

# GENERAL CATALOGUE

Compressors & Condensing Units



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.

# 50 years

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



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# 1.

## General Information





Research and Development

Leadership



Reliability

Innovation



Cutting-edge technology

People





# The Company

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

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

Huayi Compressor Co., Ltd. was founded in 1990, located in Jingdezhen, China, and is a worldwide leader of household compressor manufacturing. It specializes in the production of hermetic compressors with a complete range from 40W to 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 its 51 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 34cc, 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

## 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, 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, 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, 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 34.42 cc

### Refrigerants:

R134a, R404A, 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.

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

Variable  
Speed  
Compressors



### Features:

High Efficiency, Flexible Speed Drive  
Drop-in Configuration  
External Controlling  
200-240 V / 50-60Hz

### Models:

GLT99FSN, NPT12FSC, NLT60FSN

### 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

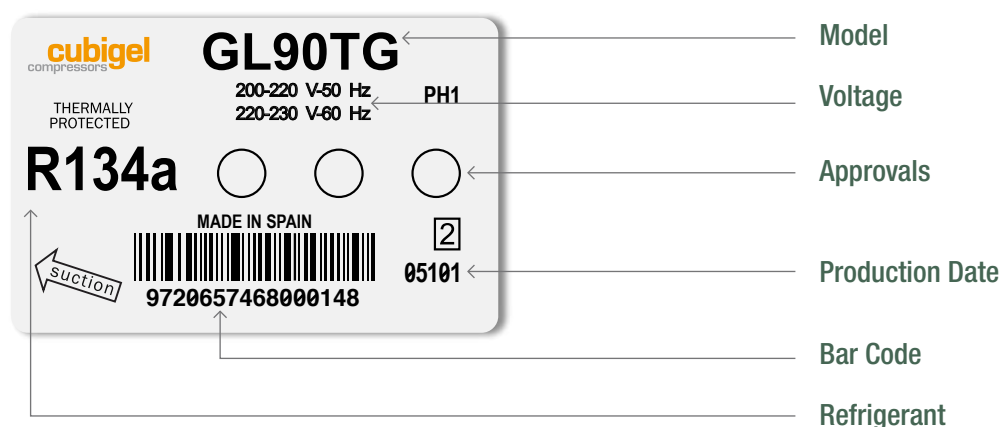
# Compressor Ranges Main Characteristics

Compressor ranges - Main characteristics							
Range	Displacement (cm³)		Cooling capacity (W) [*]				Weight (max) (kg)
			LBP		HMBP		
	min	max	min	max	min	max	
Small L	2.2	3.1	30	67	-	-	4.20
B	2.2	6.5	54	200	185	418	6.00
U	4.5	8.5	215	450	325	970	9.90
L	4.5	10.7	110	696	324	1682	11
P	12	18	190	962	1065	2080	13
X	16	23	400	1060	1655	3030	17
S	18	34	1215	1620	2475	5265	23

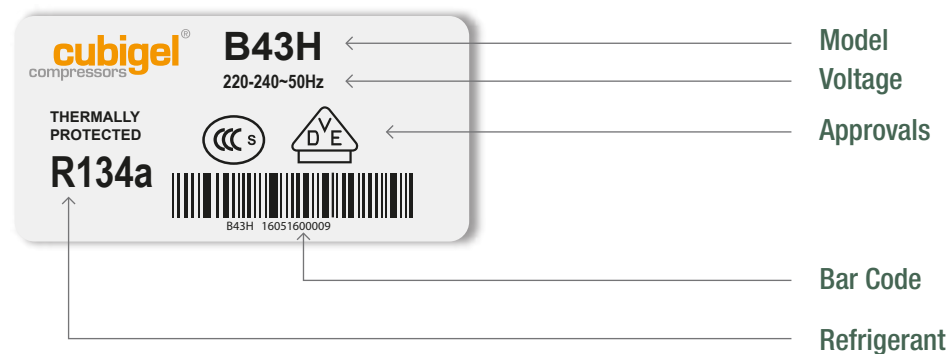
\*All refrigerants / Measured at ASHRAE rating condition 50 Hz

## Identification Labels and Approvals

For U, L, P, X, S



For Small L & B



Approvals



Directive compliance declarations



Flammable gases



# Compressor 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 - 34.0cm<sup>3</sup>

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

**M** = Medium  
**Y** = High Efficiency - Run Capacitor Optional RSIR/RSCR or CSIR/CSR  
**T** = Top Efficiency - Run Capacitor RSCR or 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:

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

Indicates the rated voltage:

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

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

## Examples:

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

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

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

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

# Compressor Nomenclature Small L & B Ranges

model				
	B	35	C	5
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
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					

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

## Applications

Based on the characteristics of the system for which the compressor is intended, compressors are classified in different groups of application.

### Low Back Pressure (LBP) Compressors.

**Evaporating temperature range for U, L, P, X and S range:**  
-35°C to -10°C [-31°F to -14°F] (down to -40°C [-40°F] for refrigerant R404A and R290).

**Evaporating temperature range for Small L and B range:**  
-35°C to -15°C [-31°F to -26°F]

#### Rating Condition:

-25°C [-13°F] (CECOMAF) or -23.3°C [-10°F] (ASHRAE)

### Low Medium Back Pressure (LBMP) Compressors.

**Evaporating temperature range:**  
-35°C to -0°C [-31°F to +32°F] (down to -40°C [-40°F] for refrigerant R404A and R290).

#### Rating Condition:

-25°C [-13°F] (CECOMAF) or -23.3°C [-10°F] (ASHRAE)

### High Medium Back Pressure (HMBP) Compressors.

**Evaporating temperature range:**  
-25°C to +10°C [-13°F to +50°F]

#### Rating Condition:

+5°C [+41°F] (CECOMAF) or +7.2°C [+45°F] (ASHRAE)

### High Back Pressure (HBP) Compressors.

**Evaporating temperature range:**  
-15°C to +10°C [+5°F to +50°F]

#### Rating Condition:

+5°C [+41°F] (CECOMAF) or +7.2°C [+45°F] (ASHRAE)





# 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.

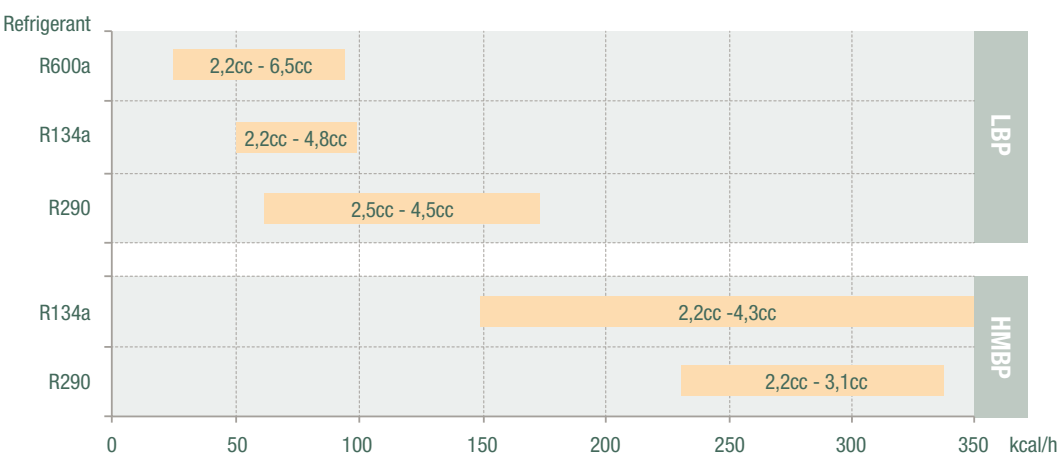
## Type of torque

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

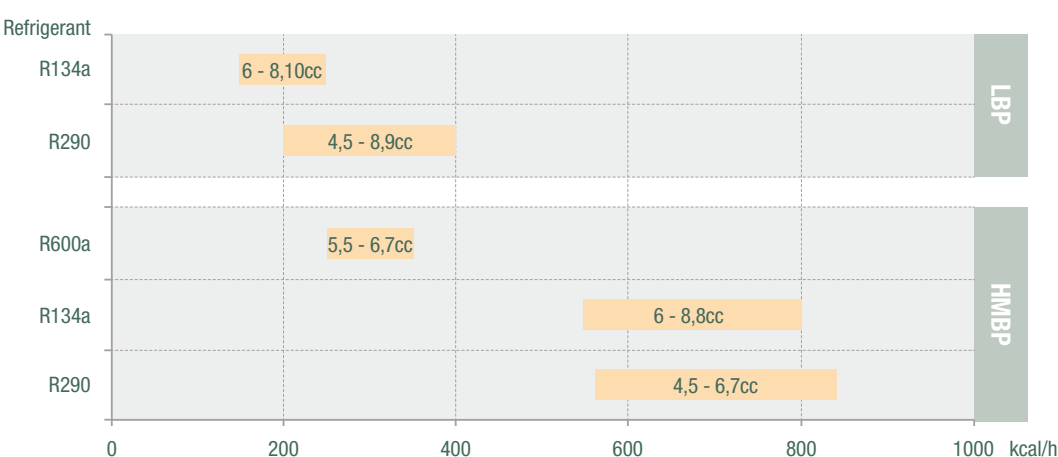
**HST** – High Starting Torque – Systems with expansion valve or capillary tube, with unbalanced pressures at start up.

# Compressors Ranges

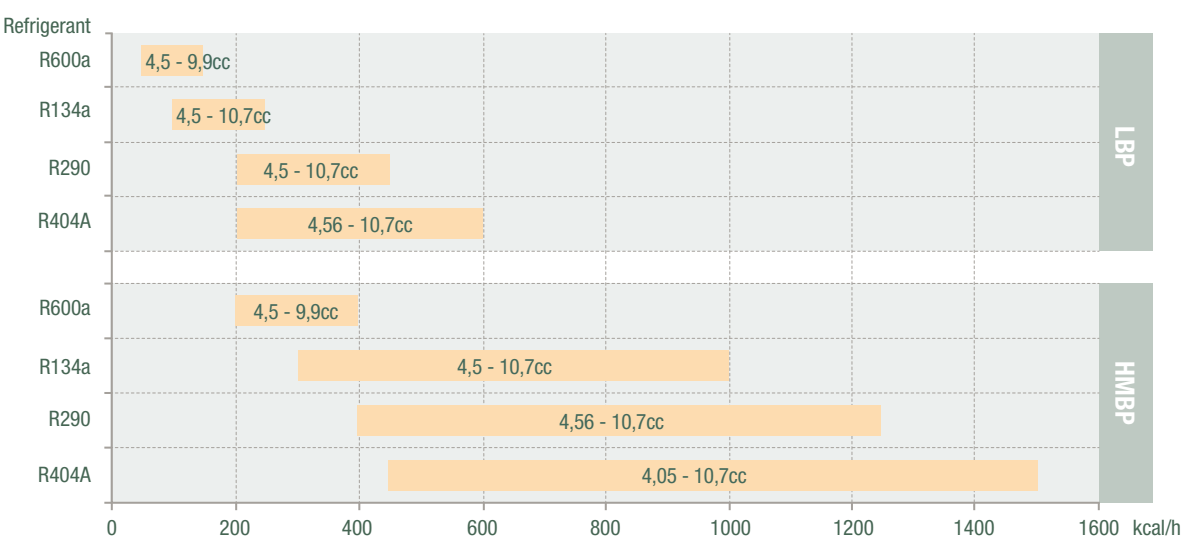
## Compressors Ranges Small L & B



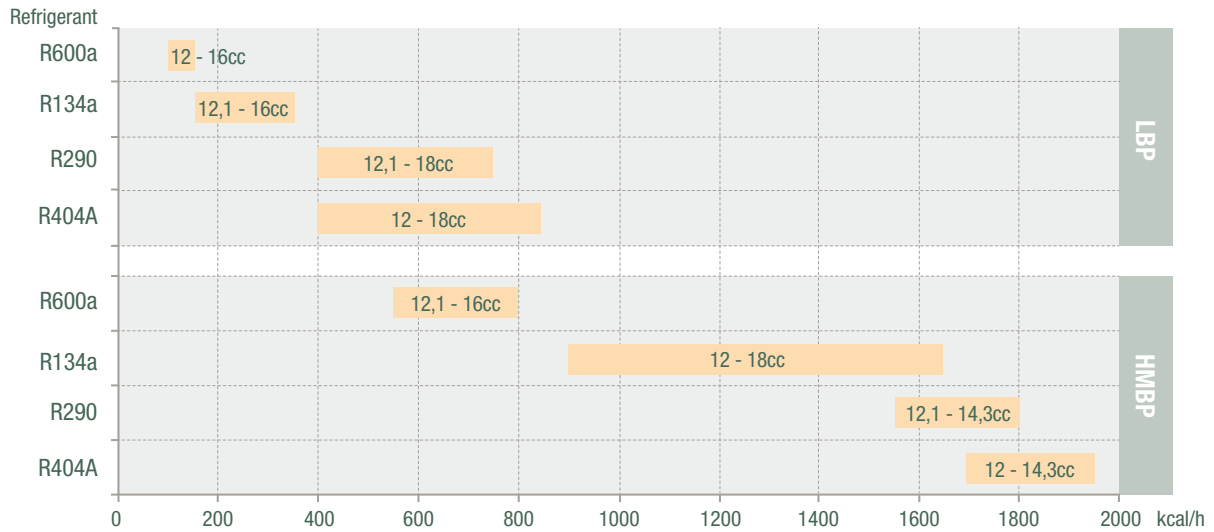
## Compressors Ranges U



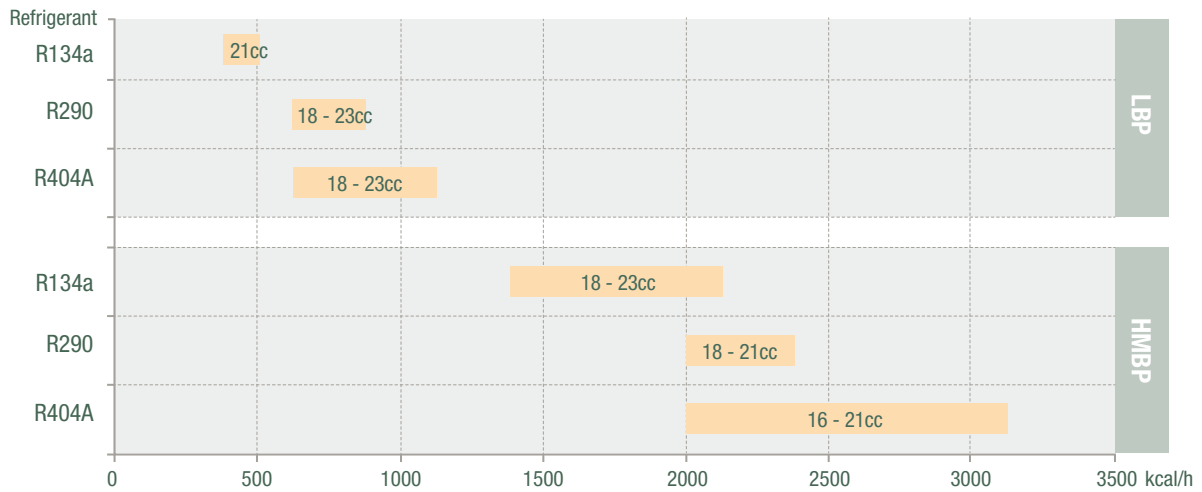
## Compressors Ranges L



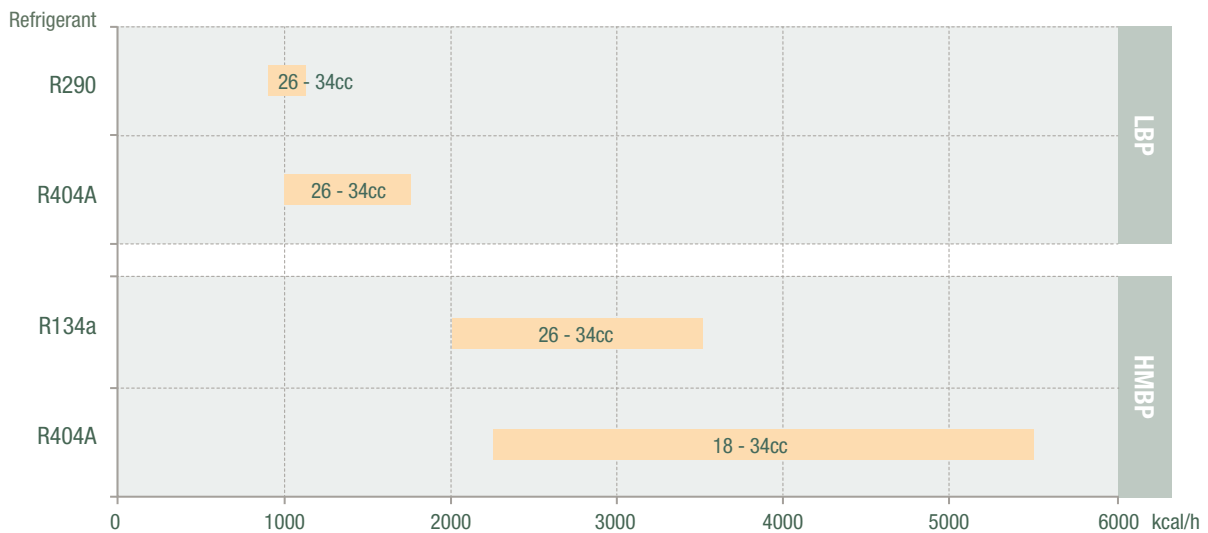
## Compressors Ranges P



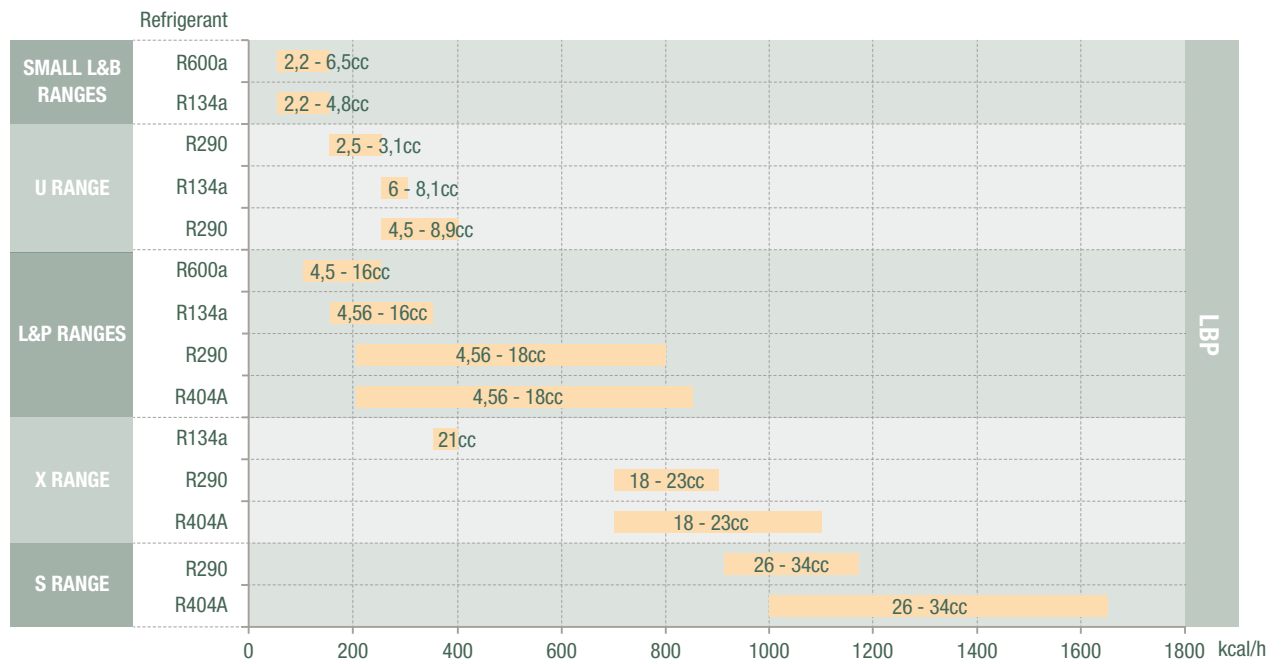
## Compressors Ranges X



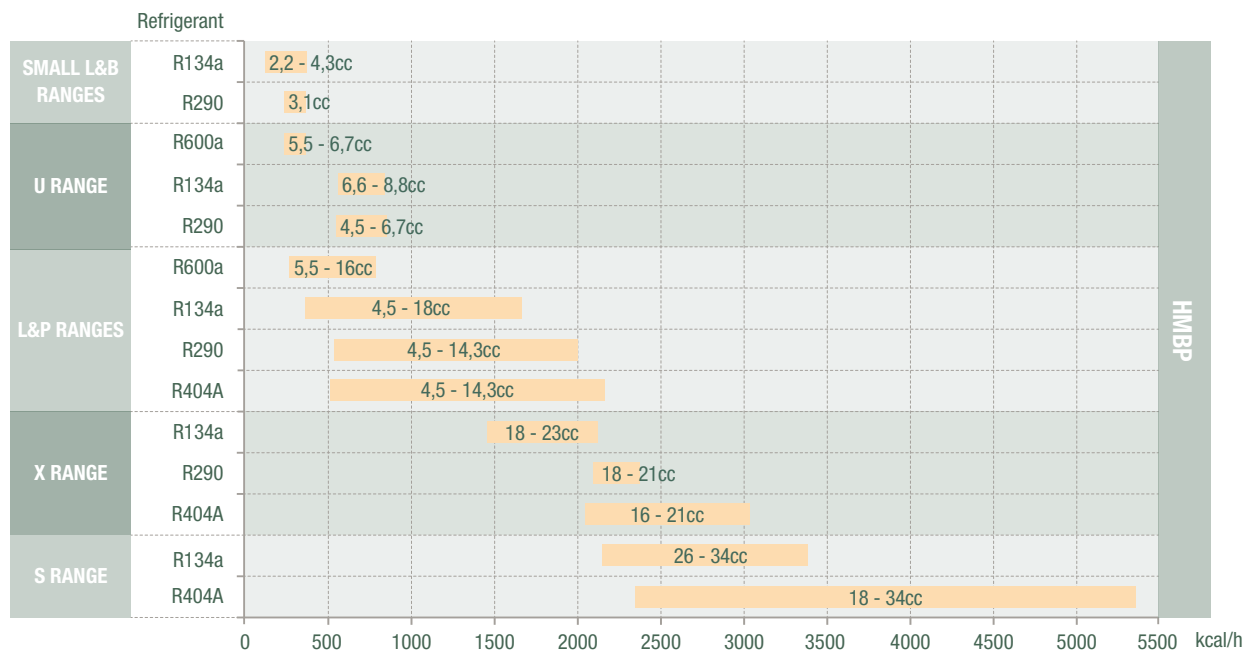
## Compressors Ranges S



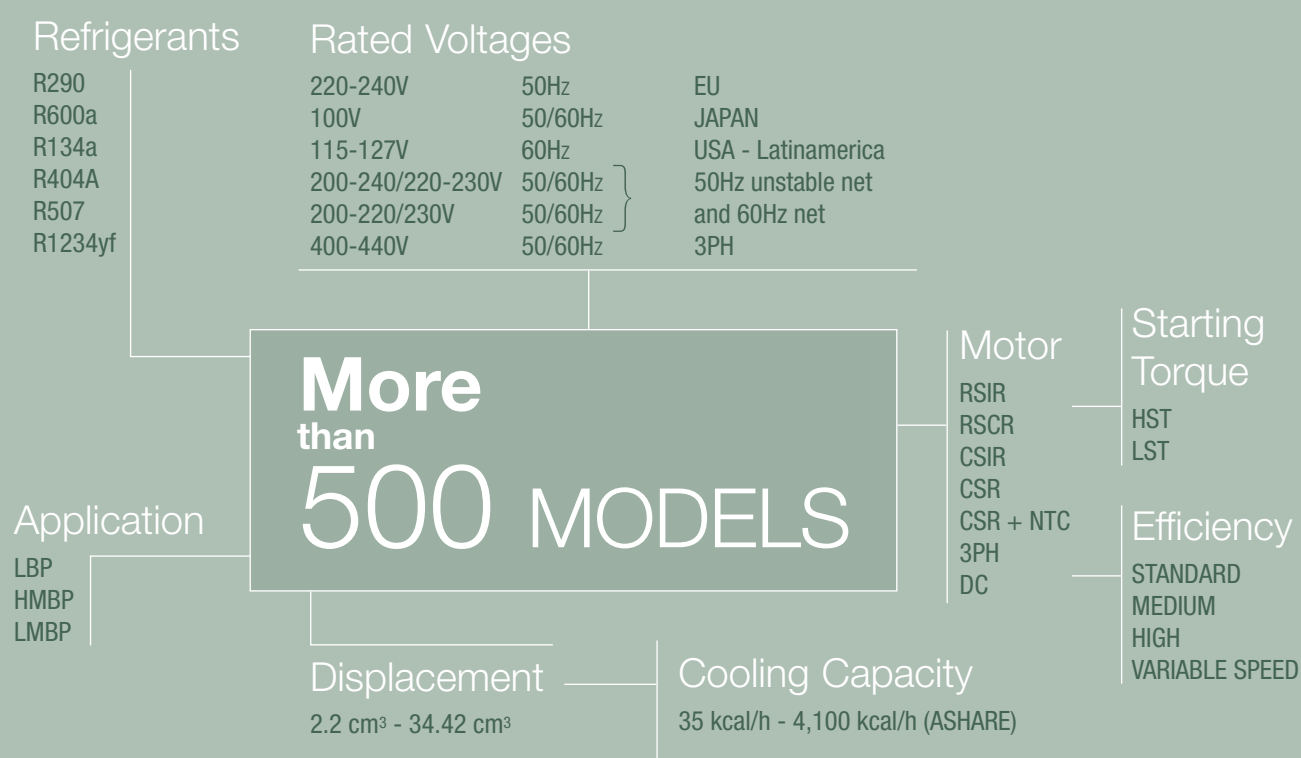
## Compressors Ranges LBP



## Compressors Ranges HMBP



# Compressors Product Summary



# Condensing Units

## Features, Benefits and Customized versions

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 and Benefits

- Complete range from 2.2 to 34 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
- Drain tray

### Main specific services

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

## Condensing Unit Versions

### Version "1"

Basic equipment to be directly connected by soldering to the tubes of the condenser. Applicable to systems with a capillary expansion device.

### Version "2"

Equipped with service valves in order to facilitate the connection and installation.

### Version "3"

Equipped with service valves and liquid receiver. Applicable to systems with expansion valve.

### Version "3P"

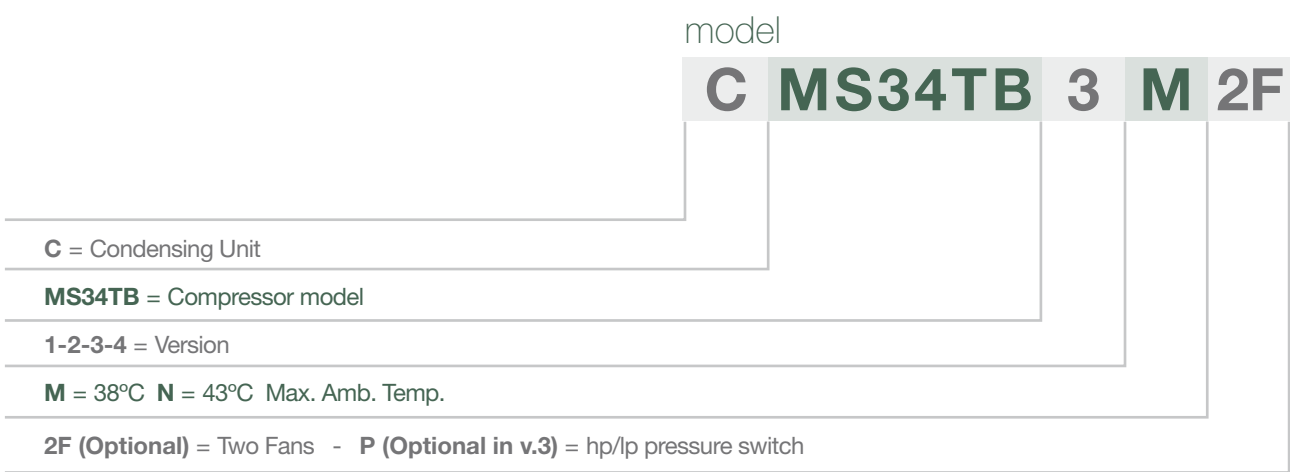
Version "3" additionally equipped with a hp/lp pressure switch.

### Version "4"

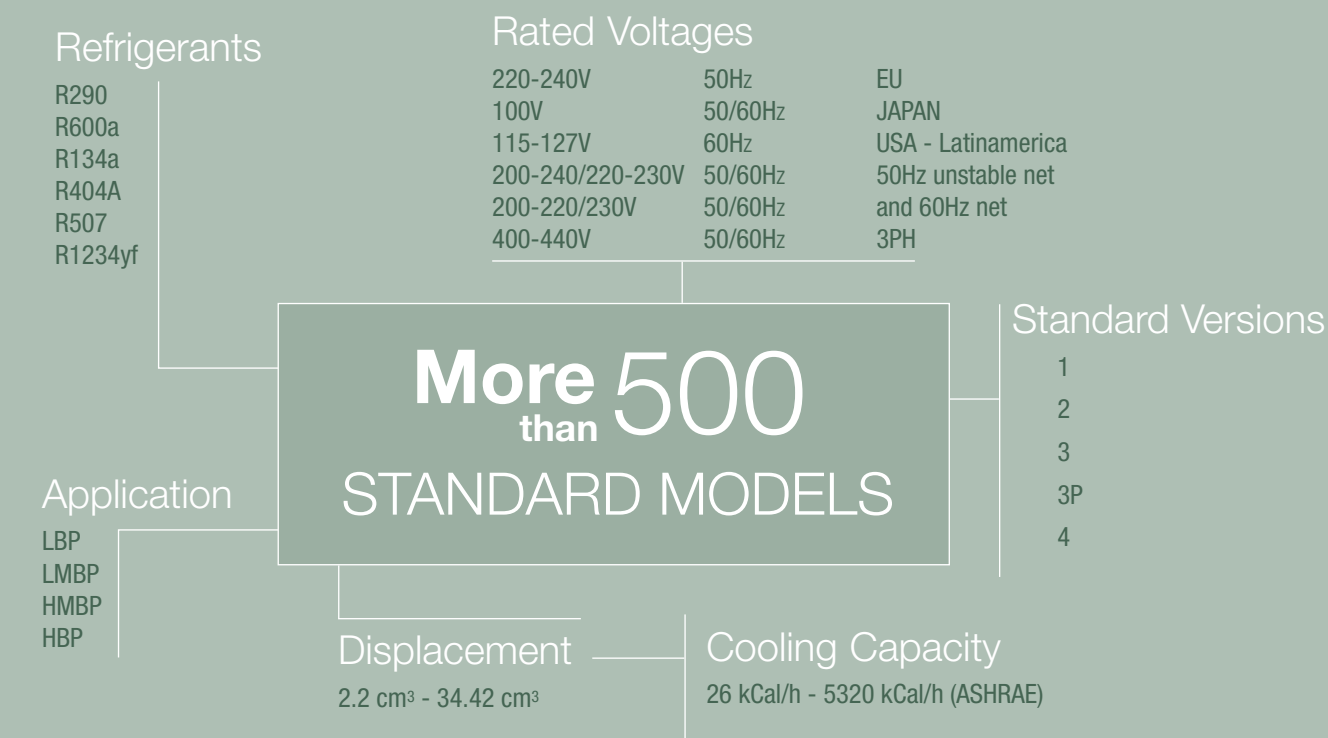
Version "1" additionally equipped with a Schrader valve on the refrigerant charging.



# Condensing Unit Designation



# Condensing Units Summary



## Compressors

Indicates Green Cooling models

indicates New models

## Condensing Units

		Grouped by Refrigerant type		Grouped by Application type		Grouped by Frequency		Voltage		Performance ASHRAE		Operative range of evaporating temp		Dimensional drawing reference								
		R134a (*)		HMBP   HBP		50 Hz																
		MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	MAX. AMBIENCE TEMP. T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY								VERSION "3"				
										W W x 0.86 = kcal/h    W x 3.412 = BTU/h Evaporating Temperature								DIMENSIONS W x L x H mm	TUBES SUCTION Inch	COMPRESSION Inch	WEIGHT Kg	DESIGN
										°C												
-25	-15	-5	5	7.2			10															
				W	W in p	A																
Indicates Green Cooling models	CGL45PB_N	4.50	1/6	43	T	HMBP	220-240V 50Hz ~1	RSIR	C	108	183	286	416	448	238	1.00	491	320x425x220	3/8	1/4	14.5	3B
	CGL45TB_N	4.50	1/6	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	108	183	286	416	448	238	1.00	491	320x425x220	3/8	1/4	14.5	3B
	CGL45TG_N	4.50	1/6	43	T	HMBP	200-240/220-230V 50/60Hz ~1	CSIR	C-V	109	180	279	407	439	219	1.00	482	320x425x220	3/8	1/4	14.5	3B
	CGLY45RAa_N	4.56	1/6	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	140	208	312	452	490	235	1.00	535	320x425x235	3/8	1/4	16.0	3B
	CGLY45RAb_N	4.56	1/6	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	140	208	312	452	490	211	0.85	535	320x425x235	3/8	1/4	16.0	3B
	CGL60PB_N	5.68	1/5	43	T	HMBP	220-240V 50Hz ~1	RSIR	C	130	232	361	520	558	271	1.00	609	320x425x235	3/8	1/4	17.0	3B
	CGL60TB_N	5.68	1/5	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	130	232	361	520	558	271	1.00	609	320x425x235	3/8	1/4	17.0	3B
	CGL60TG_N	5.68	1/5	43	T	HMBP	200-240/220-230V 50/60Hz ~1	CSIR	C-V	136	227	366	551	599	271	1.00	662	320x425x235	3/8	1/4	17.0	3B
	CGLY60RAa_N	5.98	1/5	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	137	251	396	573	616	264	1.00	673	340x425x235	3/8	1/4	17.0	3B
	CGLY60RAb_N	5.98	1/5	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	137	251	396	573	616	242	0.87	673	340x425x235	3/8	1/4	17.0	3A
Indicates New models	CGL80PB_N	7.57	1/5	43	T	HMBP	220-240V 50Hz ~1	RSIR	C	166	285	441	636	684	343	2.02	747	340x425x235	3/8	1/4	17.0	3B
	CGL80TB_N	7.57	1/5	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	166	285	441	636	684	343	2.02	747	340x425x235	3/8	1/4	17.0	3B
	CGL80TG_N	7.57	1/5	43	T	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	178	300	473	699	755	333	2.02	831	340x425x235	3/8	1/4	17.0	3B
	CGLY80RAa_N	8.10	1/5	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	219	351	543	795	858	349	2.02	943	340x425x235	3/8	1/4	18.5	3B
	CGLY80RAb_N	8.10	1/5	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	219	351	543	795	858	324	1.20	943	320x425x235	3/8	1/4	18.5	3A
	CGL90PB_N	8.85	1/4	43	T	HMBP	220-240V 50Hz ~1	RSIR	C	203	341	533	780	842	386	2.02	924	340x425x235	3/8	1/4	18.5	3B
	CGL90TB_N	8.85	1/4	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	203	341	533	780	842	386	2.02	924	340x425x235	3/8	1/4	18.5	3B
	CGL90TG_N	8.85	1/4	43	T	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	193	335	529	775	836	382	1.99	917	340x425x235	3/8	1/4	18.5	3B
	CGLY90RAa_N	9.09	1/4	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	215	360	564	827	893	437	2.30	981	350x425x270	3/8	1/4	19.5	3B
	CGLY90RAb_N	9.09	1/4	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	215	360	564	827	893	397	2.01	981	350x425x270	3/8	1/4	19.5	3A
	CGLY12RAa_N	10.70	3/8	43	T	HBP	220-240V 50Hz ~1	CSIR	C-V	-	422	662	971	1048	527	2.43	1151	350x425x270	3/8	1/4	20.5	3B
	CGLY12RAb_N	10.70	3/8	43	T	HBP	220-240V 50Hz ~1	CSR	C-V	-	422	662	971	1048	472	2.71	1151	350x425x270	3/8	1/4	20.5	3B
	CGLY12RGa_N	10.70	3/8	43	T	HBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	-	422	662	971	1048	568	2.30	1151	350x425x270	3/8	1/4	20.5	3B
	CGLY12RGb_N	10.70	3/8	43	T	HBP	200-220/220-230V 50/60Hz ~1	CSR	C-V	-	422	662	971	1048	526	2.33	1151	350x425x270	3/8	3/8	20.5	3B
	CGPY12RAa_N	12.10	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	314	504	768	1104	1188	571	3.02	1300	350x425x270	3/8	3/8	21.5	3B
	CGPY12RAb_N	12.10	3/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	314	504	768	1104	1188	523	2.07	1300	350x425x270	3/8	3/8	21.5	3A
	CGP14PB_N	14.17	3/8	43	T	HMBP	220-240V 50Hz ~1	RSIR	C	292	498	778	1130	1217	668	4.01	1334	350x425x270	3/8	1/4	21.5	3B
	CGP14TB_N	14.17	3/8	43	T	HBP	220-240V 50Hz ~1	CSIR	C-V	-	498	778	1130	1217	668	4.01	1334	350x425x270	3/8	1/4	21.5	3B
	CGP14TG_M	14.17	3/8	38	-	HBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	-	534	820	1184	1275	630	2.99	1395	350x425x270	3/8	1/4	21.5	3B
	CGLY14RAa_N	14.32	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	442	618	867	1190	1270	623	3.56	1378	365x510x300	3/8	3/8	23.5	2D
CGLY14RAb_N	14.32	3/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	442	618	867	1190	1270	579	3.02	1378	365x510x300	3/8	3/8	23.5	2E	
CGLPY16RAa_N	16.15	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	390	644	964	1350	1444	659	3.95	1568	365x510x300	3/8	3/8	23.5	2D	
CGLPY16RAb_N	16.15	3/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	390	644	964	1350	1444	609	2.99	1568	365x510x300	3/8	3/8	23.5	2D	



# 2.

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	-23.3			
												W	COP		kcal/h	COP		
	L22HL	2.20	1/20	LBP	S	220-240V 50Hz ~1	RSIR	P	C	16	24	34	0.63	75	40	0.82	3.70	SLb
	L30HL	3.10	1/12	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	23	35	49	0.69	108	58	0.90	4.20	SLc
	B38H	3.80	1/12	LBP	S	220-240V 50Hz ~1	RSIR	P	C	30	45	63	0.73	139	74	0.95	4.60	Bb
	B43H	4.30	1/10	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	34	50	71	0.77	156	83	1.00	5.40	Bc
	B43HB	4.30	1/10	LBP	S	220-240V 50Hz ~1	RSCR	P	C	35	51	72	0.92	158	84	1.20	5.00	Bc
	B48H	4.80	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	38	56	79	0.81	174	93	1.05	5.00	Bc
	GL45AAa	4.56	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	37	57	81	0.81	184	96	1.06	7.91	Lb
	GL45AAb	4.56	1/8	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	37	57	81	0.81	184	96	1.06	8.06	Lb
	GL45ANa	4.56	1/8	LBP	S	200-240/220-230V 50/60Hz ~1	RSIR	P	C	36	56	80	0.78	184	95	1.03	8.42	Lb
	GLY45AAa	4.56	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	46	65	89	1.01	192	104	1.30	9.08	Lb
	GLY45AAb	4.56	1/8	LBP	S	220-240V 50Hz ~1	RSCR	P	C	47	66	90	1.05	193	105	1.36	9.19	Lb
	GL60AAa	5.98	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	50	75	107	0.85	239	126	1.10	8.45	Lb
	GL60AAb	5.98	1/6	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	50	75	107	0.85	239	126	1.10	8.60	Lb
	GL60ANa	5.98	1/6	LBP	S	200-240/220-230V 50/60Hz ~1	RSIR	P	C	57	82	114	0.83	244	133	1.09	9.11	Lc
	GL60ANb	5.98	1/6	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	82	94	116	0.84	244	133	1.09	9.26	Lc
	GL60ANc	5.98	1/6	LBP	S	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	82	94	116	0.84	244	133	1.09	9.26	Lc
	GLY60AAa	5.98	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	58	85	119	1.04	255	139	1.34	8.49	Lb
	GLY60AAb	5.98	1/6	LBP	S	220-240V 50Hz ~1	RSCR	P	C	59	86	120	1.10	255	140	1.42	8.60	Lb
	GLY70AAa	6.65	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	66	96	133	1.03	289	156	1.33	9.09	Lc
	GLY70AAb	6.65	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	66	96	133	1.08	289	156	1.40	9.20	Lc
	GL80AAa	8.10	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	68	102	144	0.89	326	170	1.15	8.98	Lc
	GL80AAb	8.10	1/5	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	68	102	144	0.89	326	170	1.15	9.13	Lc
	GL80ANa	8.10	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	76	107	148	0.83	331	174	1.09	9.75	Lc
	GL80ANb	8.10	1/5	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	76	107	148	0.83	331	174	1.09	9.90	Lc
	GL80ANc	8.10	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	76	107	148	0.83	331	174	1.09	9.90	Lc
	GLY80AAa	8.10	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	92	123	164	1.07	349	191	1.37	9.51	Lc
	GLY80AAb	8.10	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	93	124	165	1.13	351	192	1.45	9.62	Lc
	GL90AAa	9.09	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	82	120	165	0.90	351	193	1.15	9.39	Lc
	GL90AAb	9.09	1/4	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	82	120	165	0.90	351	193	1.15	9.54	Lc
	GL90ANa	9.09	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	85	118	163	0.84	366	191	1.10	10.33	Ld
	GL90ANb	9.09	1/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	85	118	163	0.84	366	191	1.10	10.48	Ld
	GL90ANc	9.09	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	85	118	163	0.84	366	191	1.10	10.48	Ld
	GLY90AAa	9.09	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	104	140	186	1.07	387	216	1.37	9.43	Lc
	GLY90AAb	9.09	1/4	LBP	S	220-240V 50Hz ~1	RSCR	P	C	104	140	187	1.13	388	217	1.45	9.54	Lc
	GL99AAa	9.95	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	83	125	175	0.92	377	205	1.19	9.64	Ld
	GL99AAb	9.95	1/4	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	83	125	175	0.92	377	205	1.19	9.79	Ld
	GLM12LAa	10.70	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	98	143	200	0.92	445	235	1.19	10.06	Ld
	GLM12LAb	10.70	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	98	145	204	0.99	451	240	1.29	10.16	Ld
	GPY12AAa	12.10	3/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	128	178	241	0.96	500	280	1.23	12.07	Pd
	GPY12AAb	12.10	3/8	LBP	S	220-240V 50Hz ~1	RSCR	P	C	128	178	241	1.04	500	280	1.33	12.18	Pd
	GPY12LAa	12.10	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	113	162	225	1.00	509	265	1.30	12.78	Pd
	GPY12LAb	12.10	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	113	162	225	1.06	509	265	1.38	12.89	Pd
	GP14CG	14.17	3/8	LBP	F	200-220/220-230V 50/60Hz ~1	RSIR	R	C	99	158	228	0.83	509	270	1.08	10.62	Pc
	GP14FB	14.17	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	99	157	228	0.90	509	269	1.16	10.36	Pc
	GPY14NGa	14.32	3/8	LMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	147	205	283	0.92	636	323	1.14	12.59	Pd

Green Cooling Models





(\*) Or HF01234yf

New Models

















(\*\*) Under development

This table continues in the following page

## R134a (\*) LBP | LMBP • 50 Hz

	MODEL	DISPLACEMENT  cm³	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			
												W	COP		kcal/h	COP		
	GPY14NGb	14.32	3/8	LMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	148	206	<b>284</b>	<b>0.97</b>	636	<b>334</b>	<b>1.27</b>	12.69	Pd
	GP16FB	16.15	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	109	182	<b>266</b>	<b>0.89</b>	585	<b>315</b>	<b>1.14</b>	11.79	Pd
	GPY16LAa	16.15	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	151	220	<b>306</b>	<b>1.02</b>	677	<b>360</b>	<b>1.32</b>	11.73	Pd
	GPY16LAb	16.15	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	151	220	<b>306</b>	<b>1.09</b>	677	<b>360</b>	<b>1.42</b>	11.83	Pd
	GX21FB	20.72	2/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	151	243	<b>351</b>	<b>0.93</b>	778	<b>415</b>	<b>1.20</b>	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			
												W	COP		kcal/h	COP		
cm³	hp													Kg				
	L22H5	2.20	1/20	LBP	S	110-120V 60Hz ~1	RSIR	P	C	19	28	<b>39</b>	<b>0.56</b>	87	<b>46</b>	<b>0.75</b>	3.60	SLb
	L30HL	3.10	1/12	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	26	39	<b>55</b>	<b>0.80</b>	123	<b>64</b>	<b>1.04</b>	4.20	SLc
	L30H5L	3.10	1/12	LBP	S	110-120V 60Hz ~1	RSIR	P	C	27	40	<b>57</b>	<b>0.73</b>	127	<b>67</b>	<b>0.95</b>	3.85	SLc
	B38H	3.80	1/12	LBP	S	220-240V 60Hz ~1	RSIR	P	C	34	50	<b>71</b>	<b>0.96</b>	158	<b>83</b>	<b>1.10</b>	4.60	Bb
	B38H5	3.80	1/12	LBP	S	110-115V 60Hz ~1	RSIR	P	C	34	50	<b>71</b>	<b>0.96</b>	158	<b>83</b>	<b>1.10</b>	5.00	Bc
	B38H5L	3.80	1/12	LBP	S	110-120V 60Hz ~1	RSIR	P	C	34	50	<b>71</b>	<b>0.81</b>	158	<b>83</b>	<b>1.05</b>	4.60	Bc
	B43H	4.30	1/10	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	39	58	<b>81</b>	<b>0.96</b>	181	<b>95</b>	<b>1.10</b>	5.40	Bc
	B43HB	4.30	1/10	LBP	S	220-240V 50/60Hz ~1	RSCR	P	C	39	58	<b>81</b>	<b>1.00</b>	181	<b>95</b>	<b>1.30</b>	5.20	Bc
	B43H5L	4.30	1/10	LBP	S	110-120V 60Hz ~1	RSIR	P	C	39	58	<b>81</b>	<b>0.81</b>	181	<b>95</b>	<b>1.05</b>	5.00	Bc
	GL45ADa	4.56	1/8	LBP	S	115V 60Hz ~1	RSIR	P	C	42	65	<b>95</b>	<b>0.80</b>	215	<b>112</b>	<b>1.05</b>	8.19	Lb
	GL45ADb	4.56	1/8	LBP	S	115V 60Hz ~1	CSIR	R	C-V	42	65	<b>95</b>	<b>0.80</b>	215	<b>112</b>	<b>1.05</b>	8.34	Lb
	GL45ANa	4.56	1/8	LBP	S	200-240/220-230V 50/60Hz ~1	RSIR	P	C	43	65	<b>93</b>	<b>0.83</b>	213	<b>110</b>	<b>1.09</b>	8.42	Lb
	GL60ADa	5.98	1/6	LBP	S	115V 60Hz ~1	RSIR	P	C	65	95	<b>132</b>	<b>0.85</b>	290	<b>155</b>	<b>1.10</b>	9.48	Lb
	GL60ADb	5.98	1/6	LBP	S	115V 60Hz ~1	CSIR	R	C-V	65	95	<b>132</b>	<b>0.85</b>	290	<b>155</b>	<b>1.10</b>	9.63	Lb
	GL60ANa	5.98	1/6	LBP	S	200-240/220-230V 50/60Hz ~1	RSIR	P	C	95	108	<b>133</b>	<b>0.89</b>	285	<b>153</b>	<b>1.15</b>	9.11	Lc
	GL60ANb	5.98	1/6	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	95	108	<b>133</b>	<b>0.89</b>	285	<b>153</b>	<b>1.15</b>	9.26	Lc
	GL60ANc	5.98	1/6	LBP	S	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	95	108	<b>133</b>	<b>0.89</b>	285	<b>153</b>	<b>1.15</b>	9.26	Lc
	GUY60NRb	6.00	1/5	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	80	113	<b>158</b>	<b>1.15</b>	362	<b>185</b>	<b>1.49</b>	9.00	Ub
	GUY60NRc	6.00	1/5	LMBP	S	115-127V 60Hz ~1	CSIR	R	C-V	80	113	<b>158</b>	<b>1.15</b>	362	<b>185</b>	<b>1.49</b>	9.00	Ub
	GUY70NRb	6.70	1/5	LMBP	F	115-127V 60Hz ~1	CSIR	R	C	86	121	<b>166</b>	<b>1.15</b>	386	<b>194</b>	<b>1.49</b>	9.30	Ub
	GUY70NRc	6.70	1/5	LMBP	S	115-127V 60Hz ~1	CSIR	R	C	86	121	<b>166</b>	<b>1.15</b>	386	<b>194</b>	<b>1.49</b>	9.30	Ub
	GL80ANa	8.10	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	87	124	<b>172</b>	<b>0.92</b>	385	<b>202</b>	<b>1.19</b>	9.75	Lc
	GL80ANb	8.10	1/5	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	87	124	<b>172</b>	<b>0.92</b>	385	<b>202</b>	<b>1.19</b>	9.90	Lc
	GL80ANc	8.10	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	87	124	<b>172</b>	<b>0.92</b>	385	<b>202</b>	<b>1.19</b>	9.90	Lc
	GUY80NRb	8.10	1/4	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	107	151	<b>209</b>	<b>1.14</b>	480	<b>245</b>	<b>1.49</b>	9.60	Ub
	GUY80NRc	8.10	1/4	LMBP	S	115-127V 60Hz ~1	CSIR	R	C-V	107	151	<b>209</b>	<b>1.14</b>	480	<b>245</b>	<b>1.49</b>	9.60	Ub
	GL90ANa	9.09	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	96	134	<b>185</b>	<b>0.93</b>	421	<b>218</b>	<b>1.20</b>	10.33	Ld
	GL90ANb	9.09	1/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	96	134	<b>185</b>	<b>0.93</b>	421	<b>218</b>	<b>1.20</b>	10.48	Ld
	GL90ANc	9.09	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	96	134	<b>185</b>	<b>0.93</b>	421	<b>218</b>	<b>1.20</b>	10.48	Ld
	GL99ADa	9.95	1/4	LBP	S	115V 60Hz ~1	RSIR	P	C	102	148	<b>205</b>	<b>0.89</b>	439	<b>240</b>	<b>1.15</b>	11.44	Ld
	GL99ADb	9.95	1/4	LBP	S	115V 60Hz ~1	CSIR	R	C-V	102	148	<b>205</b>	<b>0.89</b>	439	<b>240</b>	<b>1.15</b>	11.59	Ld
	GLY12NRa	10.70	3/8	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	119	168	<b>234</b>	<b>1.02</b>	531	<b>275</b>	<b>1.33</b>	10.55	Ld

 Green Cooling Models






 New Models

(\*) Or HF01234yf












(\*\*) Under development

This table continues in the following page

## 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			
		W	COP	kcal/h	COP													
		cm³	hp													Kg		
	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>275</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>310</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>316</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>378</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>380</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>387</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>389</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			
												W	COP		kcal/h			COP
	B22G	2.20	1/14	HBP	S-F	220-240V 50Hz ~1	RSIR	P	C	-	60	<b>152</b>	<b>1.64</b>	192	<b>160</b>	<b>1.94</b>	4.60	Bb
	B25G	2.60	1/14	HBP	S-F	220-240V 50/60Hz ~1	RSIR	P	C	-	76	<b>202</b>	<b>1.53</b>	243	<b>208</b>	<b>2.08</b>	4.65	Bb
	B25GL	2.60	1/14	HBP	S-F	220-240V 50Hz ~1	CSIR	R	C-V	-	70	<b>190</b>	<b>1.84</b>	228	<b>196</b>	<b>2.14</b>	5.50	Be
	B30G	3.10	1/10	HBP	S-F	220-240V 50Hz ~1	RSIR	P	C	-	83	<b>229</b>	<b>1.77</b>	270	<b>234</b>	<b>1.77</b>	4.80	Bc
	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>234</b>	<b>1.77</b>	4.80	Bc
	B35GL	3.50	1/10	HBP	S-F	220-240V 50Hz ~1	CSIR	R	C-V	-	100	<b>269</b>	<b>1.87</b>	323	<b>278</b>	<b>2.18</b>	5.50	Be
	B38G	3.80	1/8	HBP	S-F	220-240V 50Hz ~1	CSIR	R	C-V	-	129	<b>291</b>	<b>1.91</b>	347	<b>298</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>301</b>	<b>2.22</b>	5.40	Bd
	B43GL	4.30	1/6	HBP	S-F	220-240V 50Hz ~1	RSIR	P	C	-	122	<b>348</b>	<b>1.75</b>	422	<b>360</b>	<b>1.77</b>	5.30	Be
	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>352</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>352</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>352</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>352</b>	<b>1.95</b>	9.15	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>385</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>385</b>	<b>2.45</b>	8.85	Lb
	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>445</b>	<b>1.99</b>	9.00	Lc
	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>450</b>	<b>2.09</b>	8.34	Lb
	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>450</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>450</b>	<b>2.01</b>	10.38	Lc
	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>450</b>	<b>2.09</b>	9.07	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>500</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>500</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>554</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>560</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>665</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>669</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>600</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>570</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>570</b>	<b>2.10</b>	9.19	Lc
	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>570</b>	<b>2.21</b>	10.98	Lc

 Green Cooling Models






















(\*) Or HF01234yf

 New Models

(\*\*) Under development

This table continues in the following page

R134a (\*) HMBP | HBP • 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			
										-25	-15	5		10	7.2			
												W	COP		kcal/h	COP		
cm³	hp														Kg			
	GL80TG	7.57	1/5	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	111	212	553	1.81	667	570	2.10	9.53	Lc
	GLY80RAa	8.10	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	159	275	680	2.16	818	700	2.51	10.10	Lc
	GLY80RAb	8.10	1/5	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	159	275	680	2.33	818	700	2.71	10.21	Lc
	GUY80RAa	8.10	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	174	302	720	2.22	859	738	2.56	9.70	Ub
	GUY80RAb	8.10	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	177	304	727	2.38	868	745	2.75	9.80	Ub
	GL90MG	8.85	1/4	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	328	661	1.79	810	685	2.10	10.61	Ld
	GL90PB	8.85	1/4	HMBP	F	220-240V 50Hz ~1	RSIR	R	C	143	259	660	1.90	796	680	2.20	9.12	Ld
	GL90TB	8.85	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	143	259	660	1.90	796	680	2.20	9.66	Lc
	GL90TC	8.85	1/4	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	143	259	660	1.75	796	680	2.08	11.48	Ld
	GL90TG	8.85	1/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	143	259	660	1.80	796	680	2.08	9.70	Ld
	GLY90RAa	9.09	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	169	298	748	2.05	901	770	2.37	10.74	Lc
	GLY90RAb	9.09	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	169	298	748	2.25	901	770	2.61	10.84	Lc
	GUY90RAa	8.80	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	182	317	775	2.21	929	796	2.56	9.70	Ub
	GUY90RAb	8.80	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	180	319	783	2.35	938	804	2.73	9.80	Ub
	GL11TB	9.95	1/3	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	190	330	817	1.92	981	840	2.23	9.97	Ld
	GLY12RAa	10.70	3/8	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	349	867	1.97	1064	900	2.30	10.23	Ld
	GLY12RAb	10.70	3/8	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	349	867	2.20	1064	900	2.57	10.33	Ld
	GLY12RGa	10.70	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	-	349	867	1.87	1064	900	2.19	10.43	Ld
	GLY12RGb	10.70	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	-	349	867	1.98	1064	900	2.32	10.53	Ld
	GPY12RAa	12.10	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	228	401	992	2.03	1191	1020	2.35	13.31	Pd
	GPY12RAb	12.10	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	228	401	992	2.23	1191	1020	2.58	13.42	Pd
	GP14TB	14.17	3/8	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	191	373	998	1.76	1208	1030	2.03	11.29	Pd
	GP14TG	14.17	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	190	373	998	1.76	1208	1030	2.03	11.98	Pd
	GPY14RAa	14.32	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	296	492	1161	1.97	1386	1190	2.27	12.20	Pd
	GPY14RAb	14.32	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	296	492	1161	2.16	1386	1190	2.50	12.30	Pd
	GP16TB	16.15	3/8	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	476	1204	1.80	1451	1240	2.09	11.93	Pd
	GP16TG	16.15	3/8	HBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	-	476	1204	1.81	1451	1240	2.09	11.93	Pd
	GPM16RA	16.15	1/2	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	543	1317	1.79	1574	1351	2.09	12.29	Pd
	GPY16RAa	16.15	1/2	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	307	542	1317	2.02	1574	1351	2.34	12.84	Pd
	GPY16RAb	16.15	1/2	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	307	542	1317	2.15	1574	1351	2.50	12.94	Pd
	GPT16RG	16.15	1/2	HBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	-	552	1323	2.13	1600	1364	2.50	12.16	Pd
	GPT18RA	18.00	1/2	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	618	1482	2.06	1783	1525	2.39	12.68	Pd
	GPT18RG (**)	18.00	1/2	HBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	-	596	1429	2.00	1719	1470	2.32	12.70	Pd
	GX18TB	18.40	1/2	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	286	539	1389	1.90	1673	1430	2.20	15.44	Xc
	GX18TG	18.40	1/2	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	286	539	1389	1.90	1673	1430	2.20	16.08	Xc
	GX21TB	20.72	5/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	323	603	1549	1.88	1866	1595	2.18	16.13	Xd
	GX23TB	23.20	5/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	368	677	1729	1.88	2082	1780	2.18	16.33	Xd
	GX23TG	23.20	5/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	368	677	1729	1.79	2082	1780	2.08	16.34	Xd
	GS26T3	25.93	3/4	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	265	703	2070	2.19	2514	2140	2.55	22.70	Sc
	GS26TB	25.93	3/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	265	703	2070	2.08	2514	2140	2.42	22.70	Sc
	GS26TG	25.93	3/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	265	703	2070	2.14	2514	2140	2.49	22.70	Sc
	GS30TB	29.95	7/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	317	785	2451	2.31	3019	2550	2.70	22.70	Sd
	GS30TG	29.95	7/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	317	785	2451	2.31	3019	2550	2.70	23.00	Sd
	GS34TB	34.42	1	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	476	1068	2850	2.26	3420	2930	2.62	21.35	Sd
	GS34TG	34.42	1	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	467	992	2829	2.24	3453	2931	2.64	22.27	Sd

 Green Cooling Models  
 New Models

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

Compressors  
R134a

# 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		kcal/h			COP
	B22G5	2.20	1/16	HBP	S-F	110-115V 60Hz ~1	RSIR	P	C	-	72	188	1.83	229	194	2.13	4.60	Bb
	B25G	2.60	1/14	HBP	S-F	220-240V 50/60Hz ~1	RSIR	P	C	-	86	224	1.80	274	232	2.10	4.65	Bb
	B25G5L	2.60	1/14	HBP	S-F	110-115V 60Hz ~1	CSIR	R	C-V	-	88	231	1.93	283	240	2.27	5.70	Be
	B30G5	3.10	1/12	HBP	S-F	110-115V 60Hz ~1	RSIR	P	C	-	100	262	1.55	317	270	1.80	5.00	Bb
	B35G5	3.50	1/10	HBP	S-F	110-120V 60Hz ~1	CSIR	R	C-V	-	120	304	1.80	371	315	2.12	5.00	Bb
	B38G	3.80	1/8	HBP	S-F	220-240V 50/60Hz ~1	CSIR	R	C-V	-	150	339	1.98	410	349	2.31	5.40	Bd
	B38G5L	3.80	1/8	HBP	S-F	110-115V 60Hz ~1	CSIR	R	C-V	-	136	353	1.83	424	363	2.13	5.70	Be
	GL45PE	4.56	1/6	HMBP	F	115V 60Hz ~1	RSIR	R	C	89	157	400	1.59	483	412	1.84	8.87	Lb
	GL45TE	4.56	1/6	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	89	157	400	1.59	483	412	1.84	9.18	Lb
	GL45TG	4.56	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	89	157	400	1.65	483	412	1.92	9.15	Lb
	GL45MG	4.56	1/6	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	204	398	1.65	487	412	1.92	9.37	Lb
	GL60MG	5.98	1/5	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	243	499	1.73	619	520	2.02	9.00	Lc
	GL60PE	5.68	1/5	HMBP	F	115V 60Hz ~1	RSIR	R	C	111	199	510	1.73	616	526	2.01	9.97	Lc
	GL60TC	5.68	1/5	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	111	199	510	1.74	616	526	2.01	10.38	Lc
	GL60TE	5.68	1/5	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	111	199	510	1.73	616	526	2.01	10.28	Lc
	GL60TG	5.68	1/5	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	111	199	510	1.76	616	526	2.04	9.07	Lc
	GL80MG	7.57	1/5	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	344	674	1.84	836	702	2.15	9.53	Lc
	GL80PE	7.57	1/5	HMBP	F	115V 60Hz ~1	RSIR	R	C	130	248	647	1.78	781	667	2.04	9.97	Lc
	GL80TC	7.57	1/5	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	130	248	647	1.92	781	667	2.22	10.98	Lc
	GL80TE	7.57	1/5	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	130	248	647	1.78	781	667	2.04	10.68	Lc
	GL80TG	7.57	1/5	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	130	248	647	1.78	781	667	2.04	9.53	Lc
	GLY80RDa	8.10	1/5	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	169	299	775	2.02	939	800	2.34	10.33	Lc
	GLY80RDb	8.10	1/5	HMBP	F	115V 60Hz ~1	CSR	R	C-V	169	299	775	2.17	939	800	2.51	10.43	Lc
	GL90MG	8.85	1/4	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	391	772	1.83	947	800	2.11	10.61	Ld
	GL90PE	8.85	1/4	HMBP	F	115V 60Hz ~1	RSIR	R	C	167	303	773	1.78	932	796	2.06	11.27	Ld
	GL90TC	8.85	1/4	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	167	303	773	1.82	932	796	2.1	11.48	Ld
	GL90TE	8.85	1/4	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	167	303	773	1.78	932	796	2.06	9.75	Ld
	GL90TG	8.85	1/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	168	303	773	1.71	932	796	1.97	9.70	Ld
	GLY90RDa	9.09	1/4	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	198	348	874	1.95	1053	900	2.25	10.59	Lc
	GLY90RDb	9.09	1/4	HMBP	F	115V 60Hz ~1	CSR	R	C-V	198	348	874	2.10	1053	900	2.42	10.69	Lc
	GLY12RGa	10.70	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	-	405	1007	1.90	1216	1038	2.22	10.43	Ld
	GLY12RGb	10.70	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	-	405	1007	2.07	1216	1038	2.40	10.53	Ld
	GLY12RRa	10.70	3/8	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	222	402	1015	1.90	1221	1044	2.20	11.14	Ld
	GLY12RRb	10.70	3/8	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	222	402	1015	2.01	1221	1044	2.32	11.24	Ld
	GPY12RDa	12.10	3/8	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	280	480	1150	1.95	1375	1180	2.25	12.03	Pd
	GPY12RDb	12.10	3/8	HMBP	F	115V 60Hz ~1	CSR	R	C-V	280	480	1150	2.11	1375	1180	2.44	12.13	Pd
	GP14TG	14.17	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	222	437	1168	1.76	1413	1205	2.03	11.98	Pd
	GPY14RDa	14.32	1/2	HBP	F	115V 60Hz ~1	CSIR	R	C-V	-	317	1234	1.78	2012	1467	2.22	12.03	Pd
	GPY14RDb	14.32	1/2	HBP	F	115V 60Hz ~1	CSR	R	C-V	-	317	1234	1.89	2012	1467	2.36	12.13	Pd
	GP16TE	16.15	3/8	HBP	F	115V 60Hz ~1	CSIR	R	C-V	-	556	1408	1.69	1697	1450	1.96	12.20	Pd
	GP16TG	16.15	3/8	HBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	-	556	1408	1.74	1697	1450	2.00	11.93	Pd
	GPT16RG	16.15	1/2	HBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	-	650	1515	2.02	1827	1560	2.33	12.16	Pd
	GPY16RDa	16.15	1/2	HBP	F	115V 60Hz ~1	CSIR	R	C-V	-	614	1518	1.88	1822	1560	2.17	12.05	Pd
	GPY16RDb	16.15	1/2	HBP	F	115V 60Hz ~1	CSR	R	C-V	-	614	1518	2.00	1822	1560	2.31	12.15	Pd
	GPT18RG (**)	18.00	1/2	HBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	-	642	1586	1.91	1904	1630	2.21	12.70	Pd

Green Cooling Models  
New Models

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

This table continues in the following page



R134a (\*) HMBP | HBP • 60 Hz

	MODEL	DISPLACEMENT	POWER	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY							WEIGHT	DESIGN
		cm³	hp							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		kcal/h	COP		
	GX18TG	18.40	1/2	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	333	630	1625	1.87	1957	1673	2.17	16.08	Xc
	GX23TG	23.20	5/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	429	792	2021	1.71	2433	2080	1.98	16.34	Xd
	GS26T3	25.93	3/4	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	307	824	2419	2.07	2935	2500	2.40	22.70	Sc
	GS26TG	25.93	3/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	307	824	2419	2.06	2935	2500	2.40	22.70	Sc
	GS30TG	29.95	7/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	370	920	2865	2.23	3527	2980	2.61	23.00	Sd
	GS34TF	34.42	1	HMBP	F	220-230V 60Hz ~1	CSR	R	C-V	550	1247	3327	2.17	3990	3420	2.50	22.70	Sd
	GS34TG	34.42	1	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	440	1093	3248	2.11	3963	3365	2.44	22.27	Sd

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

Compressors  
R134a

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

Measurement conversion  
R134a  
W (A) x 1.18 = kcal/h (B)  
W (C) x 1.02 = kcal/h (D)      S compressor's range can be provided with tube or valve





















# 2.

## Compressors Catalogue

# R404A/R507

## R404A • R507 (\*) LBP • 50 Hz

	MODEL	DISPLACEMENT  cm³	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		kcal/h	COP		
	ML45FB	4.56	1/6	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	52	100	133	0.66	274	170	0.94	8.57	Lb
	ML45FG	4.56	1/6	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	52	100	133	0.68	274	170	0.96	10.87	Lc
	MLY45LAa	4.56	1/6	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	61	118	157	0.92	317	200	1.30	9.55	Lc
	MLY45LAb	4.56	1/6	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	61	118	157	0.98	317	200	1.38	9.65	Lc
	ML60FB	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	69	139	186	0.85	371	236	1.20	8.88	Lc
	ML60FG	5.98	1/5	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	69	134	177	0.71	351	225	1.01	10.87	Lc
	MLY60LAa	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	86	168	221	0.90	428	280	1.26	10.02	Lc
	MLY60LAb	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	86	168	221	0.96	428	280	1.36	10.12	Lc
	ML80FB	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	99	189	251	0.77	505	319	1.09	9.47	Lc
	ML80FG	8.10	1/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	99	190	252	0.77	505	320	1.08	12.20	Ld
	MLY80LAa	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	104	207	275	0.91	548	350	1.28	11.00	Ld
	MLY80LAb	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	104	207	275	0.98	548	350	1.38	11.10	Ld
	ML90FB	8.85	1/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	104	207	275	0.83	548	350	1.16	9.74	Ld
	ML90FG	8.85	1/3	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	104	207	275	0.80	548	350	1.13	10.78	Ld
	MLY90LAa	9.09	1/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	121	236	311	0.91	612	395	1.28	10.35	Ld
	MLY90LAb	9.09	1/3	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	121	236	311	0.98	612	395	1.38	10.45	Ld
	MLY12LAa	10.70	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	156	294	387	0.94	762	490	1.33	10.85	Ld
	MLY12LAb	10.70	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	156	294	387	1.00	762	490	1.41	10.95	Ld
	MLY12LGa	10.70	3/8	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	165	297	387	0.83	756	490	1.17	11.06	Ld
	MLY12LGb	10.70	3/8	LBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	165	302	394	0.90	768	499	1.28	11.16	Ld
	MPT12LA	12.10	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	194	347	451	1.01	873	570	1.42	12.23	Pd
	MP14FB	14.17	1/2	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	121	304	421	0.79	877	540	1.12	12.07	Pd
	MP14FG	14.17	1/2	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	121	303	420	0.79	877	539	1.12	12.03	Pd
	MPT14LA	14.32	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	242	419	534	0.99	984	670	1.38	12.25	Pd
	MPT16LA	16.15	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	245	462	605	1.00	1168	765	1.40	12.37	Pd
	MPT18LA	18.00	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	269	504	657	0.96	1260	830	1.35	12.81	Pd
	MX18FBa	18.40	5/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	173	396	546	0.96	1147	700	1.36	16.29	Xd
	MX21FBa	20.72	3/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	212	463	630	0.96	1296	805	1.35	16.66	Xd
	MX21FGa	20.72	3/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	212	463	630	0.96	1296	805	1.35	17.32	Xd
	MX23FBa	23.20	7/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	259	534	718	0.96	1455	915	1.35	16.61	Xd
	MX23FGa	23.20	7/8	LBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	259	534	718	0.95	1455	915	1.34	17.50	Xd
	MS26F3	25.93	3/4	LBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	173	548	777	0.95	1626	1000	1.35	20.80	Sd
	MS26FB	25.93	3/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	182	571	814	0.97	1737	1050	1.37	21.63	Sd
	MS26FG	25.93	3/4	LBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	173	548	777	0.95	1626	1000	1.35	22.60	Sd
	MS30F3	29.95	7/8	LBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	207	655	931	0.93	1968	1200	1.32	24.00	Sd
	MS30FB	29.95	7/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	207	656	932	0.95	1969	1201	1.35	22.70	Sd
	MS34F3	34.42	1	LBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	242	762	1085	0.99	2311	1400	1.40	22.90	Sd
	MS34FB	34.42	1	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	242	759	1083	0.95	2311	1397	1.35	22.13	Sd





















 Green Cooling Models

(\*) Or R407B

 New Models

(\*\*) 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			
												W	COP		kcal/h	COP		
	ML45FG	4.56	1/6	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	61	117	157	0.68	321	200	0.97	10.87	Lc
	ML45FR	4.56	1/6	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	61	117	157	0.72	321	200	1.01	9.21	Lc
	MLY45LRa	4.56	1/6	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	64	143	192	0.87	379	244	1.23	9.20	Lc
	MLY45LRb	4.56	1/6	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	64	143	192	0.90	379	244	1.27	9.30	Lc
	ML60FG	5.98	1/5	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	81	157	207	0.70	411	263	0.99	10.87	Lc
	ML60FR	5.98	1/5	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	81	157	207	0.72	411	263	1.01	9.54	Lc
	MLY60Lda	5.98	1/5	LBP	F	115V 60Hz ~1	CSIR	R	C-V	102	197	259	0.89	501	328	1.25	10.40	Lc
	MLY60LDdb	5.98	1/5	LBP	F	115V 60Hz ~1	CSR	R	C-V	102	197	259	0.95	501	328	1.34	10.50	Lc
	ML80FG	8.10	1/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	117	223	296	0.76	590	376	1.07	12.20	Ld
	ML80FR	8.10	1/4	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	117	223	296	0.75	590	376	1.05	11.97	Ld
	ML90FG	8.85	1/3	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	121	242	323	0.80	642	410	1.12	10.78	Ld
	ML90FR	8.85	1/3	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	121	242	323	0.79	642	410	1.11	11.97	Ld
	MLT90CD	9.09	1/3	LBP	F	115V 60Hz ~1	RSCR	P	C	164	290	382	1.03	770	485	1.45	11.40	Ld
	MLT90CDc	9.09	1/3	LBP	S	115V 60Hz ~1	CSR	R	C-V	159	284	373	0.99	750	474	1.40	11.55	Ld
	MLT90LD	9.09	1/4	LBP	F	115V 60Hz ~1	CSR	R	C-V	159	284	373	0.99	750	474	1.40	11.80	Ld
	MLY12Lfa	10.70	3/8	LBP	F	208-230V 60Hz ~1	CSIR	R	C-V	179	343	451	0.92	882	572	1.29	11.06	Ld
	MLY12Lfb	10.70	3/8	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	179	343	451	0.94	882	572	1.33	11.16	Ld
	MLY12LGa	10.70	3/8	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	190	351	458	0.86	884	579	1.22	11.06	Ld
	MLY12LGb	10.70	3/8	LBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	190	357	466	0.91	889	588	1.29	11.16	Ld
	MLY12LRa	10.70	3/8	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	199	373	478	0.96	866	600	1.34	11.01	Ld
	MLY12LRb	10.70	3/8	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	200	369	476	1.00	890	600	1.41	11.11	Ld
	MPT12CD	12.10	3/8	LBP	F	115V 60Hz ~1	RSCR	P	C	225	397	515	1.01	993	650	1.41	12.35	Pd
	MPT12LD	12.10	3/8	LBP	F	115V 60Hz ~1	CSR	R	C-V	225	397	515	1.01	993	650	1.41	13.50	Pd
	MP14FG	14.17	1/2	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	142	355	492	0.82	1026	631	1.15	12.03	Pd
	MPT14LD	14.32	1/2	LBP	F	115V 60Hz ~1	CSR	R	C-V	258	453	590	0.96	1156	746	1.35	12.17	Pd
	MPT14LF	14.32	1/2	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	262	474	621	0.96	1223	770	1.36	12.30	Pd
	MPT16LD (**)	16.10	1/2	LBP	F	115V 60Hz ~1	CSR	R	C-V	272	492	645	0.91	1270	800	1.30	12.50	Pd
	MX21FR (**)	20.72	3/4	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	301	545	714	0.90	1406	885	1.30	17.50	Xd
	MX21FGa	20.72	3/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	247	540	735	0.94	1515	940	1.32	17.32	Xd
	MX23FGa	23.20	7/8	LBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	303	627	843	0.93	1711	1075	1.32	17.50	Xd
	MS26F3	25.93	3/4	LBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	202	641	909	0.92	1902	1170	1.31	20.80	Sd
	MS26FF	25.93	3/4	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	202	641	909	0.91	1902	1170	1.30	22.60	Sd
	MS26FG	25.93	3/4	LBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	202	641	909	0.92	1902	1170	1.31	22.60	Sd
	MS30F3	29.95	7/8	LBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	242	763	1086	0.94	2302	1400	1.32	24.00	Sd
	MS30FF	29.95	7/8	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	242	763	1086	0.92	2302	1400	1.31	22.70	Sd
	MS34F3	34.42	1	LBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	277	885	1263	0.96	2696	1630	1.35	22.90	Sd
	MS34FF	34.42	1	LBP	F	208V 60Hz ~1	CSR	R	C-V	272	838	1216	0.91	2738	1580	1.30	22.90	Sd

Green Cooling Models

(\*) Or R407B















New Models

(\*\*) Under development

Compressors  
R404A / R507



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

	MODEL	DISPLACEMENT  cm³	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		kcal/h	COP		
	ML40TB	4.05	1/6	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	132	212	470	1.41	555	510	1.74	9.47	Lc
	ML40TG	4.05	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	132	212	470	1.41	555	510	1.74	9.12	Lc
	ML45TB	4.56	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	150	237	525	1.47	621	570	1.82	9.10	Lc
	ML45TG	4.56	1/5	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	150	237	525	1.47	621	570	1.82	10.57	Lc
	MLT45RG	4.56	1/5	HMBP	F	200-240/220-230V 50/60Hz ~1	CSR	R	C-V	169	268	594	1.88	702	645	2.33	10.60	Ld
	ML60TB	5.68	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	165	276	643	1.50	765	700	1.85	9.29	Lc
	ML60TG	5.68	1/4	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	165	276	643	1.50	765	700	1.85	10.57	Lc
	MLY60RAa	5.98	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	210	344	761	1.74	896	825	2.15	10.49	Lc
	MLY60RAb	5.98	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	210	344	761	1.91	896	825	2.36	10.59	Lc
	ML80TB	7.57	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	225	383	875	1.61	1034	950	1.99	9.68	Ld
	ML80TG	7.57	3/8	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	225	383	875	1.61	1034	950	1.99	11.81	Ld
	MLY80RAa	8.10	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	280	461	1049	1.84	1243	1140	2.27	11.29	Ld
	MLY80RAb	8.10	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	280	461	1049	1.99	1243	1140	2.46	11.39	Ld
	ML90TB	8.85	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	280	461	1049	1.61	1243	1140	1.98	12.31	Ld
	ML90TG	8.85	3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	280	461	1049	1.61	1243	1140	1.98	11.29	Ld
	MLY90RAa	9.09	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	316	509	1125	1.73	1327	1220	2.13	11.34	Ld
	MLY90RAb	9.09	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	316	508	1129	1.89	1333	1225	2.34	11.44	Ld
	MLT12RA	10.70	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	396	632	1379	1.88	1622	1494	2.31	11.59	Ld
	MLT12RG	10.70	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	365	601	1337	1.83	1576	1450	2.26	12.24	Ld
	MPT12RA	12.10	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	437	723	1559	1.91	1823	1685	2.35	12.20	Pd
	MPT12RG	12.10	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	-	689	1489	1.87	1769	1620	2.33	12.89	Pd
	MPT14RA	14.32	1/2	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	789	1750	1.78	2068	1900	2.20	12.25	Pd
	MX16TBa	16.03	7/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	481	814	1868	1.74	2212	2030	2.15	16.33	Xd
	MX18TBa	18.40	7/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	551	932	2143	1.76	2540	2330	2.18	16.33	Xd
	MX18TGa	18.40	7/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	551	932	2143	1.76	2540	2330	2.18	16.24	Xd
	MX21TBa	20.72	1	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	620	1046	2410	1.74	2856	2620	2.15	16.52	Xd
	MX21TGa	20.72	1	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	621	1047	2409	1.74	2857	2620	2.15	17.16	Xd
	MS18T3	18.10	7/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	421	834	2124	1.89	2543	2320	2.35	20.00	Sb
	MS22T3	21.75	1	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	451	970	2560	1.98	3072	2800	2.45	20.00	Sb
	MS22TB	21.75	1	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	451	967	2550	2.02	3060	2789	2.50	20.51	Sc
	MS26T3	25.93	1 3/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	671	1289	3166	1.98	3769	3450	2.45	18.60	Sd
	MS26TB	25.93	1 3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	671	1288	3164	2.00	3767	3448	2.46	22.12	Sd
	MS26TG	25.93	1 3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	671	1289	3166	2.00	3769	3450	2.46	23.00	Sd
	MS34T3	34.42	1 5/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	1002	1850	4205	1.79	4930	4550	2.20	22.80	Sd
	MS34TB	34.42	1 5/8	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	1850	4205	1.89	4930	4550	2.30	22.21	Sd
	MS34TG	34.42	1 5/8	HBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	-	1850	4205	1.89	4930	4550	2.30	22.78	Sd

 Green Cooling Models

 New Models

(\*) Or R407B

(\*\*) Under development

R404A • R507 (\*) HMBP | HBP • 60 Hz

	MODEL	DISPLACEMENT  cm³	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		kcal/h	COP			
	ML40TG	4.05	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	155	248	553	1.39	653	600	1.70	9.12	Lc	
	ML45TG	4.56	1/5	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	176	277	614	1.42	726	667	1.74	10.57	Lc	
	MLT45RG	4.56	1/5	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	197	310	687	1.80	812	747	2.21	10.60	Ld	
	ML60TG	5.68	1/4	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	193	323	753	1.49	896	820	1.83	10.57	Lc	
	ML60TR	5.68	1/4	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	193	323	753	1.48	896	820	1.83	10.58	Lc	
	MLY60RDa	5.98	1/4	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	250	408	900	1.70	1059	975	2.10	10.55	Lc	
	MLY60RDb	5.98	1/4	HMBP	F	115V 60Hz ~1	CSR	R	C-V	250	408	900	1.83	1059	975	2.27	10.65	Lc	
	ML80TG	7.57	3/8	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	263	448	1022	1.59	1208	1110	1.96	11.81	Ld	
	MLY80RDa	8.10	3/8	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	329	541	1224	1.75	1449	1330	2.15	11.21	Ld	
	MLY80RDb	8.10	3/8	HMBP	F	115V 60Hz ~1	CSR	R	C-V	329	541	1224	1.81	1449	1330	2.22	11.31	Ld	
	ML90TG	8.85	3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	329	539	1227	1.54	1454	1334	1.89	11.29	Ld	
	MLT12RG	10.70	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	441	702	1553	1.75	1833	1685	2.16	12.24	Ld	
	MPT12RG	12.10	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	-	795	1725	1.79	2043	1874	2.22	12.89	Pd	
	MPT14RF (**)	14.32	1/2	HBP	F	208-230V 60Hz ~1	CSR	R	C-V	-	912	1979	1.58	2344	2150	1.95	12.50	Pd	
	MX18TGa	18.40	7/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	644	1090	2507	1.74	2972	2726	2.15	16.24	Xd	
	MX21TG	20.72	1	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	726	1211	2781	1.72	3299	3025	2.12	17.16	Xd	
	MS18T3	18.10	7/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	491	971	2471	1.82	2959	2700	2.25	20.00	Sb	
	MS22T3	21.75	1	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	527	1135	2995	1.94	3595	3276	2.40	20.00	Sb	
	MS26T3	25.93	1 3/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	785	1508	3705	1.84	4411	4037	2.25	18.60	Sd	
	MS26TG	25.93	1 3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	785	1508	3705	1.93	4411	4037	2.37	23.00	Sd	
	MS34T3	34.42	1 5/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	1172	2164	4916	1.71	5764	5320	2.10	22.80	Sd	
	MS34TG	34.42	1 5/8	HBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	-	1170	4385	1.63	6578	5320	2.10	22.78	Sd	

Green Cooling Models (\*) Or R407B  
 New Models (\*\*) Under development

Compressors  
R404A / R507

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

















































Measurement conversion  
R404A  
W (A) x 1.29 = kcal/h (B)  
W (C) x 1.08 = kcal/h (D)      S compressor's range can be provided with tube or valve



# 2.

## Compressors Catalogue

# R290/R600a









	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		kcal/h			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>86</b>	<b>1.30</b>	5.90	Be
	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>86</b>	<b>1.52</b>	6.00	Be
	NBC35CA (**)	3.50	1/8	LBP	S	220-240V 50Hz ~1	RSIR	R	C	47	83	<b>108</b>	<b>1.00</b>	209	<b>125</b>	<b>1.30</b>	5.90	Be
	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>125</b>	<b>1.55</b>	6.00	Be
	NBC41CA (**)	4.10	1/7	LBP	S	220-240V 50Hz ~1	RSIR	R	C	58	103	<b>134</b>	<b>1.00</b>	259	<b>155</b>	<b>1.30</b>	5.90	Be
	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>156</b>	<b>1.55</b>	6.00	Be
	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>173</b>	<b>1.30</b>	5.90	Be
	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>173</b>	<b>1.50</b>	6.00	Be
	NLY45LAa	4.56	1/6	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	62	116	<b>152</b>	<b>1.04</b>	298	<b>176</b>	<b>1.35</b>	10.25	Lc
	NLY45LAb	4.56	1/6	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	62	116	<b>152</b>	<b>1.11</b>	298	<b>176</b>	<b>1.44</b>	10.35	Lc
	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>184</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>186</b>	<b>1.64</b>	9.45	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>227</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>227</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>227</b>	<b>1.64</b>	9.10	Ub
	NUT55CAc	5.50	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	88	152	<b>196</b>	<b>1.39</b>	382	<b>227</b>	<b>1.80</b>	9.21	Ub
	NLY60LAa	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	85	152	<b>198</b>	<b>1.03</b>	389	<b>230</b>	<b>1.33</b>	9.67	Lc
	NLY60LAb	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	85	152	<b>198</b>	<b>1.10</b>	389	<b>230</b>	<b>1.42</b>	9.77	Lc
	NUY60LAa	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	92	165	<b>215</b>	<b>1.21</b>	420	<b>250</b>	<b>1.56</b>	9.67	Lc
	NUY60LAb	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	97	160	<b>220</b>	<b>1.27</b>	425	<b>255</b>	<b>1.64</b>	9.77	Lc
	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>261</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>261</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>261</b>	<b>1.68</b>	9.20	Ub
	NUT60CAc	6.00	1/4	LBP	S	220-240V 50Hz ~1	RSCR	P	C	101	175	<b>226</b>	<b>1.41</b>	431	<b>261</b>	<b>1.82</b>	9.31	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>288</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>288</b>	<b>1.80</b>	9.41	Ub
	NLY75LAa	7.36	1/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	109	199	<b>255</b>	<b>1.07</b>	467	<b>293</b>	<b>1.38</b>	10.24	Ld
	NLY75LAb	7.36	1/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	110	196	<b>254</b>	<b>1.17</b>	490	<b>294</b>	<b>1.52</b>	10.34	Ld
	NLY75NGa	7.36	1/4	LMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	91	149	<b>200</b>	<b>1.01</b>	443	<b>235</b>	<b>1.30</b>	10.41	Ld
	NLY75NGb	7.36	1/4	LMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	91	174	<b>231</b>	<b>1.09</b>	464	<b>269</b>	<b>1.33</b>	10.51	Ld
	NLY80LAa	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	113	201	<b>264</b>	<b>1.04</b>	525	<b>306</b>	<b>1.35</b>	10.27	Ld
	NLY80LAb	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	113	201	<b>264</b>	<b>1.10</b>	525	<b>306</b>	<b>1.43</b>	10.37	Ld
	NUY80LAa(**)	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	122	217	<b>285</b>	<b>1.15</b>	566	<b>330</b>	<b>1.50</b>	10.28	Uc
	NLY90LAa	9.09	1/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	130	236	<b>307</b>	<b>1.06</b>	591	<b>355</b>	<b>1.37</b>	10.32	Ld
	NLY90LAb	9.09	1/3	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	130	236	<b>307</b>	<b>1.11</b>	591	<b>355</b>	<b>1.44</b>	10.42	Ld
	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>355</b>	<b>1.37</b>	10.32	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>355</b>	<b>1.44</b>	10.42	Ld
	NUY90LAa	8.90	1/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	157	267	<b>338</b>	<b>1.21</b>	614	<b>388</b>	<b>1.55</b>	10.32	Uc
	NUY90LAb	8.90	1/3	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	158	270	<b>342</b>	<b>1.28</b>	625	<b>393</b>	<b>1.64</b>	10.32	Uc
	NUY90CAa	8.90	1/3	LBP	F	220-240V 50Hz ~1	RSIR	P	C-V	157	267	<b>338</b>	<b>1.21</b>	614	<b>388</b>	<b>1.55</b>	10.32	Uc
	NUY90CAb	8.90	1/3	LBP	F	220-240V 50Hz ~1	RSCR	P	C-V	158	270	<b>342</b>	<b>1.28</b>	625	<b>393</b>	<b>1.64</b>	10.32	Uc
	NLY12LAa	10.7	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	163	283	<b>364</b>	<b>0.96</b>	689	<b>420</b>	<b>1.24</b>	11.21	Ld
	NLY12LAb	10.7	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	163	283	<b>364</b>	<b>1.01</b>	689	<b>420</b>	<b>1.31</b>	11.31	Ld
	NLY12NGa	10.7	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>429</b>	<b>1.28</b>	11.04	Ld
	NLY12NGb	10.7	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>429</b>	<b>1.31</b>	11.14	Ld
	NPY12LAa	12.1	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	174	309	<b>402</b>	<b>1.05</b>	783	<b>465</b>	<b>1.35</b>	12.13	Pd
	NPY12LAb	12.1	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	174	309	<b>402</b>	<b>1.15</b>	783	<b>465</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>560</b>	<b>1.35</b>	12.17	Pd

This table continues in the following page


































R290 LBP | LMBP • 50 Hz

Natural Refrigerant

	MODEL	DISPLACEMENT  cm³	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		kcal/h	COP		
	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>560</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>650</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>705</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>705</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>780</b>	<b>1.44</b>	16.99	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>862</b>	<b>1.41</b>	16.75	Xd
	NS26FB <sup>(**)</sup>	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>885</b>	<b>1.35</b>	22.60	Sd
	NS34FB <sup>(**)</sup>	34.42	1	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	257	750	<b>990</b>	<b>1.04</b>	1873	<b>1145</b>	<b>1.35</b>	23.00	Sd



























R290 LBP | LMBP • 60 Hz

Natural Refrigerant

	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			
										-40	-30	-25		-10	-23.3				
												W	COP		kcal/h	COP			
cm³	hp														Kg				
	NBC30NR (**)	3.10	1/10	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	46	88	117	1.07	241	137	1.39	5.80	Bd	
	NLY45LRa	4.56	1/6	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	70	133	177	1.00	364	207	1.30	9.21	Lc	
	NLY45LRb	4.56	1/6	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	68	149	184	1.07	263	207	1.38	9.31	Lc	
	NUY45LRa (**)	4.50	1/6	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	73	159	196	1.13	280	220	1.46	8.00	Ub	
	NUT55LRa	5.50	1/5	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	110	189	243	1.24	460	280	1.60	9.47	Ub	
	NUT55LRb	5.50	1/5	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	110	193	247	1.34	463	285	1.73	9.54	Ub	
	NUT55LRc	5.50	1/5	LBP	S	115-127V 60Hz ~1	CSIR	R	C-V	110	189	243	1.24	460	280	1.60	9.47	Ub	
	NUT55LRd	5.50	1/5	LBP	S	115-127V 60Hz ~1	CSR	R	C-V	110	193	247	1.34	463	285	1.73	9.54	Ub	
	NLY60LRa	5.98	1/5	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	106	200	260	1.10	492	300	1.42	10.07	Lc	
	NLY60LRb	5.98	1/5	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	106	200	260	1.18	492	300	1.53	10.17	Lc	
	NUT60LRa	6.00	1/3	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	122	207	266	1.24	508	307	1.60	9.40	Ub	
	NUT60LRb	6.00	1/3	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	122	213	273	1.34	513	315	1.73	9.50	Ub	
	NUT60LRc	6.00	1/3	LBP	S	115-127V 60Hz ~1	CSIR	R	C-V	122	207	266	1.24	508	307	1.60	9.40	Ub	
	NUT60LRd	6.00	1/3	LBP	S	115-127V 60Hz ~1	CSR	R	C-V	122	213	273	1.34	513	315	1.73	9.50	Ub	
	NLY75NGa	7.36	1/4	LMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	111	204	270	1.03	544	314	1.34	10.40	Ld	
	NLY75NGb	7.36	1/4	LMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	111	205	271	1.11	551	316	1.45	10.50	Ld	
	NLY75NRa	7.36	1/4	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	129	230	295	1.05	546	340	1.32	10.34	Ld	
	NLY75NRb	7.36	1/4	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	137	240	308	1.13	601	355	1.46	10.27	Ld	
	NLY80LRa	8.10	1/4	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	139	246	322	1.06	636	373	1.37	9.57	Lc	
	NLY80LRb	8.10	1/4	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	139	246	322	1.13	636	373	1.46	9.67	Lc	
	NLY90NRa	9.09	1/3	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	153	275	359	1.05	704	417	1.36	11.20	Ld	
	NLY90NRb	9.09	1/3	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	153	275	359	1.12	704	417	1.44	11.20	Ld	
	NLY12NRa (**)	12.10	1/8	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	185	328	430	1.12	843	500	1.45	11.65	Ld	
	NLY12NRb (**)	12.10	1/8	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	193	342	448	1.20	843	520	1.51	11.65	Ld	
	NLY12NGa	12.10	1/8	LMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	197	339	439	1.09	848	507	1.41	11.00	Ld	
	NLY12NGb	12.10	1/8	LMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	207	342	439	1.15	850	507	1.49	11.10	Ld	
	NPY12LRa	12.10	3/8	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	199	362	473	1.04	927	548	1.35	11.77	Pd	
	NPY12LRb	12.10	3/8	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	199	362	473	1.11	927	548	1.44	11.87	Pd	
	NPY14LFa	14.32	1/2	LBP	F	208-230V 60Hz ~1	CSIR	R	C-V	269	466	603	1.04	1175	698	1.34	12.19	Pd	
	NPY14LFb	14.32	1/2	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	269	466	603	1.09	1175	698	1.42	12.29	Pd	
	NPT16LR (**)	16.15	3/4	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	276	478	618	1.08	1204	715	1.41	12.70	Pd	










## R290 HMBP | HBP • 50 Hz

## Natural Refrigerant

	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			
										-25	-15	5		10	7.2			
												W	COP		kcal/h	COP		
cm³	hp														Kg			
	NBC22RA (**)	2.20	1/12	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	64	101	224	2.24	265	230	2.30	6.00	Bc
	NBC30RA	3.10	1/10	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	100	157	354	2.21	421	364	2.61	6.00	Bd
	NLY45RAa	4.56	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	148	237	518	2.13	609	530	2.51	10.42	Lc
	NLY45RAb	4.56	1/5	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	148	237	518	2.34	609	530	2.75	10.52	Lc
	NUY45RAa	4.56	1/5	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	142	231	516	2.36	610	529	2.77	9.30	Lc
	NUY55RAa (**)	5.50	1/5	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	189	304	665	2.40	781	680	2.82	9.87	Lc
	NLY60RAa	5.98	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	211	325	703	2.20	829	720	2.58	10.99	Lc
	NLY60RAb	5.98	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	211	325	703	2.38	829	720	2.79	11.14	Lc
	NUY60RAa (**)	5.98	1/4	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	217	334	723	2.33	860	740	2.75	9.75	Lc
	NUY70RAa	6.70	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	248	382	817	2.34	961	836	2.75	9.60	Ub
	NUY70RAb	6.70	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	248	382	817	2.47	961	836	2.90	9.70	Ub
	NLY75RAa	7.36	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	243	390	862	2.25	1017	883	2.64	10.49	Ld
	NLY75RAb	7.36	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	243	390	862	2.42	1017	883	2.84	10.59	Ld
	NLY80RAa	8.10	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	258	411	930	2.21	1104	955	2.60	10.54	Ld
	NLY80RAb	8.10	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	258	411	930	2.38	1104	955	2.80	10.64	Ld
	NLY90RAa	9.09	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	306	480	1054	2.18	1245	1080	2.56	11.19	Ld
	NLY90RAb	9.09	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	306	480	1054	2.36	1245	1080	2.78	11.29	Ld
	NLY12RAa	10.7	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	379	584	1224	2.06	1432	1249	2.41	11.44	Ld
	NLY12RAb	10.7	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	379	597	1249	2.28	1457	1273	2.66	11.54	Ld
	NLY12RGa	10.7	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	341	553	1217	2.03	1432	1245	2.39	12.1	Ld
	NLY12RGB	10.7	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	355	554	1226	2.20	1450	1257	2.58	12.2	Ld
	NPY12RAa	12.10	1/2	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	635	1460	2.08	1735	1500	2.45	12.16	Pd
	NPY12RAb	12.10	1/2	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	635	1460	2.28	1735	1500	2.70	12.26	Pd
	NPT14RA	14.32	1/2	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	763	1709	2.26	2085	1776	2.69	12.25	Pd
	NPT16RA	16.10	2/3	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	853	1911	2.18	2331	1986	2.55	12.30	Pd
	NX18TBa	18.40	3/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	511	852	2039	2.22	2440	2102	2.61	16.14	Xd
	NX21TBa	20.72	7/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	601	973	2267	2.18	2705	2334	2.55	16.09	Xd

## R290 HMBP | HBP • 60 Hz

## Natural Refrigerant

	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			
										-25	-15	5		10	7.2			
												W	COP		kcal/h	COP		
cm³	hp														Kg			
	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>633</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>633</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>845</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>845</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>1038</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>1062</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>1125</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>1125</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>1269</b>	<b>2.35</b>	10.55	Ld

 Green Cooling Models





(\*\*) Under development

This table continues in the following page

 New Models































R290 HMBP | HBP • 60 Hz

Natural Refrigerant


	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				
										-25	-15	5		10	7.2				
												W	COP		kcal/h	COP			
cm³	hp														Kg				
	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>1269</b>	<b>2.56</b>	10.65	Ld	
	NLY12RGa	10.70	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	418	669	<b>1445</b>	<b>2.07</b>	1696	<b>1477</b>	<b>2.41</b>	12.1	Ld	
	NLY12RGb	10.70	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	429	679	<b>1469</b>	<b>2.25</b>	1727	<b>1502</b>	<b>2.63</b>	12.2	Ld	
	NLT12RR (**)	10.70	1/8	HBP	F	115-127V 60Hz ~1	CSR	R	C-V	428	683	<b>1504</b>	<b>2.12</b>	1775	<b>1540</b>	<b>2.45</b>	11.20	Ld	

R600a LBP • 50 Hz

Natural Refrigerant

	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				
										-25		-10	-23.3					
										-35	-30		W	COP	kcal/h			COP
		cm³	hp													Kg		
	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>26</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>41</b>	<b>0.98</b>	3.80	SLc
	B35C	3.50	1/15	LBP	S	220-240V 50Hz ~1	RSIR	P	C	22	55	<b>41</b>	<b>0.82</b>	86	<b>47</b>	<b>1.05</b>	4.50	Bb
	B35C	3.50	1/15	LBP	S	220-240V 50Hz ~1	RSCR	P	C	22	57	<b>42</b>	<b>1.06</b>	88	<b>48</b>	<b>1.35</b>	5.10	Bc
	B43CB	4.30	1/12	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	27	69	<b>51</b>	<b>0.90</b>	107	<b>59</b>	<b>1.15</b>	4.60	Bc
	B43CB	4.30	1/12	LBP	S	220-240V 50Hz ~1	RSCR	P	C	27	69	<b>51</b>	<b>1.02</b>	107	<b>59</b>	<b>1.30</b>	4.60	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>59</b>	<b>1.18</b>	4.60	Bb
	B52CL	5.20	1/10	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	31	78	<b>58</b>	<b>0.90</b>	121	<b>67</b>	<b>1.15</b>	4.60	Bc
	B52CL	5.20	1/10	LBP	S	220-240V 50Hz ~1	RSIR	P	C	31	78	<b>58</b>	<b>1.10</b>	121	<b>67</b>	<b>1.40</b>	5.20	Bd
	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>67</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>82</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>82</b>	<b>1.40</b>	5.00	Bd
	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>90</b>	<b>1.10</b>	5.00	Bc
	B65CL	6.50	1/8	LBP	S	220-240V 50Hz ~1	RSCR	P	C	42	105	<b>78</b>	<b>1.10</b>	163	<b>90</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>113</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>113</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>125</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>127</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>136</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>137</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>165</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>165</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>165</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>165</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>190</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>190</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>180</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>180</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>208</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>208</b>	<b>1.51</b>	10.75	Pc

 Green Cooling Models


















 New Models

(\*\*) Under development

Compressors  
R290 / R600a

# R600a LBP • 60 Hz

















# Natural Refrigerant

	MODEL	DISPLACEMENT cm³	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			
												W	COP		kcal/h	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>34</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>0.86</b>	86	<b>47</b>	<b>1.10</b>	3.60	SLc
	B35C	3.50	1/12	LBP	S	220V 60Hz ~1	RSIR	P	C	24	33	<b>45</b>	<b>0.93</b>	94	<b>52</b>	<b>1.18</b>	4.60	Bc
	B35C5B	3.50	1/12	LBP	S	110-115 60Hz ~1	RSIR	P	C	26	36	<b>49</b>	<b>0.94</b>	403	<b>56</b>	<b>1.20</b>	4.60	Bb
	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>56</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>60</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>67</b>	<b>1.35</b>	4.60	Bc
	B43C0	4.30	1/10	LBP	S	100V 50/60Hz ~1	RSIR	P	C	31	43	<b>58</b>	<b>0.93</b>	121	<b>67</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>67</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>82</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>82</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>95</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>94</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>193</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>193</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>215</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>215</b>	<b>1.41</b>	10.86	Pd

 Green Cooling Models

 New Models

R600a HMBP | HBP • 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				
										-25	-15	5		10	7.2				
												W	COP		kcal/h	COP			
cm³	hp														Kg				
	HLY55MAa	5.46	1/10	HMBP	S	220-240V 50Hz ~1	RSIR	P	C	48	96	250	2.18	300	255	2.51	9.80	Lb	
	HLY55MAb	5.46	1/10	HMBP	S	220-240V 50Hz ~1	RSCR	P	C	48	96	250	2.31	300	255	2.67	9.91	Lb	
	HUY55MAa	5.50	1/10	HMBP	S	220-240V 50Hz ~1	RSIR	P	C	64	110	272	2.47	327	278	2.86	8.95	Ub	
	HUY55MAb	5.50	1/10	HMBP	S	220-240V 50Hz ~1	RSCR	P	C	64	110	272	2.58	327	278	2.99	9.05	Ub	
	HLY70MAa	6.65	1/8	HMBP	S	220-240V 50Hz ~1	RSIR	P	C	66	121	307	2.17	370	314	2.50	8.80	Lb	
	HLY70MAb	6.65	1/8	HMBP	S	220-240V 50Hz ~1	RSCR	P	C	66	121	307	2.33	370	314	2.69	8.91	Lb	
	HUY70MAa	6.70	1/8	HMBP	S	220-240V 50Hz ~1	RSIR	P	C	80	137	338	2.47	406	345	2.87	8.90	Ub	
	HUY70MAb	6.70	1/8	HMBP	S	220-240V 50Hz ~1	RSCR	P	C	80	137	338	2.59	406	345	2.99	9.01	Ub	
	HLY99RAa	9.95	1/6	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	103	178	458	2.03	555	470	2.35	9.31	Lc	
	HLY99RAb	9.95	1/6	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	103	178	458	2.21	555	470	2.57	9.41	Lc	
	HPY12RAa	12.10	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	135	236	583	2.15	700	595	2.50	10.5	Pc	
	HPY12RAb	12.10	1/5	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	135	236	583	2.32	700	595	2.70	10.6	Pc	
	HPY14RAa	14.32	1/5	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	281	668	2.08	797	680	2.40	9.74	Pc	
	HPY14RAb	14.32	1/5	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	281	668	2.26	797	680	2.61	9.84	Pc	
	HPY16RAa	16.15	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	179	310	755	2.12	904	770	2.45	10.99	Pd	
	HPY16RAb	16.15	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	179	310	755	2.29	904	770	2.64	11.09	Pd	

 Green Cooling Models

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

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

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








# 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	COP		kcal/h	COP		
	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>560</b>	<b>2.92</b>	11.20	Lc
								2100	135	242	<b>630</b>	<b>2.60</b>	764	<b>651</b>	<b>2.98</b>		
								2400	153	275	<b>712</b>	<b>2.54</b>	860	<b>734</b>	<b>2.92</b>		
								3000	188	340	<b>868</b>	<b>2.42</b>	1046	<b>894</b>	<b>2.77</b>		
								3600	222	391	<b>1030</b>	<b>2.30</b>	1253	<b>1065</b>	<b>2.62</b>		

R134a (\*) HMBP • DC

Mobile 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	COP		kcal/h	COP		
GLT80TDC 24-42V	8.10	HMBP	F	24-42V DC	ECM	C	1500	78	139	362	1.93	421	369	2.19	8.40	Lc (**)	
							2000	107	190	487	2.06	565	497	2.34			
							2500	135	238	601	1.99	710	613	2.26			
							3000	161	281	711	1.91	840	725	2.17			
							3500	185	320	818	1.82	962	834	2.07			


 Green Cooling Models

(\*) Or HF01234yf

(\*\*) Model under development


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	COP		kcal/h	(W/W)		
 NLT60FSN (**)	5.98	HMBP	F	220-240V 50/60Hz ~1	ECM	C	1800	101	180	476	2.76	578	466	3.08	10.80	Lc	
							2100	119	214	557	2.79	675	545	3.12			
							2400	136	244	632	2.75	764	619	3.07			
							3000	171	308	787	2.63	948	770	2.94			
							3600	203	358	940	2.55	1144	920	2.85			

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	COP		kcal/h	(W/W)		
	NPT12FSC	12.10	LBP	F	220-240V 50/60Hz ~1	ECM	C	1800	115	196	257	1.18	521	300	1.52	12.10	Pc
								2100	134	233	305	1.28	601	352	1.65		
								2400	152	268	349	1.26	680	405	1.63		
								3000	178	326	419	1.25	-	485	1.60		
								3600	216	393	506	1.22	-	585	1.57		

 Green Cooling Models      (\*\*) Model under development. Provisional performances/data.

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

Measurement conversion  
R134a  
W (A) x 1.15 = kcal/h (B)  
W (C) x 1.02 = kcal/h (D)  
R290  
W (A) x 1.17 = kcal/h (B)  
W (C) x 1.03 = kcal/h (D)

## Variable Speed Compressors

Technical drawing of the 162 Apr. unit, showing front and side views with dimensions in millimeters.

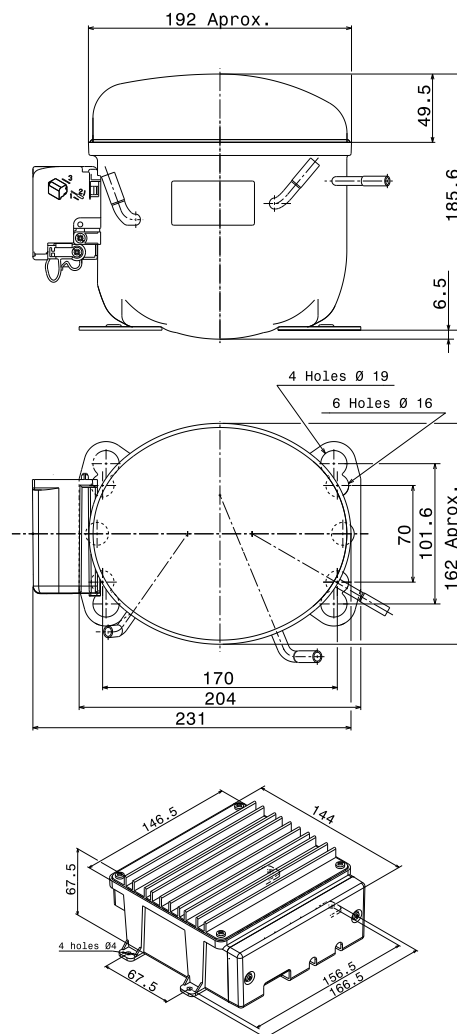
**Front View Dimensions:**

- Overall width: 248
- Overall height: 162
- Control panel height: 127
- Control panel width: 5
- Distance from bottom to control panel: 105.5
- Distance from bottom to control panel (with tolerance):  $68 \pm 2.5$
- Control panel width (with tolerance):  $65.5$

**Side View Dimensions:**

- Overall width: 208
- Overall height: 162
- Control panel height: 127
- Control panel width: 5
- Distance from bottom to control panel: 105.5
- Distance from bottom to control panel (with tolerance):  $68 \pm 2.5$
- Control panel width (with tolerance):  $65.5$

## GLT99FSN and NLT60FSN





























# 3.

## Condensing Units Catalogue














**R134a/R404A/  
R290**

## R134a (\*) HMBP | HBP • 50 Hz




	MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	MAX. AMBIENCE TEMP. T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY								VERSION "3"					
									W Wx 0.86 = kcal/h    W x 3.412 = BTU/h Evaporating Temperature °C								DIMENSIONS W x L x H mm	TUBES		WEIGHT Kg	DESIGN	
									-25	-15	-5	5	7.2			10		SUCTION Inch	COMPRESSION Inch			
													W	W inp	A							
	CGL45PB_N	4.50	1/6	43	T	HMBP	220-240V 50Hz ~1	RSIR	C	108	183	286	416	<b>448</b>	<b>238</b>	<b>1.00</b>	491	320x425x220	3/8	1/4	14.5	3B
	CGL45TB_N	4.50	1/6	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	108	183	286	416	<b>448</b>	<b>238</b>	<b>1.00</b>	491	320x425x220	3/8	1/4	14.5	3B
	CGL45TG_N	4.50	1/6	43	T	HMBP	200-240/220-230V 50/60Hz ~1	CSIR	C-V	109	180	279	407	<b>439</b>	<b>219</b>	<b>1.00</b>	482	320x425x220	3/8	1/4	14.5	3B
	CGLY45RAa_N	4.56	1/6	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	140	208	312	452	<b>490</b>	<b>235</b>	<b>1.00</b>	535	320x425x235	3/8	1/4	16.0	3B
	CGLY45Rab_N	4.56	1/6	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	140	208	312	452	<b>490</b>	<b>211</b>	<b>0.85</b>	535	320x425x235	3/8	1/4	16.0	3B
	CGL60PB_N	5.68	1/5	43	T	HMBP	220-240V 50Hz ~1	RSIR	C	130	232	361	520	<b>558</b>	<b>271</b>	<b>1.00</b>	609	320x425x235	3/8	1/4	17.0	3B
	CGL60TB_N	5.68	1/5	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	130	232	361	520	<b>558</b>	<b>271</b>	<b>1.00</b>	609	320x425x235	3/8	1/4	17.0	3B
	CGL60TG_N	5.68	1/5	43	T	HMBP	200-240/220-230V 50/60Hz ~1	CSIR	C-V	136	227	366	551	<b>599</b>	<b>271</b>	<b>1.00</b>	662	320x425x235	3/8	1/4	17.0	3B
	CGLY60RAa_N	5.98	1/5	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	137	251	396	573	<b>616</b>	<b>264</b>	<b>1.00</b>	673	340x425x235	3/8	1/4	17.0	3B
	CGLY60Rab_N	5.98	1/5	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	137	251	396	573	<b>616</b>	<b>242</b>	<b>0.87</b>	673	340x425x235	3/8	1/4	17.0	3A
	CGL80PB_N	7.57	1/5	43	T	HMBP	220-240V 50Hz ~1	RSIR	C	166	285	441	636	<b>684</b>	<b>343</b>	<b>2.02</b>	747	340x425x235	3/8	1/4	17.0	3B
	CGL80TB_N	7.57	1/5	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	166	285	441	636	<b>684</b>	<b>343</b>	<b>2.02</b>	747	340x425x235	3/8	1/4	17.0	3B
	CGL80TG_N	7.57	1/5	43	T	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	178	300	473	699	<b>755</b>	<b>333</b>	<b>2.02</b>	831	340x425x235	3/8	1/4	17.0	3B
	CGLY80RAa_N	8.10	1/5	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	219	351	543	795	<b>858</b>	<b>349</b>	<b>2.02</b>	943	340x425x235	3/8	1/4	18.5	3B
	CGLY80Rab_N	8.10	1/5	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	219	351	543	795	<b>858</b>	<b>324</b>	<b>1.20</b>	943	320x425x235	3/8	1/4	18.5	3A
	CGL90PB_N	8.85	1/4	43	T	HMBP	220-240V 50Hz ~1	RSIR	C	203	341	533	780	<b>842</b>	<b>386</b>	<b>2.02</b>	924	340x425x235	3/8	1/4	18.5	3B
	CGL90TB_N	8.85	1/4	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	203	341	533	780	<b>842</b>	<b>386</b>	<b>2.02</b>	924	340x425x235	3/8	1/4	18.5	3B
	CGL90TG_N	8.85	1/4	43	T	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	193	335	529	775	<b>836</b>	<b>382</b>	<b>1.99</b>	917	340x425x235	3/8	1/4	18.5	3B
	CGLY90RAa_N	9.09	1/4	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	215	360	564	827	<b>893</b>	<b>437</b>	<b>2.30</b>	981	350x425x270	3/8	1/4	19.5	3B
	CGLY90Rab_N	9.09	1/4	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	215	360	564	827	<b>893</b>	<b>397</b>	<b>2.01</b>	981	350x425x270	3/8	1/4	19.5	3A
	CGLY12RAa_N	10.70	3/8	43	T	HBP	220-240V 50Hz ~1	CSIR	C-V	-	422	662	971	<b>1048</b>	<b>527</b>	<b>2.43</b>	1151	350x425x270	3/8	1/4	20.5	3B
	CGLY12Rab_N	10.70	3/8	43	T	HBP	220-240V 50Hz ~1	CSR	C-V	-	422	662	971	<b>1048</b>	<b>472</b>	<b>2.71</b>	1151	350x425x270	3/8	1/4	20.5	3B
	CGLY12RGa_N	10.70	3/8	43	T	HBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	-	422	662	971	<b>1048</b>	<b>568</b>	<b>2.30</b>	1151	350x425x270	3/8	1/4	20.5	3B
	CGLY12RGb_N	10.70	3/8	43	T	HBP	200-220/220-230V 50/60Hz ~1	CSR	C-V	-	422	662	971	<b>1048</b>	<b>526</b>	<b>2.33</b>	1151	350x425x270	3/8	3/8	20.5	3B
	CGPY12RAa_N	12.10	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	314	504	768	1104	<b>1188</b>	<b>571</b>	<b>3.02</b>	1300	350x425x270	3/8	3/8	21.5	3B
	CGPY12Rab_N	12.10	3/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	314	504	768	1104	<b>1188</b>	<b>523</b>	<b>2.07</b>	1300	350x425x270	3/8	3/8	21.5	3A
	CGP14TB_N	14.17	3/8	43	T	HBP	220-240V 50Hz ~1	CSIR	C-V	-	498	778	1130	<b>1217</b>	<b>668</b>	<b>4.01</b>	1334	350x425x270	3/8	1/4	21.5	3B
	CGP14TG_M	14.17	3/8	38	-	HBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	-	534	820	1184	<b>1275</b>	<b>630</b>	<b>2.99</b>	1395	350x425x270	3/8	1/4	21.5	3B
	CGPY14RAa_N	14.32	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	442	618	867	1190	<b>1270</b>	<b>623</b>	<b>3.56</b>	1378	365x510x300	3/8	3/8	23.5	2D
	CGPY14Rab_N	14.32	3/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	442	618	867	1190	<b>1270</b>	<b>579</b>	<b>3.02</b>	1378	365x510x300	3/8	3/8	23.5	2E
	CGPY16RAa_N	16.15	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	390	644	964	1350	<b>1444</b>	<b>659</b>	<b>3.95</b>	1568	365x510x300	3/8	3/8	23.5	2D
	CGPY16Rab_N	16.15	3/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	390	644	964	1350	<b>1444</b>	<b>609</b>	<b>2.99</b>	1568	365x510x300	3/8	3/8	23.5	2D
	CGPT16RG_N	16.15	1/2	43	T	HBP	200-220/220-230V 50/60Hz ~1	CSR	C-V	-	673	981	1397	<b>1503</b>	<b>690</b>	<b>3.42</b>	1644	365x510x300	3/8	3/8	23.5	2D
	CGPT18RA_N	18.00	1/2	43	T	HBP	220-240V 50Hz ~1	CSR	C-V	-	731	1066	1518	<b>1633</b>	<b>753</b>	<b>4.03</b>	1786	450x480x315	3/8	3/8	29.0	1E
	CGX18TB_N	18.40	1/2	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	383	674	1050	1510	<b>1622</b>	<b>832</b>	<b>5.01</b>	1771	365x510x300	3/8	3/8	28.5	2C
	CGX18TG_N	18.40	1/2	43	T	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	398	699	1079	1538	<b>1650</b>	<b>758</b>	<b>5.01</b>	1797	365x510x300	3/8	3/8	28.5	2C
	CGX21TB_N	20.72	5/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	450	759	1178	1707	<b>1838</b>	<b>926</b>	<b>5.02</b>	2012	450x480x315	3/8	3/8	33.0	1E
	CGX23TB_N	23.20	5/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	492	906	1360	1853	<b>1967</b>	<b>1027</b>	<b>6.04</b>	2115	450x480x315	3/8	3/8	33.0	1E
	CGS26TB_N	25.93	3/4	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	524	989	1542	2182	<b>2335</b>	<b>1125</b>	<b>6.01</b>	2535	425x510x350	5/8	3/8	36.0	1B
	CGS26TG_M	25.93	3/4	38	-	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	565	1012	1597	2320	<b>2498</b>	<b>1075</b>	<b>7.04</b>	2734	425x530x350	5/8	3/8	36.0	1B
	CGS30TB_N	29.95	7/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	609	1134	1811	2640	<b>2843</b>	<b>1174</b>	<b>6.03</b>	3112	425x530x350	5/8	3/8	39.0	1B
	CGS34TB_N	34.42	1	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	686	1283	1992	2813	<b>3009</b>	<b>1358</b>	<b>6.03</b>	3266	425x530x350	5/8	3/8	39.0	1B
	CGS34TB_N 2F	34.42	1	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	774	1071	1818	3017	<b>3341</b>	<b>1362</b>	<b>6.03</b>	3785	480x650x335	5/8	3/8	41.5	6A


 Green Cooling Models (\*) Or HF01234yf  
 New Models

R134a (\*) HMBP | HBP • 60 Hz

	MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	MAX. AMBIENCE TEMP. T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY										VERSION "3"				
									W Wx 0.86 = kcal/h    W x 3.412 = BTU/h Evaporating Temperature °C										DIMENSIONS W x L x H mm	TUBES		DESIGN	
									-25	-15	-5	5	7.2			10	SUCTION Inch	COMPRESSION Inch		WEIGHT Kg			
													W	W in p	A								
	CGL45TE_N	4.50	1/6	43	T	HMBP	115V 60Hz ~1	CSIR	C-V	135	223	345	501	540	289	3.02	591	320x425x220	3/8	1/4	14.5	3B	
	CGL45TG_N	4.50	1/6	43	T	HMBP	200-240/220-230V 50/60Hz ~1	CSIR	C-V	119	207	324	471	507	268	1.00	555	320x425x220	3/8	1/4	14.5	3B	
	CGL60TE_N	5.68	1/5	43	T	HMBP	115V 60Hz ~1	CSIR	C-V	157	278	431	616	661	315	2.99	721	320x425x235	3/8	1/4	17.0	3B	
	CGL60TG_N	5.68	1/5	43	T	HMBP	200-240/220-230V 50/60Hz ~1	CSIR	C-V	156	270	427	626	676	341	1.00	742	320x425x235	3/8	1/4	17.0	3B	
	CGL80PE_N	7.57	1/5	43	T	HMBP	115V 60Hz ~1	RSIR	C	213	358	561	822	887	412	4.02	974	340x425x235	3/8	1/4	17.0	3B	
	CGL80TE_N	7.57	1/5	43	T	HMBP	115V 60Hz ~1	CSIR	C-V	213	358	561	822	887	412	4.02	974	340x425x235	3/8	1/4	17.0	3B	
	CGL80TG_N	7.57	1/5	43	T	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	208	355	559	819	884	415	2.02	970	340x425x235	3/8	1/4	17.0	3B	
	CGLY80RDa_N	8.10	1/5	43	T	HMBP	115V 60Hz ~1	CSIR	C-V	229	309	615	901	972	433	4.49	1067	340x425x235	3/8	1/4	18.5	3B	
	CGLY80RDb_N	8.10	1/5	43	T	HMBP	115V 60Hz ~1	CSR	C-V	229	309	615	901	972	402	3.68	1067	340x425x235	3/8	1/4	18.5	3B	
	CGL90TE_N	8.85	1/4	43	T	HMBP	115V 60Hz ~1	CSIR	C-V	226	400	624	899	967	489	5.01	1056	340x425x235	3/8	1/4	18.5	3B	
	CGL90TG_N	8.85	1/4	43	T	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	231	401	623	896	963	472	1.99	1052	340x425x235	3/8	1/4	18.5	3B	
	CGLY90RDa_N	9.09	1/4	43	T	HMBP	115V 60Hz ~1	CSIR	C-V	262	455	707	1017	1093	505	5.23	1194	350x425x270	3/8	1/4	19.5	3B	
	CGLY90RDb_N	9.09	1/4	43	T	HMBP	115V 60Hz ~1	CSR	C-V	262	455	707	1017	1093	469	4.35	1194	350x425x270	3/8	1/4	19.5	3B	
	CGLY12RGa_N	10.70	3/8	43	T	HBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	-	525	816	1173	1261	592	3.16	1378	350x425x270	3/8	1/4	20.5	3B	
	CGLY12RGb_N	10.70	3/8	43	T	HBP	200-220/220-230V 50/60Hz ~1	CSR	C-V	-	525	816	1173	1261	548	2.49	1378	350x425x270	3/8	3/8	20.5	3B	
	CGP12TE_N	12.05	3/8	43	T	HMBP	115V 60Hz ~1	CSIR	C-V	326	547	843	1213	1304	703	7.01	1425	350x425x270	3/8	1/4	20.0	3B	
	CGPY12RDa_N	12.10	3/8	43	T	HMBP	115V 60Hz ~1	CSIR	C-V	358	601	926	1333	1433	663	6.85	1566	350x425x270	3/8	1/4	22.5	3B	
	CGPY12RDb_N	12.10	3/8	43	T	HMBP	115V 60Hz ~1	CSR	C-V	358	601	926	1333	1433	611	5.82	1566	350x425x270	3/8	1/4	22.5	3B	
	CGP14TE_M	14.17	3/8	38	-	HMBP	115V 60Hz ~1	CSIR	C-V	367	616	934	1320	1415	779	8.03	1539	350x425x270	3/8	1/4	21.5	3B	
	CGP14TG_M	14.17	3/8	38	-	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	374	620	947	1355	1456	763	4.01	1590	350x425x270	3/8	1/4	21.5	3B	
	CGPY14RDa_N	14.32	1/2	43	T	HMBP	115V 60Hz ~1	CSIR	C-V	458	759	1159	1658	1782	836	7.90	1946	365x510x300	3/8	3/8	23.5	2D	
	CGPY14RDb_N	14.32	1/2	43	T	HMBP	115V 60Hz ~1	CSR	C-V	458	759	1159	1658	1782	784	7.16	1946	365x510x300	3/8	3/8	23.5	2D	
	CGPY16RDa_N	16.15	1/2	43	T	HBP	115V 60Hz ~1	CSIR	C-V	-	807	1232	1763	1895	901	8.15	2069	365x510x300	3/8	3/8	23.5	2D	
	CGPY16RDb_N	16.15	1/2	43	T	HBP	115V 60Hz ~1	CSR	C-V	-	807	1232	1763	1895	853	7.90	2069	365x510x300	3/8	3/8	23.5	2D	
	CGPT16RG_N	16.15	1/2	43	T	HBP	200-220/220-230V 50/60Hz ~1	CSR	C-V	-	848	1204	1667	1783	790	3.42	1935	365x510x300	3/8	3/8	23.5	2D	
	CGX18TG_N	18.40	1/2	43	T	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	506	881	1324	1835	1957	868	5.01	2116	365x510x300	3/8	3/8	28.5	2C	
	CGS26TG_M	25.93	3/4	38	-	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	652	1177	1838	2635	2828	1368	7.04	3084	425x530x350	5/8	3/8	36.0	1B	










R404A HMBP | HBP • 50 Hz

	MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	MAX. AMBIENCE TEMP. T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY								VERSION "3"					
									W Wx 0.86 = kcal/h    W x 3.412 = BTU/h Evaporating Temperature °C								DIMENSIONS W x L x H mm	TUBES		DESIGN		
									-25	-15	-5	5	7.2			10		SUCTION Inch	COMPRESSION Inch		WEIGHT Kg	
													W	W in p	A							
	CML40TB_N	4.06	1/6	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	199	300	428	583	<b>621</b>	<b>349</b>	<b>2.02</b>	671	320x425x235	3/8	1/4	14.6	3B
	CML45TB_N	4.50	1/5	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	215	328	464	623	<b>662</b>	<b>386</b>	<b>2.02</b>	712	320x425x235	3/8	1/4	14.7	3B
	CML60TB_N	5.68	1/4	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	266	409	579	777	<b>824</b>	<b>479</b>	<b>1.99</b>	886	325x425x235	3/8	1/4	22.5	3B
	CMLY60RAa_N	5.98	1/4	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	317	469	668	912	<b>972</b>	<b>486</b>	<b>2.15</b>	1051	345x450x270	3/8	3/8	23.0	3B
	CMLY60RAb_N	5.98	1/4	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	317	469	668	912	<b>972</b>	<b>441</b>	<b>2.02</b>	1051	345x450x270	3/8	3/8	23.0	3A
	CML80TB_N	7.57	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	408	567	795	1094	<b>1170</b>	<b>572</b>	<b>3.02</b>	1271	345x450x270	3/8	1/4	23.5	3B
	CML80TG_N	7.57	3/8	43	T	HMBP	200-240/220-230V 50/60Hz ~1	CSIR	C-V	344	551	793	1070	<b>1136</b>	<b>574</b>	<b>2.99</b>	1223	345x450x270	3/8	1/4	23.5	3B
	CMLY80RAa_N	8.10	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	421	646	914	1226	<b>1301</b>	<b>606</b>	<b>2.99</b>	1399	350x425x270	3/8	3/8	23.9	3B

 Green Cooling Models    (\*) Or HF01234yf  
 New Models

This table continues in the following page

## R404A HMBP | HBP • 50 Hz

	MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	MAX. AMBIENCE TEMP. T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY								VERSION "3"					
									W Wx 0.86 = kcal/h    W x 3.412 = BTU/h Evaporating Temperature °C								DIMENSIONS W x L x H mm	TUBES		DESIGN		
									-25	-15	-5	5	7.2			10		SUCTION Inch	COMPRESSION Inch		WEIGHT Kg	
													W	W in p	A							
	CMLY80RAb_N	8.10	3/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	421	646	914	1226	<b>1301</b>	<b>560</b>	<b>2.68</b>	1399	350x425x270	3/8	3/8	23.9	3A
	CML90TB_N	8.85	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	421	646	914	1226	<b>1301</b>	<b>702</b>	<b>2.99</b>	1399	350x425x270	3/8	3/8	23.9	3B
	CML90TG_N	8.85	3/8	43	T	HMBP	200-220/230V 50/60Hz ~1	CSIR	C-V	412	631	893	1196	<b>1268</b>	<b>689</b>	<b>4.02</b>	1363	350x425x270	3/8	3/8	23.9	3B
	CMLY90RAa_N	9.09	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	466	712	1004	1344	<b>1425</b>	<b>720</b>	<b>4.02</b>	1531	365x510x300	3/8	3/8	25.0	2D
	CMLY90RAb_N	9.09	3/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	466	712	1004	1344	<b>1425</b>	<b>660</b>	<b>3.05</b>	1531	365x510x300	3/8	3/8	25.0	2E
	CMPT12RA_N	12.05	1/2	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	623	958	1386	1916	<b>2045</b>	<b>803</b>	<b>3.28</b>	2218	425x480x350	3/8	3/8	28.9	1F
	CMPT12RG_N	12.05	1/2	43	T	HMBP	200-220/220-230V 50/60Hz~1	CSR	C-V	-	921	1333	1842	<b>1966</b>	<b>779</b>	<b>3.18</b>	2132	425x480x350	3/8	3/8	28.9	1F
	CMPT14RA_N	14.17	1/2	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	702	1080	1563	2161	<b>2306</b>	<b>967</b>	<b>3.94</b>	2501	425x500x350	3/8	3/8	29.9	1F
	CMX16TBa_M	16.15	5/8	38	-	HMBP	220-240V 50Hz ~1	CSR	C-V	730	1160	1623	2121	<b>2235</b>	<b>1202</b>	<b>5.02</b>	2382	450x480x340	3/8	3/8	30.0	1C
	CMX16TBa_N	16.15	5/8	43	T	HBP	220-240V 50Hz ~1	CSR	C-V	-	1074	1536	2084	<b>2216</b>	<b>1157</b>	<b>5.01</b>	2390	430x495x350	3/8	3/8	30.5	1C
	CMX18TBa_M	18.40	7/8	38	-	HBP	220-240V 50Hz ~1	CSR	C-V	-	1206	1650	2121	<b>2228</b>	<b>1375</b>	<b>6.01</b>	2367	430x500x350	3/8	3/8	33.0	1C
	CMX21TBa_N	20.72	1	43	T	HBP	220-240V 50Hz ~1	CSR	C-V	-	1265	1798	2445	<b>2603</b>	<b>1384</b>	<b>6.0</b>	2812	455x500x440	3/8	3/8	36.0	1C
	CMS18T3_N	18.10	7/8	43	T	HMBP	400/440V 50/60Hz ~3	3 PHASE	C-V	706	1130	1644	2249	<b>2395</b>	<b>1199</b>	<b>2.02</b>	2586	425x530x350	1/2	3/8	36.0	1A
	CMS22T3_M	21.75	1	38	-	HMBP	400/440V 50/60Hz ~3	3 PHASE	C-V	943	1484	2121	2854	<b>3028</b>	<b>1501</b>	<b>1.99</b>	3256	455x515x440	1/2	3/8	38.0	1A
	CMS22TB_N	21.75	1	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	859	1354	1975	2720	<b>2900</b>	<b>1292</b>	<b>6.03</b>	3139	455x525x440	1/2	3/8	41.7	1B
	CMS22TB_N2F	21.75	1	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	880	1437	2126	2948	<b>3146</b>	<b>1352</b>	<b>6.01</b>	3408	480x650x335	1/2	3/8	39.0	6A
	CMS26T3_N	25.93	1 3/8	43	T	HMBP	400/440V 50/60Hz ~3	3 PHASE	C-V	1206	1919	2723	3617	<b>3826</b>	<b>1707</b>	<b>3.02</b>	4099	455x515x440	5/8	3/8	43.2	1A
	CMS26TB_N	25.93	1 3/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	1183	1853	2615	3468	<b>3668</b>	<b>1778</b>	<b>8.03</b>	3930	455x515x440	5/8	3/8	43.7	1B
	CMS26TB_N 2F	25.93	1 3/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	1166	1834	2584	3417	<b>3611</b>	<b>1744</b>	<b>8.03</b>	3864	480x650x335	5/8	3/8	40.0	6A
	CMS34T3_N	34.42	1 5/8	43	T	HMBP	400/440V 50/60Hz ~3	3 PHASE	C-V	1527	2368	3289	4288	<b>4519</b>	<b>2492</b>	<b>4.02</b>	4818	455x515x440	5/8	3/8	44.0	1A
	CMS34TB_M	34.42	1 5/8	38	-	HBP	220-240V 50Hz ~1	CSR	C-V	-	2424	3475	4485	<b>4702</b>	<b>2434</b>	<b>12.07</b>	4976	455x515x440	5/8	3/8	44.5	1B
	CMS34TB_M 2F	34.42	1 5/8	38	-	HBP	220-240V 50Hz ~1	CSR	C-V	-	2237	3217	4192	<b>4405</b>	<b>2532</b>	<b>12.07</b>	4677	480x650x335	5/8	3/8	41.0	6A
	CMS34TB_N	34.42	1 5/8	43	T	HBP	220-240V 50Hz ~1	CSR	C-V	-	2459	3524	4563	<b>4788</b>	<b>2461</b>	<b>12.07</b>	5073	455x515x440	5/8	3/8	44.5	1B
















## R404A HMBP | HBP • 60 Hz

	MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	MAX. AMBIENCE TEMP. T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY								VERSION "3"					
									W Wx 0.86 = kcal/h    W x 3.412 = BTU/h Evaporating Temperature °C								DIMENSIONS W x L x H mm	TUBES		DESIGN		
									-25	-15	-5	5	7.2			10		SUCTION Inch	COMPRESSION Inch		WEIGHT Kg	
													W	W in p	A							
	CML80TG_N	7.57	3/8	43	T	HMBP	200-240/220-230V 50/60Hz ~1	CSIR	C-V	420	654	930	1247	<b>1322</b>	<b>721</b>	<b>2.99</b>	1421	345x450x270	3/8	1/4	23.5	3B
	CML90TG_N	8.86	3/8	43	T	HMBP	200-220/230V 50/60Hz ~1	CSIR	C-V	483	745	1040	1367	<b>1443</b>	<b>862</b>	<b>4.01</b>	1542	350x425x270	3/8	3/8	23.9	3B
	CMPT12RG_N	12.05	1/2	43	T	HMBP	200-220/220-230V 50/60Hz ~1	CSR	C-V	-	1187	1658	2179	<b>2300</b>	<b>779</b>	<b>3.18</b>	2458	425x480x350	3/8	3/8	28.9	1F
	CMS18T3_N	18.40	7/8	43	T	HMBP	400/440V 50/60Hz ~3	3 PHASE	C-V	778	1293	1859	2476	<b>2619</b>	<b>1496</b>	<b>2.02</b>	2804	425x530x350	1/2	3/8	36.0	1A
	CMS22T3_M	21.75	1	38	-	HMBP	400/440V 50/60Hz ~3	3 PHASE	C-V	1079	1728	2407	3117	<b>3277</b>	<b>1913</b>	<b>3.01</b>	3483	455x515x440	1/2	3/8	38.0	1A
	CMS26T3_N	25.93	1 3/8	43	T	HMBP	400/440V 50/60Hz ~3	3 PHASE	C-V	1383	2202	3080	4017	<b>4231</b>	<b>2189</b>	<b>3.02</b>	4508	455x515x440	5/8	3/8	43.2	1A
	CMS34T3_N	34.42	1 5/8	43	T	HMBP	400/440V 50/60Hz ~3	3 PHASE	C-V	1678	2597	3511	4419	<b>4618</b>	<b>3047</b>	<b>5.04</b>	4871	455x515x440	5/8	3/8	44.0	1A

 Green Cooling Models

 New Models

R404A LBP • 50 Hz











	MODEL	DISPLACEMENT  cm <sup>3</sup>	POWER  hp	MAX. AMBIENCE TEMP. T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY							VERSION "3"					
									W Wx 0.86 = kcal/h    W x 3.412 = BTU/h Evaporating Temperature °C							DIMENSIONS  W x L x H mm	TUBES		WEIGHT  Kg	DESIGN	
									-40	-30	-23.3			-20	-10		SUCTION  Inch	COMPRESSION  Inch			
											W	W in <p>φ</p>	A								
	CML45FB_N	4.50	1/6	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	95	162	220	225	1.00	253	370	320x425x220	3/8	1/4	14.5	3B
	CMLY45LAa_N	4.56	1/6	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	102	179	244	194	0.99	281	410	320x425x220	3/8	1/4	15.5	3B
	CMLY45LAb_N	4.56	1/6	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	102	179	244	181	0.82	281	410	320x425x220	3/8	1/4	15.5	3A
	CML60FB_N	5.68	1/5	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	122	206	277	268	0.99	316	453	320x425x220	3/8	1/4	16.5	3B
	CMLY60LAa_N	5.98	1/5	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	147	249	335	262	1.01	383	548	320x425x220	3/8	1/4	17.0	3B
	CMLY60LAb_N	5.98	1/5	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	147	249	335	247	0.84	383	548	320x425x220	3/8	1/4	17.0	3A
	CML80FB_N	7.57	1/4	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	169	274	357	342	1.99	401	548	320x425x220	3/8	1/4	17.2	3B
	CMLY80LAa_N	8.10	1/4	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	195	310	419	338	1.75	482	709	325x425x235	3/8	1/4	19.2	3B
	CMLY80LAb_N	8.10	1/4	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	195	310	419	338	1.54	482	709	320x425x235	3/8	1/4	19.2	3A
	CML90FB_N	8.86	1/3	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	195	310	419	355	1.99	482	709	325x425x235	3/8	1/4	19.2	3B
	CMLY90LAa_N	9.09	1/4	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	267	370	477	373	2.00	541	779	340x425x245	3/8	1/4	19.2	3B
	CMLY90LAb_N	9.09	1/4	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	267	370	477	373	1.87	541	779	340x425x245	3/8	1/4	19.2	3A
	CMLY12LAb_N	10.70	3/8	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	331	459	592	446	2.35	671	967	340x425x245	3/8	1/4	21.5	3B
	CMLY12LAa_N	10.70	3/8	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	331	459	592	419	1.71	671	967	340x425x245	3/8	1/4	21.5	3B
	CMPT12LA_N	12.10	3/8	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	308	487	638	450	1.87	722	1012	350x425x270	3/8	1/4	20.7	3A
	CMPT14LA_N	14.32	1/2	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	378	586	743	535	1.98	825	1093	425x340x270	3/8	3/8	23.9	3A
	CMPT16LA_N	16.15	1/2	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	432	669	848	601	2.15	942	1248	350x510x275	3/8	3/8	24.8	2E
	CMPT18LA_N	18.00	1/2	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	470	726	920	672	2.30	1020	1350	365x510x305	3/8	3/8	29.8	2E
	CMX18FBa_N	18.40	5/8	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	349	611	820	639	2.97	933	1313	350x510x275	3/8	3/8	28.0	2E
	CMX21FBa_N	20.72	3/4	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	544	840	1062	712	2.98	1178	1560	365x510x305	3/8	3/8	29.8	2E
	CMX23FBa_M	23.2	7/8	38	-	LBP	220-240V 50Hz ~1	CSR	C-V	667	973	1209	813	3.97	1334	1750	365x510x305	3/8	3/8	30.3	2A
	CMS26FB_N	25.93	3/4	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	523	1028	1400	883	3.97	1593	2217	425x510x350	1/2	3/8	39.0	1B
	CMS30FB_N	29.95	7/8	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	617	1132	1518	1120	4.96	1721	2385	425x530x350	5/8	3/8	39.0	1B
	CMS34F3_N	34.42	1	43	T	LBP	400/440V 50/60Hz ~3	3 PHASE	C-V	627	1139	1535	1209	1.99	1746	2448	425x530x350	5/8	3/8	44.0	1A
	CMS34FB_N	34.42	1	43	T	LBP	220V 50Hz ~1	CSR	C-V	826	1210	1638	1209	5.95	1899	2892	425x530x350	5/8	3/8	39.5	1B
	CMS34FBb_N	34.42	1	43	T	LBP	220V 50Hz ~1	CSR	C-V	826	1210	1638	1209	5.95	1899	2892	425x530x350	5/8	3/8	39.5	1B

R404A LBP • 60 Hz













	MODEL	DISPLACEMENT  cm³	POWER  hp	MAX. AMBIENCE TEMP. T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY								VERSION "3"				DESIGN
									W Wx 0.86 = kcal/h    W x 3.412 = BTU/h Evaporating Temperature °C								DIMENSIONS  W x L x H mm	TUBES		WEIGHT  Kg	
									-40	-30	-23.3			-20	-10	SUCTION  Inch		COMPRESSION  Inch			
											W	W in <p>hp</p>	A								
	CMPT12LD_N	12.10	3/8	43	T	LBP	115V 60Hz ~1	CSR	C-V	345	577	<b>773</b>	<b>594</b>	<b>7.13</b>	883	1264	345x450x270	3/8	1/4	20.8	3B
	CMS34F3_N	34.42	1	43	T	LBP	400/440V 50/60Hz ~3	3 PHASE	C-V	649	1247	<b>1680</b>	<b>1415</b>	<b>1.98</b>	1903	2616	425x530x350	5/8	3/8	44.0	1A

 Green Cooling Models  
 New Models

## R290 HMBP • 50 Hz

	MODEL	DISPLACEMENT	POWER	MAX. AMBIENCE TEMP.	T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY W Wx 0.86 = kcal/h    W x 3.412 = BTU/h Evaporating Temperature °C								VERSION "3"					DESIGN
																		DIMENSIONS	TUBES		WEIGHT		
																			SUCTION	COMPRESSION			
										Inch	Inch	Kg											
		cm <sup>3</sup>	hp							-25	-15	-5	5	7.2			10	W x L x H mm					
														W	W inp	A							
	CNLY60RAa_N	5.98	1/4	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	259	395	581	819	<b>878</b>	<b>365</b>	<b>2.10</b>	957	340x425x245	3/8	1/4	24.0	3B	
	CNLY60RAb_N	5.98	1/4	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	259	395	581	819	<b>878</b>	<b>335</b>	<b>1.85</b>	957	340x425x245	3/8	1/4	24.0	3A	
	CNLY80RAa_N	8.10	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	343	524	771	1087	<b>1165</b>	<b>512</b>	<b>2.32</b>	1270	325x425x270	3/8	1/4	23.9	3B	
	CNLY80RAb_N	8.10	3/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	343	524	771	1087	<b>1165</b>	<b>470</b>	<b>1.95</b>	1270	325x425x270	3/8	1/4	23.9	3A	
	CNLY90RAa_N	9.09	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	355	541	797	1123	<b>1204</b>	<b>554</b>	<b>2.78</b>	1312	325x425x270	3/8	1/4	24.2	3B	
	CNLY90RAb_N	9.09	3/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	355	541	797	1123	<b>1204</b>	<b>503</b>	<b>2.03</b>	1312	325x425x270	3/8	1/4	24.2	3A	
	CNPY12RAb_N	12.10	1/2	43	T	HBP	220-240V 50Hz ~1	CSIR	C-V	-	826	1238	1753	<b>1880</b>	<b>670</b>	<b>3.40</b>	2047	425x480x350	3/8	3/8	28.9	1F	
	CNPY12RAa_N	12.10	1/2	43	T	HBP	220-240V 50Hz ~1	CSR	C-V	-	826	1238	1753	<b>1880</b>	<b>608</b>	<b>2.70</b>	2047	425x480x350	3/8	3/8	28.9	1F	
	CNPT14RA_N	14.32	1/2	43	T	HBP	220-240V 50Hz ~1	CSR	C-V	-	979	1468	2079	<b>2229</b>	<b>724</b>	<b>3.05</b>	2427	425x340x270	3/8	3/8	23.9	1F	
	CNX18TB_M	18.00	7/8	38	-	HMBP	220-240V 50Hz ~1	CSR	C-V	694	1059	1559	2195	<b>2353</b>	<b>982</b>	<b>3.99</b>	2564	430x500x350	3/8	3/8	33.0	1C	

## R290 LBP • 50 Hz

	MODEL	DISPLACEMENT	POWER	MAX. AMBIENCE TEMP.	T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY								VERSION "3"					DESIGN
										W Wx 0.86 = kcal/h    W x 3.412 = BTU/h Evaporating Temperature °C								DIMENSIONS  W x L x H mm	TUBES		WEIGHT		
										SUCTION	COMPRESSION												
		cm <sup>3</sup>	hp							-40	-30	-23.3			-20	-10		Inch	Inch	Kg			
												W	W inp	A									
	CNLY45LAa_N	4.56	1/6	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	103	175	<b>238</b>	<b>172</b>	<b>1.00</b>	270	383	320x425x220	3/8	1/4	15.5	3B		
	CNLY45LAb_N	4.56	1/6	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	103	175	<b>238</b>	<b>160</b>	<b>0.87</b>	270	383	320x425x220	3/8	1/4	15.5	3A		
	CNLY60LAa_N	5.98	1/5	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	137	205	<b>272</b>	<b>211</b>	<b>1.02</b>	307	443	320x425x220	3/8	1/4	17.0	3B		
	CNLY60LAb_N	5.98	1/5	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	137	205	<b>272</b>	<b>199</b>	<b>0.95</b>	307	443	320x425x220	3/8	1/4	17.0	3A		
	CNLY80LAa_N	8.10	1/4	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	198	266	<b>334</b>	<b>260</b>	<b>2.02</b>	371	514	320x425x220	3/8	1/4	20.0	3B		
	CNLY80LAb_N	8.10	1/4	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	198	266	<b>334</b>	<b>251</b>	<b>1.92</b>	371	514	320x425x220	3/8	1/4	20.0	3A		
	CNLY90LAa_N	9.09	1/3	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	220	321	<b>412</b>	<b>305</b>	<b>2.1</b>	460	638	340x425x245	3/8	1/4	19.2	3B		
	CNLY90LAb_N	9.09	1/3	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	220	321	<b>412</b>	<b>293</b>	<b>1.89</b>	460	638	340x425x245	3/8	1/4	19.2	3A		
	CNPY12LAa_N	12.10	3/8	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	273	455	<b>588</b>	<b>425</b>	<b>3.02</b>	634	870	350x425x270	3/8	1/4	23.0	2D		
	CNPY12LAb_N	12.10	3/8	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	273	455	<b>588</b>	<b>414</b>	<b>2.98</b>	634	870	350x425x270	3/8	1/4	23.0	2E		
	CNPY14LAa_N	14.32	1/2	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	302	502	<b>654</b>	<b>481</b>	<b>2.98</b>	730	986	350x425x270	3/8	1/4	23.5	2D		
	CNPY14LAb_N	14.32	1/2	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	302	502	<b>654</b>	<b>465</b>	<b>2.35</b>	730	986	350x425x270	3/8	1/4	23.5	2E		
	CNPT16LA_N	16.15	1/2	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	351	583	<b>759</b>	<b>532</b>	<b>2.71</b>	847	1144	350x510x275	3/8	3/8	24.8	2E		

 Green Cooling Models

 New Models

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

### Measurement conversion

R134

W (A) x 1.18 = kcal/h (B)

W (C) x 1.02 = kcal/h (D)

R290

W (A) x 1.17 = kcal/h (B)

W (C) x 1.03 = kcal/h (D)

R404A

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

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





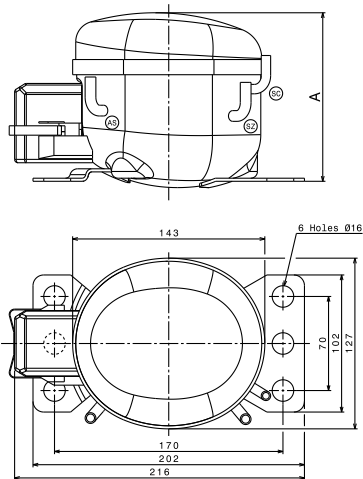


# 4.

## Technical Information

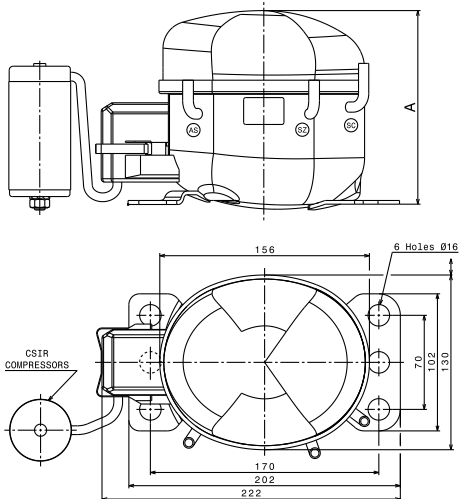
# Compressor Dimensional Drawings

## Small L range



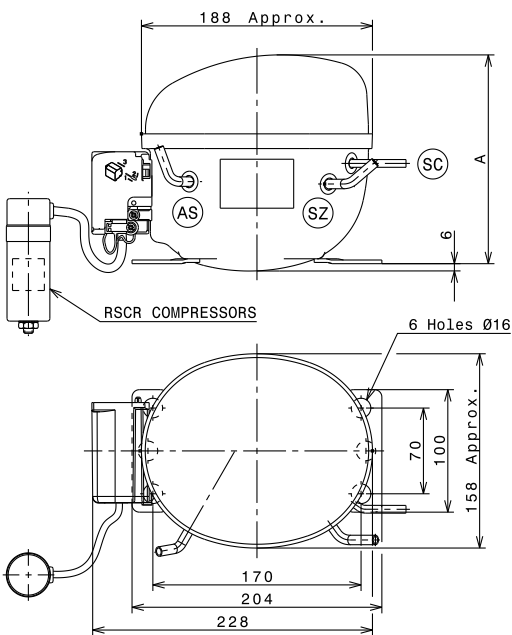
	Designation	Internal diam.		A (mm)
AS	Suction	6.2	SLb	125.5
SC	Discharge	4.9	SLc	129
SZ	Service	6.2	SLd	138
			SLe	141

## B range



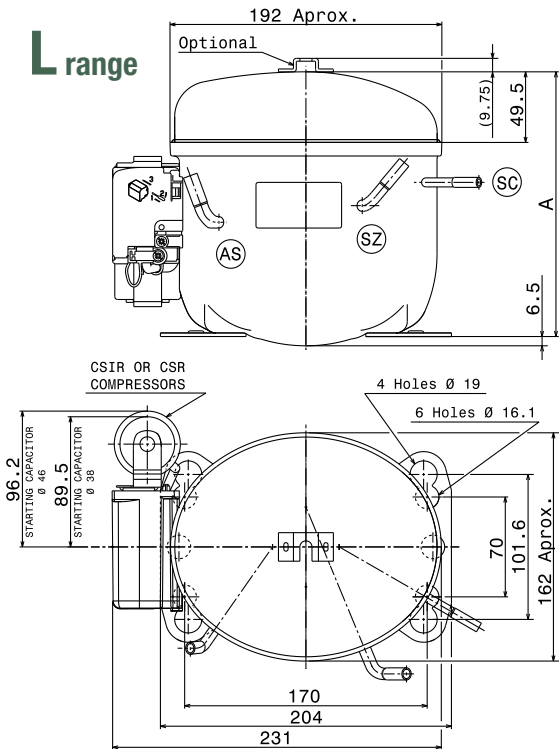
	Designation	Internal diam.		A (mm)
AS	Suction	6.2	Bb	141
SC	Discharge	4.9	Bc	145
SZ	Service	6.2	Bd	153
			Be	159

## U range



	A (mm)	LEGEND
Ub	173.5	AS Suction/Service
Uc	176.5	SC Discharge
		SZ Service/Suction

## L range



	A (mm)	LEGEND
Lb	175	AS Suction/Service
Lc	185.6	SC Discharge
Ld	198	SZ Service/Suction

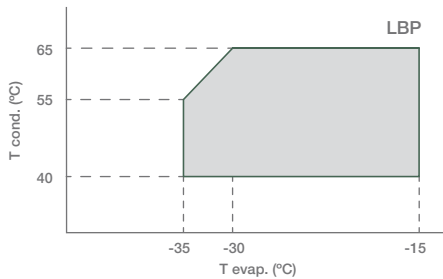


# SOA - Safe Operating Area

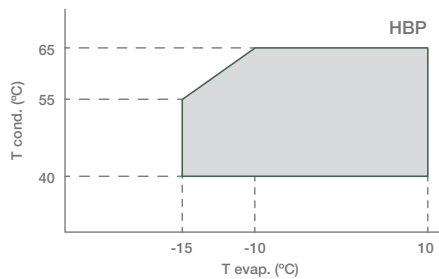
In order to grant the compressor reliability it is recommended that the point representing the operating conditions (suction and discharge pressures) falls within the shadowed area of the corresponding graph.

**For Small L and B ranges:**

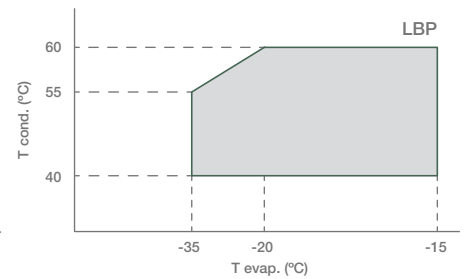
**SOA R134a LBP**



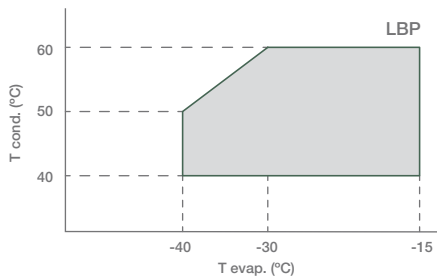
**SOA R134a HBP**



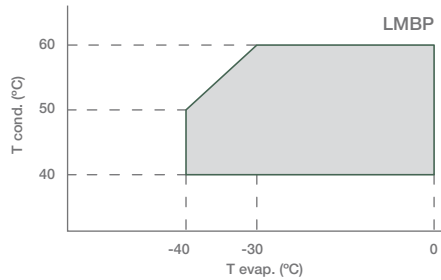
**SOA R600a LBP**



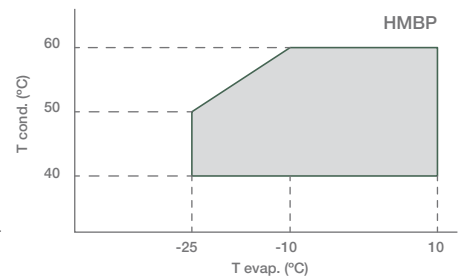
**SOA R290 LBP**



**SOA R290 LMBP**

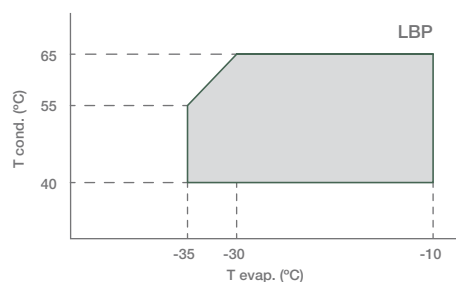


**SOA R290 HMBP**

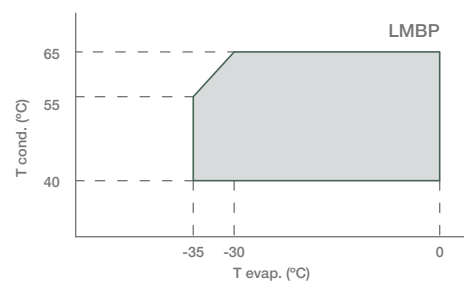


**For U, L, P, X and S ranges:**

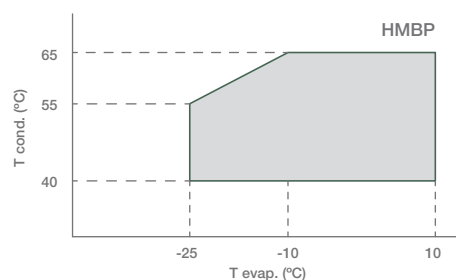
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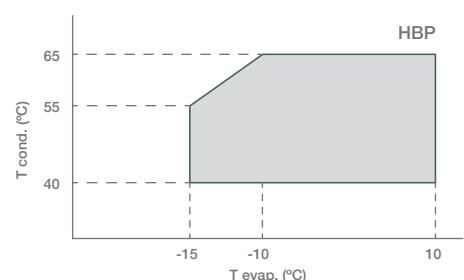
**SOA R134a LMBP**



**SOA R134a HMBP**

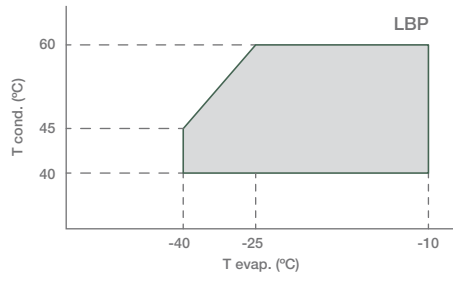


**SOA R134a HBP**

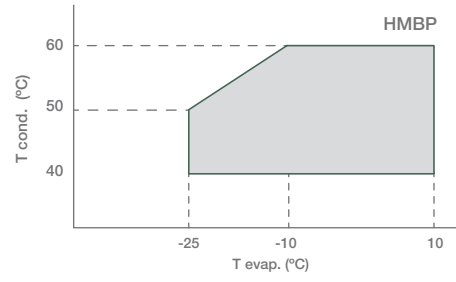




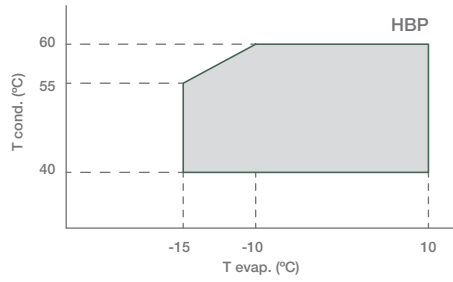
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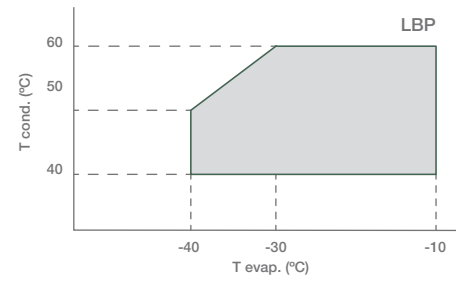
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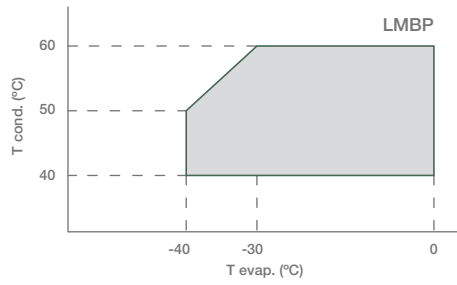
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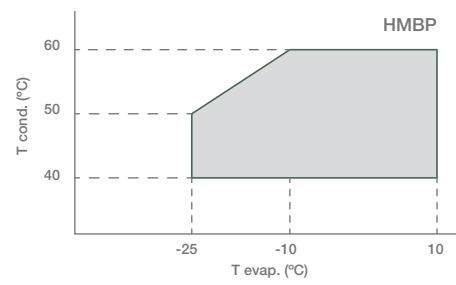
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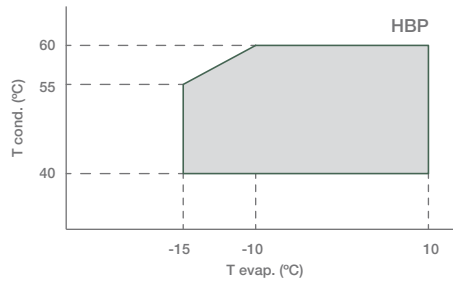
**SOA R290 LMBP**



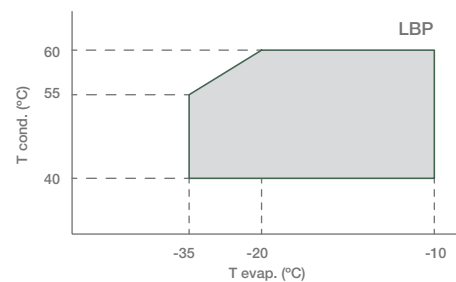
**SOA R290 HMBP**



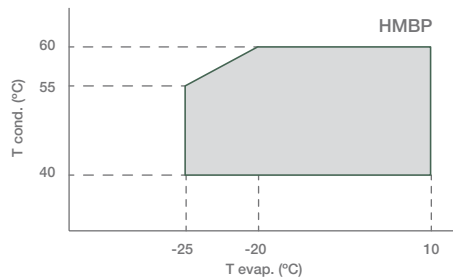
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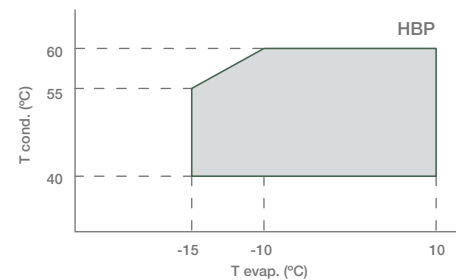
**SOA R600a LBP**



**SOA R600a HMBP**

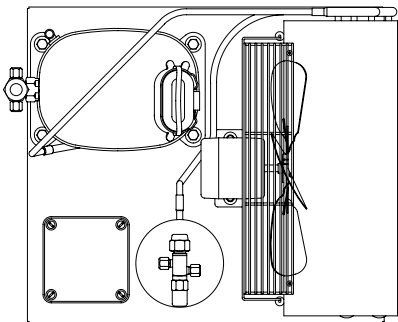


**SOA R600a HBP**

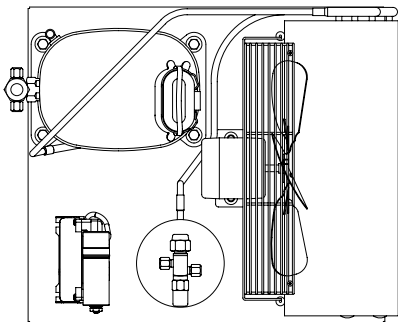


# Condensing Unit Layouts

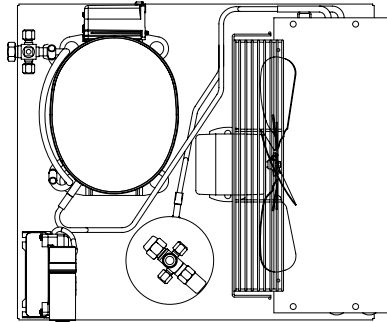
1A



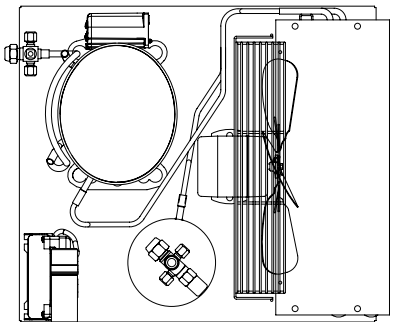
1B



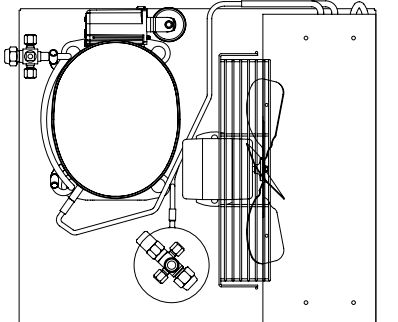
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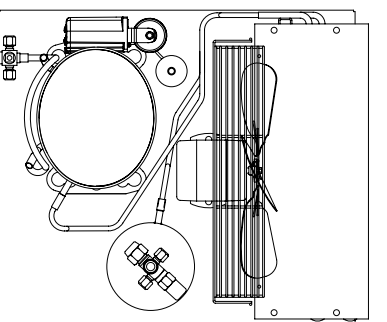
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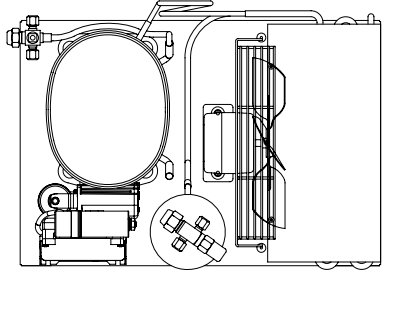
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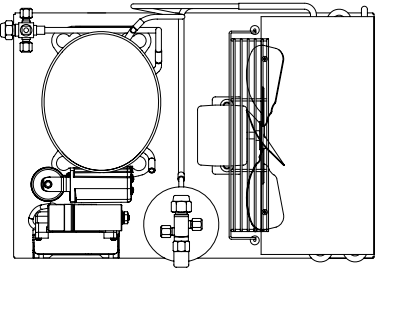
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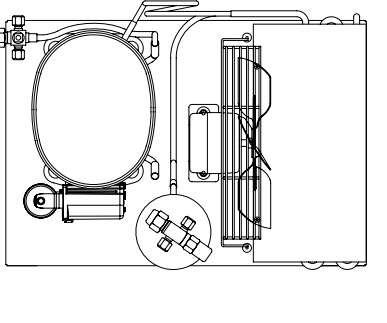
2A



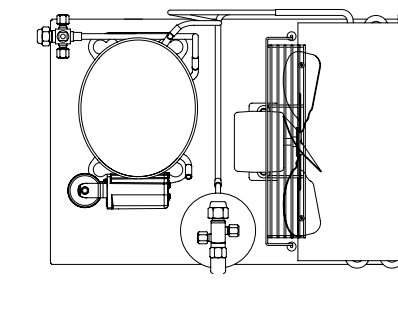
2B



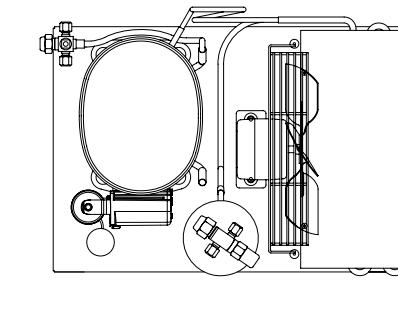
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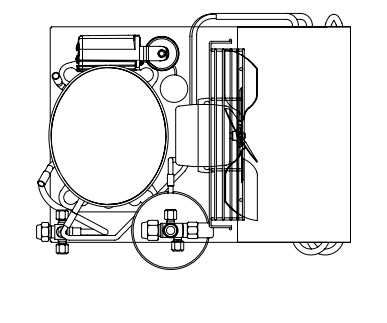
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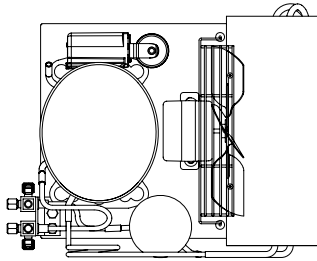
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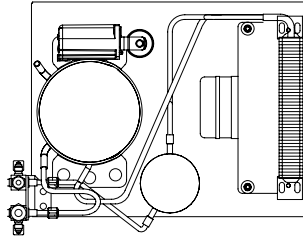
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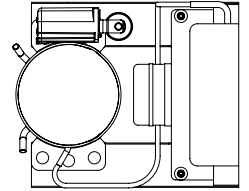
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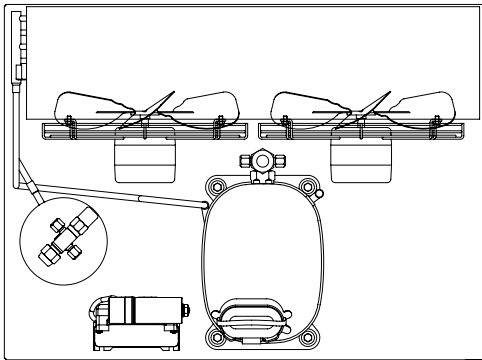
3C



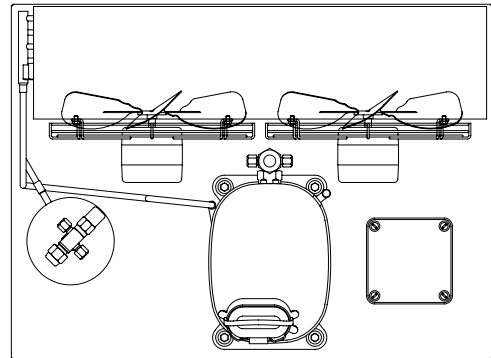
4A



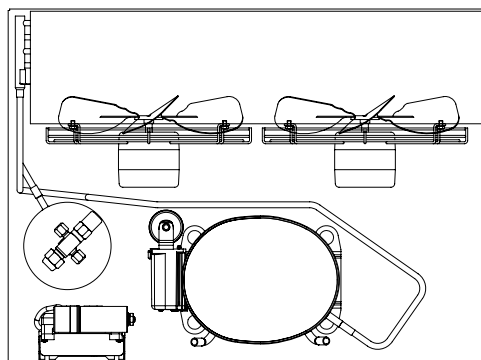
6A



6B



6C



# Packaging

## Single Box

	Range	Box dimensions (mm)			Pallet dimensions (mm)	
		Length	Width	Height	Length	Width
Compressors	Small L	257	172	141/151	1010	1010
	B	257	172	151/166	1010	1010
	U	300	192	167/185	1200	1050
	L & P	300	192	167/185/198/214	1200	1050
	X & P (w/ connecting box)	320	192	222	1050	1050
	X	347	207	230	1050	1050
	S	282	215	363	1010	1010
Condensing Units (CU)	Versions 3A,3B,3C	484	380	260	1200	1050
	Versions 2A,2B,2C,2D,2E	556	442	302	1360	1150
	Versions 1A,1B,1C,1D,1E,1F	577	537	345/440	1160	1100
	Versions 6A,6B	670	500	280	1360	1150
	Versions 6C	670	500	335	1360	1150

## Tray

	Range	Tray dimensions (mm)		Pallet dimensions (mm)	
		Length	Width	Length	Width
Compressors	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
CU	Versions 3A,3B,3C	374	290	1200	1050

## Quantities by Pallet Compressors

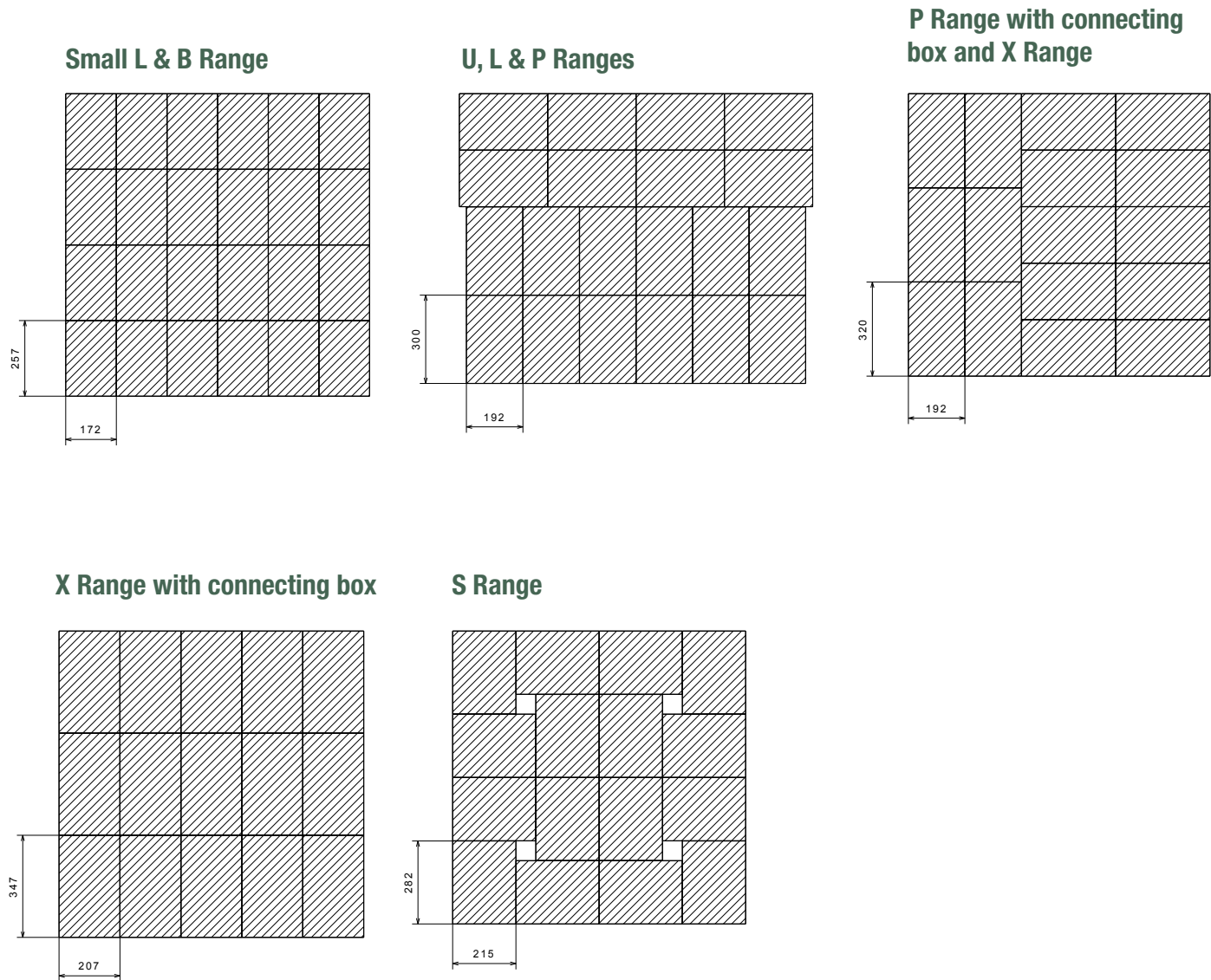
Range	Tray			Single Box		
	Qty / Level	N° Levels	Qty / Pallet	Qty / Level	No. Levels	Qty / Pallet
Small L	25	6	150	24	5	120
B	25	5	125	24	5	120
U	18	5	90	20	5	100
L	24	5	120	20	5	100
P	24	5	120	20	5	100
P w/ connecting Box	24	5	120	16	4	64
X	17	4	68	16	4	64
X w/ connecting Box	17	4	68	15	4	60
S	24	2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

## Quantities by Pallet Condensing Units

Range	Tray			Single Box		
	Qty / Level	N° Levels	Qty / Pallet	Qty / Level	No. Levels	Qty / Pallet
Versions 3A,3B,3C	8	4	32	6	4 or 3	24 or 18
Versions 2A,2B,2C,2D,2E	-	-	-	6	3 or 2	18 or 12
Versions 1A,1B,1C,1D,1E,1F	-	-	-	4	3 or 2	12 or 8
Versions 6A,6B	-	-	-	4	2 or 3	8 or 12
Versions 6C	-	-	-	4	2 or 3	8 or 12
Esp (360x310 / 350x270)	9	4	36	-	-	-

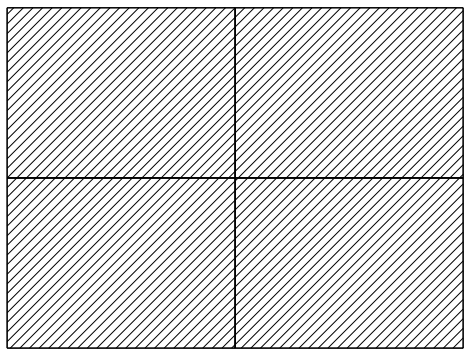
Pallet Product Layout

Single Box Pallet Distribution

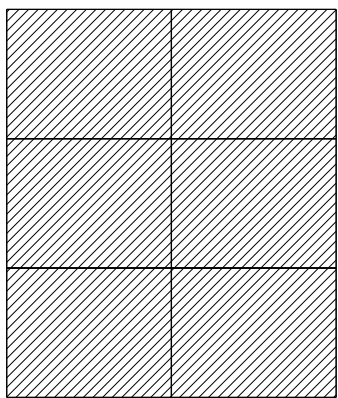


Condensing Units Single Box Pallet Distribution

Versions 1A,1B,1C,1D,1E,1F  
Versions 6A,6B,6C

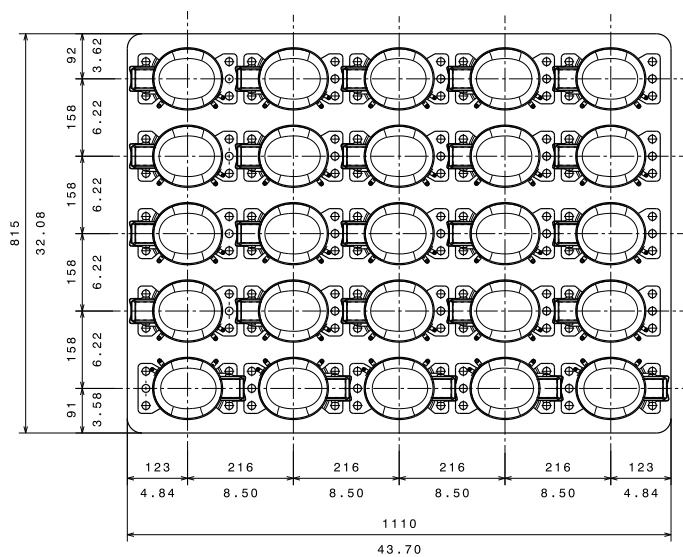


Versions 2A,2B,2C,2D,2E  
Versions 3A,3B,3C

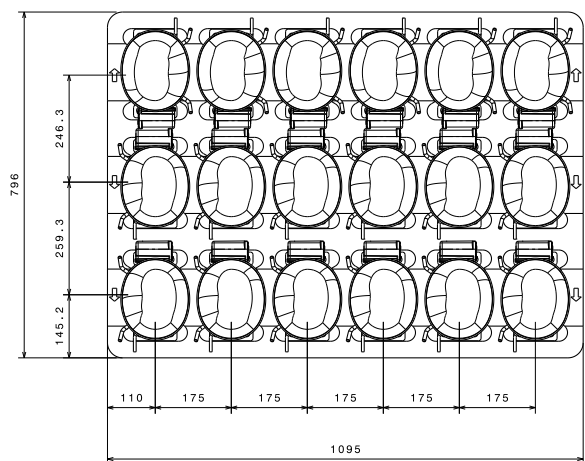


Tray per Pallet

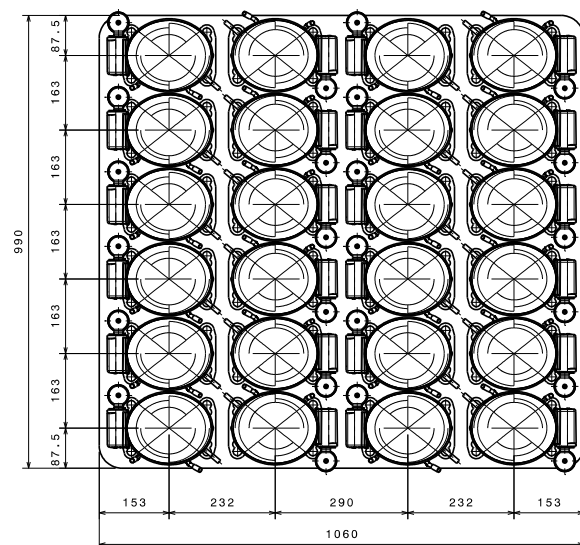
Small L & B compressor tray distribution



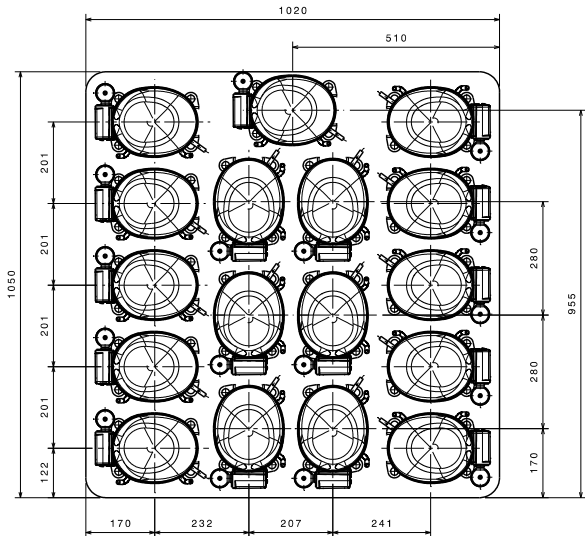
U compressor tray distribution



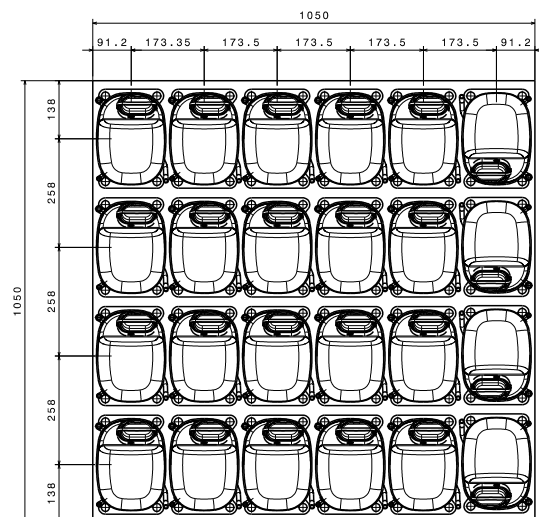
L and P compressor tray distribution



X compressor tray distribution

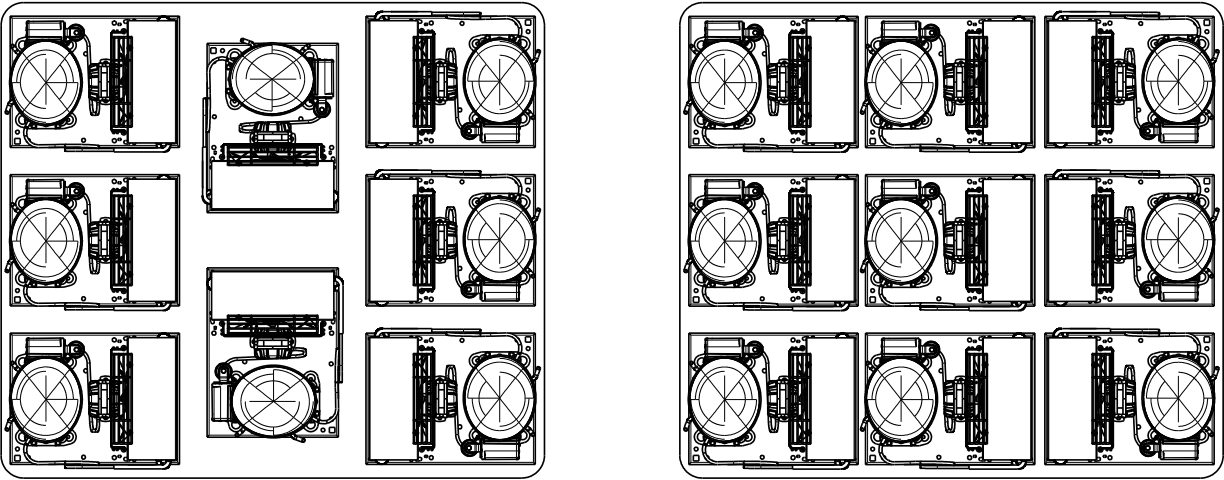


S compressor tray distribution





Condensing Units Pallet Distribution

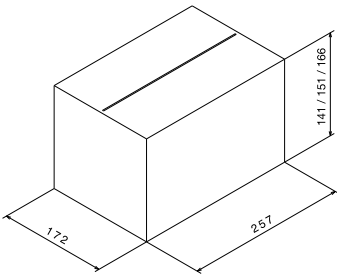


Pallet label

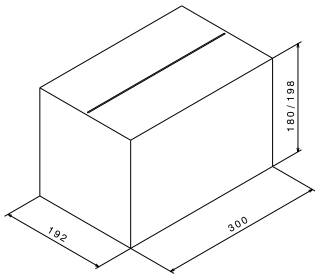
Receiver <b>CUSTOMER</b>		Customer <b>00000</b>	Customer part number <b>00000000-000</b>
Work Order <b>00000</b>		Supplier name <b>HUAYI COMPRESSOR</b>	
Part Name(P) <b>0000000</b> 		0000 A00 / MUELLE 000000 DD.MM.YYYY 00:00:00	
Quantity(Q) <b>00,000 UN</b> 		Description <b>COMPRESSOR MODEL</b>	
Supplier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

Single Boxes Drawings

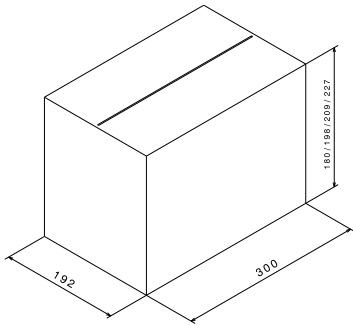
Small L & B Range



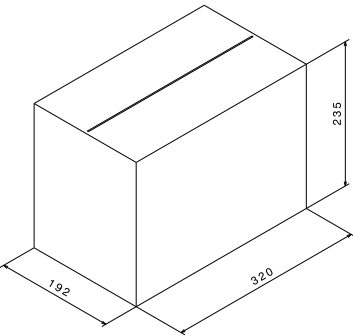
U Range



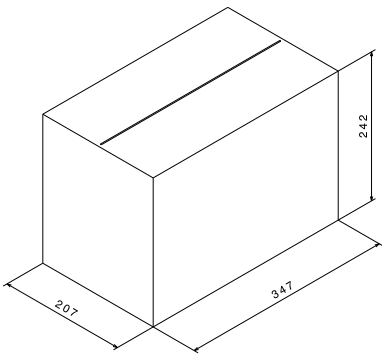
L & P Ranges



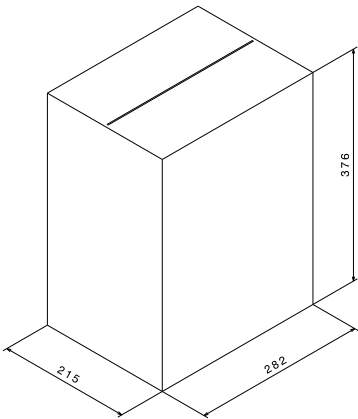
P with connecting box / X Range



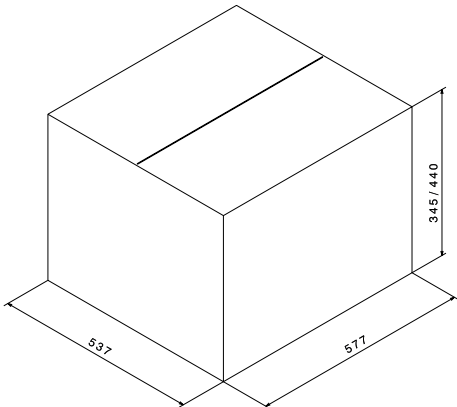
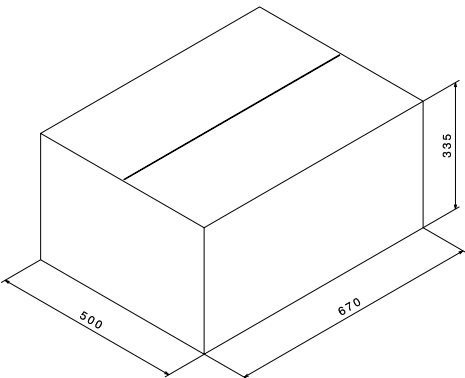
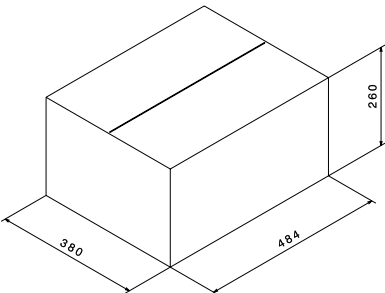
X Range with connecting box



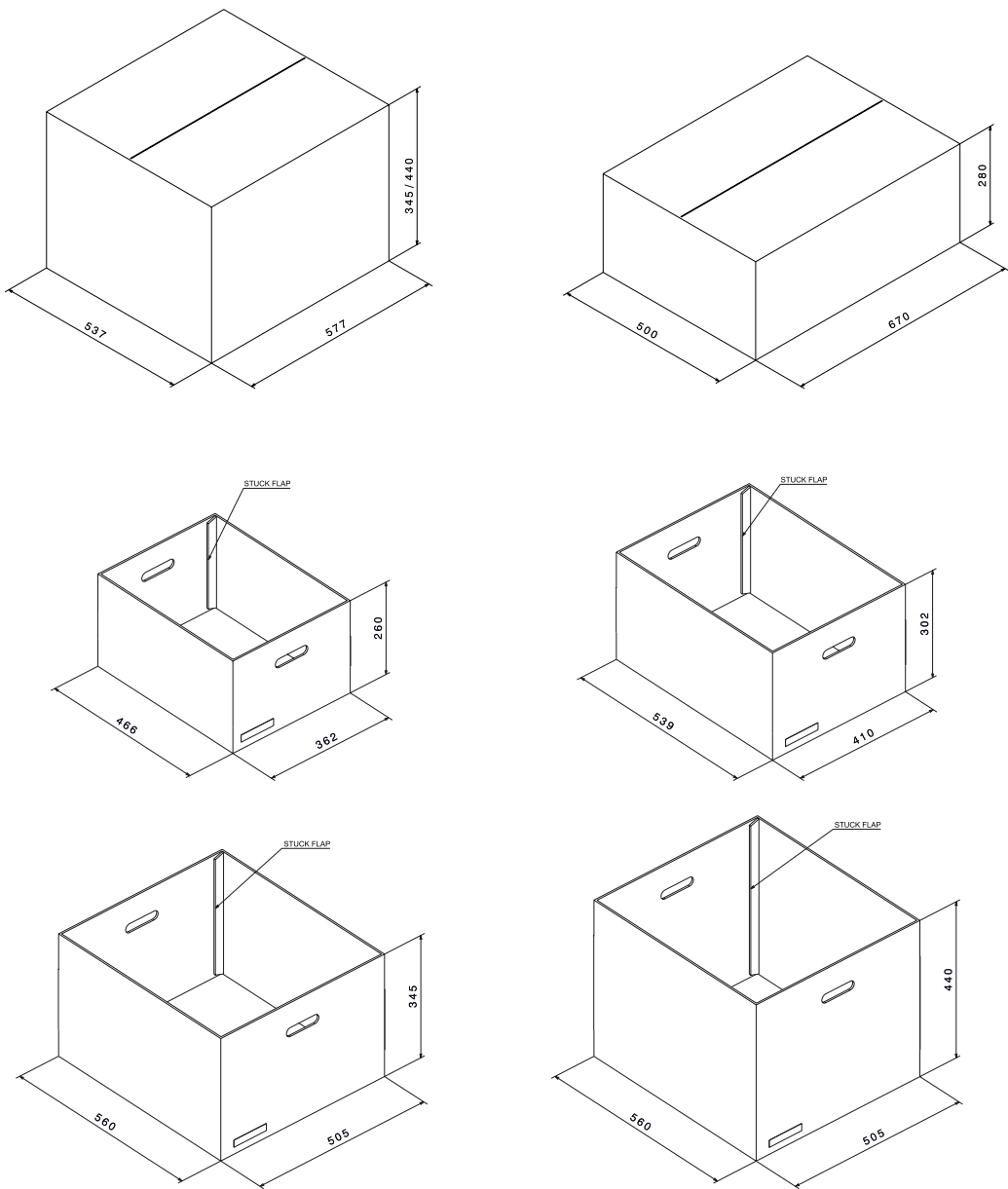
S Range



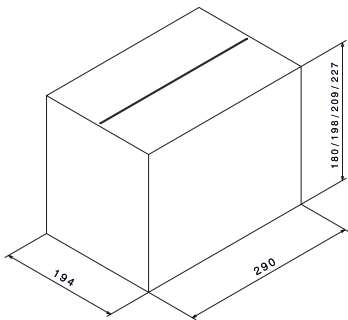
Condensing Units



Condensing Units



GLT80TDC Compressor



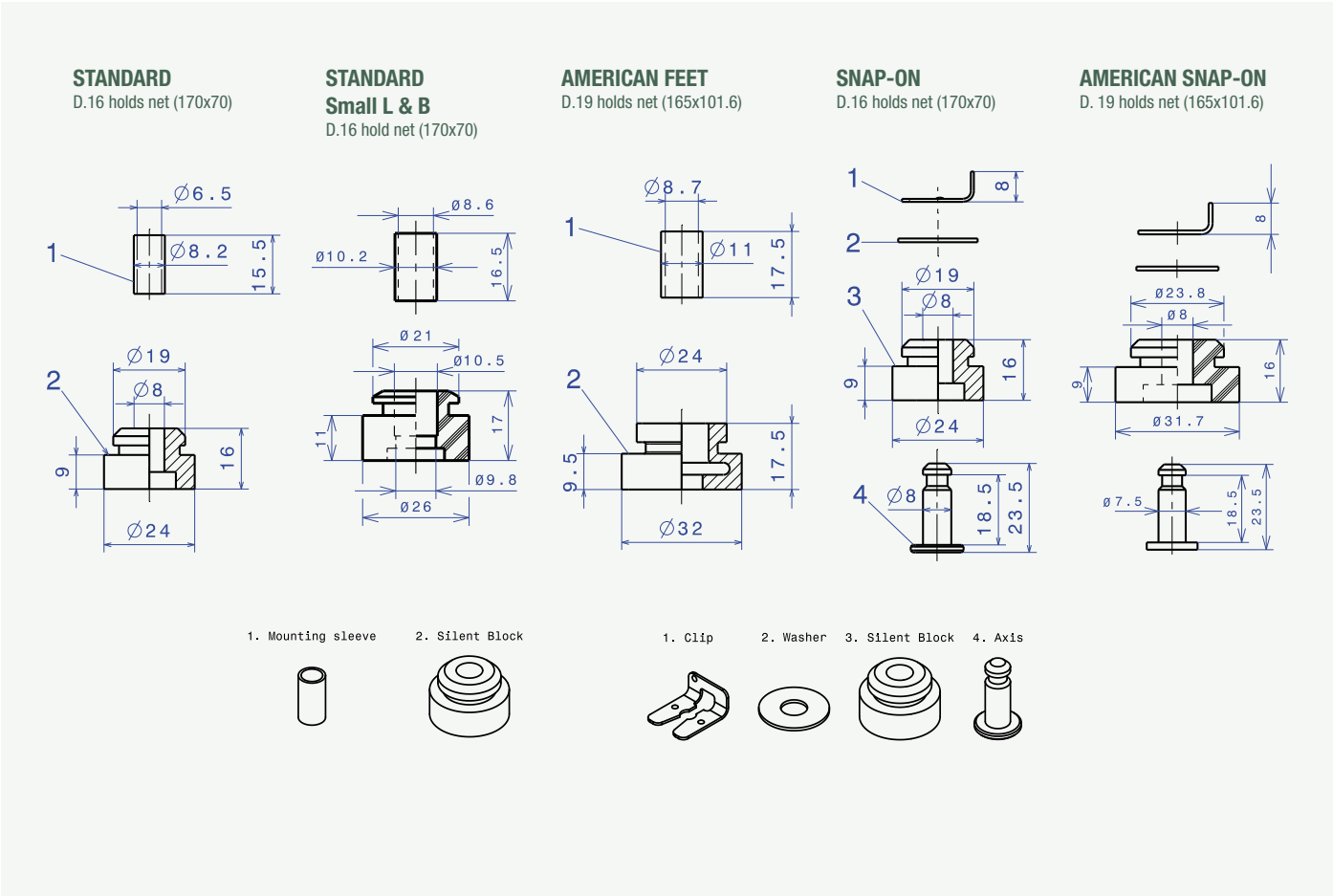
# Fixings

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

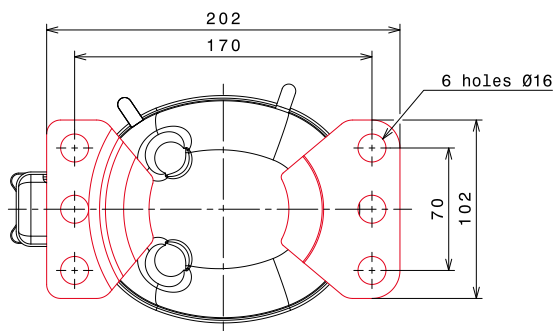
## Mounting feet

Range	Mounting feet	
Small L & B	European type. Set of 4 holes of 16mm DIA with inter-axes: 70x170mm	
U	European type. Set of 4 holes of 16mm DIA with inter-axes: 70x170mm	
L / P	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 61/2 inch (101.6 x 165 mm)
X	One set of 4 holes of 19 mm (¾ inch) DIA with inter-axes: 114.3 x178 mm (41/2 x 7 inch)	
S	One set of 4 holes of 19 mm (¾ inch) DIA with inter-axes: 122.2 x 200.2 mm (413/16 x 7 7/8 inch)	

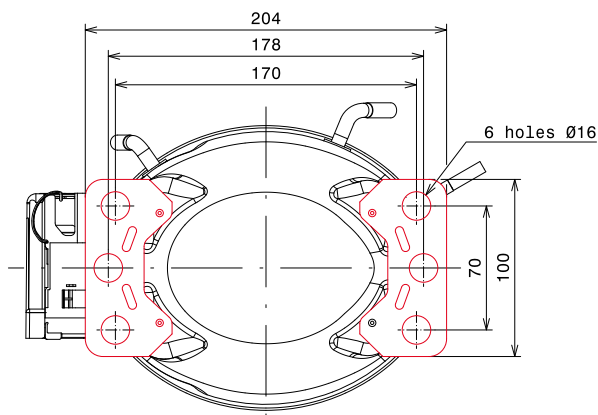
## Silent Blocks (Mounting accessories)



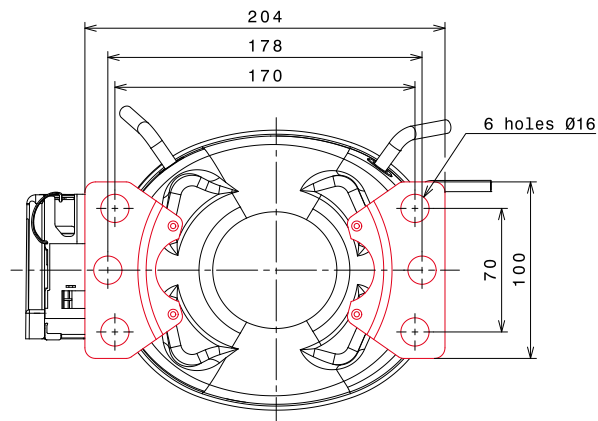
**Small L & B Range** (European mounting feet)



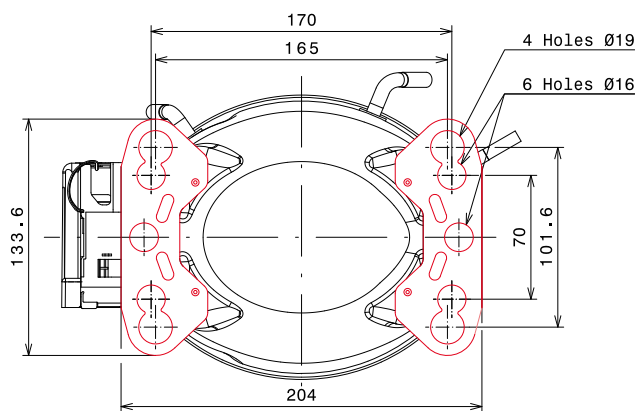
**L / P Range** (European mounting feet)



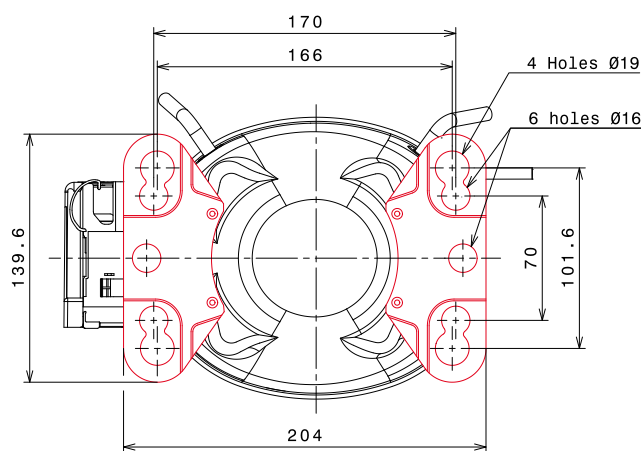
**U Range** (European mounting feet)



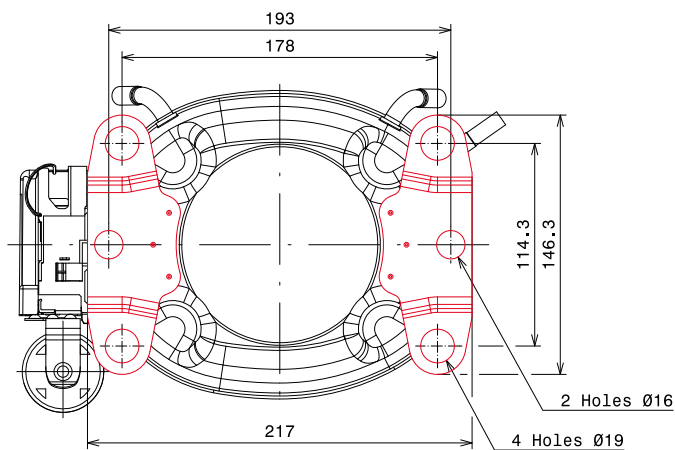
**L / P Range** (American mounting feet)



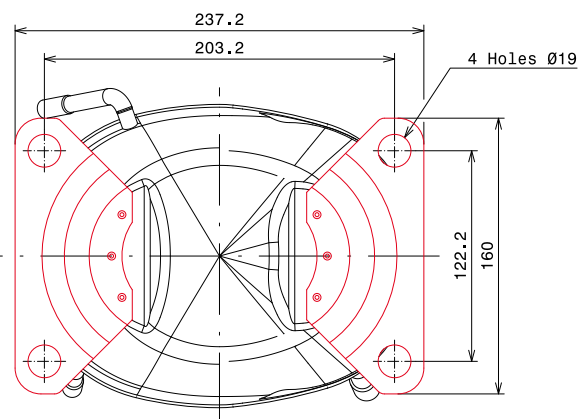
**U Range** (American mounting feet)



**X Range**

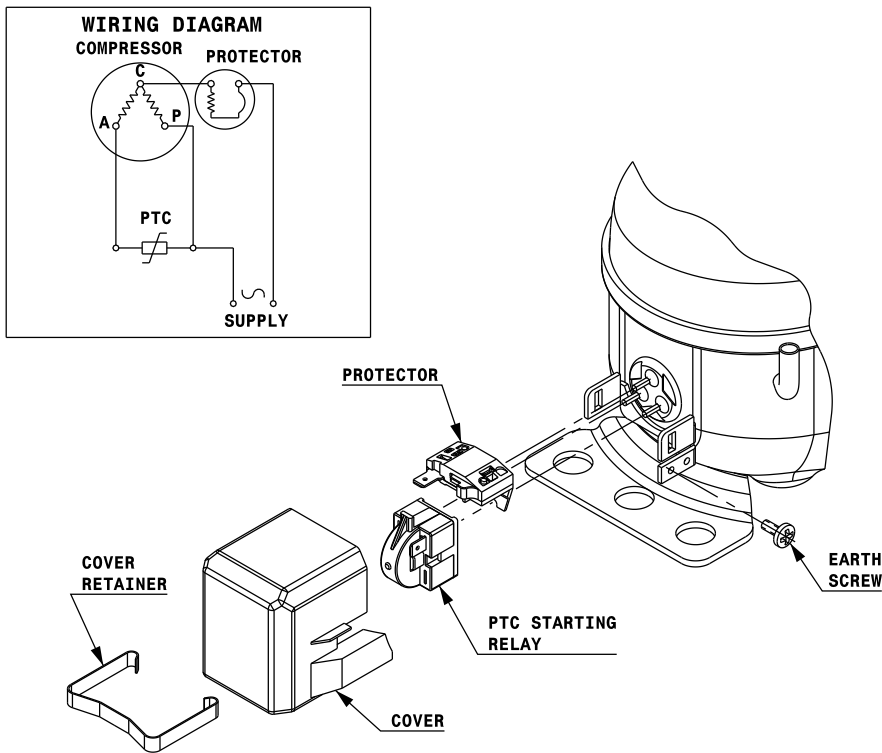


**S Range**

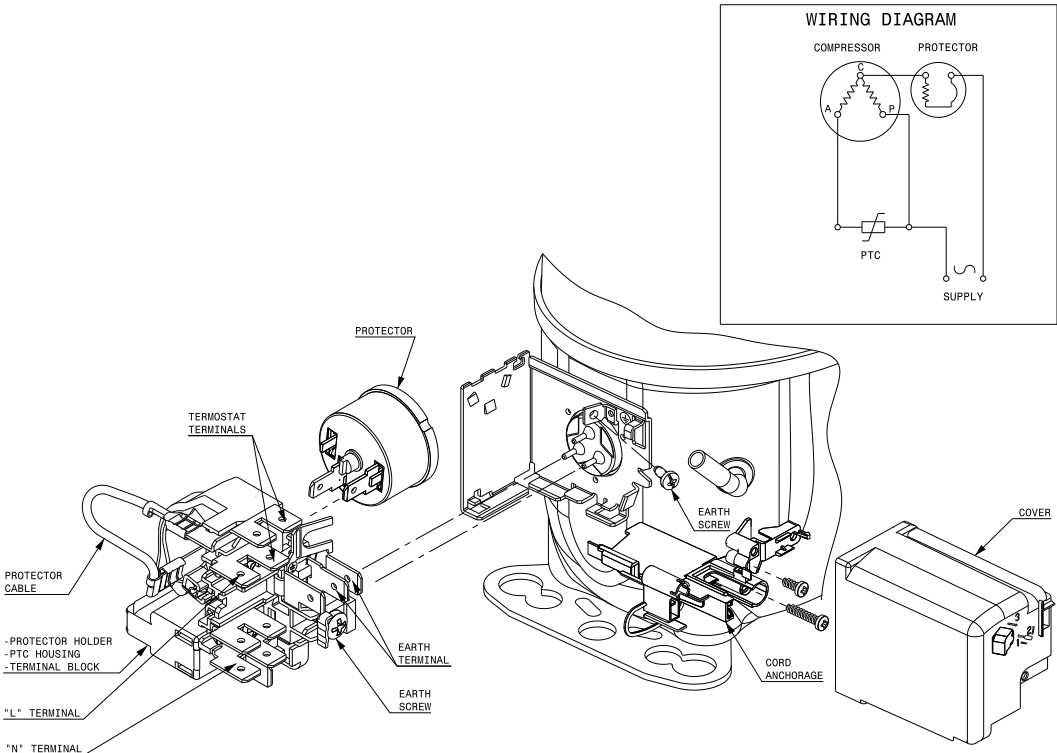


# Wiring Diagrams and Electrical Assembly

## RSIR CONNECTION (PTC) Small L & B

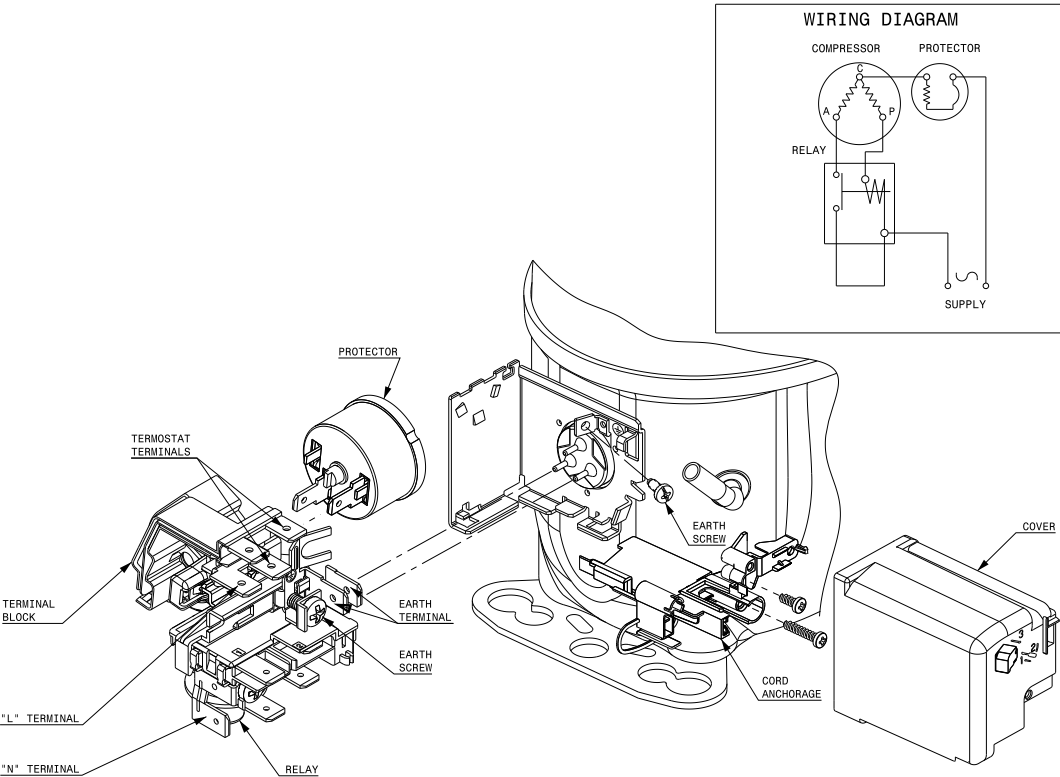


## RSIR CONNECTION (PTC)

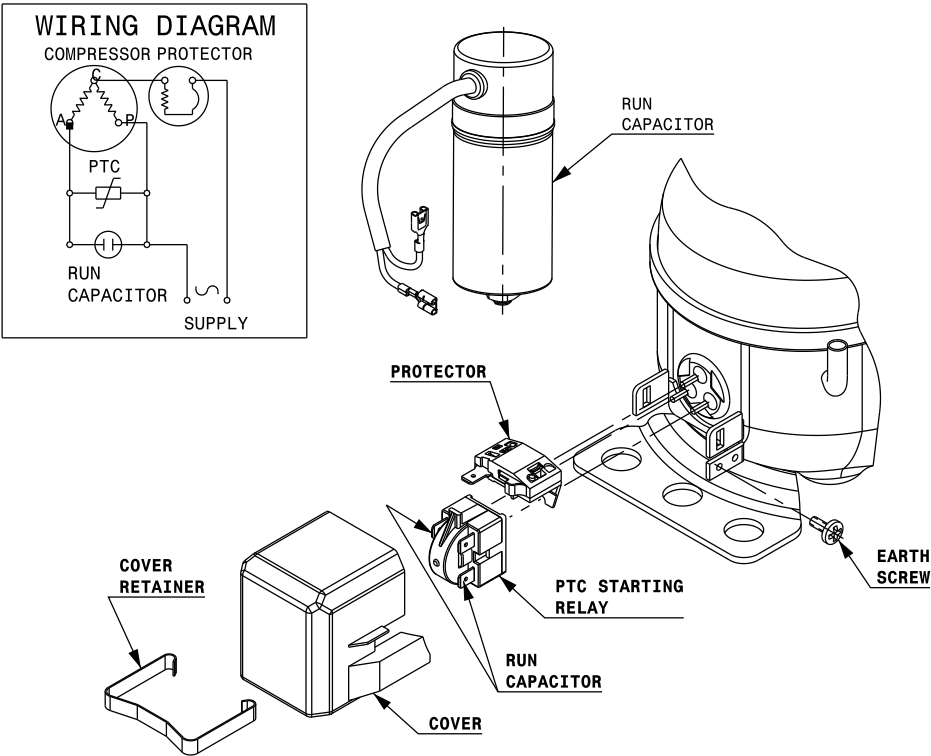




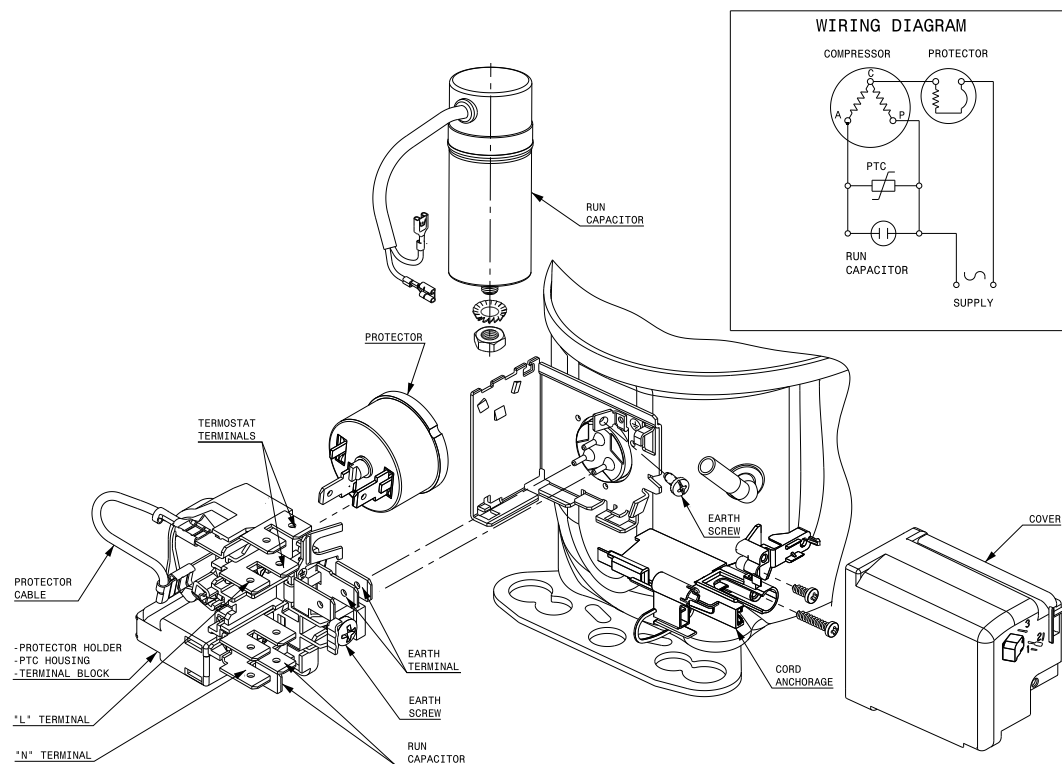
RSIR CONNECTION (RELAY)



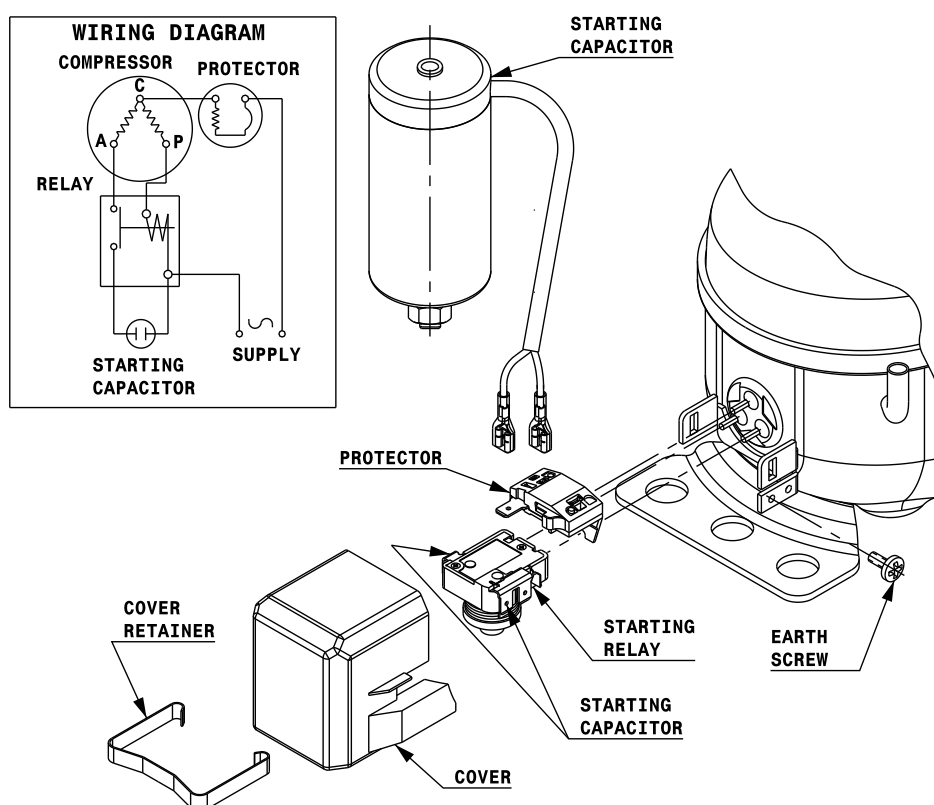
RSCR CONNECTION (PTC) Small L & B



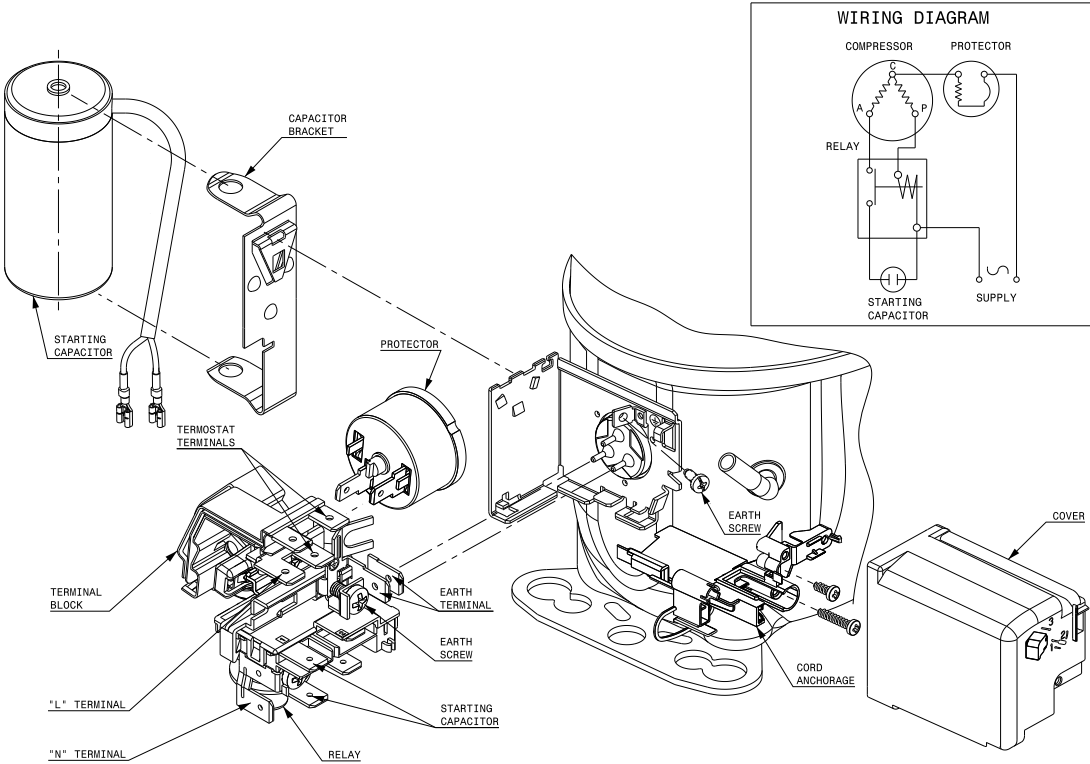
## RSCR CONNECTION



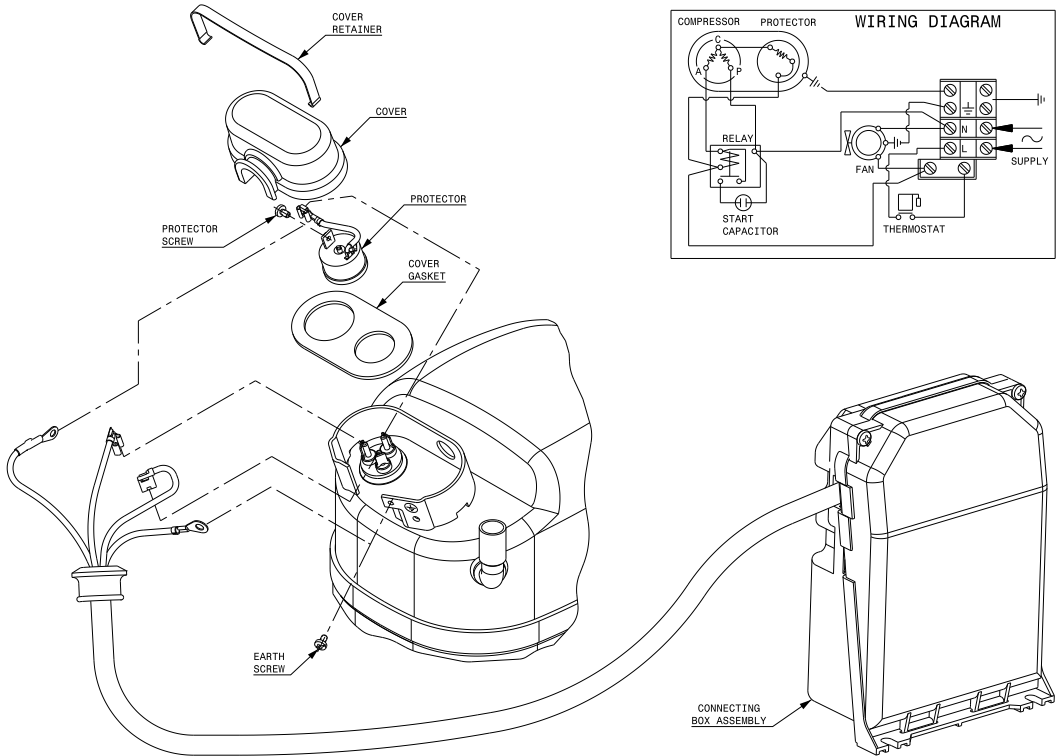
## CSIR CONNECTION Small L & B



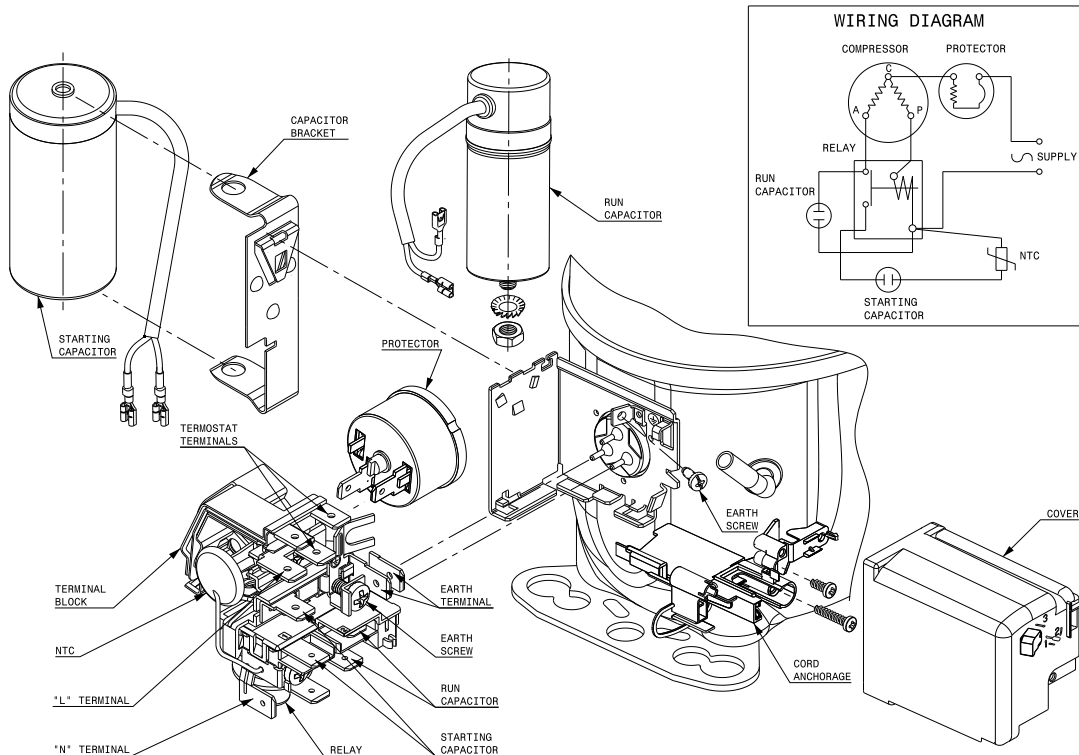
CSIR CONNECTION



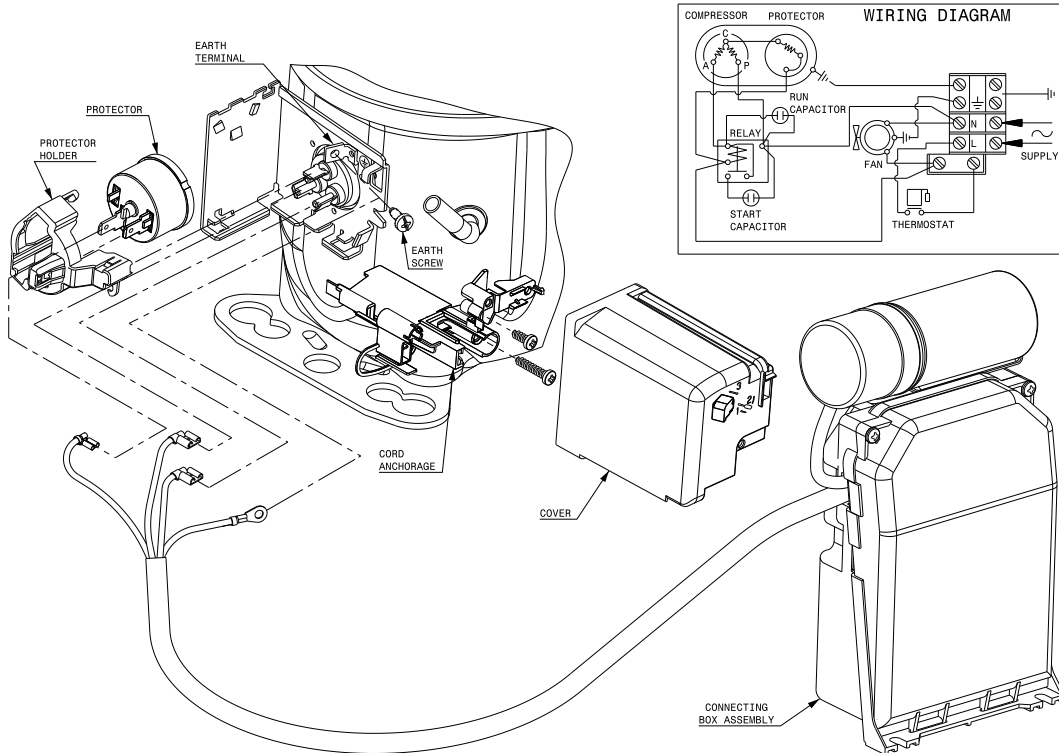
CSIR CONNECTION (EXTERNAL CONNECTING BOX) (S range)



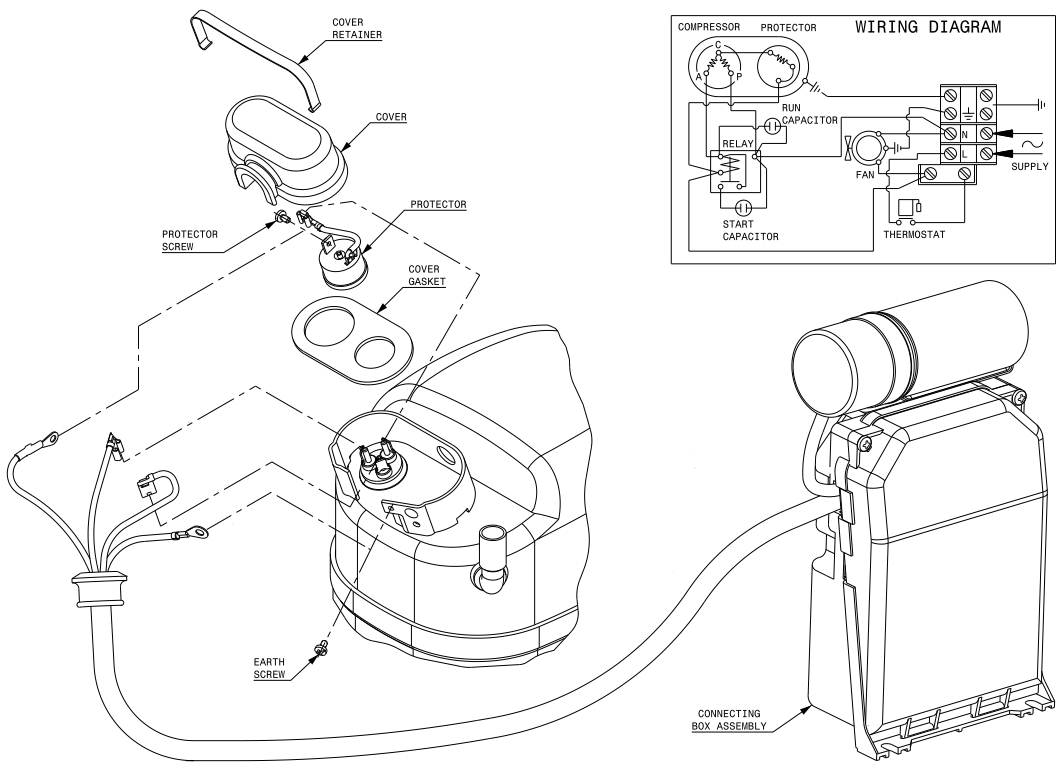
## CSR CONNECTION (CURRENT RELAY + NTC)



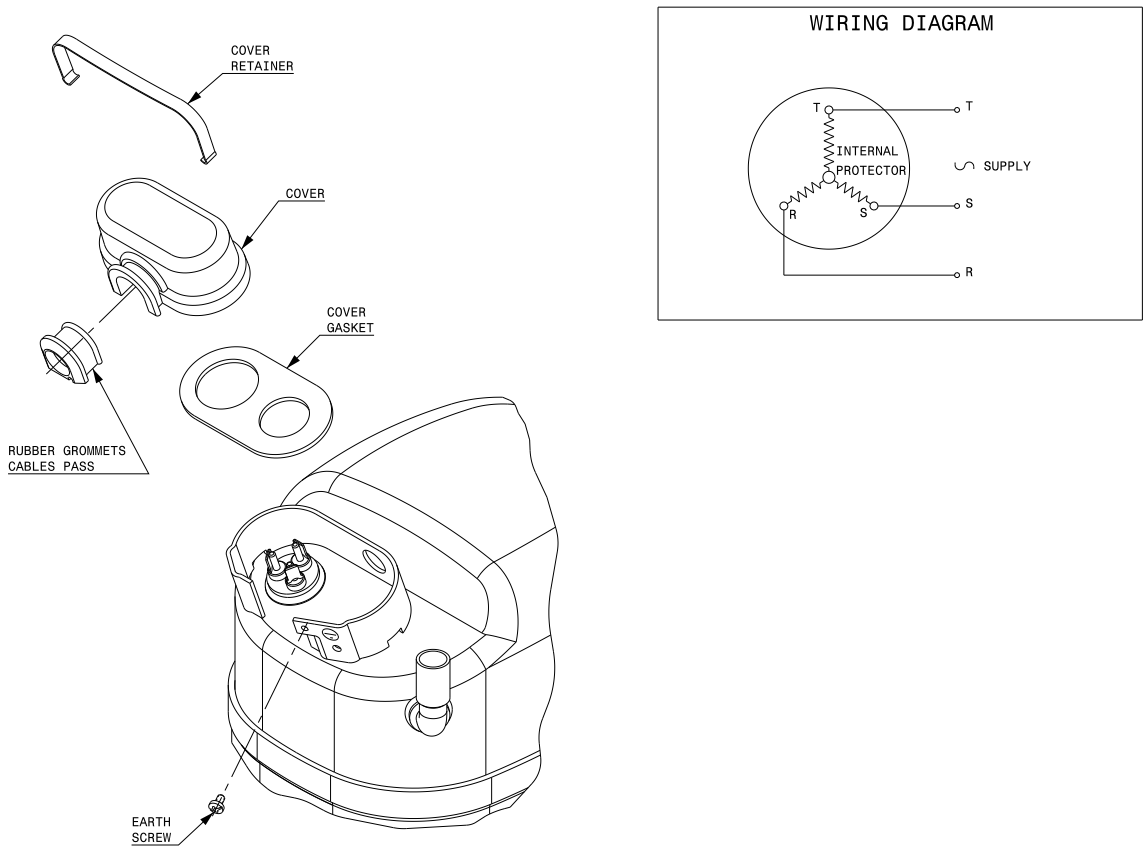
## CSR CONNECTION (EXTERNAL CONNECTING BOX) (P, X ranges)



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



### 3PH CONNECTION (S range)











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