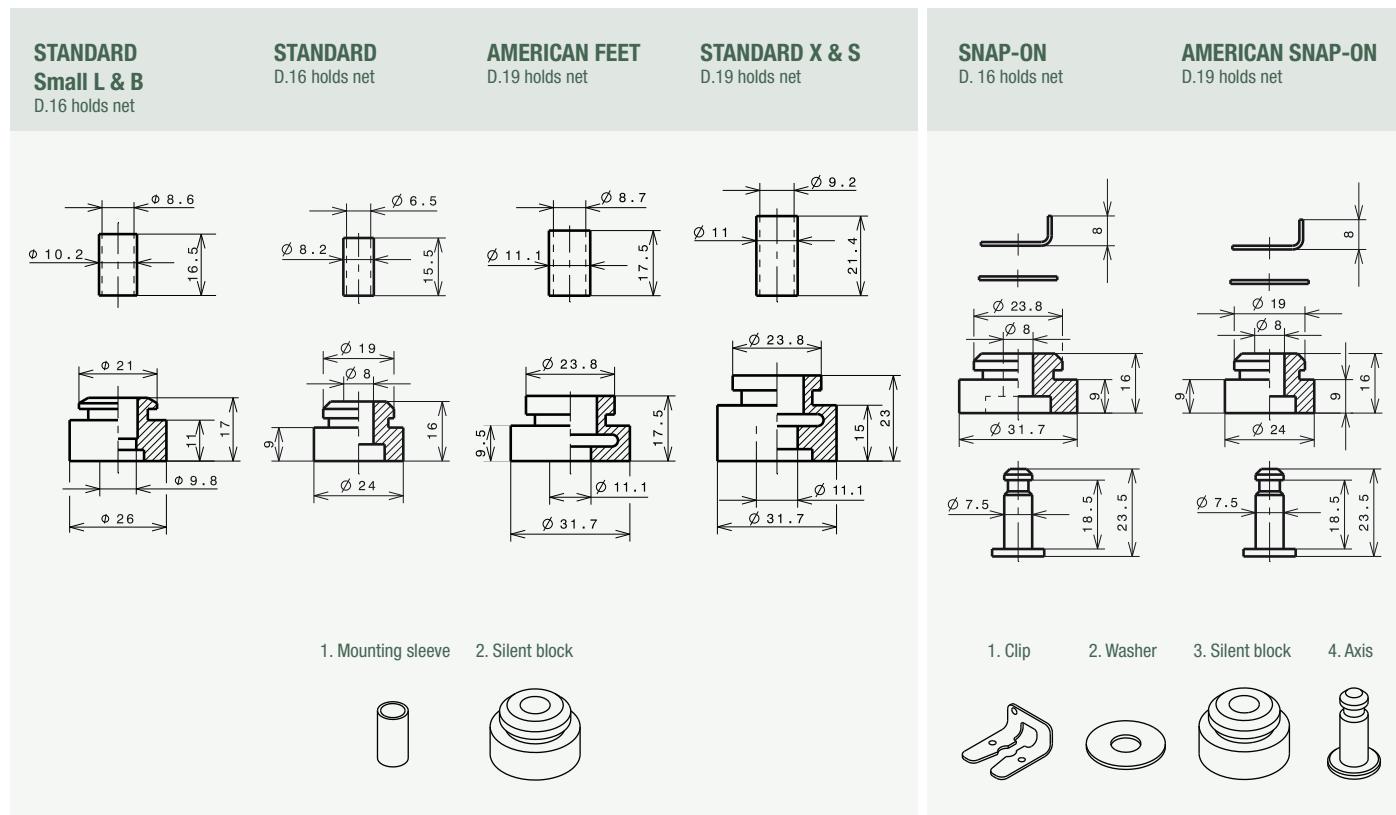
# Fixings

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

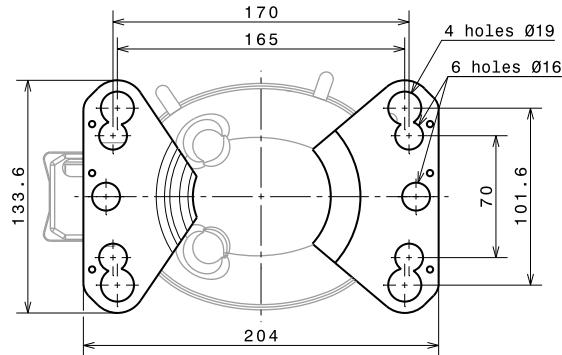
## Mounting feet

Range	Mounting feet	
<b>Small L</b>	Set of 4 holes of 16mm DIA with inter-axes: 70x170mm	
<b>B, L, P, U</b>	European type Set of 4 holes of 16 mm DIA with inter-axes: 70 x 170 mm	American type Two sets of 4 holes: 1.- Set of 16 mm DIA with inter-axes: 70 x 170 mm 2.- Set of ¾ inch (19 mm) DIA with inter-axes: 4 x 6 1/2 inch (101.6 x 165 mm)
<b>X</b>	One set of 4 holes of 19 mm (¾ inch) DIA with inter-axes: 114.3 x178 mm (41/2 x 7 inch)	
<b>S</b>	One set of 4 holes of 19 mm (¾ inch) DIA with inter-axes: 122.2 x 203.2 mm (413/16 x 7 7/8 inch)	

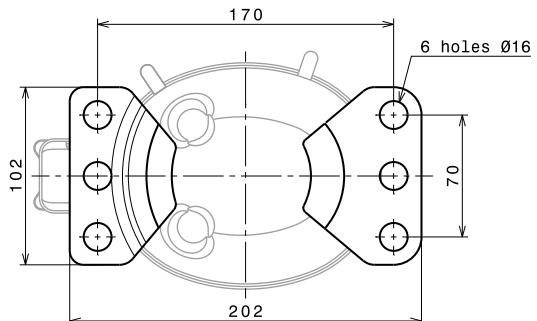
## Silent Blocks (Mounting accessories)



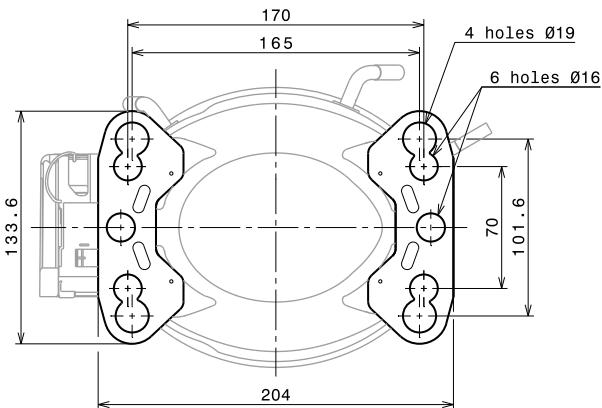
### B Range (American mounting feet)



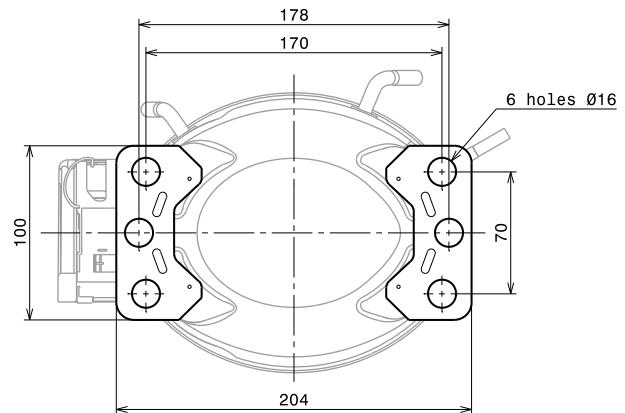
### Small L & B Range (European mounting feet)



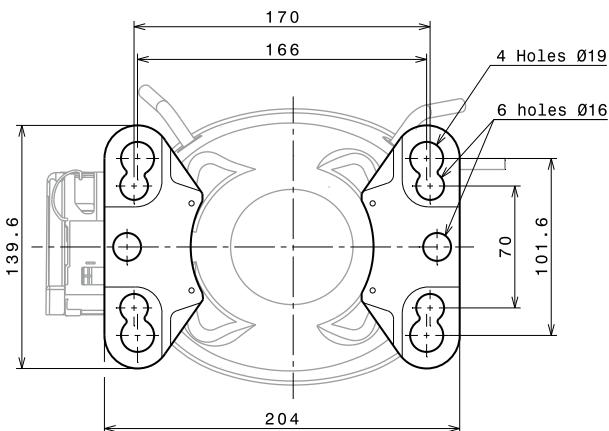
### L / P Range (American mounting feet)



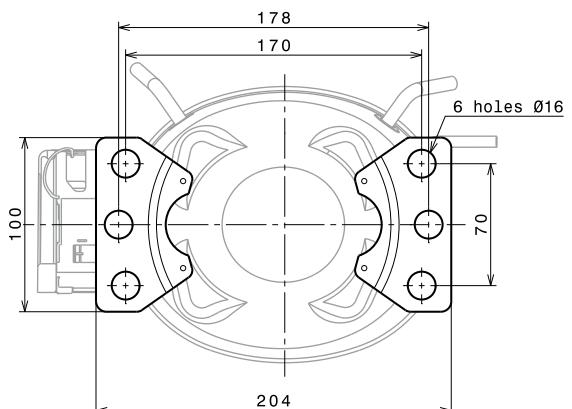
### L / P Range (European mounting feet)



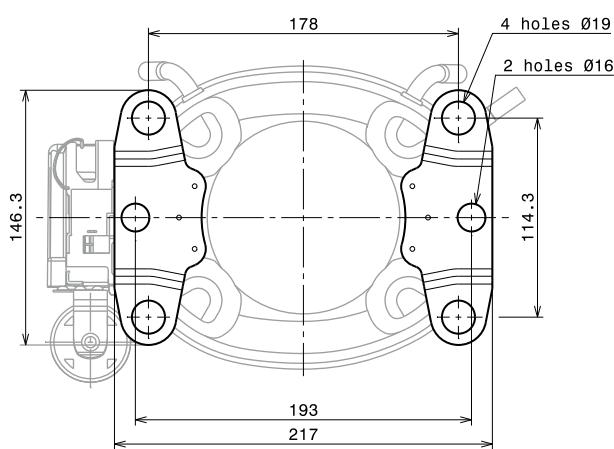
### U Range (American mounting feet)



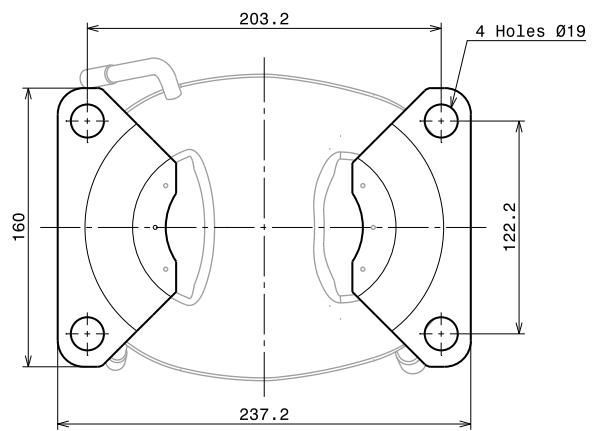
### U Range (European mounting feet)



### X Range

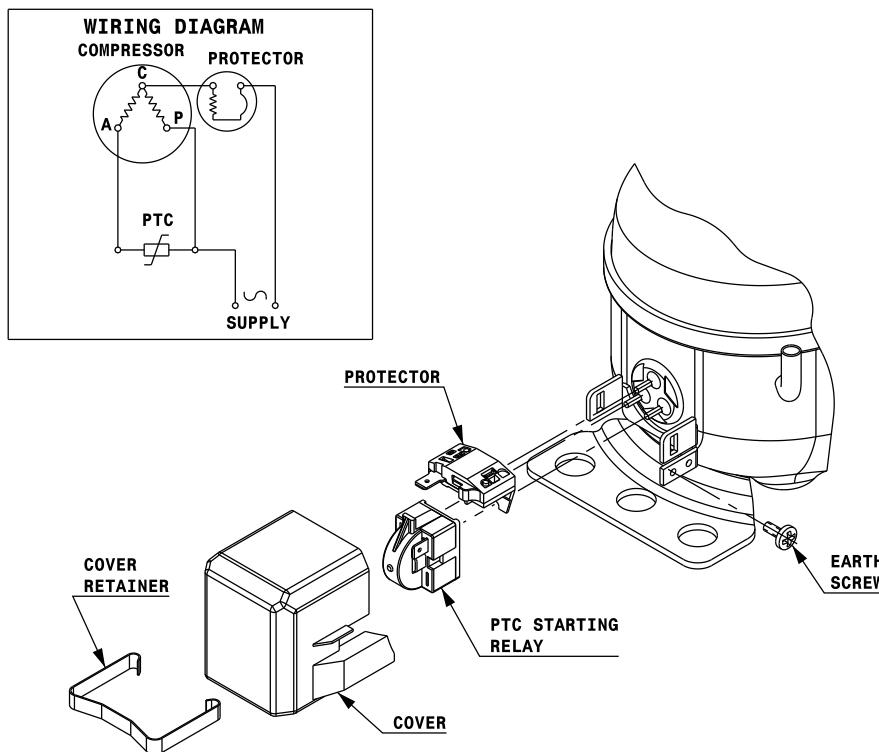


### S Range

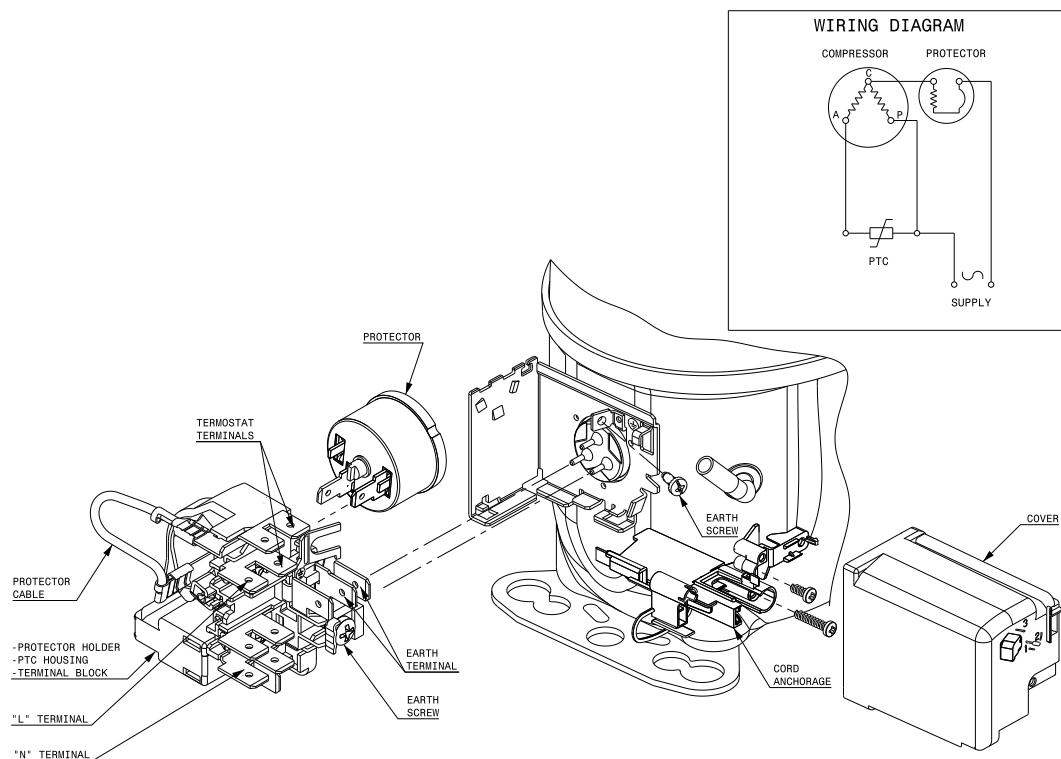


# Wiring Diagrams and Electrical Assembly

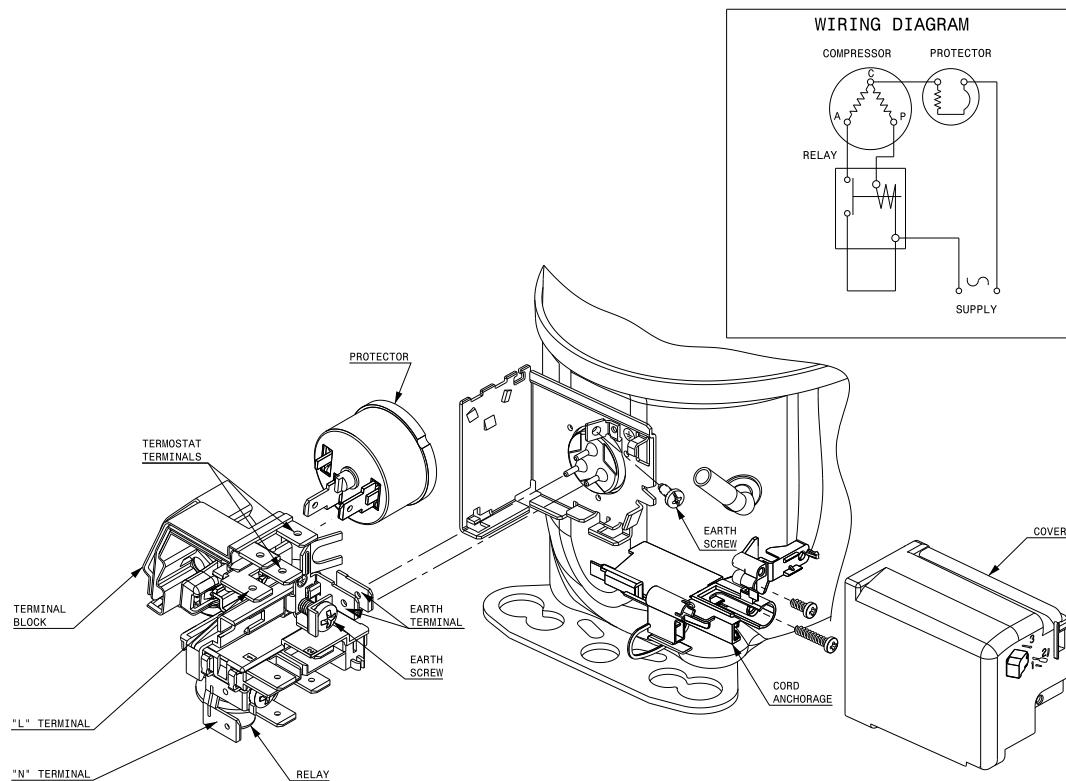
## RSIR CONNECTION (PTC) Small L & B



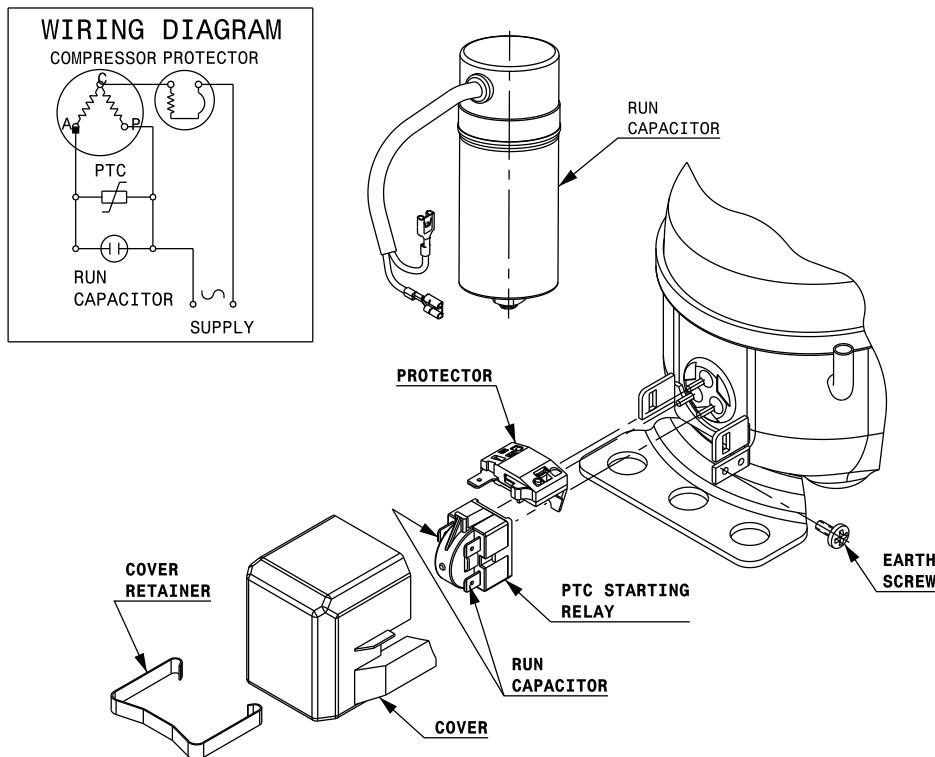
## RSIR CONNECTION (PTC)



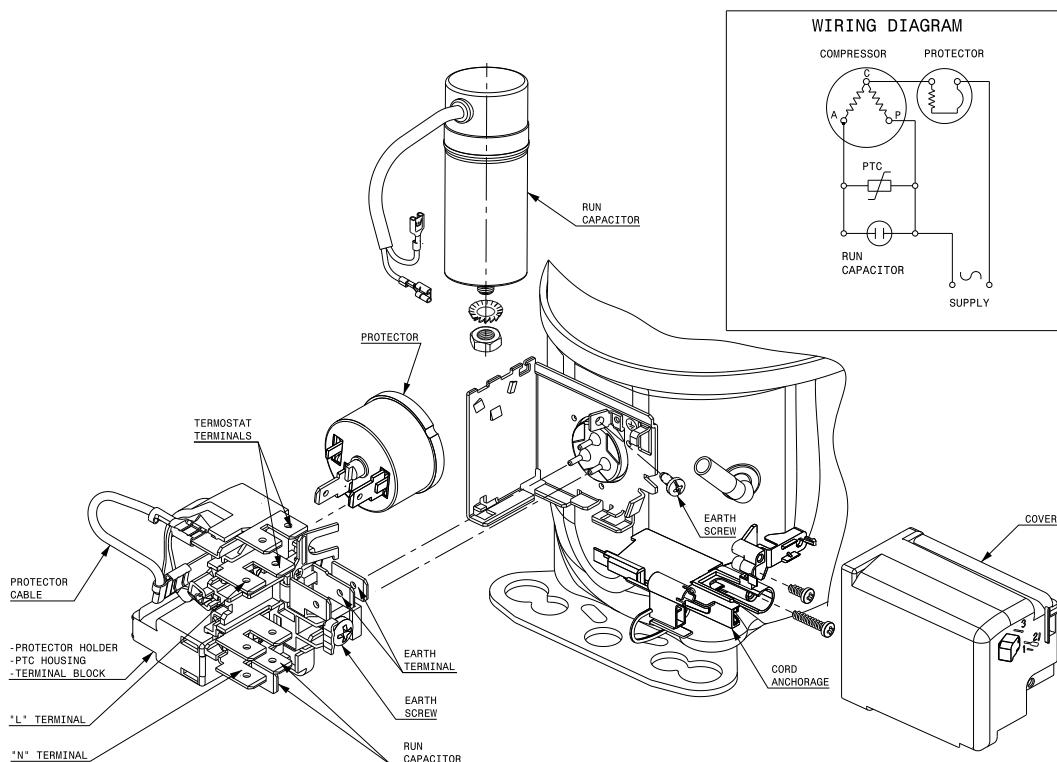
## RSIR CONNECTION (RELAY)



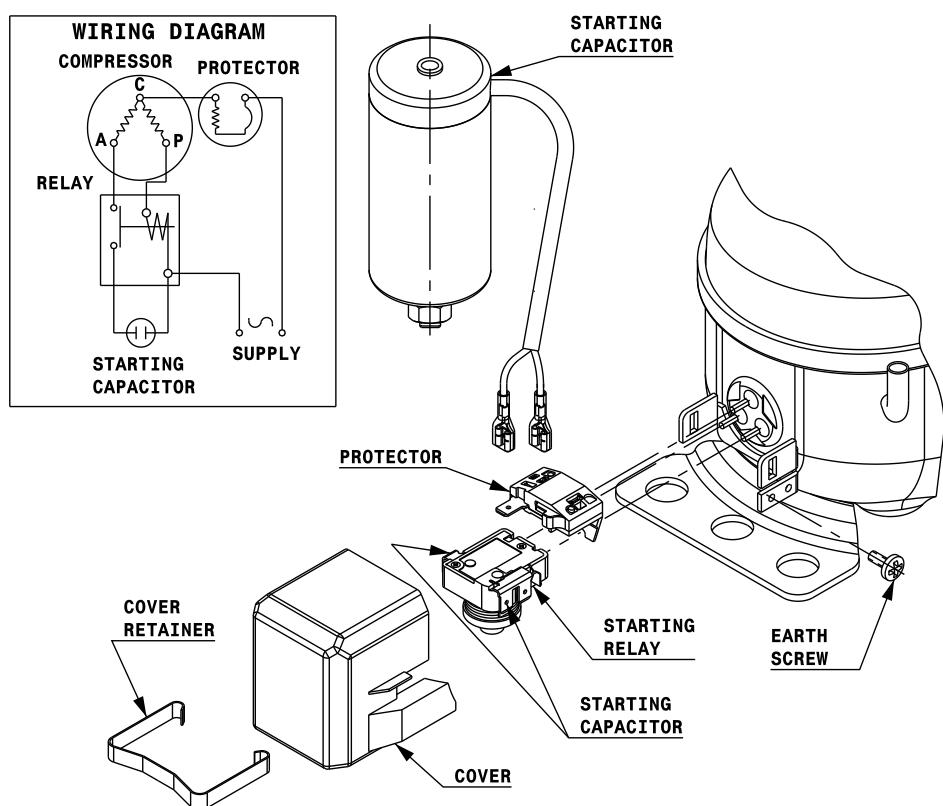
## RSCR CONNECTION (PTC) Small L & B



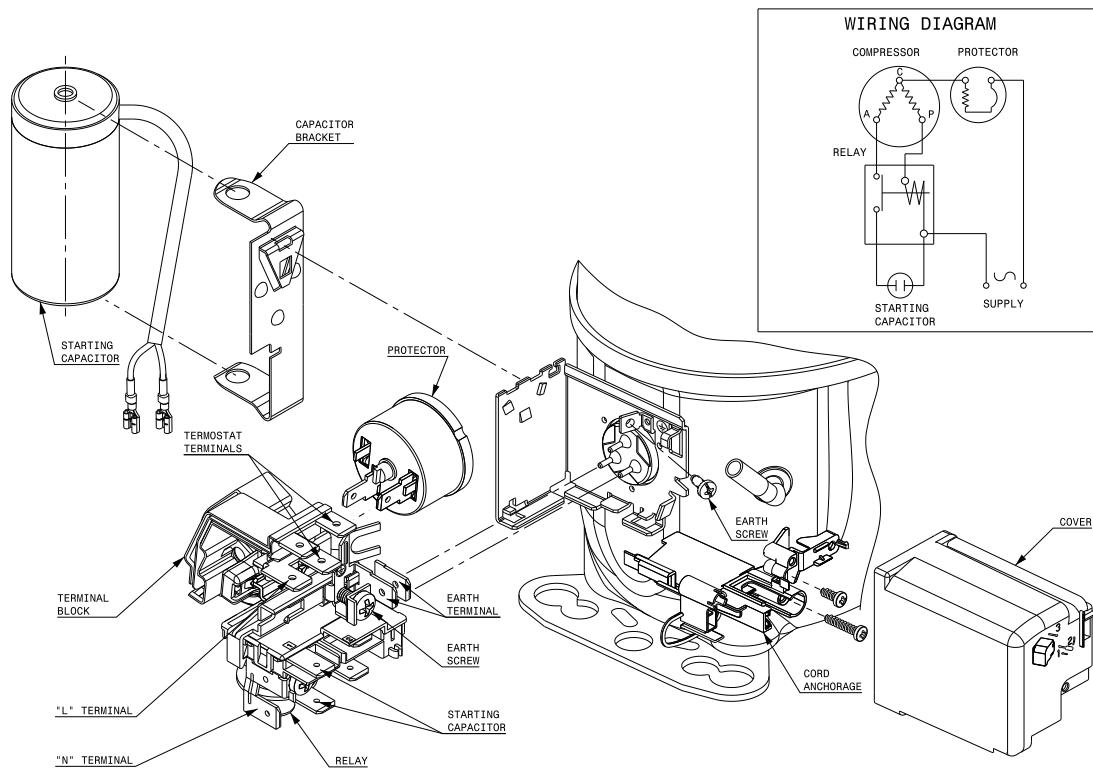
## RSCR CONNECTION



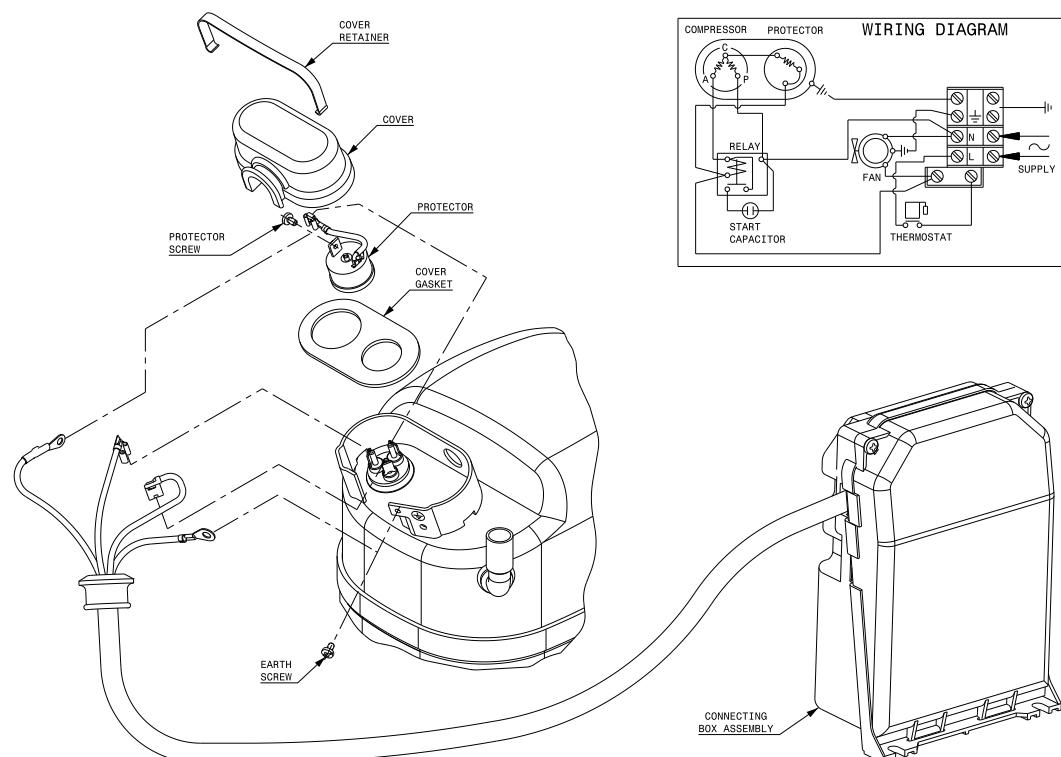
## CSIR CONNECTION Small L & B



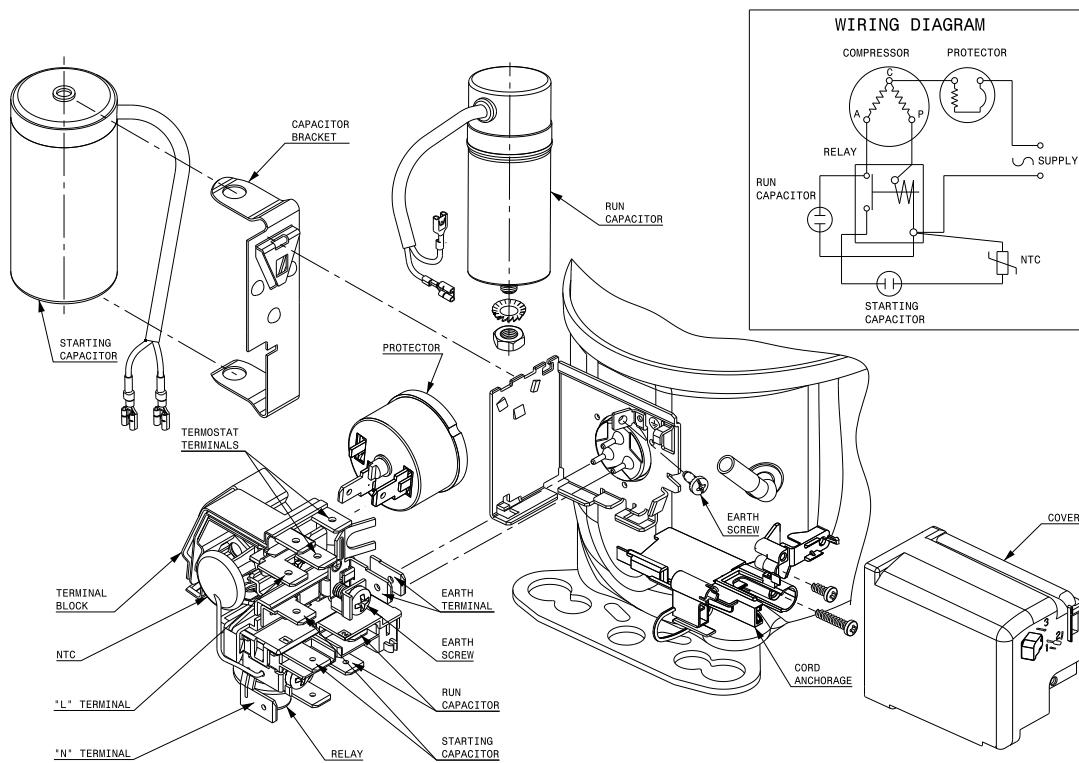
## CSIR CONNECTION



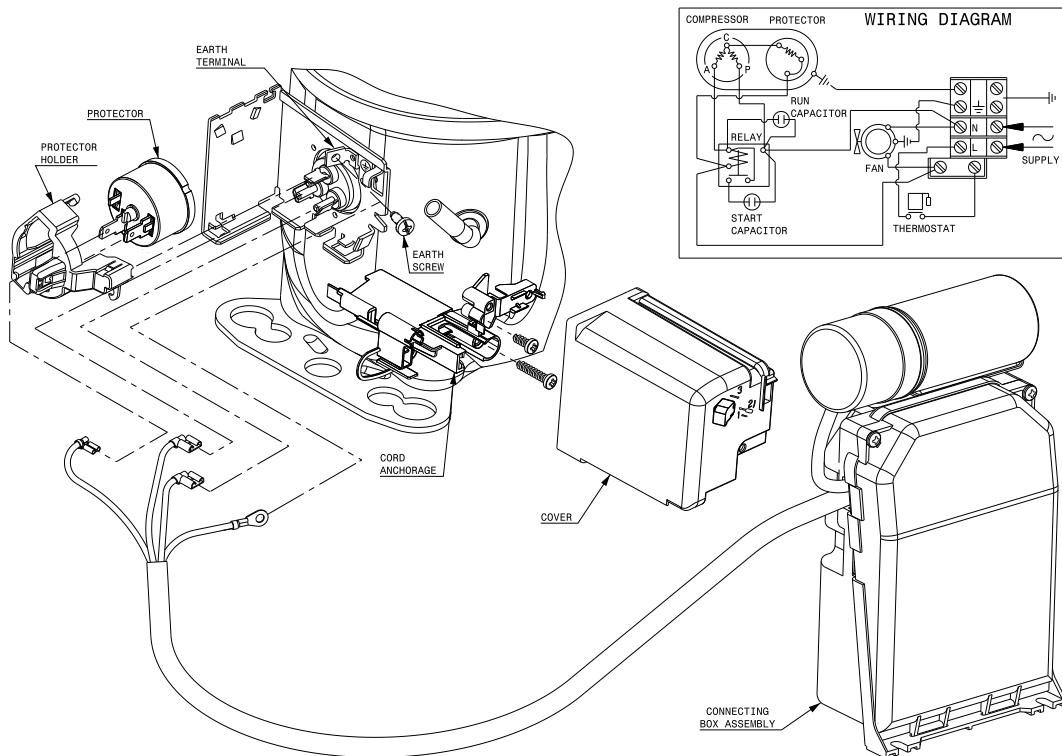
## CSIR CONNECTION (EXTERNAL CONNECTING BOX) (S range)



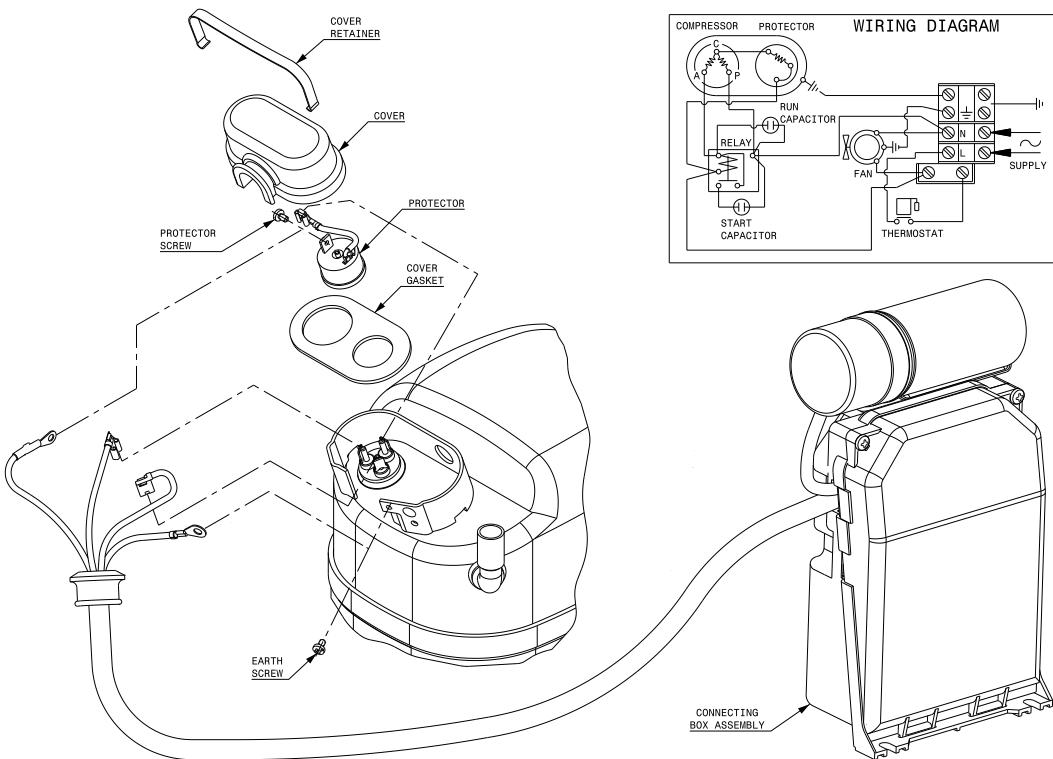
## CSR CONNECTION (CURRENT RELAY + NTC)



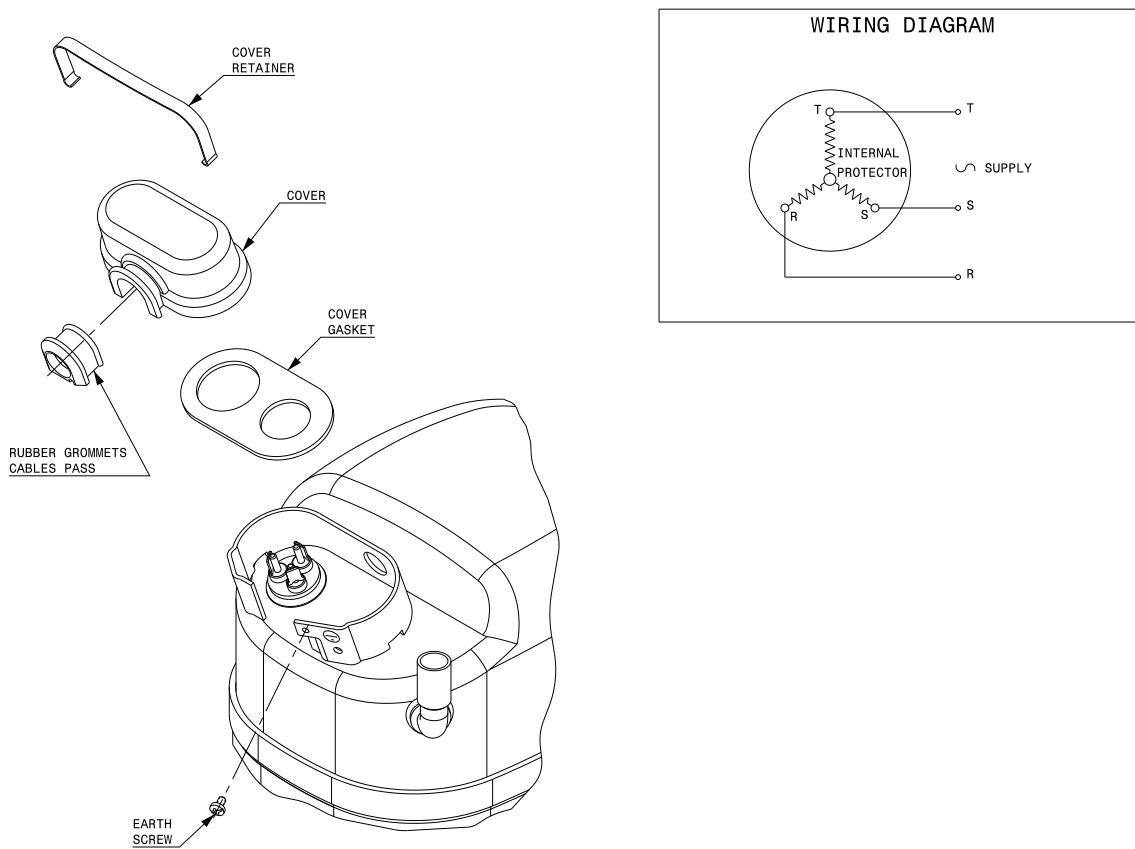
## CSR CONNECTION (EXTERNAL CONNECTING BOX) (P, X ranges)



## CSR CONNECTION (EXTERNAL CONNECTING BOX) (S range)



## 3PH CONNECTION (S range)



# Packaging & Logistics

## Single Box

Range	Box dimensions (mm)			Pallet dimensions (mm)	
	Length	Width	Height	Length	Width
Small L	250	165	141/151	1010	1010
B	250	165	151/166	1010	1010
U	290	194	180/198	1200	1050
L & P	290	194	180/198/209/227	1200	1050
X (w/ connecting box)	315	187	235	1050	1050
X	342	202	242	1050	1050
S	275	209	410	1010	1010

## Tray

Range	Tray dimensions (mm)		Pallet dimensions (mm)	
	Length	Width	Length	Width
Small L	1110	815	1135	830
B	1110	815	1135	830
U (TIR)	1120	810	1200	800
U (Container)	1120	810	1120	800
L & P	1060	990	1050	1050
X	1050	1020	1050	1050
S	1050	1050	1050	1050

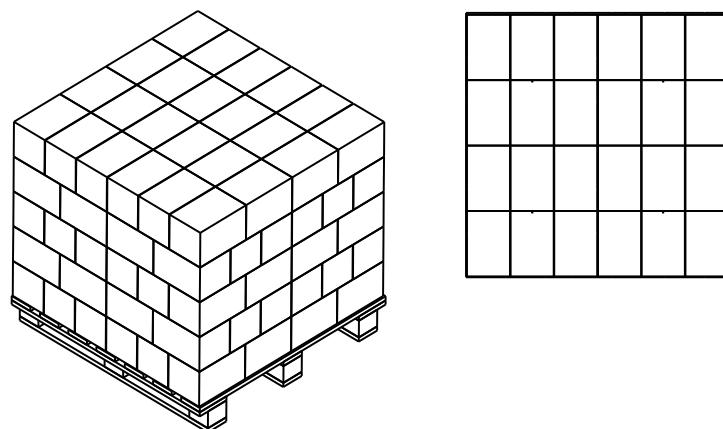
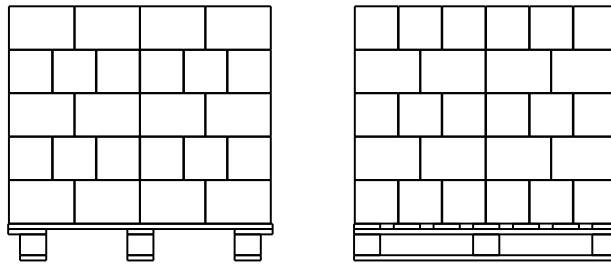
## Quantities by Pallet Compressors

Range	Tray			Single Box		
	Qty / Level	Nº Levels	Qty / Pallet	Qty / Level	No. Levels	Qty / Pallet
Small L	25	6	150	24	5	120
B	25	5	125	24	5	120
U	18	5	90	20	5	100
L	24	5	120	20	5	100
P	24	5	120	20	5	100
X	17	4	68	16	4	64
X w/ connecting Box	17	4	68	15	4	60
S	24	2	48	16	3	48

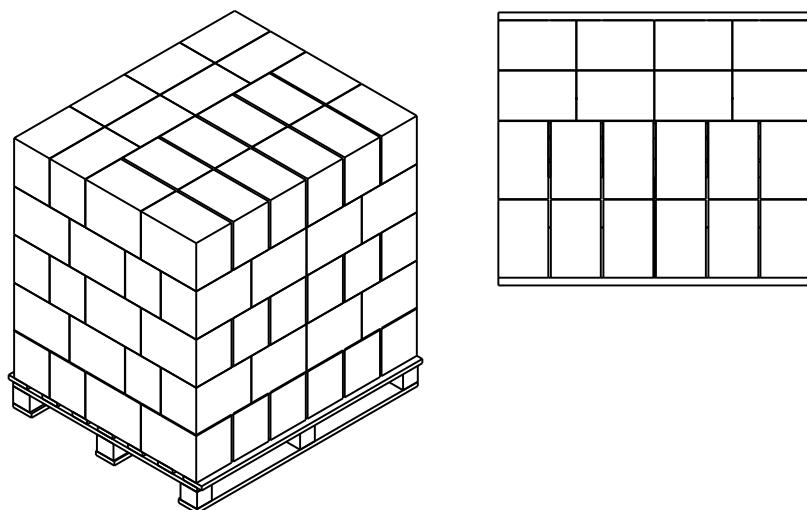
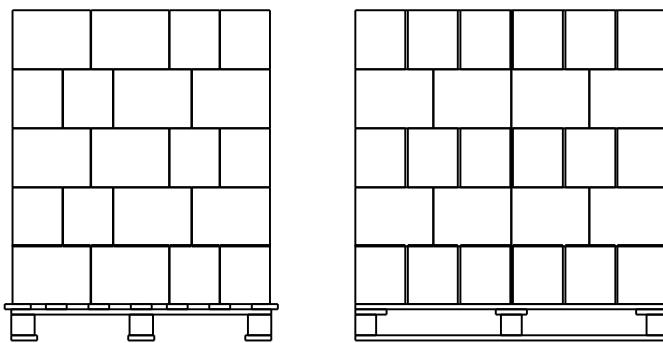
## Pallet Product Layout

### Single Box Pallet Distribution

#### Small L, B Range

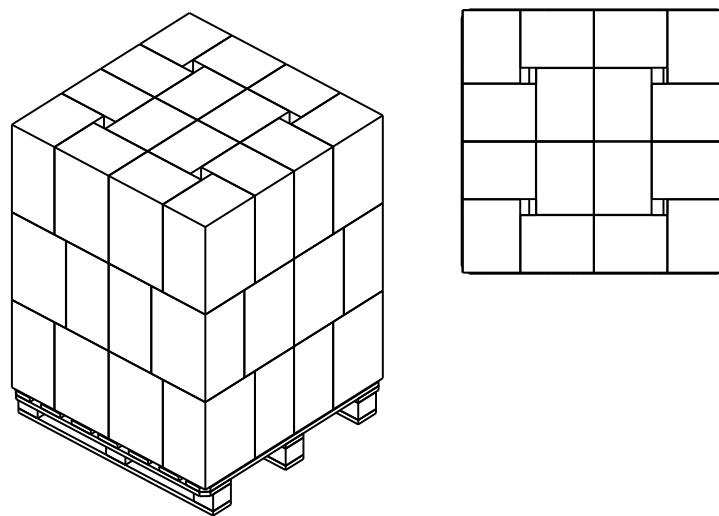
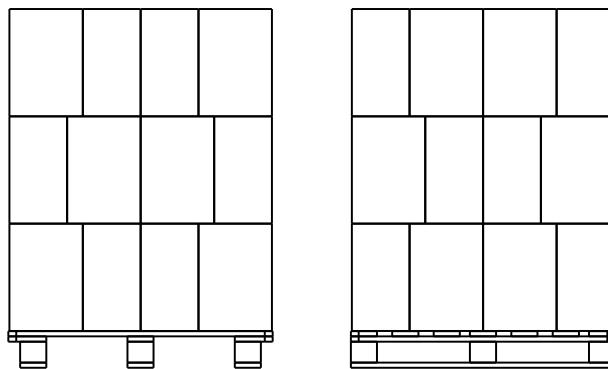


#### U, L & P Ranges



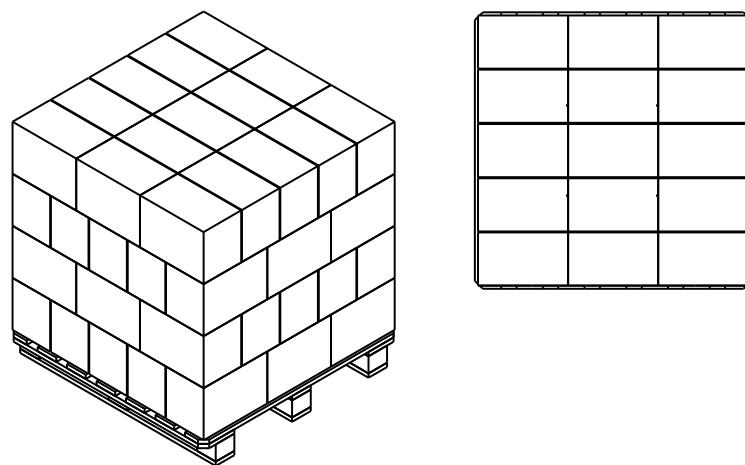
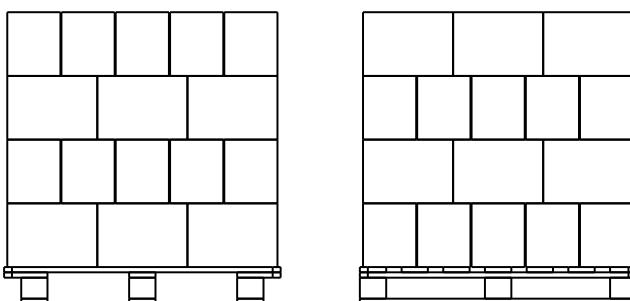
## S Range

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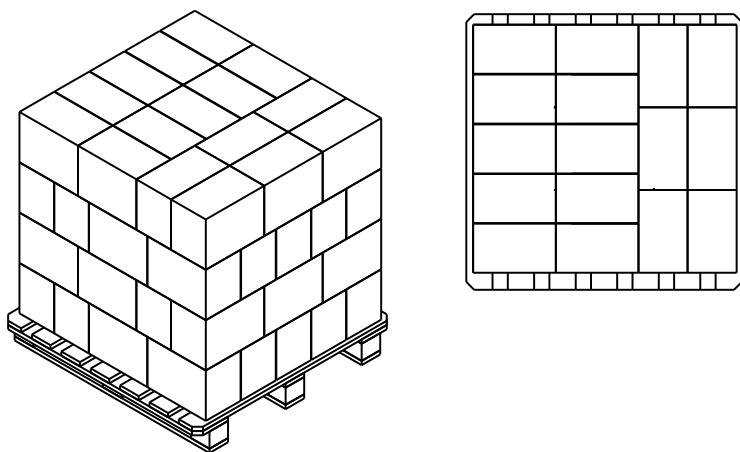
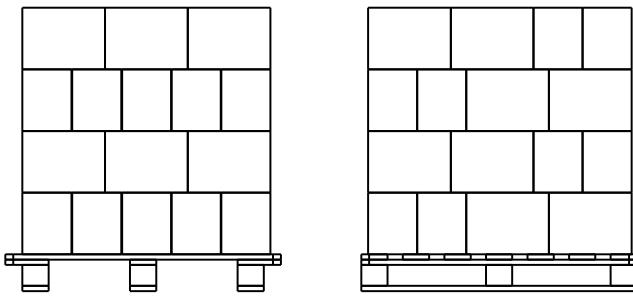
## X Range (con caja conex.)

---



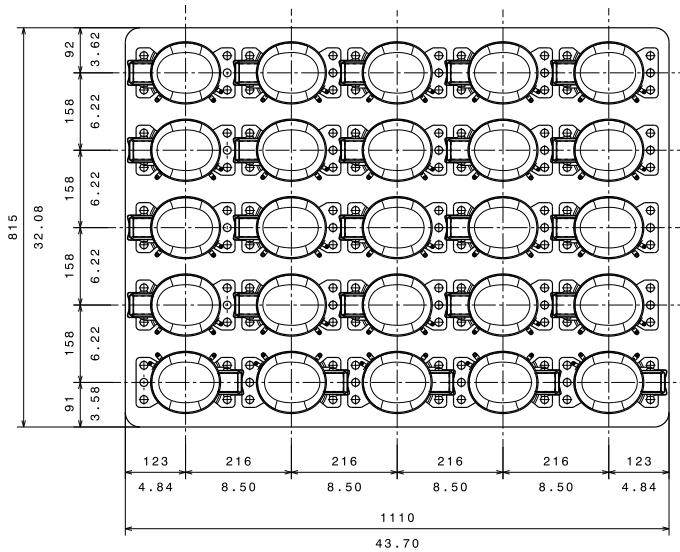
## X Range (sin caja conex.)

---

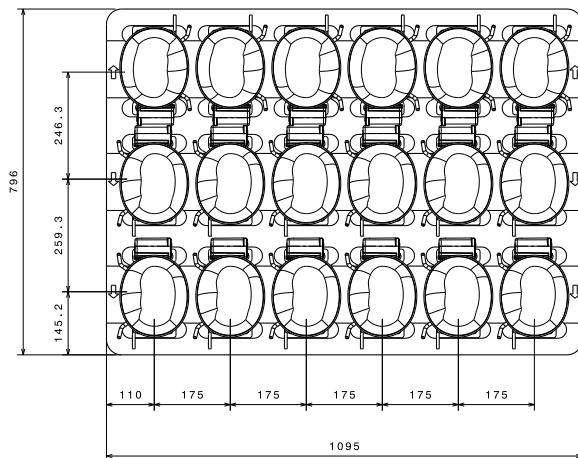


## Tray per Pallet

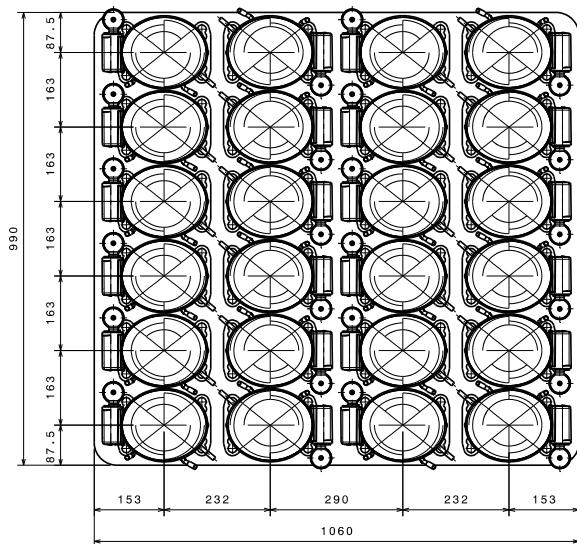
### Small L & B compressor tray distribution



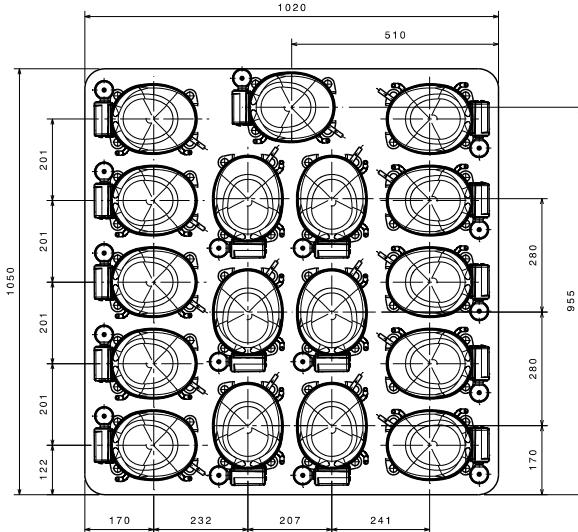
### U compressor tray distribution



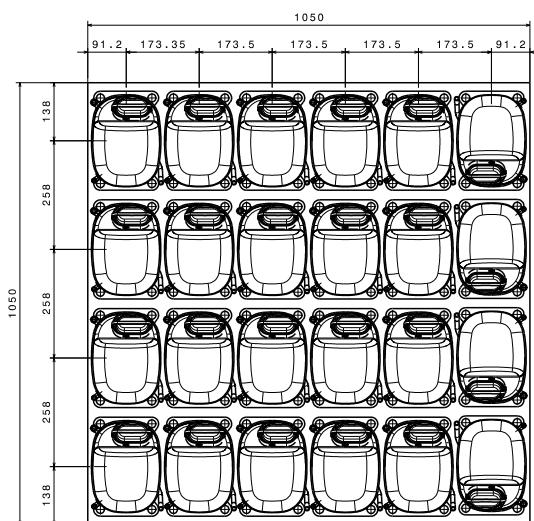
### L and P compressor tray distribution



### X compressor tray distribution



### S compressor tray distribution

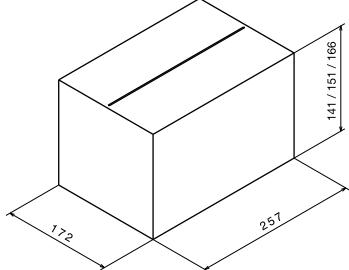


## Pallet label

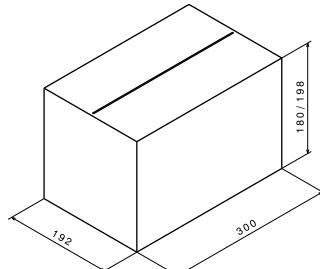
Receiver <b>CUSTOMER</b>	Customer <b>00000</b>	Customer part number <b>00000000-000</b>
Work Order  <b>00000</b>	Supplier name  <b>HUAYI COMPRESSOR</b>	
Part Name(P)  <b>000000</b>	 	<b>0000 A00 / MUELLE 000000 DD.MM.YYYY 00:00:00</b>
Quantity(Q)  <b>00,000 UN</b> 	Description  <b>COMPRESSOR MODEL</b>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

## Single Boxes Drawings

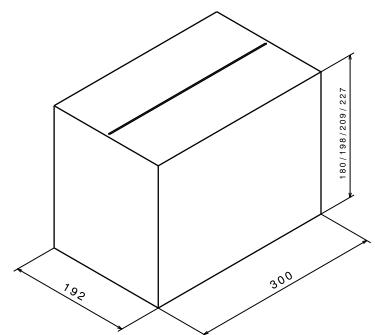
Small L & B Range



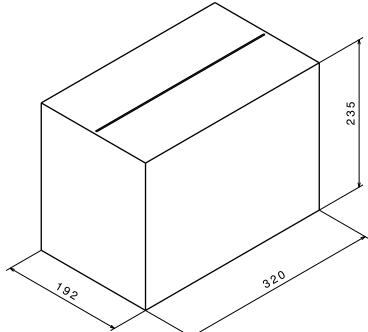
U Range



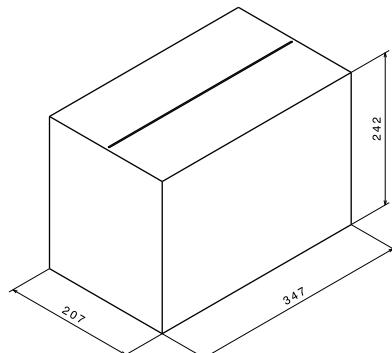
L & P Ranges



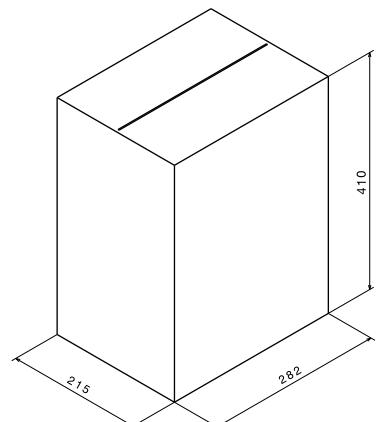
X Range



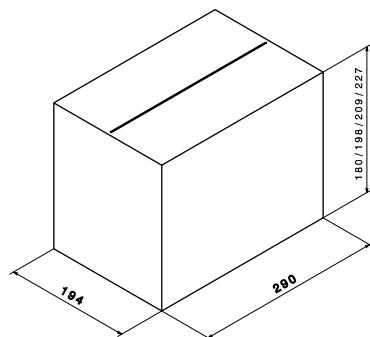
X Range with connecting box



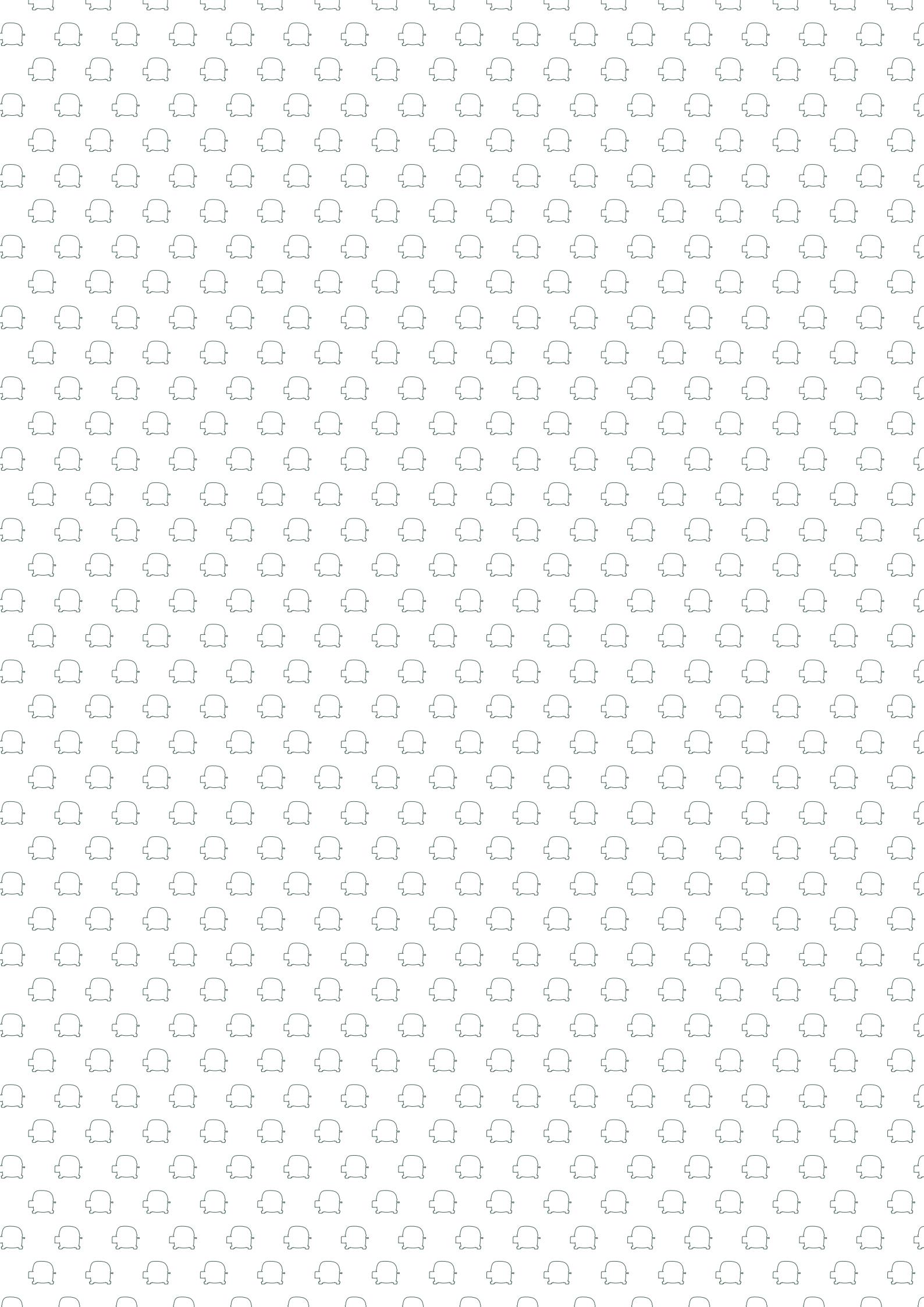
S Range



GLT80TDC Compressor



## notes







HUAYI  
COMPRESSOR  
BARCELONA

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