



**cubigel**<sup>®</sup>  
compressors

# GENERAL CATALOGUE

Compressors



for Commercial Refrigeration  
R290 · R600a · R134a · R404A



HUAYI  
COMPRESSOR  
BARCELONA





For every type of application

The most complete range of products



Sustainable Cooling

Natural Refrigerants



Low energy consumption

Worldwide presence



Mobile applications

# HUAYI COMPRESSOR BARCELONA

Leading manufacturer  
of compressors



## **Huayi Compressor Barcelona**

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

# More than 60 years

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







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# 1.

## General Information



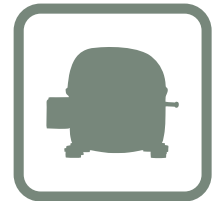
Research and Development

Leadership



Reliability

Innovation



Cutting-edge technology

People



# The Company

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

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

Huayi Compressor Co., Ltd. was founded in 1990, located in Jingdezhen, China, and is a worldwide leader of household compressor manufacturing. It specializes in the production of hermetic compressors with a complete range from 40W to 400W for refrigerators, water dispensers and dehumidifiers, among other household appliances.

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

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

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

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

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





# The Product

## Extended range of compressors

The most complete range of hermetic compressors for every commercial application under the Cubigel Compressor® brand. The offer includes more than 500 different models of compressors from ranges of 1.4 to 38cc, in most refrigerant gases, main voltages and types of applications.



## Condensing Units

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



## The green cooling ranges

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



## Compressors for mobile applications

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





# Family of Compressors and Condensing Units

Small

## Small L range



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

## B range



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



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

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

## U range

**Features:**  
Most efficient, Compact size, Extremely silent, Green Cooling  
**Range:**  
4.5 to 10.5 cc  
**Refrigerants:**  
R134a, R290, R600a, R454C, R455A  
**Applications:**  
Ice cream freezers, Bottle coolers, Chest coolers, Freezers, Refrigerated Displays counters, Display cabinets.



## U+ range



**Features:**  
Most efficient, extremely silent, Green Cooling  
**Range:**  
12.50 to 14.2 cc  
**Refrigerants:**  
R290, R454C, R455A  
**Applications:**  
Ice cream freezers, Bottle coolers, Chest coolers, Freezers, Refrigerated Displays counters, Display cabinets

# L range

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

**Range:**  
4.56 to 10.7 cc

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

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



# P range

**Features:**

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

**Range:**  
12.1 to 18.0 cc

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

**Applications:**

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



# X range

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

**Range:**  
16.0 to 23.2 cc

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

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



# S range

**Features:**

Top-capacity range, optimized design to reduce vibration

**Range:**  
22.0 to 38.0 cc

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

**Applications:**

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





## The Green Cooling Ranges

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

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

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

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

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

### High Efficiency Ranges

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

### Natural Refrigerants

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

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

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



## Variable Speed Compressors

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

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

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

Variable  
Speed  
Compressors



### Features

#### Application:

LMBP

#### Programming modes:

Drop-in control, Frequency control

#### Voltage range:

115-240V / 50-60Hz

#### Models:

NVT50FSC, NVT70FSC, NUS100FSC, NUS125FSC

#### Refrigerant:

R290







## DC Compressors for mobile applications

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

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

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

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

DC  
Compressors  
Range



**Features**

**Application:**

LBP and LMBP

**Programming modes:**

Drop-in control, Frequency control

**Voltage range:**

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

**Refrigerant:**

R134a and R600a



# Condensing Units

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

## Features, Benefits and Customized versions

### Features and Benefits

- Complete range from 1.4 to 38 cc
- High reliability & top-quality components
- High Efficiency version available
- Specific customized range
- Designed to work under 43°C
- Suitable for all refrigerants & applications

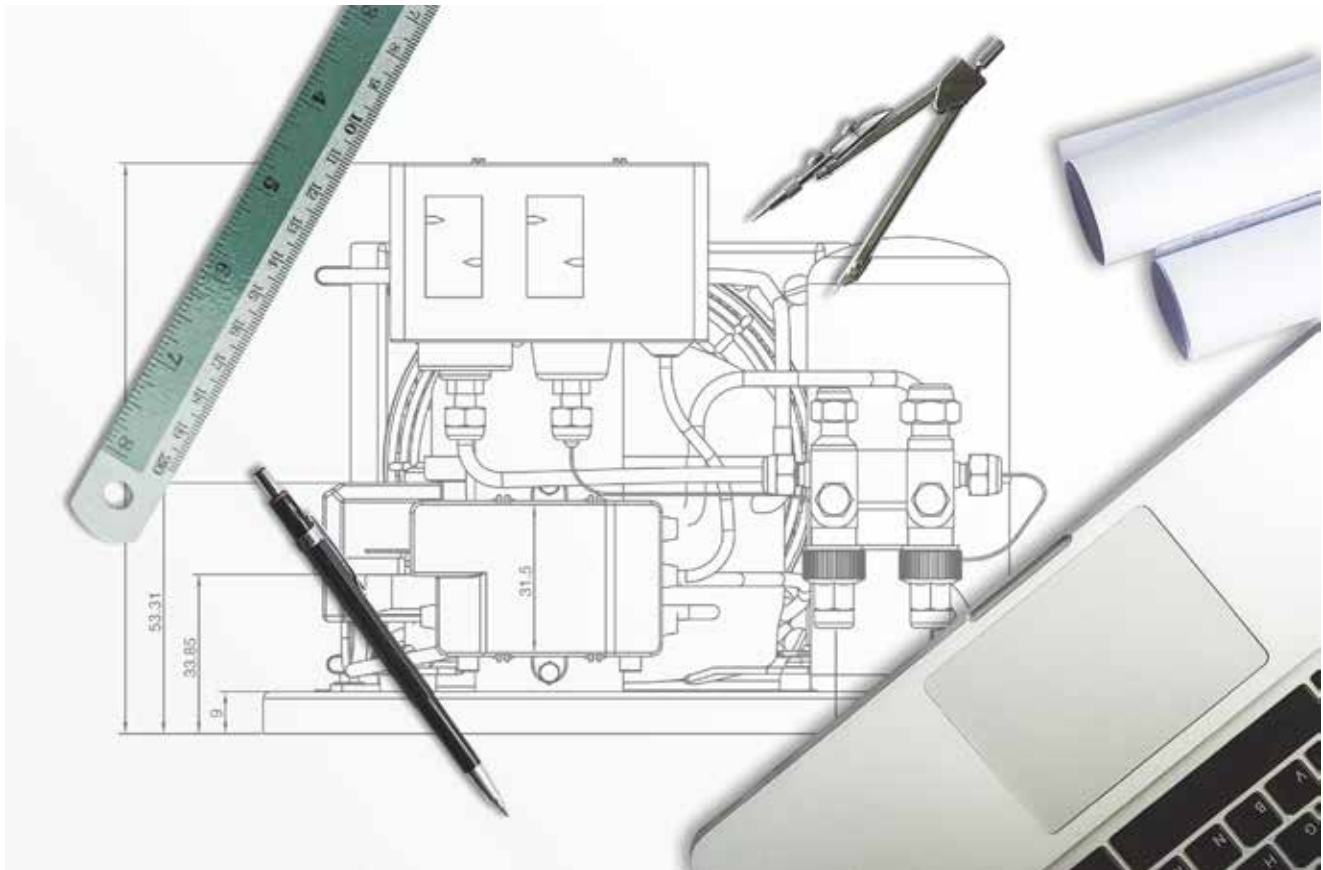
### Main specific components

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

### Main specific services

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

Condensing Units

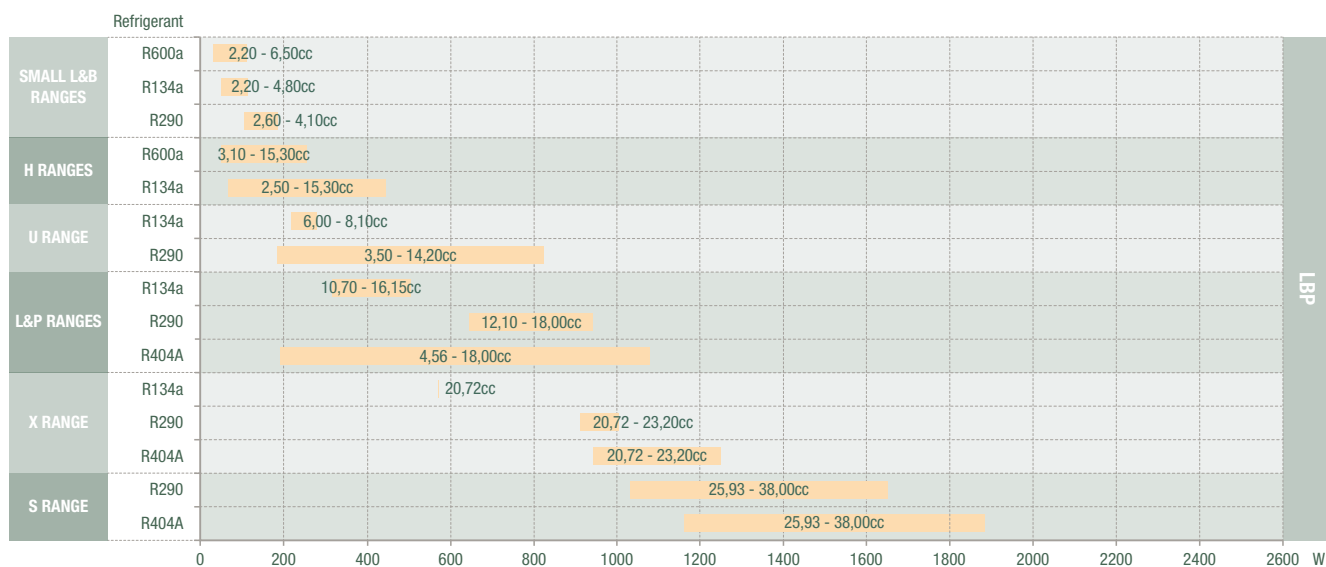




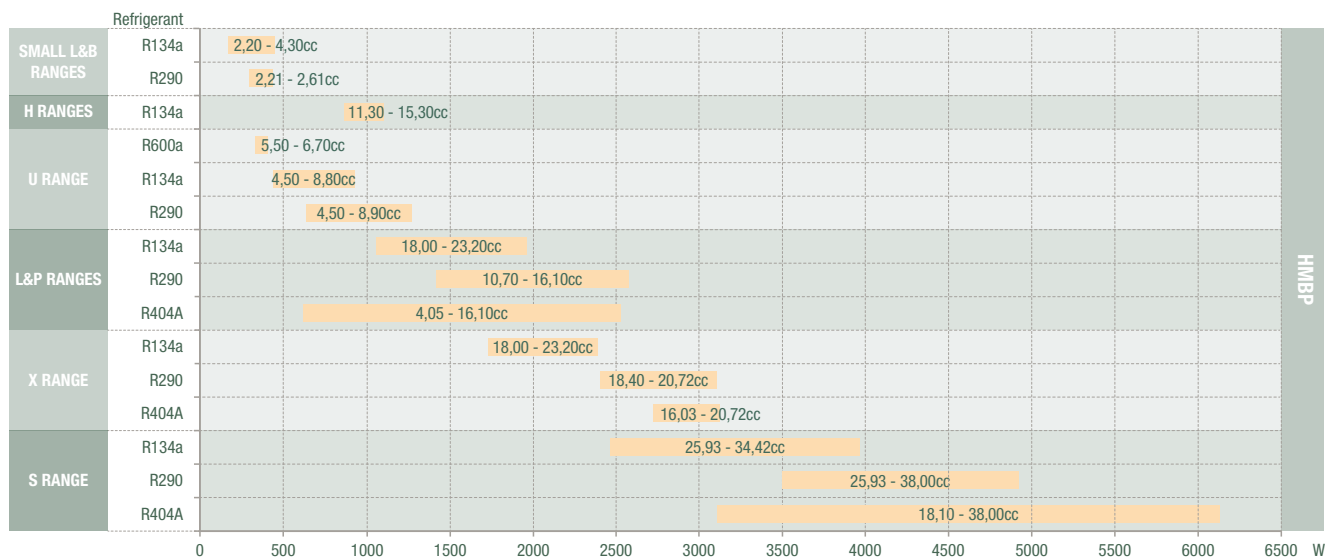
# 2.

## Compressor Information

## Compressors Ranges LBP



## Compressors Ranges HMBP



# Labels and Approvals

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

**cubigel** compressors **NPT18LA** ← Model  
 220-240 V-50 Hz ← PH1 Voltage  
 THERMALLY PROTECTED  
 Approvals  
 R290  
 MADE IN SPAIN  
 2  
 suction  
 9720657468000148 ← Production Date  
 Bar Code  
 Refrigerant

For Small L, B, HL & HK

**cubigel** compressors **B43H** ← Model  
 220-240~50Hz ← Voltage  
 THERMALLY PROTECTED  
 Approvals  
 R134a  
 B43H 16051600009 ← Bar Code  
 Refrigerant

For HY, HYE, HYB & HFY

**cubigel** compressors **HY81YG a** ← Model  
 220-240 V-50 Hz ← PH1 Voltage  
 THERMALLY PROTECTED  
 Approvals  
 R134a  
 suction  
 HY81YGa 1803190333 ← Bar Code  
 Refrigerant

Approvals



Directive compliance declarations



Flammable gases





# Nomenclature U, 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 - 14.2cm<sup>3</sup>  
**P** = 12.0 - 18.0cm<sup>3</sup>      **S** = 18.0 - 38.0cm<sup>3</sup>

Indicates energy efficiency level. Not appearing in case of Standard efficiency.  
**Blank** = Standard Efficiency  
**C** = Enhance Efficiency  
**M** = Medium  
**Y / G** = High Efficiency - Run Capacitor Optional RSIR/RSCR or CSIR/CSR  
**T** = Top Efficiency - Run Capacitor RSCR or CSR  
**S** = Super Efficiency - Run Capacitor Optional RSIR/RSCR or CSIR/CSRR

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

Indicates the starting torque, application type and compressor cooling:  
**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.

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

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

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

# Compressor Nomenclature Small L & B Ranges

model

B	35	C	5	B
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Indicates compressor range:

**L** --> **Small L** range

**B** --> **B** range

Indicates approximate compressor displacement under the following rule:

22 - 2.2cm<sup>3</sup>

25 - 2.5cm<sup>3</sup>

30 - 3.0cm<sup>3</sup>

**Indicates refrigerant and application:**

**H** = R134a LBP

**G** = R134a HBP

**C** = R600a LBP

**M** = R600a HBP

**Indicates the rated voltage:**

**Blank** = 220-240V 50Hz and 220-240V 60 Hz

**0** = 100V 50/60Hz

**5** = 115V 60Hz

**7** = 127V 60Hz

**Indicates efficiency level:**

**Blank** = Standard Efficiency

**B** = High Efficiency

**A** = Very High Efficiency

**S** = Top efficiency

model

N	B	C	30	R	A
---	---	---	----	---	---

R290 Models

**Indicates compressor range:**

**L** --> **Small L** range

**B** --> **B** range

Indicates electrical condiguration:

**C** --> Without Running Capacitor

**G** --> With Running Capacitor

Indicates approximate compressor displacement under the following rule:

22 - 2.2cm<sup>3</sup>

25 - 2.5cm<sup>3</sup>

30 - 3.0cm<sup>3</sup>

**Indicates application:**

**For R290 (Propane) Models:**

**C** = LBP – LST – Static

**N** = LMBP – HST – Static / Fan

**R** = HMBP – HST - Fan

**Indicates the rated voltage:**

**A** = 220-240V 50Hz

**R** = 115-127V 60Hz

# Nomenclature HY Ranges

model

<b>HY</b>	<b>E</b>	<b>55</b>	<b>Y</b>	<b>G</b>	<b>U</b>	<b>63</b>	<b>a</b>
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Indicates Huayi name  
**HY**

Indicates compressor range

**E** = 4.5 – 12.3cm<sup>3</sup>      **J** = 3.0 – 6.9cm<sup>3</sup>  
**B** = 2.5 – 9.6cm<sup>3</sup>      **S** = 4.5 – 12.5cm<sup>3</sup>  
**blank** = 6.9 – 15.3cm<sup>3</sup>

Indicates approximate compressor displacement under the following rule:  
 10 times the approx. displacement in cm<sup>3</sup>/rev (55 -> approx. 5.5 cm<sup>3</sup>/rev)

Indicates refrigerant.

Y = R134a  
 M = R600a

Indicates energy efficiency level.

Blank = Less than 1.30 W/W  
 Efficiency level H < G < K < T < S < X < D

Indicates following configuration:

U = concave-shaped valve plate, used only in R600a products.  
 J stands for the mini-products of extended range of HYB which are smaller than 5.0 cc in displacement, if the cop is below than 1.3, the letter J may be omitted.

Indicates the rated voltage:

Blank = 220-240V 50Hz  
 62 = 220-240V 60Hz  
 42 = 115V 60HZ  
 63 = 220-240V 50-60Hz  
 72 = 115-127V 60Hz  
 81 = 160-260V 50Hz  
 83 = 160-260V 50Hz / 220-240V 60Hz

Indicates winding material:

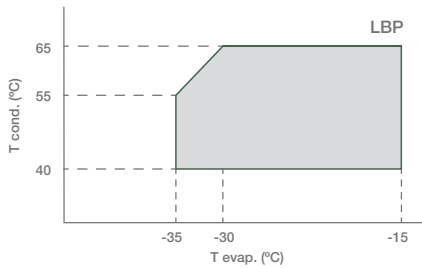
Blank = copper  
 a = aluminium

# SOA - Safe Operating Area

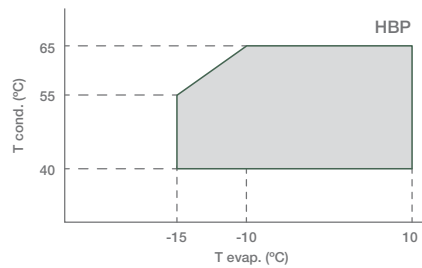
In order to grant the compressor reliability it is recommended that the point representing the operating conditions (suction and discharge pressures) falls within the shadowed area of the corresponding graph.

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

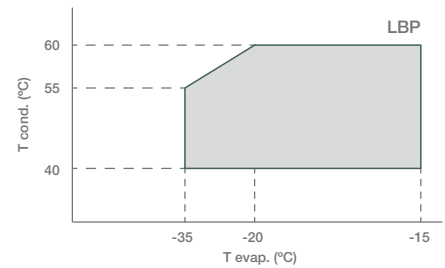
**SOA R134a LBP**



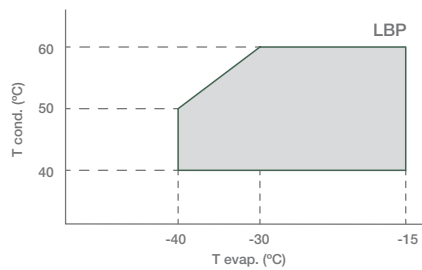
**SOA R134a HBP**



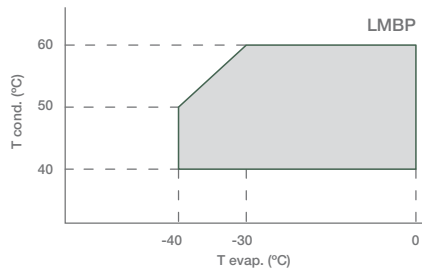
**SOA R600a LBP**



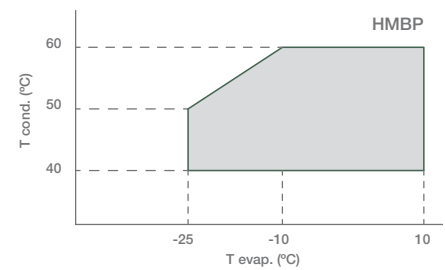
**SOA R290 LBP**



**SOA R290 LMBP**

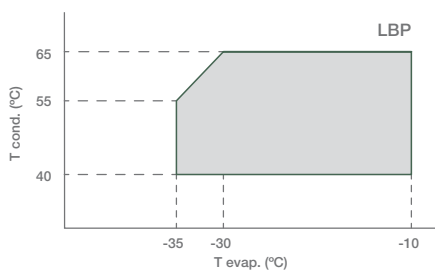


**SOA R290 HMBP**

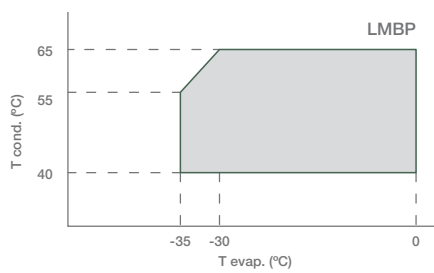


**For U, U+, L, P, X and S ranges**

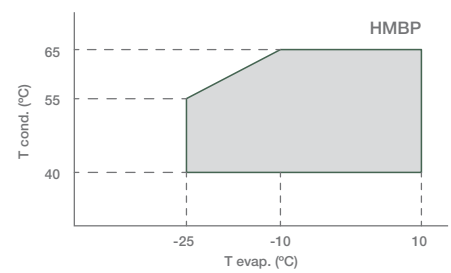
**SOA R134a LBP**



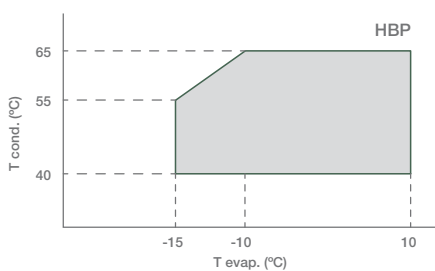
**SOA R134a LMBP**



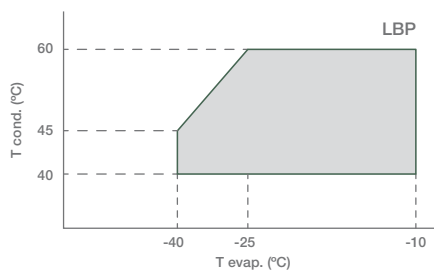
**SOA R134a HMBP**



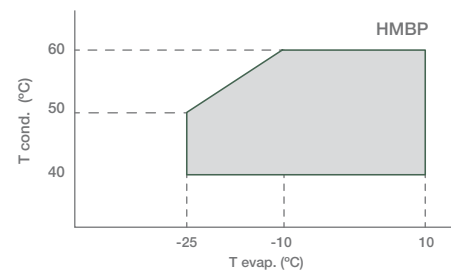
**SOA R134a HBP**



**SOA R404A LBP**

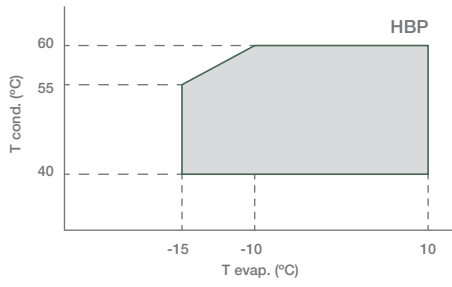


**SOA R404A HMBP**

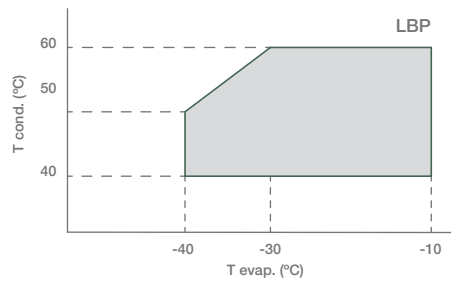




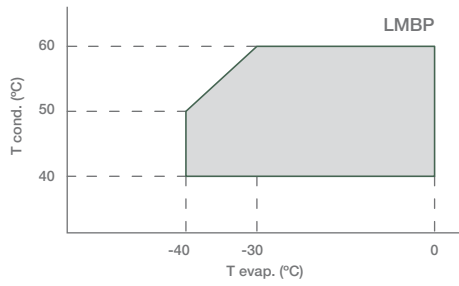
**SOA R404A HBP**



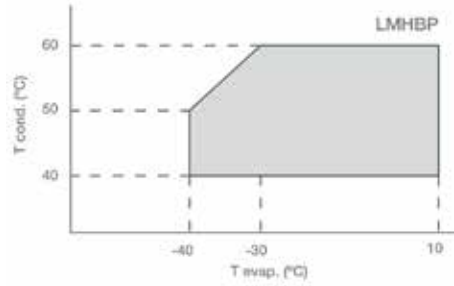
**SOA R290 LBP**



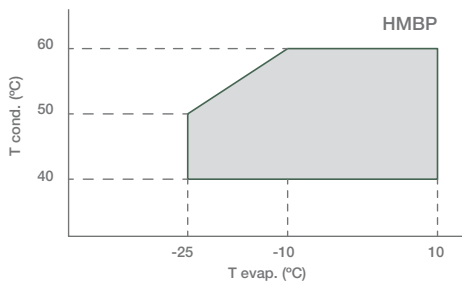
**SOA R290 LMBP**



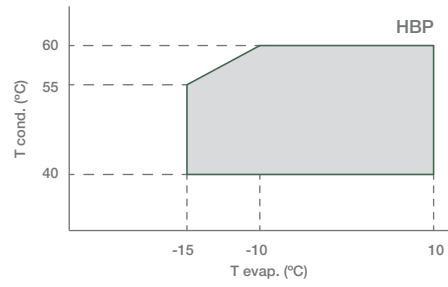
**SOA R290 LMHBP**



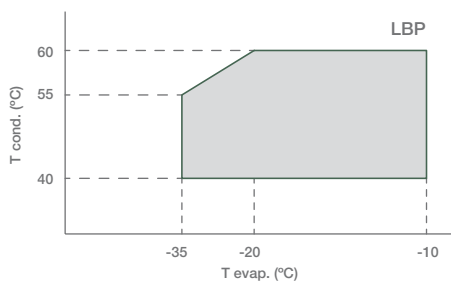
**SOA R290 HMBP**



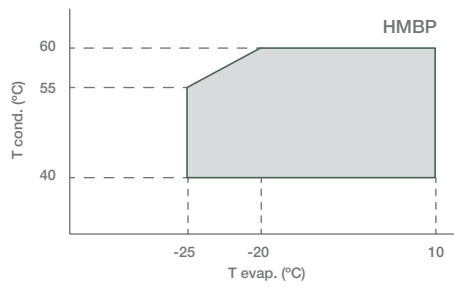
**SOA R290 HBP**



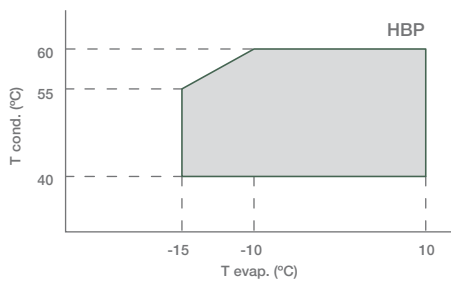
**SOA R600a LBP**



**SOA R600a HMBP**



**SOA R600a HBP**



# Types of Electrical Motors

## RSIR (Resistance Start-Induction Run)

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

## CSIR (Capacitor Start-Induction Run)

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

## RSCR (Resistance Start-Capacitor Run)

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

## CSR (Capacitor Start and Run)

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

### Single phase motor classification

Capacitor type	HST 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>
Without Running capacitor	Motor type: <b>CSIR</b>	Starting device: Current Relay	Motor type: <b>RSIR</b>	Starting device: <b>Current Relay or PTC</b>

### Type of starting device

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

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

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

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



















### Type of torque

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

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

# How to read this Catalogue

## Compressors

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







# 3.

Compressors  
Catalogue

**R290/R600a**

# R290 LBP • 50 Hz

# Natural Refrigerant

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN	
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C								
									Cecomaf (W)			Ashrae					
									-35	-30	-25	-10	-23.3	-23.3			
		W	COP		W	COP											
L14U	1.40	1/16	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	20	27	<b>37</b>	<b>0.61</b>	56	<b>51</b>	<b>0.80</b>	5.40	Lb
L22UL	2.20	1/14	LBP	S	220-240V 50Hz ~1	RSIR	P	C	37	51	<b>69</b>	<b>0.84</b>	101	<b>95</b>	<b>1.10</b>	5.40	Lb
NBC25CA	2.60	1/14	LMBP	S	220-240V 50Hz ~1	RSIR	P	C	40	56	<b>76</b>	<b>1.01</b>	159	<b>104</b>	<b>1.33</b>	5.46	Be
NBC30NG	3.10	1/12	LMBP	S/F	220-240V 50/60Hz ~1	CSIR	P	C-V	52	73	<b>98</b>	<b>1.06</b>	195	<b>135</b>	<b>1.39</b>	6.42	Bf
NBC35NA	3.50	1/12	LMBP	S	220-240V 50Hz ~1	RSIR	P	C	57	79	<b>106</b>	<b>1.04</b>	211	<b>143</b>	<b>1.35</b>	6.20	Bf
NBC41NA	4.10	1/8	LMBP	S	220-240V 50Hz ~1	CSIR	P	C-V	72	102	<b>136</b>	<b>0.99</b>	272	<b>185</b>	<b>1.29</b>	6.10	Bf
NUT40NA	4.00	1/8	LMBP	S/F	220-240V 50Hz ~1	RSCR	P	C	63	114	<b>148</b>	<b>1.29</b>	284	<b>190</b>	<b>1.72</b>	9.10	Ub
NUC45NGa	4.50	1/8	LMBP	F	200-220/230V 50/60Hz ~1	RSIR	P	C	68	120	<b>157</b>	<b>1.05</b>	304	<b>210</b>	<b>1.35</b>	9.10	Ub
NUC45NGb	4.50	1/8	LMBP	F	200-220/230V 50/60Hz ~1	RSCR	P	C	68	120	<b>157</b>	<b>1.10</b>	304	<b>210</b>	<b>1.43</b>	9.20	Ub
NUY45LAa	4.50	1/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	65	122	<b>159</b>	<b>1.21</b>	306	<b>214</b>	<b>1.57</b>	9.30	Ub
NUY45Lab	4.50	1/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	66	123	<b>161</b>	<b>1.26</b>	311	<b>216</b>	<b>1.64</b>	9.45	Ub
NUS45NA (*)	4.50	1/8	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	69	129	<b>169</b>	<b>1.44</b>	326	<b>225</b>	<b>1.88</b>	8.60	Ub
NUM55CAa	5.50	1/6	LBP	S/F	220-240V 50Hz ~1	RSIR	P	C	79	147	<b>193</b>	<b>1.11</b>	373	<b>260</b>	<b>1.45</b>	8.30	Ub
NUM55CAb	5.50	1/6	LMBP	S/F	220-240V 50Hz ~1	RSCR	P	C	79	147	<b>193</b>	<b>1.19</b>	373	<b>260</b>	<b>1.55</b>	8.30	Ub
NUM55CAc	5.50	1/6	LBP	S/F	220-240V 50Hz ~1	CSIR	R	C-V	79	147	<b>193</b>	<b>1.11</b>	373	<b>260</b>	<b>1.45</b>	8.30	Ub
NUM55CAd	5.50	1/6	LMBP	S/F	220-240V 50Hz ~1	CSR	R	C-V	79	147	<b>193</b>	<b>1.19</b>	373	<b>260</b>	<b>1.55</b>	8.30	Ub
NUT55CAa	5.50	1/6	LBP	F	220-240V 50Hz ~1	RSIR	P	C	88	152	<b>196</b>	<b>1.27</b>	382	<b>264</b>	<b>1.64</b>	9.10	Ub
NUT55CAb	5.50	1/6	LBP	F	220-240V 50Hz ~1	RSCR	P	C	88	152	<b>196</b>	<b>1.39</b>	382	<b>264</b>	<b>1.80</b>	9.21	Ub
NUT55CAc	5.50	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	88	152	<b>196</b>	<b>1.27</b>	382	<b>264</b>	<b>1.64</b>	9.10	Ub
NUT55CAD	5.50	1/6	LBP	S	220-240V 50Hz ~1	RSCR	P	C	88	152	<b>196</b>	<b>1.39</b>	382	<b>264</b>	<b>1.80</b>	9.21	Ub
NUT55CAe	5.50	1/6	LBP	F	220-240V 50Hz ~1	CSIR	P	C-V	88	152	<b>196</b>	<b>1.27</b>	382	<b>264</b>	<b>1.64</b>	9.10	Ub
NUT55NA	5.50	1/6	LMBP	S/F	220-240V 50Hz ~1	RSCR	P	C	100	176	<b>225</b>	<b>1.50</b>	417	<b>260</b>	<b>1.72</b>	9.10	Ub
NUC55NGa	5.50	1/6	LMBP	F	200-220/230V 50/60Hz ~1	RSIR	P	C	89	154	<b>198</b>	<b>1.04</b>	386	<b>265</b>	<b>1.35</b>	8.60	Ub
NUC55NGc	5.50	1/6	LMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	89	154	<b>198</b>	<b>1.04</b>	386	<b>265</b>	<b>1.35</b>	8.60	Ub
NUS55NA	5.50	1/6	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	79	147	<b>193</b>	<b>1.46</b>	373	<b>260</b>	<b>1.90</b>	9.10	Ub
NUM60CAa	6.00	1/6	LBP	S/F	220-240V 50Hz ~1	RSIR	P	C	98	170	<b>219</b>	<b>1.11</b>	427	<b>295</b>	<b>1.45</b>	8.30	Ub
NUM60CAb	6.00	1/6	LMBP	S/F	220-240V 50Hz ~1	RSCR	P	C	98	170	<b>219</b>	<b>1.19</b>	427	<b>295</b>	<b>1.55</b>	8.30	Ub
NUM60CAc	6.00	1/6	LBP	S/F	220-240V 50Hz ~1	CSIR	R	C-V	98	170	<b>219</b>	<b>1.11</b>	427	<b>295</b>	<b>1.45</b>	8.30	Ub
NUM60CAd	6.00	1/6	LMBP	S/F	220-240V 50Hz ~1	CSR	R	C-V	98	170	<b>219</b>	<b>1.19</b>	427	<b>295</b>	<b>1.55</b>	8.30	Ub
NUT60CAa	6.00	1/6	LBP	F	220-240V 50Hz ~1	RSIR	P	C	101	175	<b>226</b>	<b>1.30</b>	431	<b>304</b>	<b>1.68</b>	9.20	Ub
NUT60CAb	6.00	1/6	LBP	F	220-240V 50Hz ~1	RSCR	P	C	101	175	<b>226</b>	<b>1.41</b>	431	<b>304</b>	<b>1.82</b>	9.31	Ub
NUT60CAc	6.00	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	101	175	<b>226</b>	<b>1.30</b>	431	<b>304</b>	<b>1.68</b>	9.20	Ub
NUT60CAD	6.00	1/6	LBP	S	220-240V 50Hz ~1	RSCR	P	C	101	175	<b>226</b>	<b>1.41</b>	431	<b>304</b>	<b>1.82</b>	9.31	Ub
NUT60CAe	6.00	1/6	LBP	F	220-240V 50Hz ~1	CSIR	P	C-V	101	175	<b>226</b>	<b>1.30</b>	431	<b>304</b>	<b>1.68</b>	9.20	Ub
NUT60NA	6.00	1/6	LMBP	S/F	220-240V 50Hz ~1	RSCR	P	C	107	182	<b>232</b>	<b>1.30</b>	432	<b>295</b>	<b>1.72</b>	9.10	Ub
NUS60NA	6.00	1/6	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	98	170	<b>219</b>	<b>1.46</b>	427	<b>295</b>	<b>1.90</b>	9.31	Ub
NUY60NGa	6.00	1/6	LMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	125	164	<b>213</b>	<b>1.10</b>	411	<b>295</b>	<b>1.43</b>	9.40	Ud
NUY60NGb	6.00	1/6	LMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	127	168	<b>217</b>	<b>1.21</b>	416	<b>295</b>	<b>1.57</b>	9.50	Ud
NUY60NGd	6.00	1/6	LMBP	S	220-240V 50Hz ~1	CSR	R	C-V	118	158	<b>206</b>	<b>1.14</b>	405	<b>280</b>	<b>1.49</b>	9.50	Ud
NUM70CAa	6.70	1/5	LBP	F	220-240V 50Hz ~1	RSIR	P	C	103	186	<b>241</b>	<b>1.11</b>	462	<b>325</b>	<b>1.45</b>	8.60	Ub
NUM70CAb	6.70	1/5	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	103	186	<b>241</b>	<b>1.19</b>	462	<b>325</b>	<b>1.55</b>	8.60	Ub
NUM70CAc	6.70	1/5	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	103	186	<b>241</b>	<b>1.11</b>	462	<b>325</b>	<b>1.45</b>	8.60	Ub
NUM70CAD	6.70	1/5	LMBP	F	220-240V 50Hz ~1	CSR	R	C-V	103	186	<b>241</b>	<b>1.19</b>	462	<b>325</b>	<b>1.55</b>	8.60	Ub
NUT70CAa	6.70	1/5	LBP	F	220-240V 50Hz ~1	RSIR	P	C	109	195	<b>250</b>	<b>1.30</b>	463	<b>335</b>	<b>1.68</b>	9.20	Ub
NUT70CAb	6.70	1/5	LBP	F	220-240V 50Hz ~1	RSCR	P	C	109	195	<b>250</b>	<b>1.39</b>	463	<b>335</b>	<b>1.80</b>	9.41	Ub
NUT70CAc	6.70	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	109	195	<b>250</b>	<b>1.30</b>	463	<b>335</b>	<b>1.68</b>	9.20	Ub
NUT70CAD	6.70	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	109	195	<b>250</b>	<b>1.39</b>	463	<b>335</b>	<b>1.80</b>	9.41	Ub

Green Cooling Models









































(\*) Under development

This table continues in the following page

New Models

**R290 LBP • 50 Hz**

**Natural Refrigerant**

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY								WEIGHT Kg	DESIGN
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-40	-30	-25		-10	-23.3				
											W	COP		W	COP			
 NUT70CAe	6.70	1/5	LBP	F	220-240V 50Hz ~1	CSIR	P	C-V	109	195	<b>250</b>	<b>1.30</b>	463	<b>335</b>	<b>1.68</b>	9.20	Ub	
 NUT70NA	6.70	1/5	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	110	185	<b>238</b>	<b>1.31</b>	458	<b>325</b>	<b>1.72</b>	9.60	Ud	
 NUS70NA	6.70	1/5	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	107	187	<b>241</b>	<b>1.44</b>	463	<b>325</b>	<b>1.88</b>	9.20	Uc	
 NUC70NGa	6.70	1/5	LMBP	F	200-220/220-230V 50/60Hz ~1	RSIR	P	C	106	190	<b>243</b>	<b>1.09</b>	450	<b>325</b>	<b>1.41</b>	8.80	Ub	
 NUC70NGb	6.70	1/5	LMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	106	190	<b>243</b>	<b>1.16</b>	450	<b>325</b>	<b>1.50</b>	8.80	Ub	
 NUM80CA	8.10	1/4	LBP	F	220-240V 50Hz ~1	RSIR	P	C	139	238	<b>303</b>	<b>1.16</b>	560	<b>400</b>	<b>1.40</b>	8.60	Ud	
 NUM80LAa	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	134	231	<b>297</b>	<b>1.11</b>	561	<b>400</b>	<b>1.45</b>	8.80	Ub	
 NUM80LAb	8.10	1/4	LMBP	F	220-240V 50Hz ~1	CSR	R	C-V	134	231	<b>297</b>	<b>1.19</b>	561	<b>400</b>	<b>1.55</b>	8.80	Ub	
 NUT80NA	8.10	1/4	LMBP	F	220-240V 50Hz ~1	CSR	R	C-V	134	231	<b>297</b>	<b>1.31</b>	561	<b>400</b>	<b>1.70</b>	9.60	Ue	
 NUS80NA(*)	8.10	1/4	LMBP	F	220-240V 50Hz ~1	RSCR	R	C-V	134	231	<b>297</b>	<b>1.43</b>	561	<b>400</b>	<b>1.85</b>	9.60	Ue	
 NUY80NGa	8.10	1/4	LMBP	F	200-240/230V 50/60Hz ~1	CSIR	R	C-V	185	238	<b>303</b>	<b>1.13</b>	568	<b>405</b>	<b>1.46</b>	9.85	Ud	
 NUY80NGb	8.10	1/4	LMBP	F	200-240/230V 50/60Hz ~1	CSR	R	C-V	185	238	<b>303</b>	<b>1.21</b>	568	<b>405</b>	<b>1.56</b>	9.95	Ud	
 NUM90LA	8.90	1/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	155	261	<b>331</b>	<b>1.19</b>	609	<b>440</b>	<b>1.55</b>	9.30	Uc	
 NUY90CAa	8.90	1/4	LBP	F	220-240V 50Hz ~1	RSIR	P	C	157	267	<b>338</b>	<b>1.21</b>	614	<b>451</b>	<b>1.55</b>	9.30	Ub	
 NUY90CAb	8.90	1/4	LBP	F	220-240V 50Hz ~1	RSCR	P	C	158	270	<b>342</b>	<b>1.28</b>	625	<b>457</b>	<b>1.64</b>	9.40	Ub	
 NUY90LAa	8.90	1/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	157	267	<b>338</b>	<b>1.21</b>	614	<b>451</b>	<b>1.55</b>	9.40	Ub	
 NUY90LAb	8.90	1/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	158	270	<b>342</b>	<b>1.28</b>	625	<b>457</b>	<b>1.64</b>	9.50	Ub	
 NUM90NA	8.90	1/4	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	155	256	<b>327</b>	<b>1.17</b>	617	<b>430</b>	<b>1.50</b>	9.60	Ue	
 NUT90LA	8.90	1/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	159	262	<b>335</b>	<b>1.37</b>	631	<b>440</b>	<b>1.76</b>	9.60	Uc	
 NUT90NA	8.90	1/4	LMBP	F	220-240V 50Hz ~1	CSR	R	C-V	159	262	<b>335</b>	<b>1.33</b>	631	<b>440</b>	<b>1.70</b>	9.80	Ue	
 NUS90NA (*)	8.90	1/4	LMBP	F	220-240V 50Hz ~1	CSR	R	C-V	159	262	<b>335</b>	<b>1.42</b>	631	<b>440</b>	<b>1.85</b>	9.80	Ue	
 NUY90NGa	8.90	1/4	LMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	148	251	<b>322</b>	<b>1.12</b>	613	<b>430</b>	<b>1.45</b>	9.80	Ud	
 NUY90NGb	8.90	1/4	LMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	148	251	<b>322</b>	<b>1.21</b>	613	<b>430</b>	<b>1.55</b>	9.80	Ud	
 NUG100NA	10.50	1/4	LMBP	F	220-240V 50Hz ~1	CSR	R	C-V	208	279	362	1.20	695	488	1.56	12.40	Ue	
 NUG100NG	10.50	1/4	LMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	208	279	362	1.20	695	488	1.56	12.40	Ue	
 NUY120NAa	12.50	3/8	LMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	250	335	435	1.08	835	585	1.41	12.40	U+b	
 NUY120NAb	12.50	3/8	LMBP	F	220-240V 50Hz ~1	CSR	R	C-V	250	335	435	1.17	835	585	1.52	12.50	U+b	
 NUY120NGa (*)	12.50	3/8	LMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	250	335	435	1.08	835	585	1.41	12.40	U+b	
 NUY120NGb (*)	12.50	3/8	LMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	250	335	435	1.17	835	585	1.52	12.50	U+b	
 NUY140NAb	14.20	1/2	LMBP	F	220-240V 50Hz ~1	CSR	R	C-V	296	397	515	1.23	989	680	1.59	12.44	U+b	
 NUG140NGa (*)	14.20	1/2	LMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	288	386	501	1.10	962	670	1.41	12.34	U+b	
 NUG140NGb (*)	14.20	1/2	LMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	296	397	515	1.23	989	680	1.59	12.44	U+b	
 NPT16LA	16.15	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	254	440	564	1.16	1062	756	1.50	12.17	Pd	
 NPT18LA	18.00	2/3	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	269	473	611	1.13	1165	820	1.46	12.30	Pd	
 NX21FBa	20.72	2/3	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	267	517	675	1.11	1275	907	1.44	16.99	Xd	
 NX23FBa	23.20	3/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	297	572	746	1.09	1411	1003	1.41	16.75	Xd	
 NST26NA	25.93	3/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	370	537	743	1.14	1601	1018	1.49	21.60	Sd	
 NST30NG	29.95	7/8	LBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	456	649	890	1.03	1897	1215	1.35	21.80	Sd	
 NST34LA	34.42	1	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	657	878	1143	1.19	2210	1539	1.53	23.00	Sd	
 NST38NA	38.00	1 1/2	LMHBP	F	220-240V 50Hz ~1	CSR	R	C-V	734	1000	1315	1.18	2558	1774	1.53	23.00	Sd	
















































 Green Cooling Models

(\*) Under development

 New Models

# R290 LBP • 60 Hz

# Natural Refrigerant

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN	
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C								
									Cecomaf (W)			Ashrae					
									-35	-30	-25		-10	-23.3			
W	COP	W	COP														
 L14U	1.40	1/16	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	23	32	<b>44</b>	<b>0.80</b>	80	<b>60</b>	<b>1.05</b>	5.40	Lb
 L14U	1.40	1/16	LBP	S	115-127V 60Hz ~1	RSIR	P	C	23	32	<b>44</b>	<b>0.80</b>	80	<b>60</b>	<b>1.05</b>	5.40	Lb
 NBC30NR	3.10	1/12	LMBP	S/F	115-127V 60Hz ~1	CSIR	R	C-V	50	89	<b>118</b>	<b>1.07</b>	242	<b>159</b>	<b>1.40</b>	6.10	Bf
 NBC30NG	3.10	1/12	LMHBP	S/F	220-240V 50/60Hz ~1	CSIR	R	C-V	52	92	<b>122</b>	<b>1.10</b>	250	<b>165</b>	<b>1.42</b>	6.42	Bf
 NUT35NRa	3.50	1/12	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	61	107	<b>142</b>	<b>1.14</b>	290	<b>192</b>	<b>1.56</b>	9.12	Uc
 NUT35NRb	3.50	1/12	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	61	107	<b>142</b>	<b>1.21</b>	290	<b>192</b>	<b>1.61</b>	9.19	Uc
 NUT35NRc	3.50	1/12	LMBP	F	115-127V 60Hz ~1	RSIR	P	C	61	107	<b>142</b>	<b>1.14</b>	290	<b>192</b>	<b>1.56</b>	9.12	Uc
 NUT35NRd	3.50	1/12	LMBP	F	115-127V 60Hz ~1	RSCR	P	C	61	107	<b>142</b>	<b>1.21</b>	290	<b>192</b>	<b>1.61</b>	9.19	Uc
 NUT40NRa	4.00	1/8	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	72	128	<b>169</b>	<b>1.15</b>	347	<b>229</b>	<b>1.55</b>	9.15	Uc
 NUT40NRb	4.00	1/8	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	72	128	<b>169</b>	<b>1.23</b>	347	<b>229</b>	<b>1.65</b>	9.22	Uc
 NUT40NRc	4.00	1/8	LMBP	F	115-127V 60Hz ~1	RSIR	P	C	72	128	<b>169</b>	<b>1.23</b>	347	<b>229</b>	<b>1.55</b>	9.22	Uc
 NUT40NRd	4.00	1/8	LMBP	F	115-127V 60Hz ~1	RSCR	P	C	72	128	<b>169</b>	<b>1.23</b>	347	<b>229</b>	<b>1.65</b>	9.22	Uc
 NUY45NRa	4.50	1/8	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	76	136	<b>180</b>	<b>1.15</b>	363	<b>243</b>	<b>1.50</b>	9.12	Uc
 NUY45NRb	4.50	1/8	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	73	137	<b>182</b>	<b>1.23</b>	369	<b>247</b>	<b>1.60</b>	9.19	Uc
 NUT45NR	4.50	1/8	LMBP	F	115-127V 60Hz ~1	RSCR	P	C	77	144	<b>191</b>	<b>1.29</b>	389	<b>260</b>	<b>1.68</b>	9.40	Ud
 NUC45NGa	4.50	1/8	LMBP	F	200-220/230V 50/60Hz ~1	RSIR	P	C	75	141	<b>187</b>	<b>1.11</b>	381	<b>252</b>	<b>1.45</b>	9.11	Ub
 NUC45NGb	4.50	1/8	LMBP	F	200-220/230V 50/60Hz ~1	RSCR	P	C	75	141	<b>187</b>	<b>1.14</b>	381	<b>252</b>	<b>1.49</b>	9.21	Ub
 NUT55LRa	5.50	1/6	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	110	189	<b>243</b>	<b>1.24</b>	460	<b>331</b>	<b>1.60</b>	9.47	Uc
 NUT55LRb	5.50	1/6	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	110	193	<b>247</b>	<b>1.34</b>	463	<b>331</b>	<b>1.73</b>	9.54	Uc
 NUT55LRc	5.50	1/6	LBP	S	115-127V 60Hz ~1	CSIR	R	C-V	110	189	<b>243</b>	<b>1.24</b>	460	<b>331</b>	<b>1.60</b>	9.47	Uc
 NUT55LRd	5.50	1/6	LBP	S	115-127V 60Hz ~1	CSR	R	C-V	110	193	<b>247</b>	<b>1.34</b>	463	<b>331</b>	<b>1.73</b>	9.54	Uc
 NUT55NU	5.50	1/6	LMBP	F	220-240V 60Hz	RSCR	R	C	116	195	<b>250</b>	<b>1.29</b>	475	<b>325</b>	<b>1.70</b>	9.40	Ub
 NUY55NRa	5.50	1/6	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	105	184	<b>235</b>	<b>1.21</b>	441	<b>312</b>	<b>1.55</b>	9.10	Ub
 NUY55NRc	5.50	1/6	LMBP	S	115-127V 60Hz ~1	CSIR	R	C-V	105	184	<b>235</b>	<b>1.21</b>	441	<b>312</b>	<b>1.50</b>	9.10	Ub
 NUC55NGa	5.50	1/6	LMBP	F	200-220/230V 50/60Hz ~1	RSIR	P	C	106	186	<b>237</b>	<b>1.15</b>	445	<b>314</b>	<b>1.48</b>	8.60	Ub
 NUC55NGc	5.50	1/6	LMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	106	186	<b>237</b>	<b>1.15</b>	445	<b>314</b>	<b>1.48</b>	8.60	Ub
 NUT60LRa	6.00	1/6	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	122	207	<b>266</b>	<b>1.24</b>	508	<b>357</b>	<b>1.60</b>	9.40	Uc
 NUT60LRb	6.00	1/6	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	122	213	<b>273</b>	<b>1.34</b>	513	<b>366</b>	<b>1.73</b>	9.50	Uc
 NUT60LRc	6.00	1/6	LMBP	S	115-127V 60Hz ~1	CSIR	R	C-V	122	207	<b>266</b>	<b>1.24</b>	508	<b>357</b>	<b>1.60</b>	9.40	Uc
 NUT60LRd	6.00	1/6	LMBP	S	115-127V 60Hz ~1	CSR	R	C-V	122	213	<b>273</b>	<b>1.34</b>	513	<b>366</b>	<b>1.73</b>	9.50	Uc
 NUY60NGa	6.00	1/6	LMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	149	196	<b>253</b>	<b>1.14</b>	492	<b>340</b>	<b>1.48</b>	9.40	Ud
 NUY60NGb	6.00	1/6	LMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	149	196	<b>253</b>	<b>1.24</b>	492	<b>340</b>	<b>1.61</b>	9.50	Ud
 NUY60NGd	6.00	1/6	LMBP	S	220-240V 50Hz ~1	CSR	R	C-V	142	188	<b>244</b>	<b>1.18</b>	483	<b>330</b>	<b>1.54</b>	9.50	Ud
 NUY70NRa	6.70	1/5	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	129	231	<b>297</b>	<b>1.22</b>	551	<b>398</b>	<b>1.57</b>	9.40	Uc
 NUY70NRb	6.70	1/5	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	129	231	<b>297</b>	<b>1.30</b>	551	<b>398</b>	<b>1.68</b>	9.40	Uc
 NUY70NRc	6.70	1/5	LMBP	S	115-127V 60Hz ~1	CSIR	R	C-V	129	231	<b>297</b>	<b>1.22</b>	551	<b>398</b>	<b>1.57</b>	9.40	Uc
 NUY70NRd	6.70	1/5	LMBP	S	115-127V 60Hz ~1	CSR	R	C-V	129	231	<b>297</b>	<b>1.30</b>	551	<b>398</b>	<b>1.68</b>	9.40	Uc
 NUC70NGa	6.70	1/5	LMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	127	228	<b>294</b>	<b>1.17</b>	542	<b>393</b>	<b>1.51</b>	8.95	Uc
 NUC70NGb	6.70	1/5	LMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	127	228	<b>294</b>	<b>1.23</b>	542	<b>393</b>	<b>1.58</b>	8.95	Uc
 NUY80NRa	8.10	1/4	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	154	272	<b>363</b>	<b>1.29</b>	703	<b>476</b>	<b>1.58</b>	9.30	Uc
 NUY80NRb	8.10	1/4	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	154	272	<b>363</b>	<b>1.37</b>	703	<b>476</b>	<b>1.67</b>	9.30	Uc
 NUY80NGa	8.10	1/4	LMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	223	286	<b>363</b>	<b>1.24</b>	673	<b>485</b>	<b>1.50</b>	9.85	Ud
 NUY80NGb	8.10	1/4	LMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	223	286	<b>363</b>	<b>1.32</b>	673	<b>485</b>	<b>1.60</b>	9.95	Ud
 NUY90NRa	8.90	1/4	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	167	300	<b>391</b>	<b>1.21</b>	767	<b>528</b>	<b>1.55</b>	9.40	Uc
 NUY90NRb	8.90	1/4	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	167	300	<b>391</b>	<b>1.29</b>	767	<b>528</b>	<b>1.65</b>	9.40	Uc
 NUT90LR	8.90	1/4	LBP	F	115-127V/60Hz	CSR	R	C-V	167	300	<b>391</b>	<b>1.34</b>	767	<b>528</b>	<b>1.72</b>	9.50	Uc
 NUY90Lfa	8.90	1/4	LMBP	F	208-230V 60Hz ~1	CSIR	R	C-V	168	297	<b>383</b>	<b>1.10</b>	724	<b>514</b>	<b>1.42</b>	9.28	Uc




















 Green Cooling Models

 New Models



## R290 LBP • 60 Hz

## Natural Refrigerant

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN	
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C								
									Cecomaf (W)			Ashrae					
									-35	-30	-25		-10	-23.3			
W	COP	W	COP														
 NUY90NGa	8.90	1/4	LMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	148	251	<b>322</b>	<b>1.03</b>	613	<b>510</b>	<b>1.50</b>	9.80	Ud
 NUY90NGb	8.90	1/4	LMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	148	251	<b>322</b>	<b>1.21</b>	613	<b>510</b>	<b>1.60</b>	9.80	Ud
 NUG100NG	9.50	1/4	LMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	165	281	<b>360</b>	<b>1.30</b>	685	<b>570</b>	<b>1.65</b>	9.65	Ue
 NUY100NR	9.50	1/4	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	165	281	<b>360</b>	<b>1.30</b>	685	<b>570</b>	<b>1.65</b>	9.65	Ue
 NUT100NR (*)	9.50	1/4	LMBP	F	115-127V 60Hz ~1	RSCR	R	C	172	293	<b>376</b>	<b>1.34</b>	715	<b>595</b>	<b>1.70</b>	9.65	Ue
 NPY12LRa	12.10	3/8	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	199	362	<b>473</b>	<b>1.04</b>	927	<b>637</b>	<b>1.35</b>	11.77	Pd
 NPY12LRb	12.10	3/8	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	199	362	<b>473</b>	<b>1.11</b>	927	<b>637</b>	<b>1.44</b>	11.87	Pd
 NUY120NGa (*)	12.50	3/8	LMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	203	345	<b>442</b>	<b>1.23</b>	841	<b>700</b>	<b>1.55</b>	12.40	U+b
 NUY120NGb (*)	12.50	3/8	LMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	203	345	<b>442</b>	<b>1.30</b>	841	<b>700</b>	<b>1.65</b>	12.50	U+b
 NUY120NRa (*)	12.50	3/8	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	203	345	<b>442</b>	<b>1.23</b>	841	<b>700</b>	<b>1.55</b>	12.40	U+b
 NUY120NRb (*)	12.50	3/8	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	203	345	<b>442</b>	<b>1.30</b>	841	<b>700</b>	<b>1.65</b>	12.50	U+b
 NPT14ND	14.32	1/2	LMBP	F	115V 60Hz ~1	CSR	R	C-V	251	434	<b>562</b>	<b>1.08</b>	1095	<b>756</b>	<b>1.40</b>	12.20	Pd
 NPY14LFa	14.32	1/2	LBP	F	208-230V 60Hz ~1	CSIR	R	C-V	269	466	<b>603</b>	<b>1.04</b>	1175	<b>812</b>	<b>1.34</b>	12.19	Pd
 NPY14LFb	14.32	1/2	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	269	466	<b>603</b>	<b>1.09</b>	1175	<b>812</b>	<b>1.42</b>	12.29	Pd
 NUG140NGa (*)	14.20	1/2	LMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	238	404	<b>518</b>	<b>1.23</b>	820	<b>820</b>	<b>1.55</b>	12.34	U+b
 NUG140NGb (*)	14.20	1/2	LMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	238	404	<b>518</b>	<b>1.30</b>	820	<b>820</b>	<b>1.65</b>	12.44	U+b
 NPT16LR	16.10	1/2	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	288	492	<b>637</b>	<b>1.10</b>	1244	<b>857</b>	<b>1.42</b>	12.70	Pd
 NPT16NF	16.10	1/2	LMBP	F	208-230V 60Hz ~1	CSR	R	C-V	381	498	<b>644</b>	<b>1.07</b>	1253	<b>866</b>	<b>1.39</b>	12.15	Pd
 NST30NG	29.95	7/8	LBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	527	755	<b>1041</b>	<b>1.05</b>	2250	<b>1425</b>	<b>1.37</b>	21.80	Sd
















 Green Cooling Models

(\*) Under development

 New Models

## R290 HMBP | HBP • 50 Hz








## Natural Refrigerant

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN	
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C								
									Cecomaf (W)			Ashrae					
									-25	-15	5		10	7.2			
W	COP	W	COP														
 NBC22RA	2.20	1/120	HMBP	F	220-240V 50/60Hz ~1	CSIR	R	C-V	54	93	<b>222</b>	<b>1.87</b>	264	<b>265</b>	<b>2.21</b>	5.20	Bc
 NBC30RA	3.10	1/12	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	100	157	<b>354</b>	<b>2.21</b>	421	<b>423</b>	<b>2.61</b>	5.80	Be
 NUY45RAa	4.50	1/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	142	231	<b>516</b>	<b>2.36</b>	610	<b>615</b>	<b>2.77</b>	9.30	Ub
 NUY60RAa	6.00	1/6	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	208	328	<b>714</b>	<b>2.32</b>	841	<b>850</b>	<b>2.72</b>	9.48	Ub
 NUY70RAa	6.70	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	248	382	<b>817</b>	<b>2.34</b>	961	<b>972</b>	<b>2.75</b>	9.60	Ub
 NUY80RAa	8.10	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	287	456	<b>931</b>	<b>2.21</b>	1078	<b>1100</b>	<b>2.60</b>	9.43	Ub
 NUY90RAa	8.90	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	290	461	<b>1045</b>	<b>2.25</b>	1240	<b>1247</b>	<b>2.50</b>	9.80	Ue
 NUY90RAb	8.90	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	290	461	<b>1045</b>	<b>2.25</b>	1240	<b>1247</b>	<b>2.70</b>	9.80	Ue
 NLY12RAa	10.70	1/3	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	379	584	<b>1224</b>	<b>2.06</b>	1432	<b>1453</b>	<b>2.41</b>	11.44	Ld
 NLY12RAb	10.70	1/3	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	379	597	<b>1249</b>	<b>2.28</b>	1457	<b>1480</b>	<b>2.66</b>	11.54	Ld
 NLY12RGa	10.70	1/3	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	341	553	<b>1217</b>	<b>2.03</b>	1432	<b>1448</b>	<b>2.39</b>	12.14	Ld
 NLY12RGb	10.70	1/3	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	355	554	<b>1226</b>	<b>2.20</b>	1450	<b>1462</b>	<b>2.58</b>	12.24	Ld
 NPY12RAa	12.10	3/8	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	635	<b>1460</b>	<b>2.08</b>	1735	<b>1745</b>	<b>2.45</b>	12.16	Pd
 NPY12RAb	12.10	3/8	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	635	<b>1460</b>	<b>2.28</b>	1735	<b>1745</b>	<b>2.70</b>	12.26	Pd
 NPT14RA	14.32	1/2	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	763	<b>1709</b>	<b>2.26</b>	2085	<b>2065</b>	<b>2.69</b>	12.25	Pd

 Green Cooling Models

## R290 HMBP | HBP • 50 Hz

## Natural Refrigerant









MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY								WEIGHT Kg	DESIGN
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-25	-15	5		10	7.2				
											W	COP		W	COP			
 NPT16RA	16.10	1/2	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	853	<b>1911</b>	<b>2.18</b>	2331	<b>2310</b>	<b>2.55</b>	12.34	Pd	
 NX18TBa	18.40	2/3	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	511	852	<b>2039</b>	<b>2.22</b>	2440	<b>2445</b>	<b>2.61</b>	16.14	Xd	
 NX21TBa	20.72	2/3	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	601	973	<b>2267</b>	<b>2.18</b>	2705	<b>2714</b>	<b>2.55</b>	16.09	Xd	
 NX21TGa	20.72	2/3	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	601	975	<b>1085</b>	<b>2.06</b>	2661	<b>2675</b>	<b>2.41</b>	16.20	Xd	
 NST26RA	25.93	3/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	728	1264	<b>2931</b>	<b>2.40</b>	3472	<b>3498</b>	<b>2.82</b>	22.00	Sd	
 NST34RA	34.42	1	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	1822	<b>4010</b>	<b>2.28</b>	4752	<b>4786</b>	<b>2.67</b>	21.10	Sd	
 NST38NA	38.00	1.5	LMHBP	F	220-240V 50Hz ~1	CSR	R	C-V	1095	2003	<b>4409</b>	<b>2.06</b>	5225	<b>5262</b>	<b>2.40</b>	22.20	Sd	

 Green Cooling Models

 New Models

## R290 HMBP | HBP • 60 Hz

























## Natural Refrigerant

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY								WEIGHT Kg	DESIGN
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-25	-15	5		10	7.2				
											W	COP		W	COP			
 NBC22RA	2.20	1/12	HMBP	F	220-240V 50/60Hz ~1	CSIR	R	C-V	54	93	<b>222</b>	<b>1.87</b>	264	<b>265</b>	<b>2.21</b>	5.20	Bc	
 NBC22RA	2.20	1/12	HMBP	F	220-240V 50/60Hz ~1	CSIR	R	C-V	63	110	<b>262</b>	<b>2.03</b>	311	<b>313</b>	<b>2.39</b>	5.20	Bc	
 NLT12RR	10.70	1/3	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	424	691	<b>1501</b>	<b>2.15</b>	1761	<b>1784</b>	<b>2.51</b>	11.91	Ld	
 NLY12RGa	10.70	1/3	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	418	669	<b>1445</b>	<b>2.07</b>	1696	<b>1718</b>	<b>2.41</b>	12.14	Ld	
 NLY12RGb	10.70	1/3	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	429	679	<b>1469</b>	<b>2.25</b>	1727	<b>1747</b>	<b>2.63</b>	12.24	Ld	
 NPT14RR	14.32	1/2	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	590	938	<b>1987</b>	<b>2.20</b>	2323	<b>2360</b>	<b>2.60</b>	13.35	Pd	
 NPT16RR	16.15	1/2	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	629	963	<b>2204</b>	<b>2.11</b>	2633	<b>2570</b>	<b>2.45</b>	13.74	Pe	
 NX21TGa	20.72	2/3	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	694	1181	<b>2638</b>	<b>2.02</b>	3102	<b>3138</b>	<b>2.34</b>	16.20	Xd	

 Green Cooling Models

R600a LBP • 50 Hz

Natural Refrigerant





















MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY								WEIGHT Kg	DESIGN
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-35	-30	-25		-10	-23.3				
											W	COP		W	COP			
 L22CL	2.20	1/20	LBP	S	220-240V 50Hz ~1	RSIR	P	C	13	18	<b>23</b>	<b>0.67</b>	46	<b>30</b>	<b>0.85</b>	3.60	Lb	
 L30CL	3.10	1/12	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	21	28	<b>37</b>	<b>0.77</b>	78	<b>48</b>	<b>0.98</b>	3.80	Lc	
 HL30NA	3.10	1/12	LMBP	S	220-240V 50Hz ~1	RSCR	P	C	21	28	<b>37</b>	<b>1.10</b>	79	<b>48</b>	<b>1.43</b>	4.50	HLb	
 HYB35MHJa	3.50	1/12	LBP	S	220-240V 50Hz ~1	RSIR	P	C	23	31	<b>41</b>	<b>1.07</b>	86	<b>55</b>	<b>1.35</b>	4.70	HYBc	
 HYB35MGJa	3.50	1/12	LBP	S	220-240V 50Hz ~1	RSCR	P	C	23	31	<b>41</b>	<b>1.20</b>	86	<b>55</b>	<b>1.52</b>	5.00	HYBc	
 HL35NA	3.50	1/12	LMBP	S	220-240V 50Hz ~1	RSCR	P	C	23	31	<b>41</b>	<b>1.10</b>	78	<b>56</b>	<b>1.43</b>	4.90	HLb	
 HYB40MJa	4.00	1/10	LBP	S	220-240V 50Hz ~1	RSIR	P	C	27	36	<b>48</b>	<b>0.91</b>	91	<b>65</b>	<b>1.15</b>	4.40	HYBc	
 HYB40MHJa	4.00	1/10	LBP	S	220-240V 50Hz ~1	RSIR	P	C	27	36	<b>48</b>	<b>1.05</b>	91	<b>65</b>	<b>1.33</b>	4.70	HYBd	
 B43CB	4.30	1/10	LBP	S	220-240V 50Hz ~1	RSIR	P	C	29	39	<b>51</b>	<b>0.90</b>	108	<b>69</b>	<b>1.15</b>	4.60	Bc	
 B43CB	4.30	1/10	LBP	S	220-240V 50Hz ~1	RSCR	P	C	29	39	<b>51</b>	<b>1.02</b>	108	<b>69</b>	<b>1.30</b>	4.60	Bc	
 HK48NA	4.80	1/8	LMBP	S	220-240V 50Hz ~1	RSCR	P	C	30	41	<b>53</b>	<b>1.10</b>	112	<b>73</b>	<b>1.43</b>	5.20	HKb	
 HYB50MHJa	5.00	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	32	43	<b>56</b>	<b>1.03</b>	119	<b>75</b>	<b>1.30</b>	4.70	HYBd	
 HYB50MGJa	5.00	1/8	LBP	S	220-240V 50Hz ~1	RSCR	P	C	35	47	<b>61</b>	<b>1.21</b>	129	<b>82</b>	<b>1.53</b>	5.00	HYBd	
 B52CL	5.20	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	33	44	<b>58</b>	<b>0.90</b>	123	<b>78</b>	<b>1.20</b>	4.60	Bc	
 B52CL	5.20	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	33	44	<b>58</b>	<b>1.10</b>	123	<b>78</b>	<b>1.42</b>	5.20	Bd	
 HYB60MHU	6.00	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	43	57	<b>75</b>	<b>1.07</b>	159	<b>100</b>	<b>1.35</b>	5.30	HYBe	
 HYB60MKJa	6.00	1/6	LBP	S	220-240V 50Hz ~1	RSCR	P	C	43	57	<b>75</b>	<b>1.31</b>	159	<b>100</b>	<b>1.65</b>	6.20	HYBf	
 HYB69MKJa	6.90	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	57	77	<b>101</b>	<b>1.31</b>	214	<b>118</b>	<b>1.65</b>	6.30	HYBf	
 HYB81MGJa	8.10	1/4	LBP	S	220-240V 50Hz ~1	RSCR	P	C	64	86	<b>113</b>	<b>1.17</b>	239	<b>140</b>	<b>1.53</b>	6.90	HYEb	
 HYB90MKJa	8.90	1/4	LBP	S	220-240V 50Hz ~1	RSCR	P	C	72	93	<b>123</b>	<b>1.27</b>	265	<b>152</b>	<b>1.65</b>	9.30	HYEb	
 HYE105MKJa	10.50	1/4	LBP	S	220-240V 50Hz ~1	RSCR	P	C	79	106	<b>140</b>	<b>1.26</b>	294	<b>185</b>	<b>1.60</b>	8.80	HYEb	
 HYE113MKJa	11.30	3/8	LBP	S	220-240V 50Hz ~1	RSCR	P	C	85	115	<b>150</b>	<b>1.30</b>	318	<b>200</b>	<b>1.65</b>	8.50	HYEb	
 HYE125MSJa	12.30	3/8	LBP	S	220-240V 50Hz ~1	RSCR	P	C	93	125	<b>164</b>	<b>1.49</b>	347	<b>218</b>	<b>1.89</b>	9.30	HYEb	
 HYE131MKJa	13.10	1/2	LBP	S	220-240V 50Hz ~1	RSCR	P	C	101	135	<b>177</b>	<b>1.29</b>	375	<b>235</b>	<b>1.63</b>	9.10	HYEd	

 Green Cooling Models

 New Models





## R600a LBP • 60 Hz

## Natural Refrigerant

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN	
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C								
									Cecomaf (W)			Ashrae					
									-35	-30	-25		-10	-23.3			
W	COP	W	COP														
 L22C5L	2.20	1/20	LBP	S	110-120V 60Hz ~1	RSIR	P	C	16	22	<b>30</b>	<b>0.86</b>	63	<b>40</b>	<b>1.10</b>	3.60	Lb
 L30CL	3.10	1/12	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	22	30	<b>41</b>	<b>0.86</b>	86	<b>55</b>	<b>1.10</b>	3.60	Lc
 B35C	3.50	1/12	LBP	S	220V 60Hz ~1	RSIR	P	C	24	33	<b>45</b>	<b>0.93</b>	94	<b>60</b>	<b>1.18</b>	4.60	Bc
 B35C5B	3.50	1/12	LBP	S	110-115 60Hz ~1	RSIR	P	C	26	36	<b>49</b>	<b>0.94</b>	403	<b>65</b>	<b>1.20</b>	4.60	Bc
 HYB35MHJ42a	3.50	1/12	LBP	ST	115V 60Hz~1	RSIR	P	C	26	36	<b>49</b>	<b>1.04</b>	104	<b>65</b>	<b>1.32</b>	4.26	HYBb
 B43CB	4.30	1/10	LBP	S	220-240V 60Hz ~1	RSIR	P	C	28	38	<b>52</b>	<b>0.98</b>	109	<b>70</b>	<b>1.25</b>	4.60	Bc
 B43C5B	4.30	1/10	LBP	S	110-115V 60Hz ~1	RSIR	P	C	31	43	<b>58</b>	<b>1.02</b>	121	<b>78</b>	<b>1.30</b>	4.60	Bc
 HYB40MHJ42a	4.00	1/10	LBP	ST	115V 60Hz ~1	RSIR	P	C	30	42	<b>57</b>	<b>1.06</b>	120	<b>76</b>	<b>1.35</b>	4.70	HYBd
 B52C5BL	5.20	1/8	LBP	S	110-120V 60Hz ~1	RSCR	P	C	38	53	<b>72</b>	<b>1.18</b>	149	<b>95</b>	<b>1.50</b>	5.20	Be
 HYB50MGU72a	5.00	1/8	LBP	ST	115-127V 60Hz ~1	RSCR	P	C	38	53	<b>72</b>	<b>1.25</b>	152	<b>96</b>	<b>1.58</b>	5.80	HYBf
 B60CBL	6.00	1/6	LBP	S	220-240V 60Hz ~1	RSIR	P	C	44	61	<b>83</b>	<b>1.03</b>	174	<b>110</b>	<b>1.30</b>	4.60	Bc
 HYB60MGU72a	6.00	1/5	LBP	ST	115-127V 60Hz ~1	RSCR	P	C	47	66	<b>90</b>	<b>1.25</b>	190	<b>120</b>	<b>1.58</b>	5.80	HYBf
 HYS67MGU72a	6.70	1/5	LBP	ST	115-127V 60Hz ~1	RSCR	P	C	48	73	<b>102</b>	<b>1.22</b>	212	<b>136</b>	<b>1.55</b>	6.60	HYSd
 HYS67MKU62a	6.70	1/5	LBP	ST	220-240V 60Hz ~1	RSCR	P	C	48	73	<b>102</b>	<b>1.30</b>	212	<b>136</b>	<b>1.65</b>	6.80	HYSd
 HYS69MKU42a	6.90	1/4	LBP	ST	115V 60Hz ~1	RSCR	P	C	51	78	<b>109</b>	<b>1.30</b>	227	<b>145</b>	<b>1.65</b>	6.80	HYSd
 HYE81MSU42	8.10	1/4	LBP	ST	115V 60Hz ~1	RSCR	P	C	65	94	<b>128</b>	<b>1.42</b>	257	<b>170</b>	<b>1.80</b>	9.00	HYEb
 HYE90MSU72a	9.00	1/4	LBP	ST	115-127V 60Hz ~1	RSCR	P	C	70	102	<b>139</b>	<b>1.34</b>	279	<b>185</b>	<b>1.70</b>	8.30	HYSd
 HYE90MXU63	8.90	1/4	LBP	ST	220-240V 50/60Hz ~1	RSCR	P	C	70	102	<b>139</b>	<b>1.48</b>	279	<b>185</b>	<b>1.88</b>	9.40	HYSd
 HYS96MTU72a	9.60	1/4	LBP	ST	115-127V 60Hz ~1	RSCR	P	C	67	102	<b>143</b>	<b>1.34</b>	297	<b>190</b>	<b>1.70</b>	7.10	HYSd
 HYS105MTR	10.50	3/8	LBP	ST	115-127V 60Hz ~1	RSCR	P	C	74	113	<b>158</b>	<b>1.36</b>	329	<b>210</b>	<b>1.72</b>	7.30	HYSd

## R600a HMBP | HBP • 50 Hz

## Natural Refrigerant

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN	
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C								
									Cecomaf (W)			Ashrae					
									-25	-15	-5		-10	7.2			
W	COP	W	COP														
 HFY55MA	5.50	1/6	HMBP	S	220-240V 50Hz ~1	RSIR	P	C	64	110	<b>273</b>	<b>2.38</b>	327	<b>325</b>	<b>2.75</b>	7.10	HFYb
 HUY55MAb	5.50	1/6	HMBP	S	220-240V 50Hz ~1	RSCR	P	C	64	110	<b>272</b>	<b>2.58</b>	327	<b>323</b>	<b>2.99</b>	9.05	Ub
 HFY70MA	6.70	1/6	HMBP	S	220-240V 50Hz ~1	RSIR	P	C	80	137	<b>338</b>	<b>2.37</b>	406	<b>395</b>	<b>2.75</b>	7.10	HFYb
 HUY70MAb	6.70	1/5	HMBP	S	220-240V 50Hz ~1	RSCR	P	C	80	137	<b>338</b>	<b>2.59</b>	406	<b>401</b>	<b>2.99</b>	9.01	Ub

 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

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)

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# 3.

Compressors  
Catalogue

**R134a**

# R134a LBP | LMBP • 50 Hz

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY								WEIGHT Kg	DESIGN
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-35	-30	-25		-10	-23.3				
											W	COP		W	COP			
L22HL	2.20	1/20	LBP	S	220-240V 50Hz ~1	RSIR	P	C	16	24	<b>34</b>	<b>0.63</b>	75	<b>47</b>	<b>0.82</b>	3.70	Lb	
▲ HYB25YJ63a	2.50	1/12	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	20	33	<b>47</b>	<b>0.73</b>	101	<b>65</b>	<b>0.95</b>	4.26	HYBb	
▲ HYB30YJ63a	3.00	1/12	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	33	46	<b>57</b>	<b>0.73</b>	132	<b>78</b>	<b>0.95</b>	4.26	HYBb	
L30HL	3.10	1/12	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	23	35	<b>49</b>	<b>0.69</b>	108	<b>67</b>	<b>0.90</b>	4.20	Lc	
▲ HYB35YJ63a	3.50	1/10	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	37	52	<b>66</b>	<b>0.73</b>	146	<b>90</b>	<b>0.95</b>	4.62	HYBc	
B38H	3.80	1/12	LBP	S/F	220-240V 50Hz ~1	RSIR	P	C	30	45	<b>63</b>	<b>0.73</b>	139	<b>86</b>	<b>0.95</b>	4.60	Bc	
▲ HYB41YK63a	4.10	1/8	LBP	S	220-240V 50/60Hz ~1	RSCR	P	C	39	57	<b>80</b>	<b>1.11</b>	177	<b>110</b>	<b>1.40</b>	6.00	HYBf	
B43H	4.30	1/10	LBP	S/F	220-240V 50/60Hz ~1	RSIR	P	C	34	50	<b>71</b>	<b>0.77</b>	156	<b>97</b>	<b>1.00</b>	5.40	Bd	
B43HB	4.30	1/10	LBP	S	220-240V 50Hz ~1	RSCR	P	C	35	51	<b>72</b>	<b>0.92</b>	158	<b>98</b>	<b>1.20</b>	5.00	Bd	
▲ HYS45YH81a	4.50	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	44	61	<b>91</b>	<b>1.00</b>	196	<b>125</b>	<b>1.30</b>	7.10	HYSd	
B48H	4.80	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	38	56	<b>79</b>	<b>0.81</b>	174	<b>108</b>	<b>1.05</b>	5.00	Bb	
▲ HYS55YCA	5.50	1/6	LBP	S	220-240V/50Hz	RSIR	P	C	60	84	<b>117</b>	<b>1.04</b>	246	<b>160</b>	<b>1.35</b>	6.30	HYSe	
▲ HYE55YL63	5.50	1/6	LBP	S	220-240V 50/60Hz ~1	RSCR	P	C	59	83	<b>116</b>	<b>0.86</b>	243	<b>155</b>	<b>1.15</b>	7.90	HYEf	
▲ HYE60YL63	6.00	1/6	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	68	94	<b>130</b>	<b>0.86</b>	263	<b>174</b>	<b>1.10</b>	8.30	HYEf	
▲ HYS60YCA	6.00	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	66	91	<b>128</b>	<b>1.04</b>	258	<b>175</b>	<b>1.35</b>	6.60	HYSe	
▲ HYE69YL63	6.70	1/6	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	78	108	<b>141</b>	<b>0.99</b>	301	<b>190</b>	<b>1.15</b>	8.30	HYEd	
▲ HYE69YL	6.70	1/5	LBP	S	220-240V/50Hz	RSIR	P	C	78	108	<b>141</b>	<b>0.94</b>	301	<b>190</b>	<b>1.20</b>	8.50	HYEb	
▲ HYS69YCA	6.70	1/5	LBP	S	220-240V/50Hz	RSIR	P	C	79	110	<b>142</b>	<b>1.04</b>	303	<b>195</b>	<b>1.35</b>	6.80	HYSd	
▲ HYE81Ya	8.10	1/4	LBP	F	220-240V/50Hz	RSIR	P	C	113	158	<b>175</b>	<b>1.01</b>	454	<b>225</b>	<b>1.25</b>	8.90	HYEc	
▲ GUG80LG	8.10	1/4	LBP	F	220-240V 50/60Hz ~1	CSIR	R	C-V	113	158	<b>175</b>	<b>1.01</b>	454	<b>235</b>	<b>1.35</b>	9.40	Ub	
▲ HY113Ya	11.30	3/8	LBP	F	220-240V/50Hz	CSR	R	C-V	140	200	<b>246</b>	<b>1.05</b>	623	<b>330</b>	<b>1.35</b>	11.20	HYb	
▲ HY131Ya	13.10	1/2	LBP	F	220-240V/50Hz	CSR	R	C-V	187	259	<b>283</b>	<b>1.05</b>	723	<b>380</b>	<b>1.35</b>	11.20	HYb	
GPY14NGa	14.32	1/2	LMBP	F	200-220/220-230v 50/60Hz	CSIR	R	C-V	147	205	<b>283</b>	<b>0.92</b>	636	<b>376</b>	<b>1.14</b>	12.59	Pd	
GPY14NGb	14.32	1/2	LMBP	F	200-220/220-230v 50/60Hz	CSR	R	C-V	148	206	<b>284</b>	<b>0.97</b>	636	<b>388</b>	<b>1.27</b>	12.69	Pd	
GPY16LAa	16.15	1/2	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	151	220	<b>306</b>	<b>1.02</b>	677	<b>419</b>	<b>1.32</b>	11.73	Pd	
GPY16LAb	16.15	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	151	220	<b>306</b>	<b>1.09</b>	677	<b>419</b>	<b>1.42</b>	11.83	Pd	
▲ HY153Y	15.30	1/2	LBP	F	220-240V/50Hz	CSIR	R	C-V	206	296	<b>314</b>	<b>1.00</b>	842	<b>430</b>	<b>1.28</b>	11.20	HYb	

▲ New Models

This table continues in the following page

# R134a LBP | LMBP • 60 Hz

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

▲ New Models

This table continues in the following page

# R134a HMBP | HBP • 50 Hz

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



# R134a HMBP | HBP • 60 Hz

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

▲ New Models

This table continues in the following page

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

### Measurement conversion

R134a

W (A) x 1.37 = W (B)

W (C) x 1.19 = W (D)

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



# 3.

Compressors  
Catalogue

**R404A**

## R404A LBP • 50 Hz

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY								WEIGHT Kg	DESIGN
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-40	-30	-25		-10	-23.3				
											W	COP		W	COP			
ML45FB	4.56	1/6	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	52	100	<b>133</b>	<b>0.66</b>	274	<b>198</b>	<b>0.94</b>	8.57	Lb	
ML45FG	4.56	1/6	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	52	100	<b>133</b>	<b>0.68</b>	274	<b>198</b>	<b>0.96</b>	10.87	Lc	
MLY45LAa	4.56	1/6	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	61	118	<b>157</b>	<b>0.92</b>	317	<b>233</b>	<b>1.30</b>	9.55	Lc	
MLY45LAb	4.56	1/6	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	61	118	<b>157</b>	<b>0.98</b>	317	<b>233</b>	<b>1.38</b>	9.65	Lc	
ML60FB	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	73	140	<b>186</b>	<b>0.86</b>	371	<b>275</b>	<b>1.20</b>	8.84	Lc	
ML60FBa	5.98	1/5	LBP	F	220-240V 50Hz ~1	RSIR	P	C	73	140	<b>186</b>	<b>0.86</b>	371	<b>275</b>	<b>1.20</b>	8.84	Lc	
ML60FG	5.98	1/5	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	69	134	<b>177</b>	<b>0.71</b>	351	<b>262</b>	<b>1.01</b>	10.87	Lc	
MLY60LAa	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	86	168	<b>221</b>	<b>0.90</b>	428	<b>326</b>	<b>1.26</b>	10.02	Lc	
MLY60LAb	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	86	168	<b>221</b>	<b>0.96</b>	428	<b>326</b>	<b>1.36</b>	10.12	Lc	
ML80FB	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	99	189	<b>251</b>	<b>0.77</b>	505	<b>371</b>	<b>1.09</b>	9.47	Lc	
ML80FG	8.10	1/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	99	190	<b>252</b>	<b>0.77</b>	505	<b>372</b>	<b>1.08</b>	12.20	Ld	
MLY80LAa	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	104	207	<b>275</b>	<b>0.91</b>	548	<b>407</b>	<b>1.28</b>	9.59	Ld	
MLY80LAb	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	104	207	<b>275</b>	<b>0.98</b>	548	<b>407</b>	<b>1.38</b>	9.69	Ld	
ML90FB	8.85	1/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	104	207	<b>275</b>	<b>0.83</b>	548	<b>407</b>	<b>1.16</b>	9.59	Ld	
ML90FBa	8.85	1/3	LBP	F	220-240V 50Hz ~1	RSIR	P	C	104	207	<b>275</b>	<b>0.83</b>	548	<b>407</b>	<b>1.16</b>	9.59	Ld	
ML90FG	8.85	1/3	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	104	207	<b>275</b>	<b>0.80</b>	548	<b>407</b>	<b>1.13</b>	10.78	Ld	
MLY90LAa	9.09	1/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	121	236	<b>311</b>	<b>0.91</b>	612	<b>460</b>	<b>1.28</b>	10.35	Ld	
MLY90LAb	9.09	1/3	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	121	236	<b>311</b>	<b>0.98</b>	612	<b>460</b>	<b>1.38</b>	10.45	Ld	
MLY12LAa	10.70	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	156	294	<b>387</b>	<b>0.94</b>	762	<b>570</b>	<b>1.33</b>	11.18	Ld	
MLY12LAb	10.70	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	156	294	<b>387</b>	<b>1.00</b>	762	<b>570</b>	<b>1.41</b>	11.28	Ld	
MLY12LGa	10.70	3/8	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	165	297	<b>387</b>	<b>0.83</b>	756	<b>570</b>	<b>1.17</b>	11.06	Ld	
MLY12LGb	10.70	3/8	LBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	165	302	<b>394</b>	<b>0.90</b>	768	<b>581</b>	<b>1.28</b>	11.16	Ld	
MPT12LA	12.10	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	194	347	<b>451</b>	<b>1.01</b>	873	<b>663</b>	<b>1.42</b>	12.23	Pd	
MP14FG	14.17	1/2	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	121	303	<b>420</b>	<b>0.79</b>	877	<b>627</b>	<b>1.12</b>	12.03	Pd	
MPT14LA	14.32	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	242	419	<b>534</b>	<b>0.99</b>	984	<b>780</b>	<b>1.38</b>	12.25	Pd	
MPT16LA	16.15	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	245	462	<b>605</b>	<b>1.00</b>	1168	<b>890</b>	<b>1.40</b>	12.37	Pd	
MPT18LA	18.00	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	269	504	<b>657</b>	<b>0.96</b>	1260	<b>966</b>	<b>1.35</b>	12.81	Pd	
MX21FGa	20.72	3/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	212	463	<b>630</b>	<b>0.96</b>	1296	<b>937</b>	<b>1.35</b>	16.76	Xd	
MX23FBa	23.20	7/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	259	534	<b>718</b>	<b>0.96</b>	1455	<b>1065</b>	<b>1.35</b>	16.61	Xd	
MX23FGa	23.20	7/8	LBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	259	534	<b>718</b>	<b>0.95</b>	1455	<b>1065</b>	<b>1.34</b>	16.74	Xd	
MS26F3	25.93	3/4	LBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	173	548	<b>777</b>	<b>0.95</b>	1626	<b>1164</b>	<b>1.35</b>	20.80	Sd	
MS26FB	25.93	3/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	182	571	<b>814</b>	<b>0.97</b>	1737	<b>1222</b>	<b>1.37</b>	21.63	Sd	
MS26FG	25.93	3/4	LBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	173	547	<b>775</b>	<b>0.95</b>	1626	<b>1162</b>	<b>1.35</b>	22.11	Sd	
MS30F3	29.95	7/8	LBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	207	655	<b>931</b>	<b>0.93</b>	1968	<b>1397</b>	<b>1.32</b>	24.00	Sd	
MS30FB	29.95	7/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	207	656	<b>932</b>	<b>0.95</b>	1969	<b>1398</b>	<b>1.35</b>	22.70	Sd	
MS34F3	34.42	1	LBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	242	762	<b>1085</b>	<b>0.99</b>	2311	<b>1630</b>	<b>1.40</b>	22.90	Sd	
MST34LA	34.42	1 3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	617	857	<b>1143</b>	<b>0.93</b>	2276	<b>1690</b>	<b>1.31</b>	22.90	Sd	
MST38LA	38.00	1 5/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	697	959	<b>1275</b>	<b>0.88</b>	2542	<b>1884</b>	<b>1.40</b>	22.85	Sd	

▲ New Models

## R404A 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		W	COP			
ML45FG	4.56	1/6	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	61	117	<b>157</b>	<b>0.68</b>	321	<b>233</b>	<b>0.97</b>	10.87	Lc	
ML45FR	4.56	1/6	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	61	117	<b>157</b>	<b>0.72</b>	321	<b>233</b>	<b>1.01</b>	9.21	Lc	
MLY45LRa	4.56	1/6	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	64	143	<b>192</b>	<b>0.87</b>	379	<b>284</b>	<b>1.23</b>	9.20	Lc	
MLY45LRb	4.56	1/6	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	64	143	<b>192</b>	<b>0.90</b>	379	<b>284</b>	<b>1.27</b>	9.30	Lc	
ML60FG	5.98	1/5	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	81	157	<b>207</b>	<b>0.70</b>	411	<b>306</b>	<b>0.99</b>	10.87	Lc	
ML60FR	5.98	1/5	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	81	157	<b>207</b>	<b>0.72</b>	411	<b>306</b>	<b>1.01</b>	9.54	Lc	
MLY60LDa	5.98	1/5	LBP	F	115V 60Hz ~1	CSIR	R	C-V	102	197	<b>259</b>	<b>0.89</b>	501	<b>381</b>	<b>1.25</b>	10.40	Lc	
MLY60LDb	5.98	1/5	LBP	F	115V 60Hz ~1	CSR	R	C-V	102	197	<b>259</b>	<b>0.95</b>	501	<b>381</b>	<b>1.34</b>	10.50	Lc	
ML80FG	8.10	1/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	117	223	<b>296</b>	<b>0.76</b>	590	<b>437</b>	<b>1.07</b>	12.20	Ld	
ML80FR	8.10	1/4	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	117	223	<b>296</b>	<b>0.75</b>	590	<b>437</b>	<b>1.05</b>	11.97	Ld	
ML90FG	8.85	1/3	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	121	242	<b>323</b>	<b>0.80</b>	642	<b>477</b>	<b>1.12</b>	10.78	Ld	
ML90FR	8.85	1/3	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	121	242	<b>323</b>	<b>0.79</b>	642	<b>477</b>	<b>1.11</b>	11.97	Ld	
MLT90LD	9.09	1/4	LBP	F	115V 60Hz ~1	CSR	R	C-V	159	284	<b>373</b>	<b>0.99</b>	750	<b>551</b>	<b>1.40</b>	11.80	Ld	
MLY12LFa	10.70	3/8	LBP	F	208-230V 60Hz ~1	CSIR	R	C-V	179	343	<b>451</b>	<b>0.92</b>	882	<b>665</b>	<b>1.29</b>	11.06	Ld	
MLY12LFb	10.70	3/8	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	179	343	<b>451</b>	<b>0.94</b>	882	<b>665</b>	<b>1.33</b>	11.16	Ld	
MLY12LGa	10.70	3/8	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	190	351	<b>458</b>	<b>0.86</b>	884	<b>673</b>	<b>1.22</b>	11.06	Ld	
MLY12LGb	10.70	3/8	LBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	190	357	<b>466</b>	<b>0.91</b>	889	<b>684</b>	<b>1.29</b>	11.16	Ld	
MLY12LRa	10.70	3/8	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	199	373	<b>478</b>	<b>0.96</b>	866	<b>698</b>	<b>1.34</b>	11.01	Ld	
MLY12LRb	10.70	3/8	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	200	369	<b>476</b>	<b>1.00</b>	890	<b>698</b>	<b>1.41</b>	11.11	Ld	
MPT12LD	12.10	3/8	LBP	F	115V 60Hz ~1	CSR	R	C-V	225	397	<b>515</b>	<b>1.01</b>	993	<b>756</b>	<b>1.41</b>	11.50	Pd	
MP14FG	14.17	1/2	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	142	355	<b>492</b>	<b>0.82</b>	1026	<b>734</b>	<b>1.15</b>	12.03	Pd	
MPT14LD	14.32	1/2	LBP	F	115V 60Hz ~1	CSR	R	C-V	258	453	<b>590</b>	<b>0.96</b>	1156	<b>868</b>	<b>1.35</b>	12.20	Pd	
MPT14LF	14.32	1/2	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	262	474	<b>621</b>	<b>0.96</b>	1223	<b>914</b>	<b>1.36</b>	12.30	Pd	
MPT16LD	16.10	1/2	LBP	F	115V 60Hz ~1	CSR	R	C-V	269	509	<b>666</b>	<b>0.95</b>	1285	<b>979</b>	<b>1.33</b>	12.65	Pd	
MPT16LF	16.10	1/2	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	390	524	<b>685</b>	<b>0.97</b>	1330	<b>1008</b>	<b>1.36</b>	12.11	Pd	
MPT18LF	18.00	1/2	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	417	560	<b>733</b>	<b>0.97</b>	1421	<b>1078</b>	<b>1.36</b>	12.97	Pd	
MX21FGa	20.72	3/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	247	540	<b>735</b>	<b>0.94</b>	1515	<b>1093</b>	<b>1.32</b>	16.76	Xd	
MX21FR	20.72	3/4	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	247	627	<b>768</b>	<b>0.98</b>	1001	<b>1093</b>	<b>1.32</b>	17.71	Xd	
MX23FGa	23.20	7/8	LBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	303	627	<b>843</b>	<b>0.93</b>	1711	<b>1250</b>	<b>1.32</b>	16.74	Xd	
MS26F3	25.93	3/4	LBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	202	641	<b>909</b>	<b>0.92</b>	1902	<b>1361</b>	<b>1.31</b>	20.80	Sd	
MS26FF	25.93	3/4	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	202	641	<b>909</b>	<b>0.91</b>	1902	<b>1361</b>	<b>1.30</b>	22.60	Sd	
MS26FG	25.93	3/4	LBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	202	640	<b>907</b>	<b>0.92</b>	1902	<b>1358</b>	<b>1.31</b>	22.11	Sd	
MS30F3	29.95	7/8	LBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	242	763	<b>1086</b>	<b>0.94</b>	2302	<b>1628</b>	<b>1.32</b>	24.00	Sd	
MS30FF	29.95	7/8	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	242	763	<b>1086</b>	<b>0.92</b>	2302	<b>1628</b>	<b>1.31</b>	22.70	Sd	
MS30FG	29.95	7/8	LBP	F	230V 60Hz ~1	CSR	R	C-V	242	763	<b>1086</b>	<b>0.95</b>	2302	<b>1628</b>	<b>1.36</b>	22.70	Sd	
MS34F3	34.42	1	LBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	277	885	<b>1263</b>	<b>0.96</b>	2696	<b>1896</b>	<b>1.35</b>	22.90	Sd	
MS34FF	34.42	1	LBP	F	208V 60Hz ~1	CSR	R	C-V	272	838	<b>1216</b>	<b>0.91</b>	2738	<b>1838</b>	<b>1.30</b>	22.90	Sd	

▲ New Models



## R404A 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		W			COP
ML40TB	4.05	1/6	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	132	212	<b>470</b>	<b>1.41</b>	555	<b>593</b>	<b>1.74</b>	9.47	Lc
ML40TG	4.05	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	132	212	<b>470</b>	<b>1.41</b>	555	<b>593</b>	<b>1.74</b>	9.12	Lc
ML45TB	4.56	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	150	237	<b>525</b>	<b>1.47</b>	621	<b>663</b>	<b>1.82</b>	9.10	Lc
ML45TG	4.50	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	160	261	<b>572</b>	<b>1.59</b>	673	<b>721</b>	<b>1.95</b>	9.14	Lc
ML60TB	5.68	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	165	276	<b>643</b>	<b>1.50</b>	765	<b>814</b>	<b>1.85</b>	9.29	Lc
ML60TG	5.68	1/4	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	165	276	<b>643</b>	<b>1.50</b>	765	<b>814</b>	<b>1.85</b>	10.57	Lc
ML80TB	7.57	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	225	383	<b>875</b>	<b>1.61</b>	1034	<b>1105</b>	<b>1.99</b>	9.68	Ld
ML80TG	7.57	3/8	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	225	383	<b>875</b>	<b>1.61</b>	1034	<b>1105</b>	<b>1.99</b>	11.81	Ld
ML90TB	8.85	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	280	461	<b>1049</b>	<b>1.61</b>	1243	<b>1326</b>	<b>1.98</b>	12.31	Ld
ML90TG	8.85	3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	280	461	<b>1049</b>	<b>1.61</b>	1243	<b>1326</b>	<b>1.98</b>	11.29	Ld
MLT12RA	10.70	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	396	632	<b>1379</b>	<b>1.88</b>	1622	<b>1738</b>	<b>2.31</b>	11.59	Ld
MLT12RG	10.70	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	365	601	<b>1337</b>	<b>1.83</b>	1576	<b>1686</b>	<b>2.26</b>	12.24	Ld
MPT12RG	12.10	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	482	689	<b>1489</b>	<b>1.87</b>	1769	<b>1884</b>	<b>2.33</b>	12.89	Pd
MPT12RA	12.10	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	437	723	<b>1559</b>	<b>1.91</b>	1823	<b>1960</b>	<b>2.35</b>	12.20	Pd
MPT14RA	14.32	1/2	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	789	<b>1750</b>	<b>1.78</b>	2068	<b>2210</b>	<b>2.20</b>	12.25	Pd
MPT16RA	16.10	2/3	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	878	<b>1904</b>	<b>1.66</b>	2248	<b>2403</b>	<b>2.05</b>	13.60	Pd
MX18TBa	18.40	7/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	551	932	<b>2143</b>	<b>1.76</b>	2540	<b>2710</b>	<b>2.18</b>	16.33	Xd
MX18TGa	18.40	7/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	551	932	<b>2143</b>	<b>1.76</b>	2540	<b>2710</b>	<b>2.18</b>	16.24	Xd
MX21TBa	20.72	1	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	621	1047	<b>2409</b>	<b>1.74</b>	2857	<b>3047</b>	<b>2.15</b>	16.52	Xd
MX21TGa	20.72	1	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	621	1047	<b>2409</b>	<b>1.74</b>	2857	<b>3047</b>	<b>2.15</b>	16.74	Xd
MS22TB	21.75	1	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	451	967	<b>2550</b>	<b>2.02</b>	3060	<b>3244</b>	<b>2.50</b>	20.51	Sc
MS26T3	25.93	1 3/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	671	1289	<b>3166</b>	<b>1.98</b>	3769	<b>4012</b>	<b>2.45</b>	18.60	Sd
MS26TB	25.93	1 3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	671	1288	<b>3164</b>	<b>2.00</b>	3767	<b>4010</b>	<b>2.46</b>	22.12	Sd
MS26TG	25.93	1 3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	671	1289	<b>3166</b>	<b>2.00</b>	3769	<b>4012</b>	<b>2.46</b>	23.00	Sd
MS34TB	34.42	1 5/8	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	1850	<b>4205</b>	<b>1.89</b>	4930	<b>5292</b>	<b>2.30</b>	22.21	Sd
MS34TG	34.42	1 5/8	HBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	-	1850	<b>4205</b>	<b>1.89</b>	4930	<b>5292</b>	<b>2.30</b>	22.78	Sd
MS34T3	34.42	1 5/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	1002	1850	<b>4205</b>	<b>1.79</b>	4930	<b>5292</b>	<b>2.20</b>	22.80	Sd
MST38RA	38.00	2	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	2035	<b>4625</b>	<b>1.89</b>	5423	<b>5821</b>	<b>2.30</b>	22.65	Sd

▲ New Models

# R404A HMBP | HBP • 60 Hz

MODEL	DISPLACEMENT cm <sup>3</sup>	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY								WEIGHT Kg	DESIGN
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C									
									Cecomaf (W)				Ashrae					
									-25	-15	5		10	7.2				
											W	COP		W	COP			
ML40TG	4.05	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	155	248	<b>553</b>	<b>1.39</b>	653	<b>698</b>	<b>1.70</b>	9.12	Lc	
ML45TG	4.56	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	190	310	<b>672</b>	<b>1.55</b>	788	<b>846</b>	<b>1.89</b>	9.14	Lc	
ML60TG	5.68	1/4	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	193	323	<b>753</b>	<b>1.49</b>	896	<b>954</b>	<b>1.83</b>	10.57	Lc	
MLY60RDa	5.98	1/4	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	250	408	900	1.70	1059	1134	2.10	10.55	Lc	
MLY60RDb	5.98	1/4	HMBP	F	115V 60Hz ~1	CSR	R	C-V	250	408	900	1.83	1059	1134	2.27	10.65	Lc	
ML80TG	7.57	3/8	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	263	448	1022	1.59	1208	1291	1.96	11.81	Ld	
MLY80RDa	8.10	3/8	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	329	541	1224	1.75	1449	1547	2.15	11.21	Ld	
MLY80RDb	8.10	3/8	HMBP	F	115V 60Hz ~1	CSR	R	C-V	329	541	1224	1.81	1449	1547	2.22	11.31	Ld	
ML90TG	8.85	3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	329	539	1227	1.54	1454	1551	1.89	11.29	Ld	
MLT12RG	10.70	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	441	702	1553	1.75	1833	1960	2.16	12.24	Ld	
MLT12RR	10.70	1/2	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	463	736	1560	1.75	1825	1961	2.15	11.96	Ld	
MPT12RG	12.10	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	-	795	1725	1.79	2043	2179	2.22	12.89	Pd	
MPT14RF	14.32	1/2	HBP	F	208-230V 60Hz ~1	CSR	R	C-V	-	929	<b>1990</b>	<b>1.56</b>	2351	<b>2512</b>	<b>1.91</b>	12.67	Pd	
MPT14RD	14.32	1/2	HBP	F	115V 60Hz ~1	CSR	R	C-V	-	929	<b>1990</b>	<b>1.56</b>	2351	<b>2512</b>	<b>1.91</b>	12.67	Pd	
MX16TE	16.03	7/8	HMBP	F	115V 60Hz ~1	CSR	R	C-V	561	949	<b>2185</b>	<b>1.62</b>	2589	<b>2762</b>	<b>2.00</b>	17.20	Xd	
MX18TE	18.40	7/8	HMBP	F	115V 60Hz ~1	CSR	R	C-V	644	1090	<b>2507</b>	<b>1.62</b>	2972	<b>3170</b>	<b>2.00</b>	17.20	Xd	
MX18TGa	18.40	7/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	644	1090	<b>2507</b>	<b>1.74</b>	2972	<b>3170</b>	<b>2.15</b>	16.24	Xd	
MX21TGa	20.72	1	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	726	1211	<b>2781</b>	<b>1.72</b>	3299	<b>3518</b>	<b>2.12</b>	16.74	Xd	
MS26T3	25.93	1 3/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	785	1508	<b>3705</b>	<b>1.84</b>	4411	<b>4695</b>	<b>2.25</b>	18.60	Sd	
MS26TG	25.93	1.3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	785	1508	<b>3705</b>	<b>1.93</b>	4411	<b>4695</b>	<b>2.37</b>	23.00	Sd	
MS34TG	34.42	1.5/8	HBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	-	2163	<b>4917</b>	<b>1.71</b>	5762	<b>6187</b>	<b>2.10</b>	22.78	Sd	
MS34T3	34.42	1.5/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	1172	2164	<b>4916</b>	<b>1.71</b>	5764	<b>6187</b>	<b>2.10</b>	22.80	Sd	

	Conditions			
	CECOMAF		ASHRAE	
	LBP (A)	HMBP/HBP (C)	LBP (B)	HMBP/HBP (D)

Evaporating temperature °C	-25	5	-23.3	7.2
Condensing temperature °C	55	55	55	55
Liquid temperature °C	55	55	32	46
Suction temperature °C	32	32	32	35
Ambient temperature °C	32	32	32	35

### Measurement conversion

R404A

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

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

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



# 3.

## Compressors Catalogue

### **DC/VSC**

## 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		W			COP
NVT50FSC	5.00	LMBP	F	115-240V 50/60Hz ~1	PMSM	C-V	1600	39	70	<b>90</b>	<b>1.28</b>	166	<b>120</b>	<b>1.66</b>	6.40	Vb
							2400	62	111	<b>142</b>	<b>1.35</b>	263	<b>190</b>	<b>1.75</b>		
							3000	81	144	<b>185</b>	<b>1.33</b>	343	<b>248</b>	<b>1.72</b>		
							4500	119	212	<b>272</b>	<b>1.28</b>	504	<b>365</b>	<b>1.66</b>		
NVT70FSC	7.00	LMBP	F	115-240V 50/60Hz ~1	PMSM	C-V	1600	57	102	<b>131</b>	<b>1.36</b>	243	<b>176</b>	<b>1.76</b>	6.20	Vb
							2400	89	160	<b>205</b>	<b>1.41</b>	380	<b>275</b>	<b>1.83</b>		
							3000	114	204	<b>261</b>	<b>1.37</b>	484	<b>350</b>	<b>1.79</b>		
							4500	168	300	<b>384</b>	<b>1.33</b>	712	<b>515</b>	<b>1.73</b>		
NUS100FSC	10.50	LMBP	F	115-240V 50/60Hz ~1	PMSM	C-V	2000	111	195	<b>253</b>	<b>1.35</b>	486	<b>340</b>	<b>1.75</b>	8.95	Uv
							2400	138	243	<b>315</b>	<b>1.40</b>	605	<b>423</b>	<b>1.82</b>		
							3000	168	296	<b>383</b>	<b>1.38</b>	737	<b>515</b>	<b>1.80</b>		
							4500	238	419	<b>543</b>	<b>1.27</b>	1044	<b>730</b>	<b>1.65</b>		
NUS125FSC	12.50	LMBP	F	220-240V 50/60Hz ~1	PMSM	C-V	2000	131	230	<b>297</b>	<b>1.34</b>	572	<b>400</b>	<b>1.74</b>	8.95	Uv
							2400	163	286	<b>370</b>	<b>1.39</b>	713	<b>498</b>	<b>1.81</b>		
							3000	207	365	<b>472</b>	<b>1.38</b>	909	<b>635</b>	<b>1.80</b>		
							4500	287	505	<b>654</b>	<b>1.29</b>	1259	<b>880</b>	<b>1.68</b>		
NUS125FSC	12.50	LBP	F	115-240V 50/60Hz ~1	PMSM	C-V	2000	131	230	<b>297</b>	<b>1.34</b>	572	<b>400</b>	<b>1.74</b>	8.95	Uv
							2400	163	286	<b>370</b>	<b>1.39</b>	713	<b>498</b>	<b>1.81</b>		
							3000	207	365	<b>472</b>	<b>1.38</b>	909	<b>635</b>	<b>1.80</b>		
							3600	237	417	<b>540</b>	<b>1.29</b>	1039	<b>726</b>	<b>1.68</b>		

## R600a LBP | LMBP • 50 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		W			COP
HVM70MD	7.00	LBP	S	220-240V 50/60Hz ~1	PMSM	C	1200	21	28	<b>37</b>	<b>1.37</b>	77	<b>45</b>	<b>1.80</b>	6.10	HVMc
							1800	33	45	<b>59</b>	<b>1.48</b>	124	<b>72</b>	<b>1.95</b>		
							3000	55	75	<b>98</b>	<b>1.42</b>	207	<b>129</b>	<b>1.87</b>		
							4500	81	109	<b>142</b>	<b>1.14</b>	301	<b>170</b>	<b>1.50</b>		
HVM90MD	9.00	LBP	S	220-240V 50/60Hz ~1	PMSM	C	1200	30	40	<b>52</b>	<b>1.37</b>	110	<b>64</b>	<b>1.80</b>	6.10	HVMc
							1800	45	61	<b>80</b>	<b>1.48</b>	169	<b>98</b>	<b>1.95</b>		
							3000	72	97	<b>127</b>	<b>1.43</b>	269	<b>160</b>	<b>1.88</b>		
							4500	104	140	<b>183</b>	<b>1.14</b>	387	<b>225</b>	<b>1.50</b>		
HVM110MS	10.00	LBP	S	220-240V 50/60Hz ~1	PMSM	C	1200	36	48	<b>63</b>	<b>1.29</b>	134	<b>78</b>	<b>1.70</b>	6.10	HVMb
							1800	55	73	<b>96</b>	<b>1.41</b>	203	<b>118</b>	<b>1.85</b>		
							3000	89	119	<b>156</b>	<b>1.33</b>	331	<b>192</b>	<b>1.75</b>		
							4500	125	168	<b>219</b>	<b>1.25</b>	465	<b>270</b>	<b>1.64</b>		

Green Cooling Models

New Models

## R134a LBP | LMBP • 12V -24V

## DC 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				
								-35	-30	-25		-10	-23.3			
										W	COP		W			COP
DM14H	1.40	LBP	S	12-24V DC	BLDC	C	2000	5	8	<b>11</b>	<b>0.61</b>	29	<b>16</b>	<b>0.80</b>	2.40	DMb
							2500	7	11	<b>16</b>	<b>0.64</b>	41	<b>22</b>	<b>0.86</b>		
							3000	9	13	<b>19</b>	<b>0.65</b>	46	<b>29</b>	<b>0.87</b>		
							3500	14	20	<b>29</b>	<b>0.75</b>	70	<b>40</b>	<b>1.00</b>		
DM16H	1.60	LBP	S	12-24V DC	BLDC	C	2000	6	9	<b>14</b>	<b>0.68</b>	36	<b>20</b>	<b>0.90</b>	2.40	DMb
							2500	7	12	<b>17</b>	<b>0.69</b>	44	<b>24</b>	<b>0.92</b>		
							3000	9	14	<b>21</b>	<b>0.70</b>	50	<b>31</b>	<b>0.94</b>		
							3500	15	22	<b>32</b>	<b>0.82</b>	77	<b>44</b>	<b>1.10</b>		
DL19H	1.90	LMHBP	S/F	12-24V DC	BLDC	C	2000	8	14	<b>21</b>	<b>0.82</b>	53	<b>29</b>	<b>1.08</b>	4.20	DLb
							2500	12	20	<b>29</b>	<b>0.87</b>	74	<b>40</b>	<b>1.16</b>		
							3000	16	24	<b>35</b>	<b>0.88</b>	84	<b>52</b>	<b>1.18</b>		
							3500	20	29	<b>41</b>	<b>0.91</b>	100	<b>57</b>	<b>1.21</b>		
DL22H	2.20	LMHBP	S/F	12-24V DC	BLDC	C	2000	11	18	<b>27</b>	<b>0.88</b>	69	<b>38</b>	<b>1.16</b>	4.20	DLb
							2500	14	22	<b>33</b>	<b>0.89</b>	83	<b>45</b>	<b>1.19</b>		
							3000	18	27	<b>40</b>	<b>0.90</b>	95	<b>59</b>	<b>1.21</b>		
							3500	23	33	<b>48</b>	<b>0.92</b>	116	<b>66</b>	<b>1.23</b>		
DL30H	3.00	LMHBP	S/F	12-24V DC	BLDC	C	2000	15	24	<b>36</b>	<b>0.93</b>	93	<b>51</b>	<b>1.22</b>	4.20	DLb
							2500	20	31	<b>46</b>	<b>0.94</b>	116	<b>63</b>	<b>1.26</b>		
							3000	25	38	<b>56</b>	<b>0.94</b>	132	<b>82</b>	<b>1.27</b>		
							3500	31	45	<b>65</b>	<b>0.93</b>	158	<b>90</b>	<b>1.24</b>		
DL35H	3.50	LBP	S	12-24V DC	BLDC	C	2000	19	30	<b>45</b>	<b>0.91</b>	116	<b>64</b>	<b>1.20</b>	4.30	DLb
							2500	25	39	<b>58</b>	<b>0.92</b>	145	<b>79</b>	<b>1.23</b>		
							3000	31	47	<b>70</b>	<b>0.94</b>	165	<b>103</b>	<b>1.26</b>		
							3500	38	55	<b>80</b>	<b>0.93</b>	193	<b>110</b>	<b>1.25</b>		
VDL19H	1.90	LBP	S	12-24V DC 100-240V AC	BLDC	C	2000	8	14	<b>21</b>	<b>0.82</b>	53	<b>29</b>	<b>1.08</b>	4.40	VDLb
							2500	12	20	<b>29</b>	<b>0.87</b>	74	<b>40</b>	<b>1.16</b>		
							3000	16	24	<b>35</b>	<b>0.88</b>	84	<b>52</b>	<b>1.18</b>		
							3500	20	29	<b>41</b>	<b>0.91</b>	100	<b>57</b>	<b>1.21</b>		
VDL22H	2.20	LBP	S	12-24V DC 100-240V AC	BLDC	C	2000	11	18	<b>27</b>	<b>0.88</b>	69	<b>38</b>	<b>1.16</b>	4.40	VDLb
							2500	14	22	<b>33</b>	<b>0.89</b>	83	<b>45</b>	<b>1.19</b>		
							3000	18	27	<b>40</b>	<b>0.90</b>	95	<b>59</b>	<b>1.21</b>		
							3500	23	33	<b>48</b>	<b>0.92</b>	116	<b>66</b>	<b>1.23</b>		

## R134a HMBP • 12V -24V

## DC 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				
								-35	-30	-25		-10	-23.3			
										W	COP		W			COP
GLT80TDC	8.10	HMBP	F	24-42V DC	ECM	C	1500	78	139	<b>362</b>	<b>1.93</b>	421	<b>429</b>	<b>2.19</b>	8.40	Lc
							2000	107	190	<b>487</b>	<b>2.06</b>	565	<b>578</b>	<b>2.34</b>		
							2500	135	238	<b>601</b>	<b>1.99</b>	710	<b>712</b>	<b>2.26</b>		
							3000	161	281	<b>711</b>	<b>1.91</b>	840	<b>843</b>	<b>2.17</b>		
							3500	185	320	<b>818</b>	<b>1.82</b>	962	<b>969</b>	<b>2.07</b>		

▲ New Models



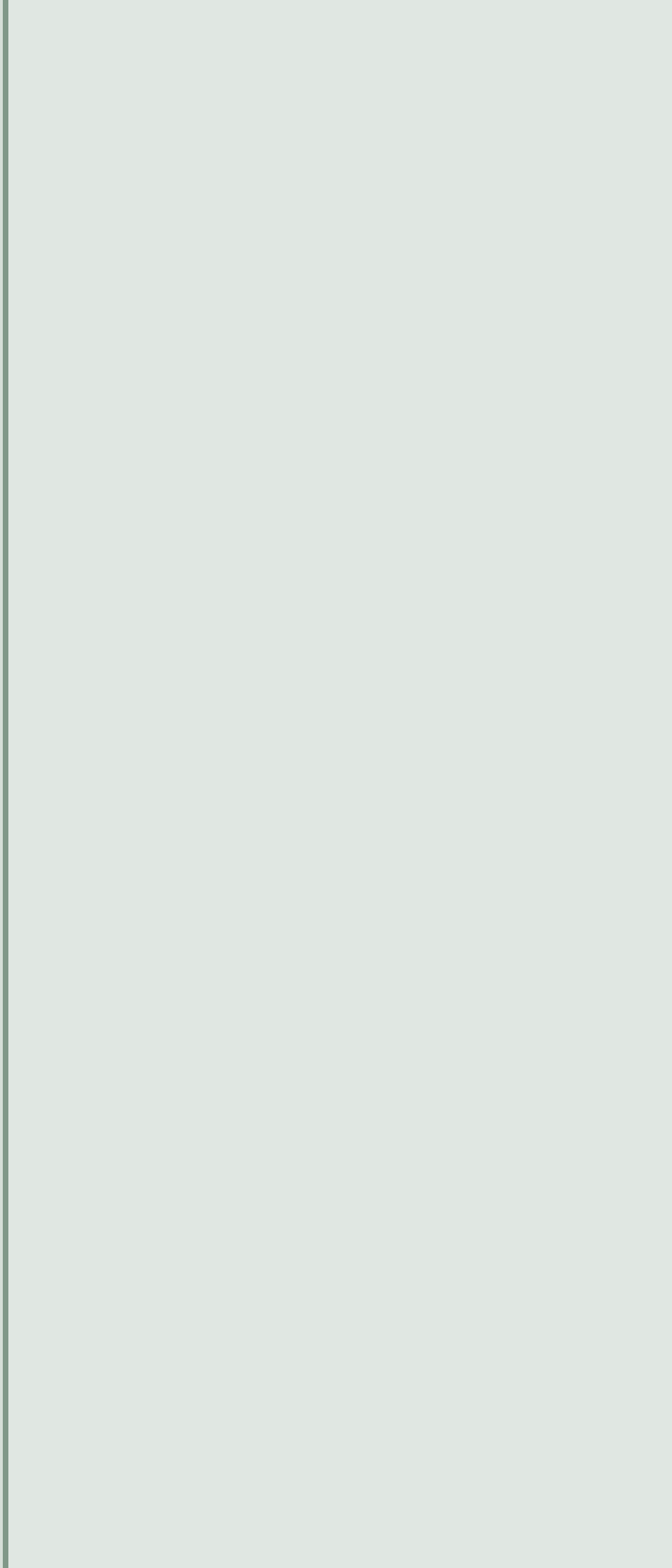
MODEL	DISPLACEMENT cm <sup>3</sup>	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	EXPANSION	SPEED rpm	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN	
								COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C								
								Cecomaf (W)			Ashrae					
								-35	-30	-25	-10	-23.3	-23.3			
		W	COP	W	COP	W	COP	W	COP	W	COP					
DL30C	3.00	LBP	S	12-24V DC	BLDC	C	2000	9	15	<b>23</b>	<b>0.91</b>	58	<b>32</b>	<b>1.20</b>	4.20	DLb
							2500	12	19	<b>29</b>	<b>0.91</b>	73	<b>39</b>	<b>1.22</b>		
							3000	16	23	<b>35</b>	<b>0.92</b>	83	<b>51</b>	<b>1.24</b>		
							3500	19	28	<b>40</b>	<b>0.93</b>	97	<b>55</b>	<b>1.25</b>		
DL35C	3.50	LBP	S	12-24V DC	BLDC	C	2000	11	18	<b>28</b>	<b>0.99</b>	71	<b>39</b>	<b>1.30</b>	4.20	DLb
							2500	15	23	<b>35</b>	<b>0.99</b>	89	<b>48</b>	<b>1.32</b>		
							3000	19	29	<b>42</b>	<b>1.00</b>	101	<b>62</b>	<b>1.34</b>		
							3500	24	35	<b>51</b>	<b>1.01</b>	123	<b>70</b>	<b>1.35</b>		
DK52C	5.20	LBP	S	12-24V DC	BLDC	C	2000	17	28	<b>43</b>	<b>0.99</b>	109	<b>60</b>	<b>1.30</b>	4.00	DKb
							2500	23	36	<b>54</b>	<b>0.99</b>	136	<b>74</b>	<b>1.32</b>		
							3000	29	44	<b>65</b>	<b>1.00</b>	155	<b>96</b>	<b>1.34</b>		
							3500	35	50	<b>73</b>	<b>1.01</b>	176	<b>100</b>	<b>1.35</b>		
DK70C	7.00	LBP	S	12-24V DC	BLDC	C	2000	23	38	<b>57</b>	<b>1.06</b>	145	<b>80</b>	<b>1.40</b>	4.00	DKb
							2500	31	48	<b>72</b>	<b>1.06</b>	182	<b>98</b>	<b>1.42</b>		
							3000	39	59	<b>87</b>	<b>1.07</b>	206	<b>128</b>	<b>1.44</b>		
							3500	47	68	<b>98</b>	<b>1.08</b>	237	<b>135</b>	<b>1.45</b>		
DK90C	9.00	LBP	S	12-24V DC	BLDC	C	2000	29	47	<b>71</b>	<b>1.06</b>	182	<b>100</b>	<b>1.40</b>	4.00	DKb
							2500	38	60	<b>90</b>	<b>1.06</b>	227	<b>123</b>	<b>1.42</b>		
							3000	49	73	<b>109</b>	<b>1.07</b>	258	<b>160</b>	<b>1.44</b>		
							3500	61	88	<b>127</b>	<b>1.08</b>	308	<b>175</b>	<b>1.45</b>		
VDL30C	3.00	LBP	S	12-24V DC 100-240V AC	BLDC	C	2000	9	15	<b>23</b>	<b>0.91</b>	58	<b>32</b>	<b>1.20</b>	4.40	VDLb
							2500	12	19	<b>29</b>	<b>0.91</b>	73	<b>39</b>	<b>1.22</b>		
							3000	16	23	<b>35</b>	<b>0.92</b>	83	<b>51</b>	<b>1.24</b>		
							3500	19	28	<b>40</b>	<b>0.93</b>	97	<b>55</b>	<b>1.25</b>		
VDL35C	3.50	LBP	S	12-24V DC 100-240V AC	BLDC	C	2000	11	18	<b>28</b>	<b>0.99</b>	71	<b>39</b>	<b>1.30</b>	4.40	VDLb
							2500	15	23	<b>35</b>	<b>0.99</b>	89	<b>48</b>	<b>1.32</b>		
							3000	19	29	<b>42</b>	<b>1.00</b>	101	<b>62</b>	<b>1.34</b>		
							3500	24	35	<b>51</b>	<b>1.01</b>	123	<b>70</b>	<b>1.35</b>		
VDK52C	5.20	LBP	S	12-24V DC 100-240V AC	BLDC	C	2000	17	28	<b>43</b>	<b>0.99</b>	109	<b>60</b>	<b>1.30</b>	4.00	DKb
							2500	23	36	<b>54</b>	<b>0.99</b>	136	<b>74</b>	<b>1.32</b>		
							3000	29	44	<b>65</b>	<b>1.00</b>	155	<b>96</b>	<b>1.34</b>		
							3500	35	50	<b>73</b>	<b>1.01</b>	176	<b>100</b>	<b>1.35</b>		

Green Cooling Models  
New Models

	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  
W (A) x 1.29 = kcal/h (B)  
W (C) x 1.08 = kcal/h (D)



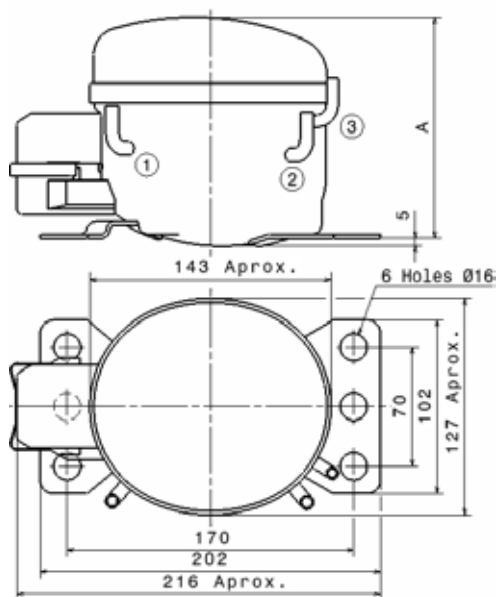


# 4.

## Technical Information

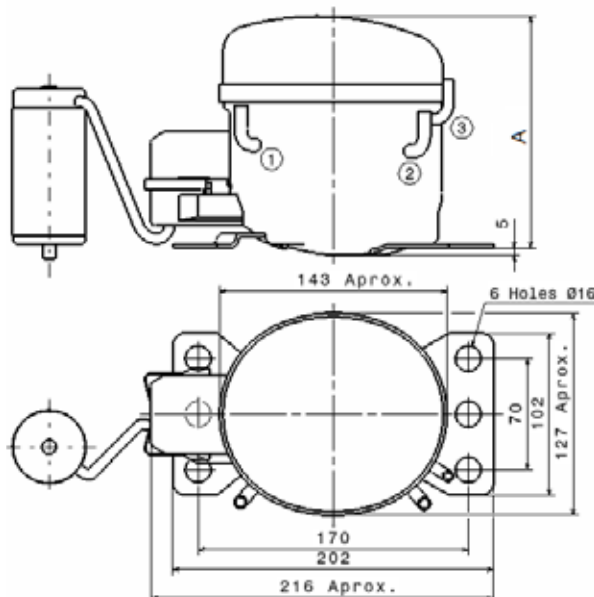
# Compressor Dimensional Drawings

## 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

## HL range

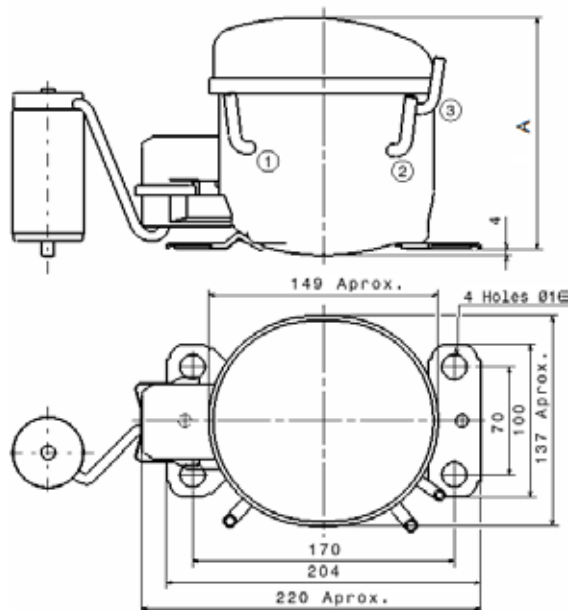


Designation	Internal diam.	A (mm)
HLb		145

LEGEND	
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

## HK range

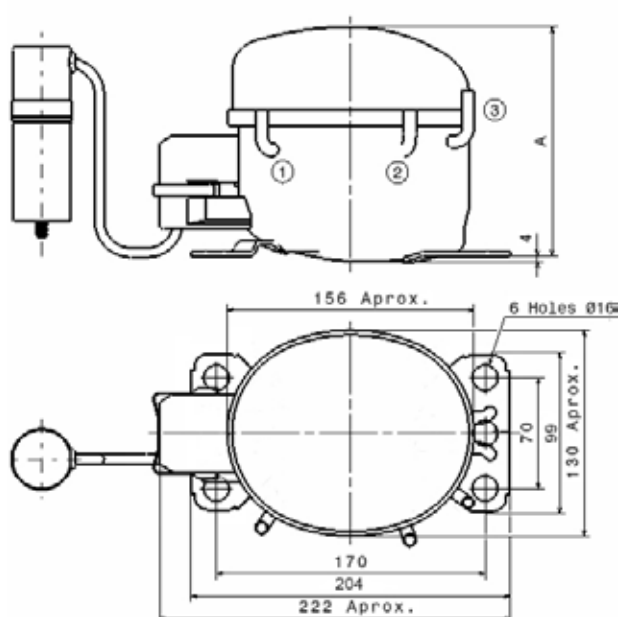


Designation	A (mm)
HKb	148

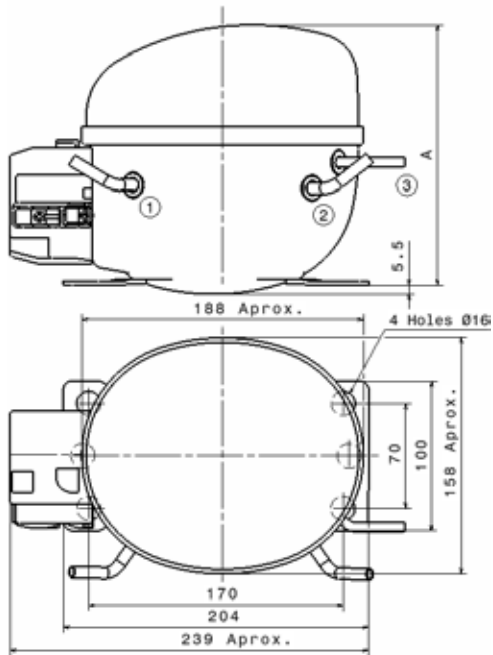
LEGEND	
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

## B range



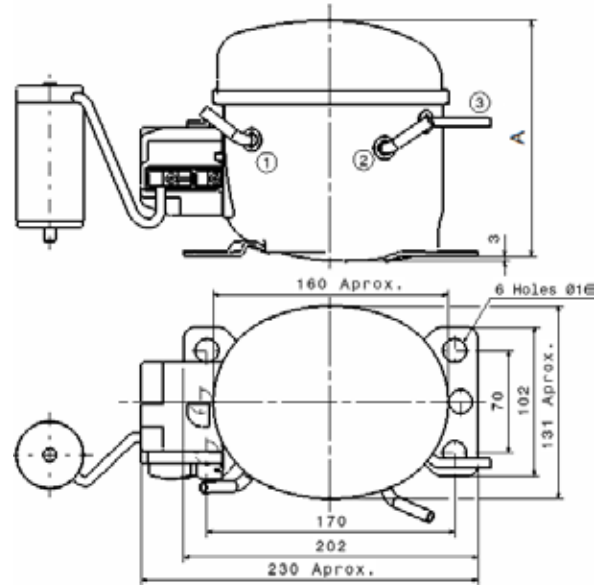
Designation	Internal diam.	A (mm)
AS Suction	6.2	Bb 141
SC Discharge	4.9	Bc 145
SZ Service	6.2	Be 155
		Bf 159

## HYE range



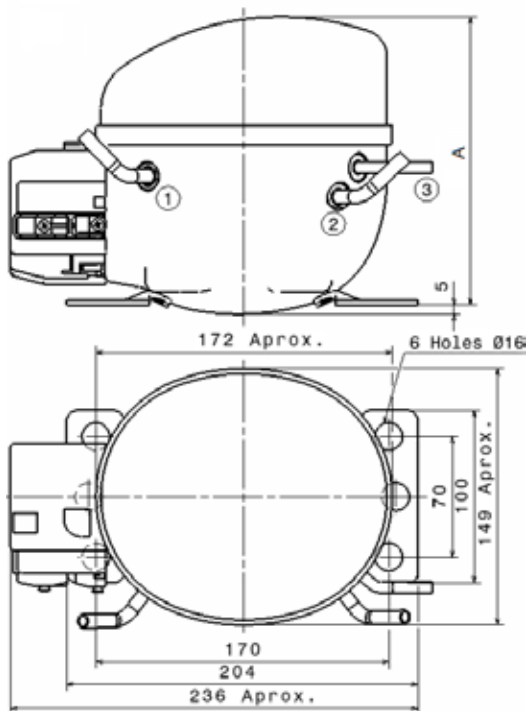
	A (mm)	LEGEND	
HYEb	173.5	AS	Suction/Service
HYEc	169	SC	Discharge
HYEd	176.5	SZ	Service/Suction
HYEf	180		

## HYB range



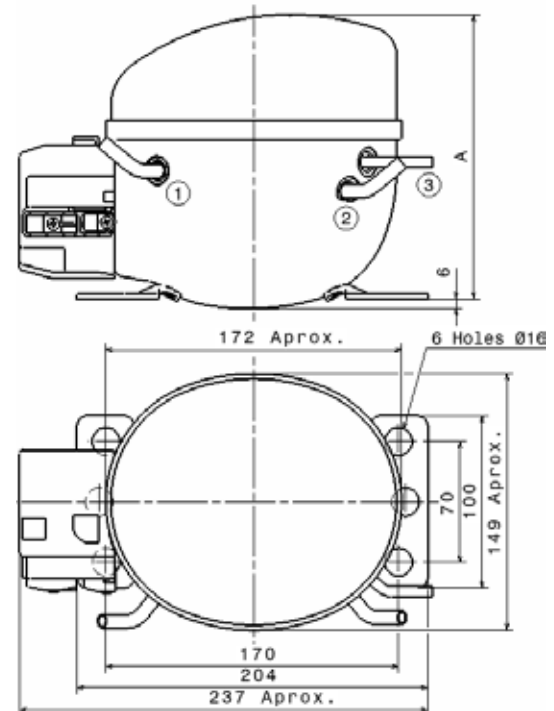
	A (mm)	LEGEND	
HYBb	130	AS	Suction/Service
HYBc	138	SC	Discharge
HYBd	142	SZ	Service/Suction
HYBe	154		
HYBf	161		

## HFY range



	A (mm)	LEGEND	
HFYb	167	AS	Suction/Service
		SC	Discharge
		SZ	Service/Suction

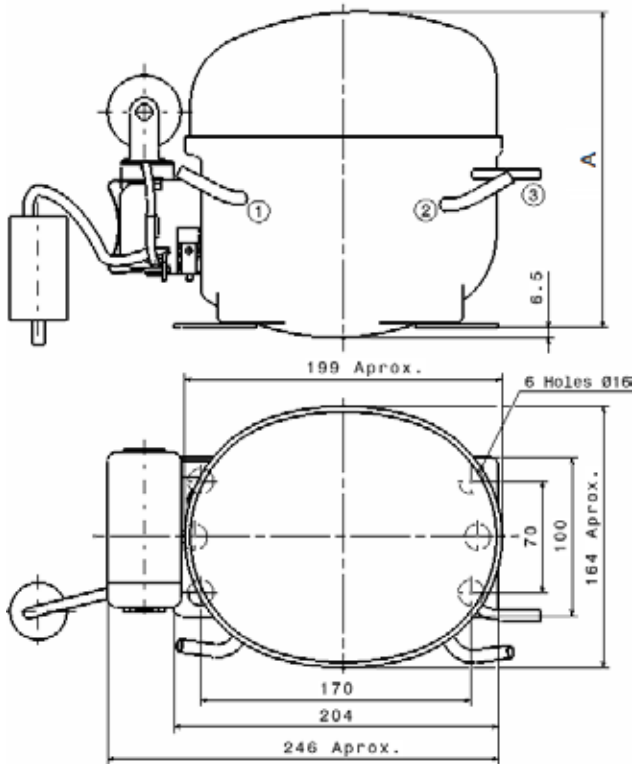
## HYS range



	A (mm)	LEGEND	
HYSb	159.5	AS	Suction/Service
HYSc	165	SC	Discharge
HYSd	168	SZ	Service/Suction
HYSe	172		



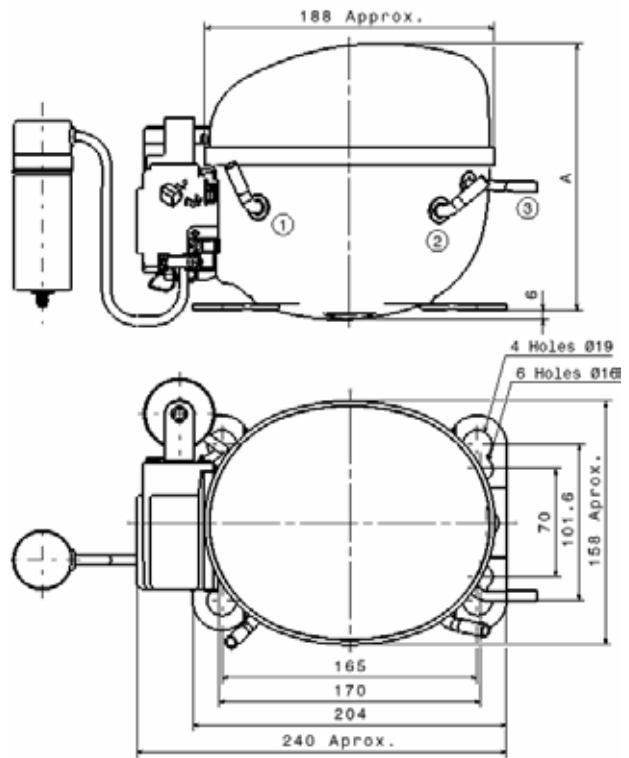
## HY range



	A (mm)
HYb	193

LEGEND	
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

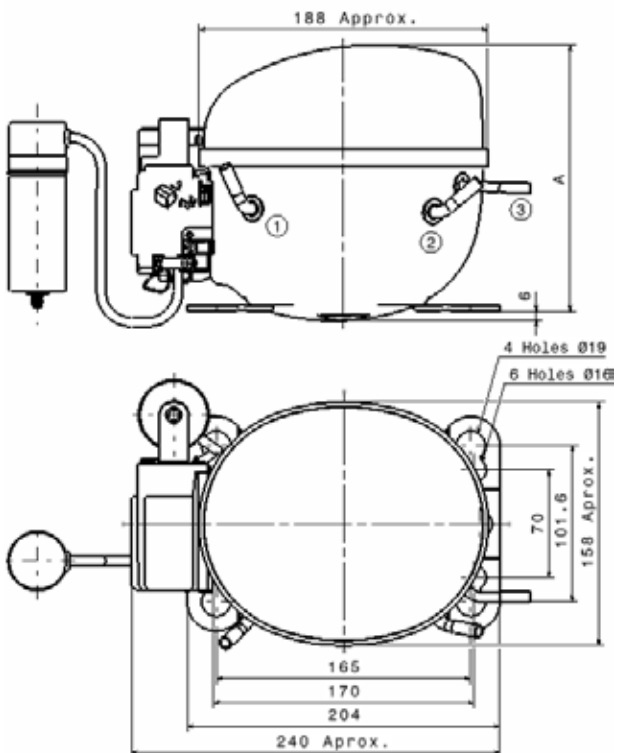
## U range



	A (mm)
Ub	173.5
Uc	176.5
Ud	180
Ue	182

LEGEND	
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

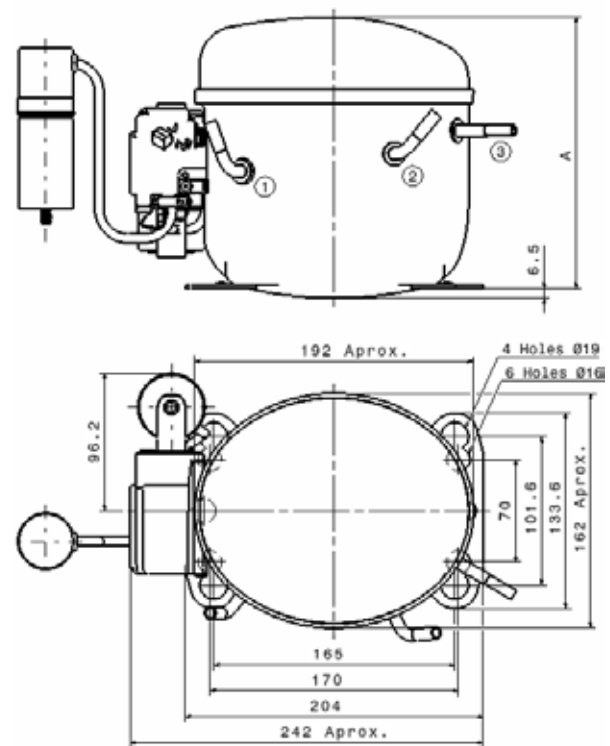
## U+ range



	A (mm)
U+b	207

LEGEND	
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

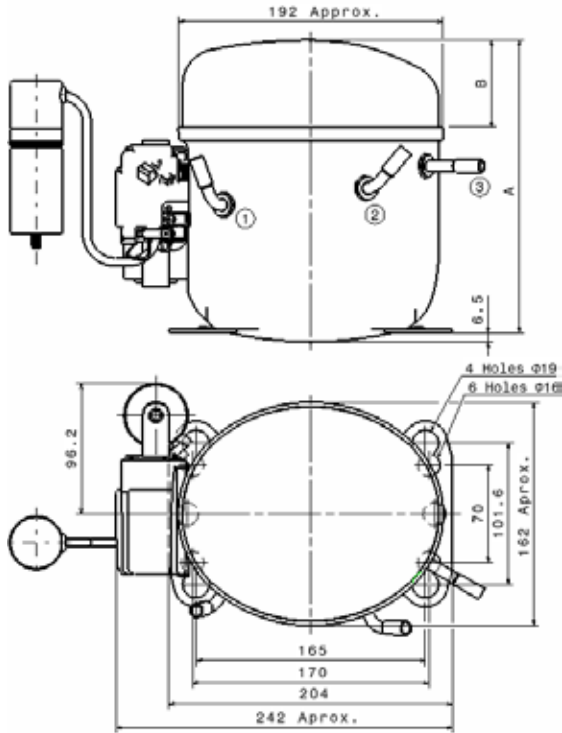
## L range



	A (mm)
Lb	175
Lc	185.6
Ld	198

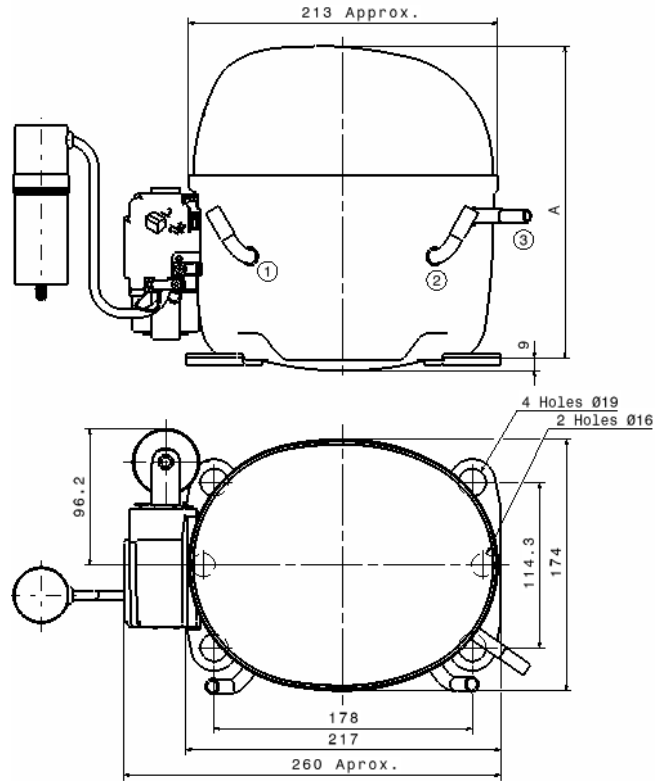
LEGEND	
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

## P range



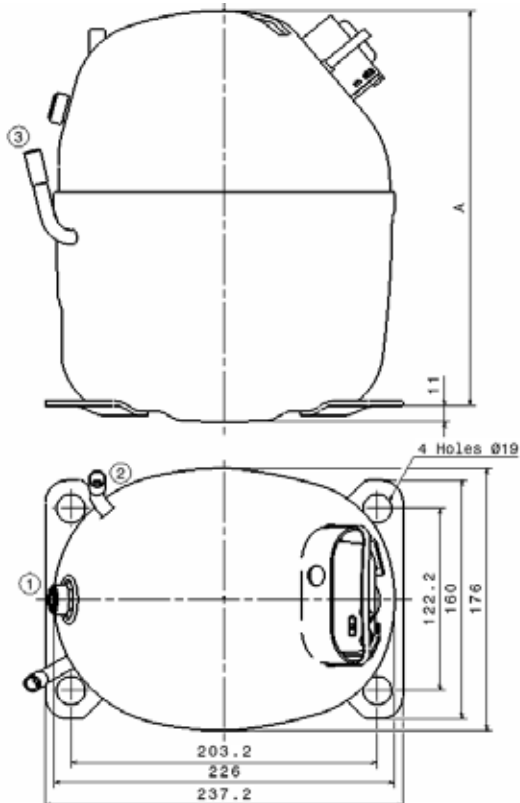
	A (mm)	LEGEND	
Pc	198.1	AS	Suction/Service
Pd	210.5	SC	Discharge
Pe	215.5	SZ	Service/Suction

## X range



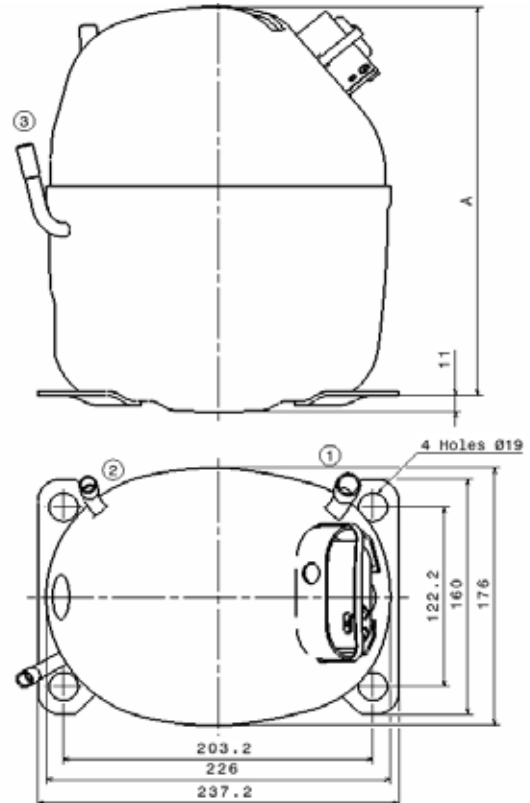
	A (mm)	LEGEND	
Xc	215	AS	Suction/Service
Xd	221	SC	Discharge
		SZ	Service/Suction

## S range (Valve)



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

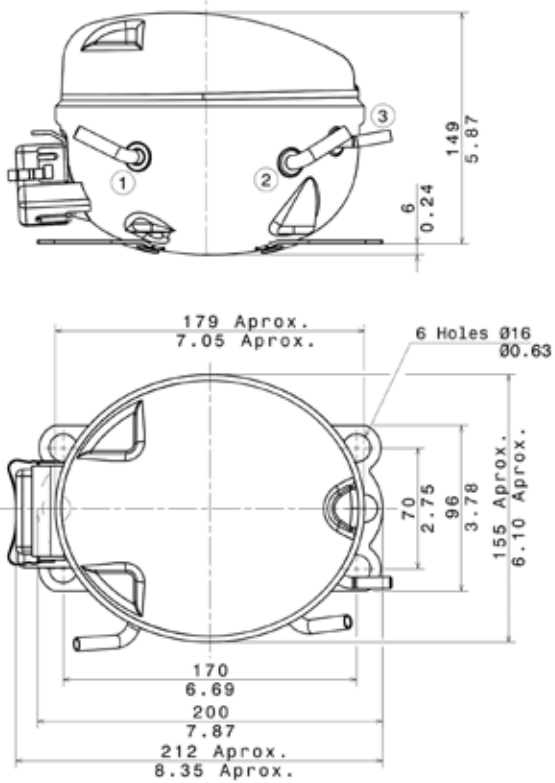
## S range (Tube)



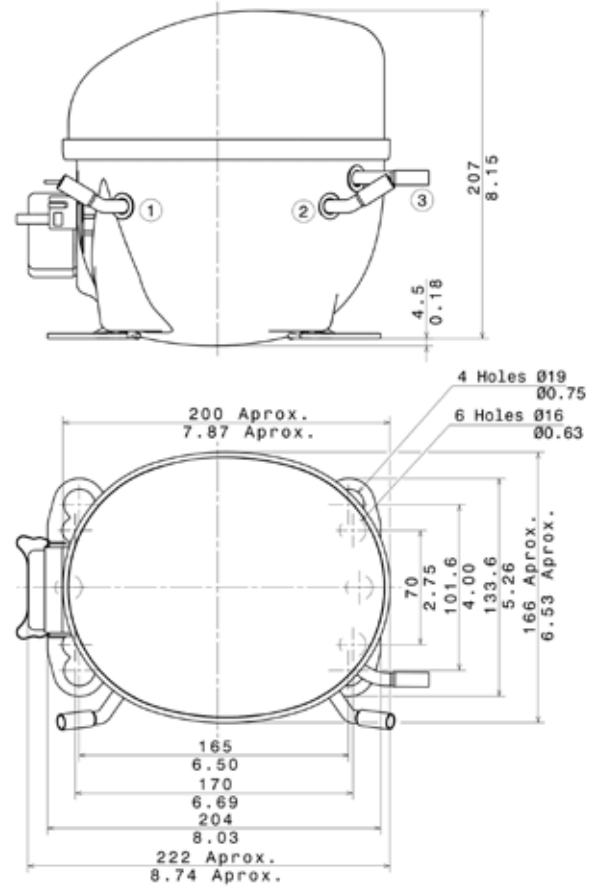
	A (mm)	LEGEND (TUBE)	
Sb	252	AS	Suction/Service
Sc	265	SC	Discharge
Sd	276	SZ	Service/Suction

## Variable Speed Compressors

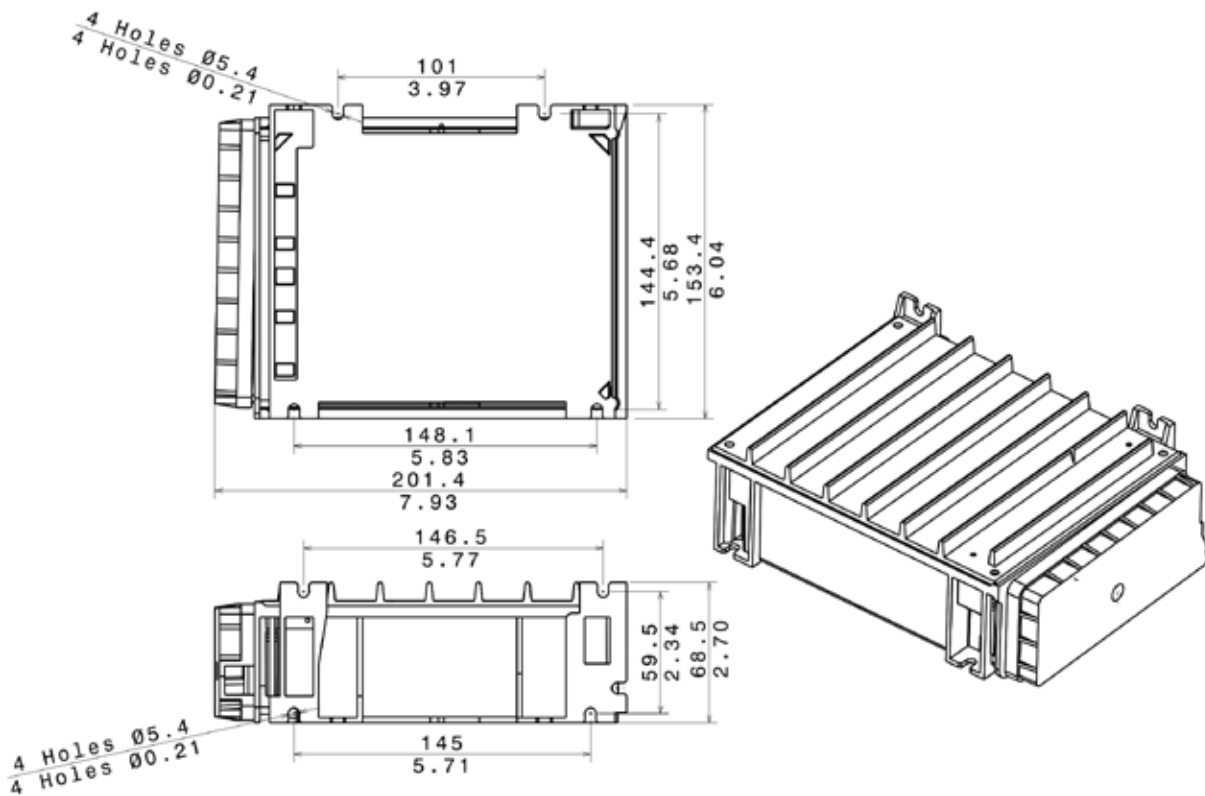
### NVT VSC range



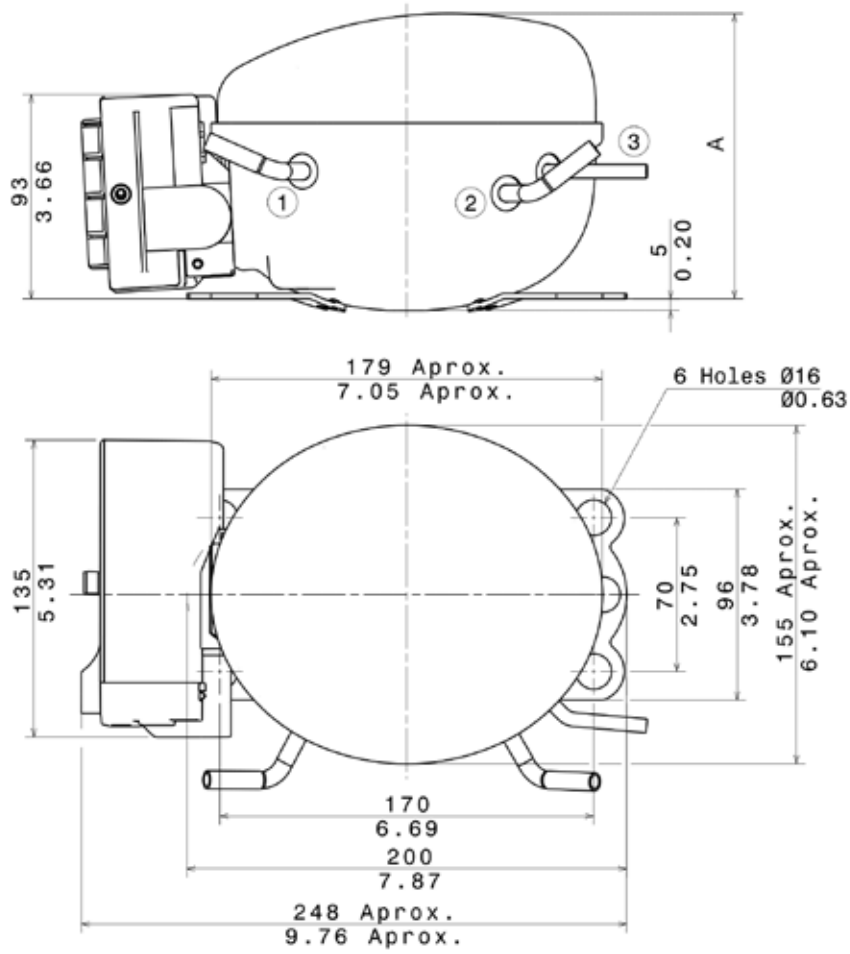
### NUS/NUT VSC range



### Electronic Driver for Variable Speed Compressor (NVT, NUS, NUT)

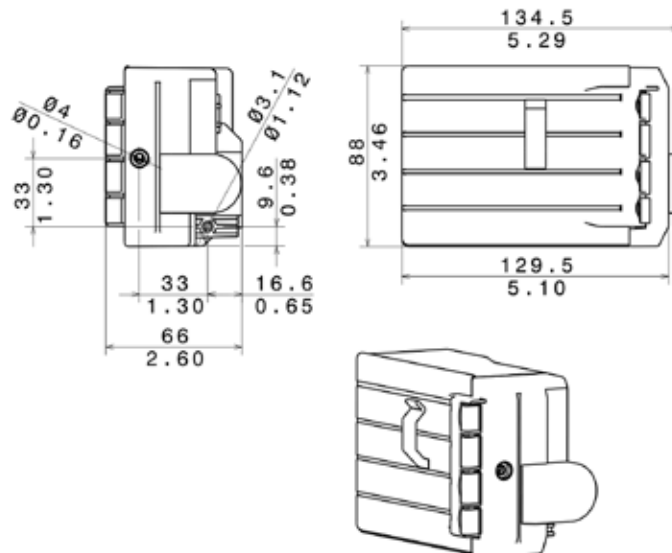


## HVM VSC range



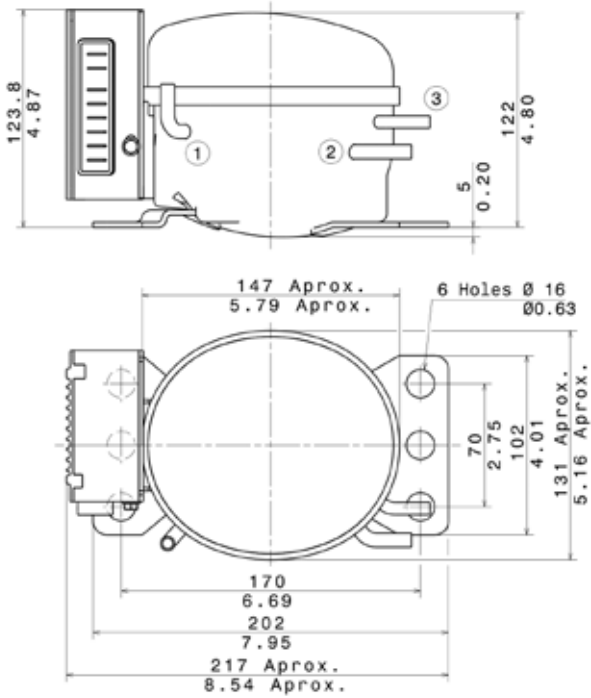
	A (mm)	LEGEND	
HVMb	129	AS	Suction/Service
HVMc	134	SC	Discharge
		SZ	Service/Suction

## Electronic Driver Variable Speed Compressor (HVM)



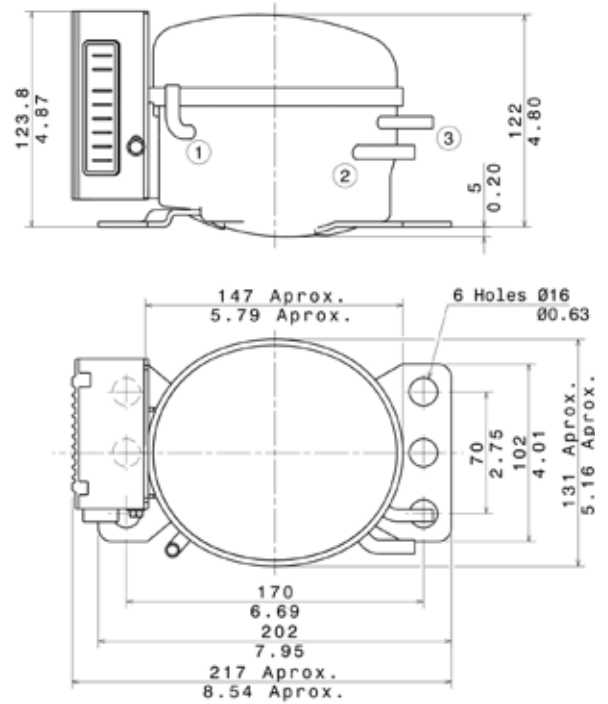
# 12-42V DC Compressors

## DL range



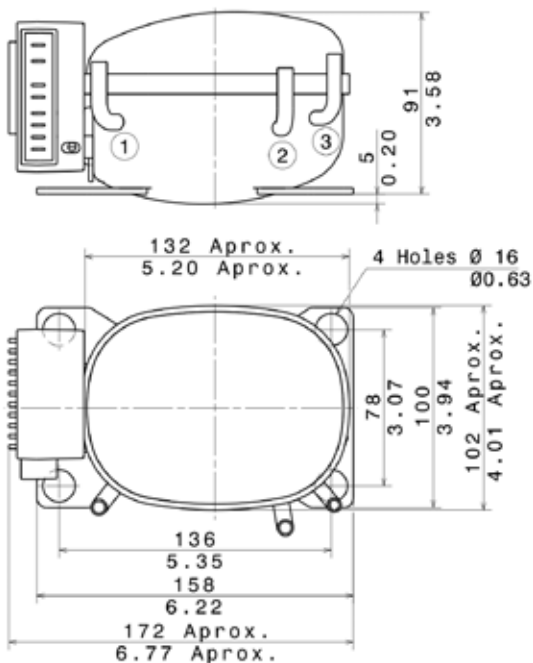
LEGEND	
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

## VDL range



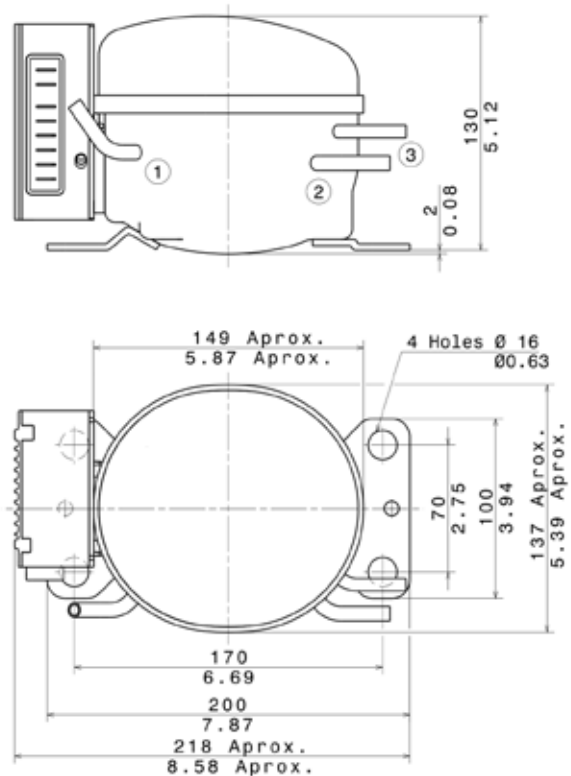
LEGEND	
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

## DM range



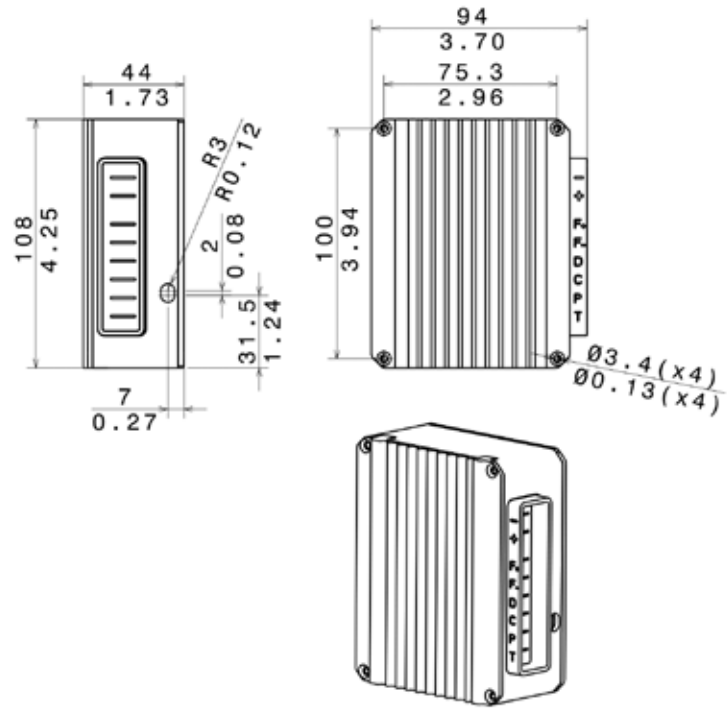
LEGEND	
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

## DK range



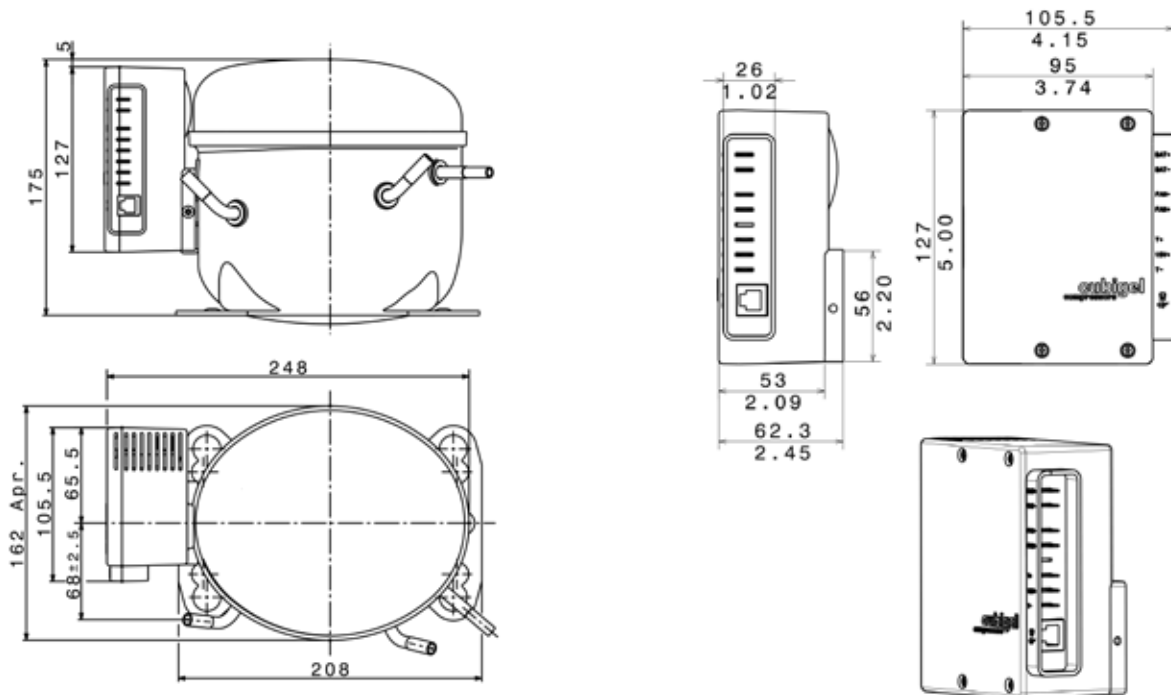
LEGEND	
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

Electronic driver DC (DL, DM, DK)



GLT80TDC

Electronic driver DC compressor (GLT80TDC)





# Fixings

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

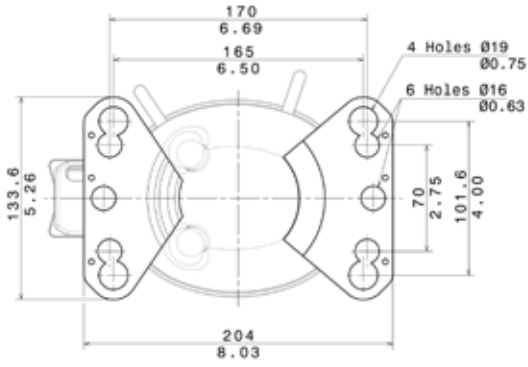
## Mounting feet

Range	Mounting feet	
Small L, HL, HK	Set of 4 holes of 16mm DIA with inter-axes: 70x170mm	
B, L, P, U, U+, HYB, HFY, HYS, HY	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 3/4 inch (19 mm) DIA with inter-axes: 4 x 6 1/2 inch (101.6 x 165 mm)
X	One set of 4 holes of 19 mm (3/4 inch) DIA with inter-axes: 114.3 x 178 mm (4 1/2 x 7 inch)	
S	One set of 4 holes of 19 mm (3/4 inch) DIA with inter-axes: 122.2 x 203.2 mm (4 13/16 x 7 7/8 inch)	

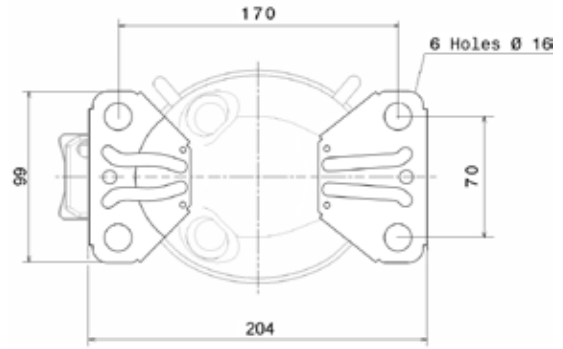
## Silent Blocks (Mounting accessories)

STANDARD Small L & B D.16 holds net	STANDARD D.16 holds net	AMERICAN FEET D.19 holds net	STANDARD X & S D.19 holds net	SNAP-ON D. 16 holds net	AMERICAN SNAP-ON D.19 holds net
<p>1. Mounting sleeve    2. Silent block</p>				<p>1. Clip    2. Washer    4. Axis</p>	

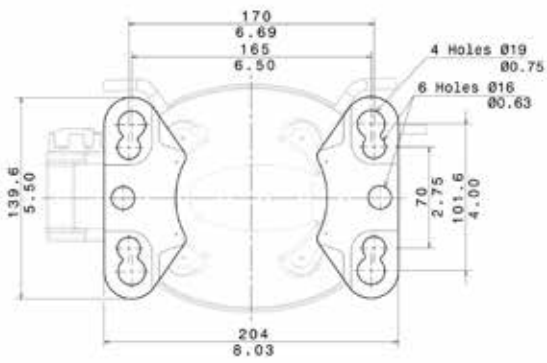
**B Range** (American mounting feet)



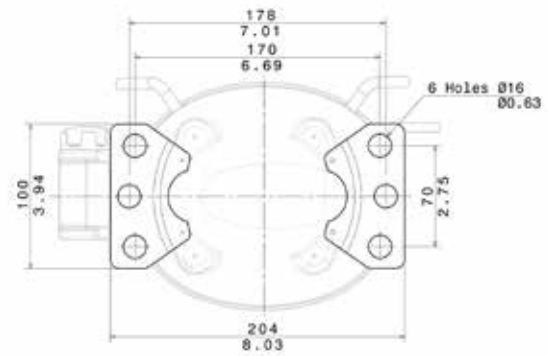
**Small L & B Range** (European mounting feet)



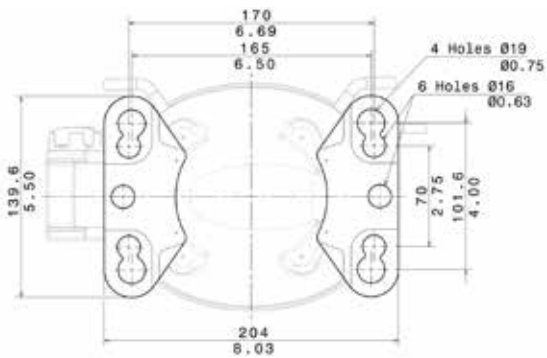
**HYE Range** (American mounting feet)



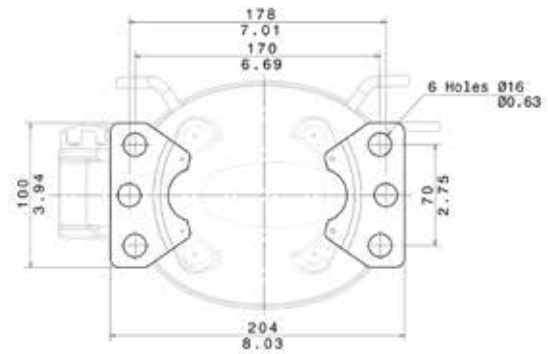
**HYE Range** (European mounting feet)



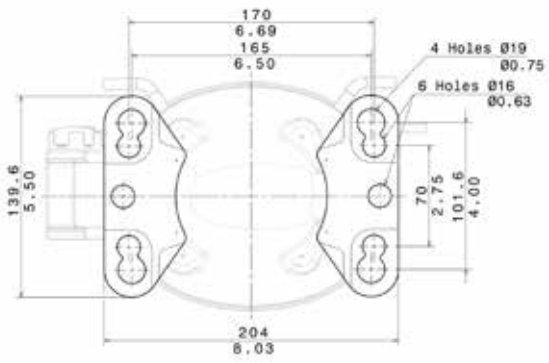
**HYB Range** (American mounting feet)



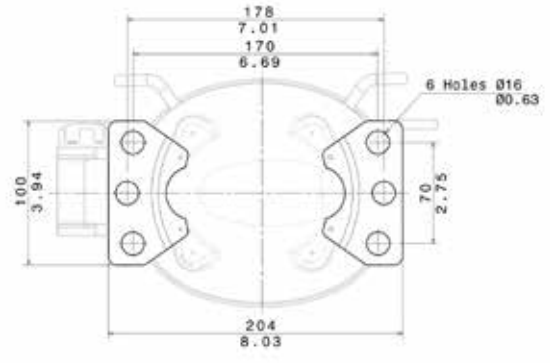
**HYB Range** (European mounting feet)



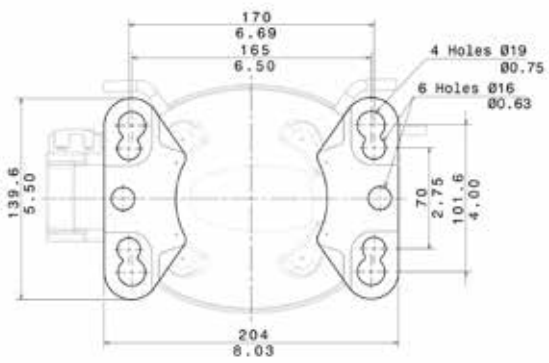
**HFY Range** (American mounting feet)



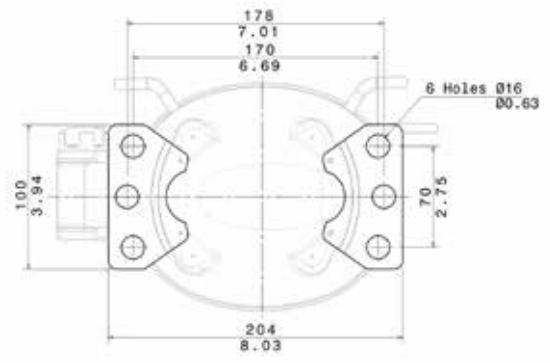
**HFY Range** (European mounting feet)



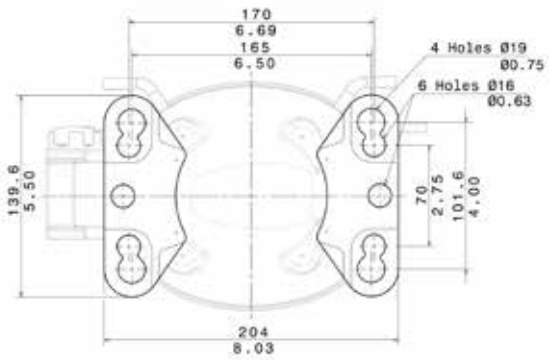
**HYS Range** (American mounting feet)



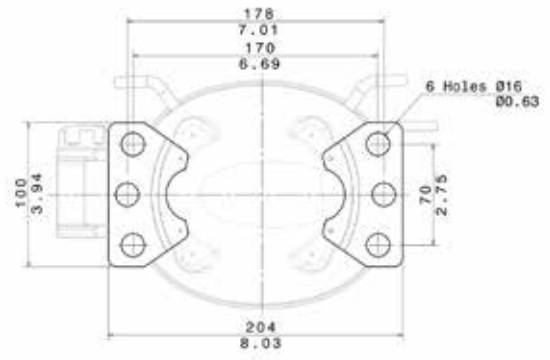
**HYS** (European mounting feet)



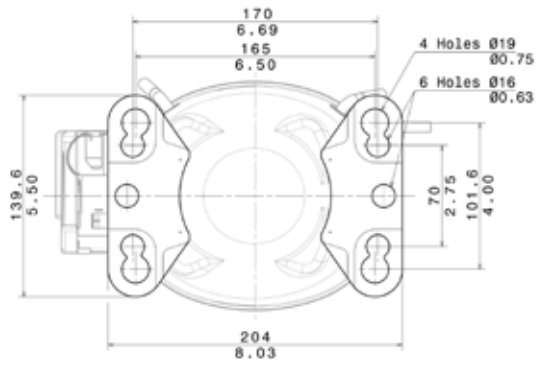
**HY Range** (American mounting feet)



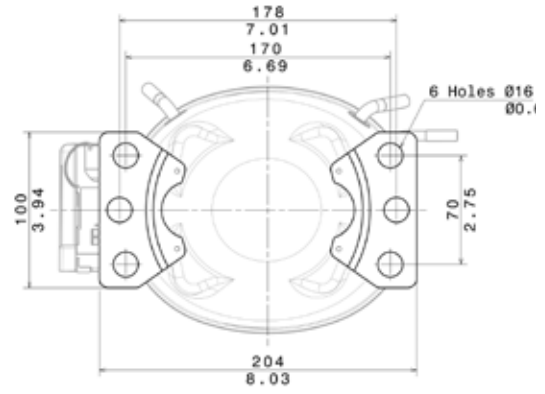
**HY Range** (European mounting feet)



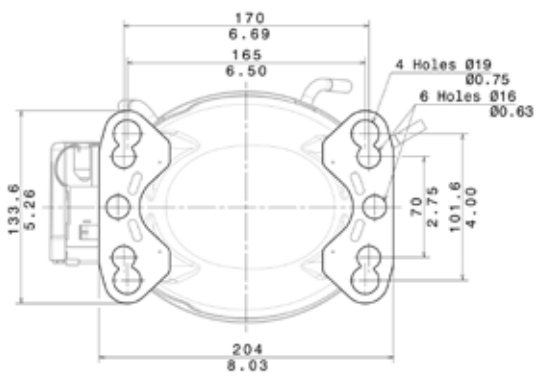
**U & U+ Range** (American mounting feet)



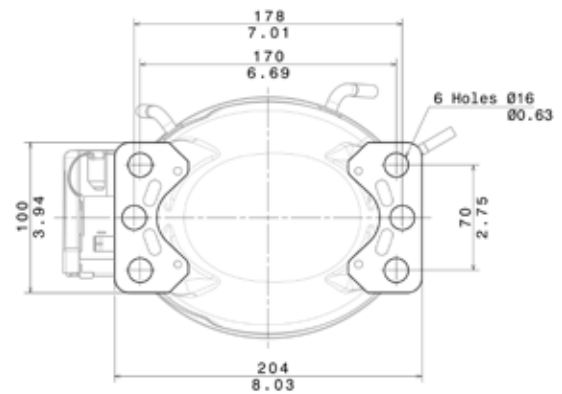
**U & U+ Range** (European mounting feet)



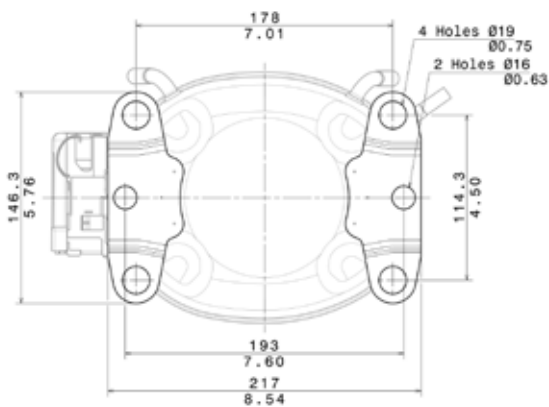
**L & P Range** (American mounting feet)



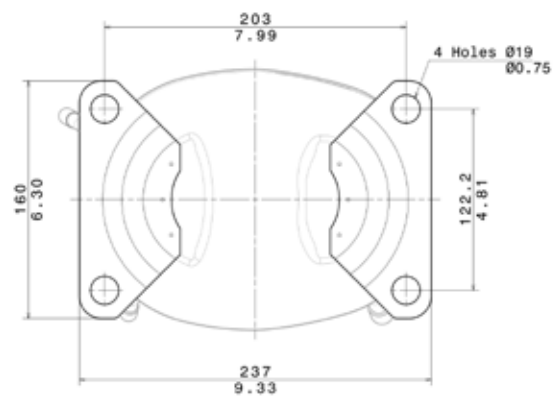
**L & P Range** (European mounting feet)



**X Range**

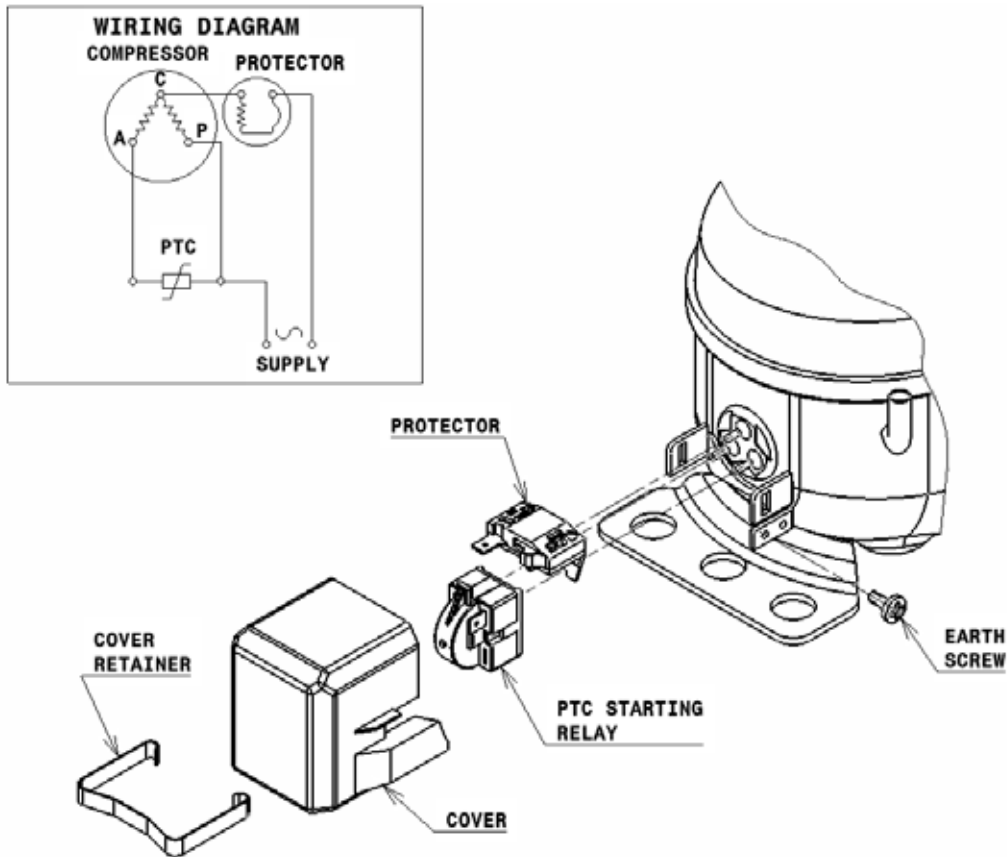


**S Range**

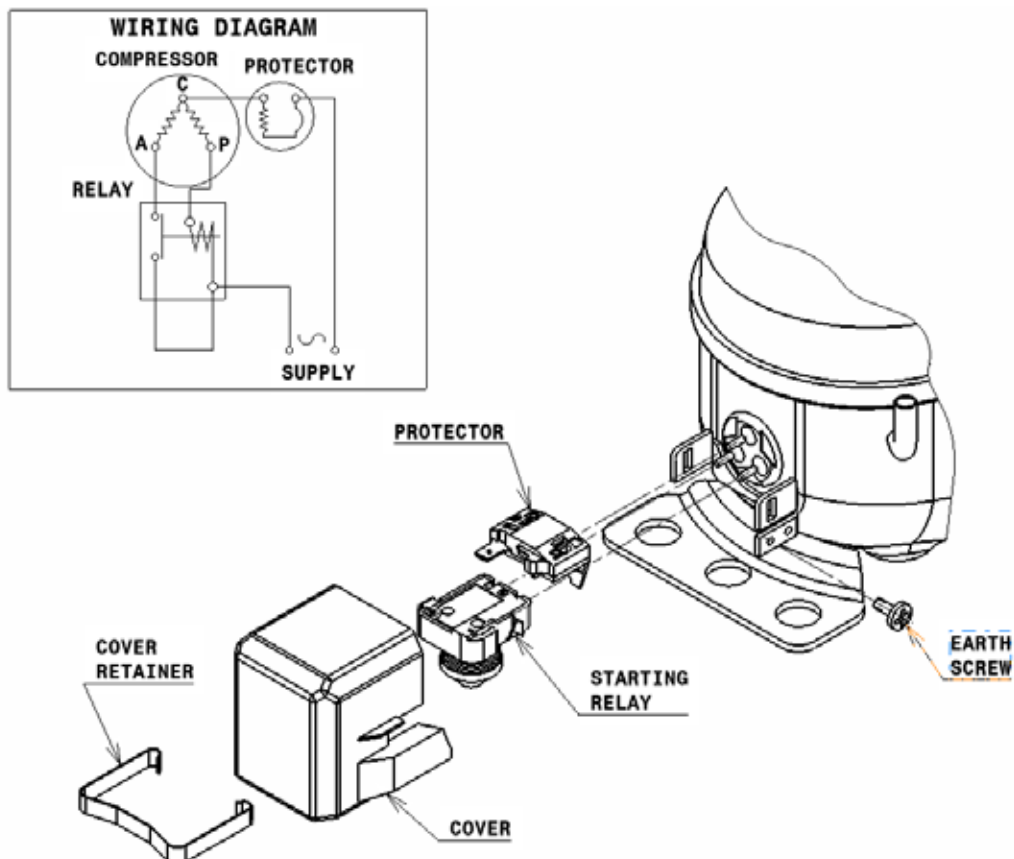


# Wiring Diagrams and Electrical Assembly

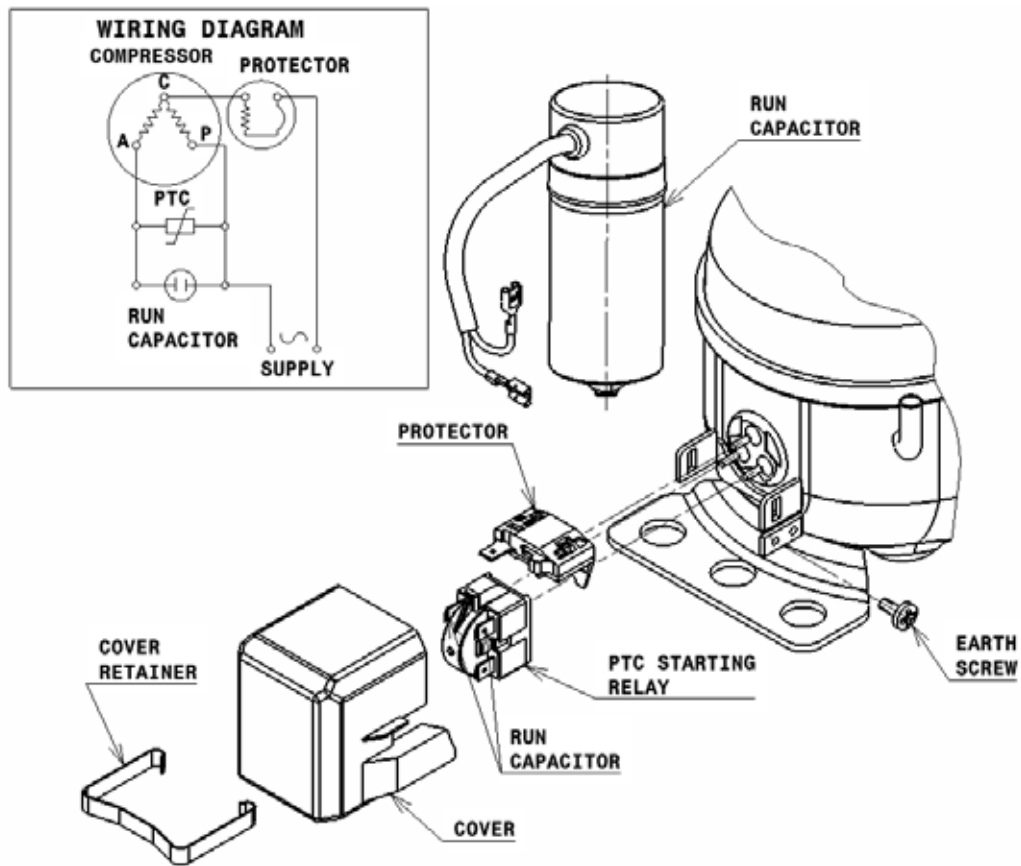
## RSIR-PTC (Small L, B, HL and HK ranges)



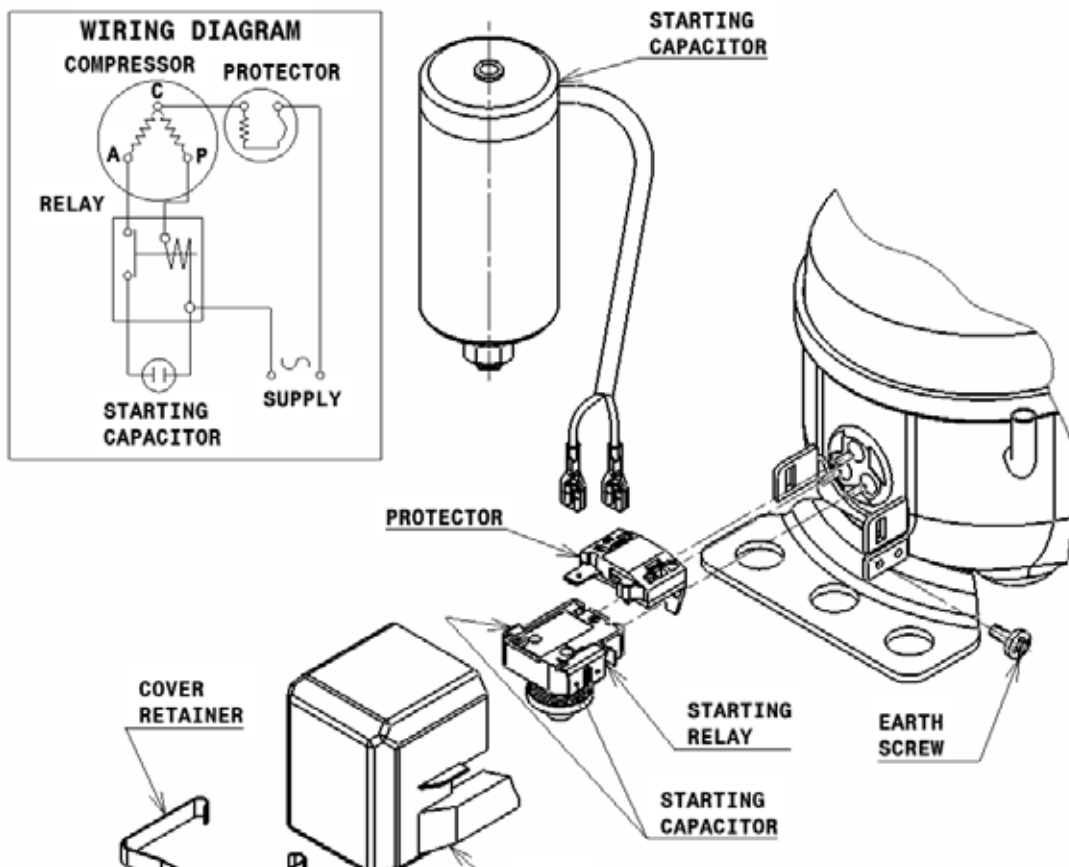
## RSIR-Relay (Small L, B, HL and HK ranges)



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

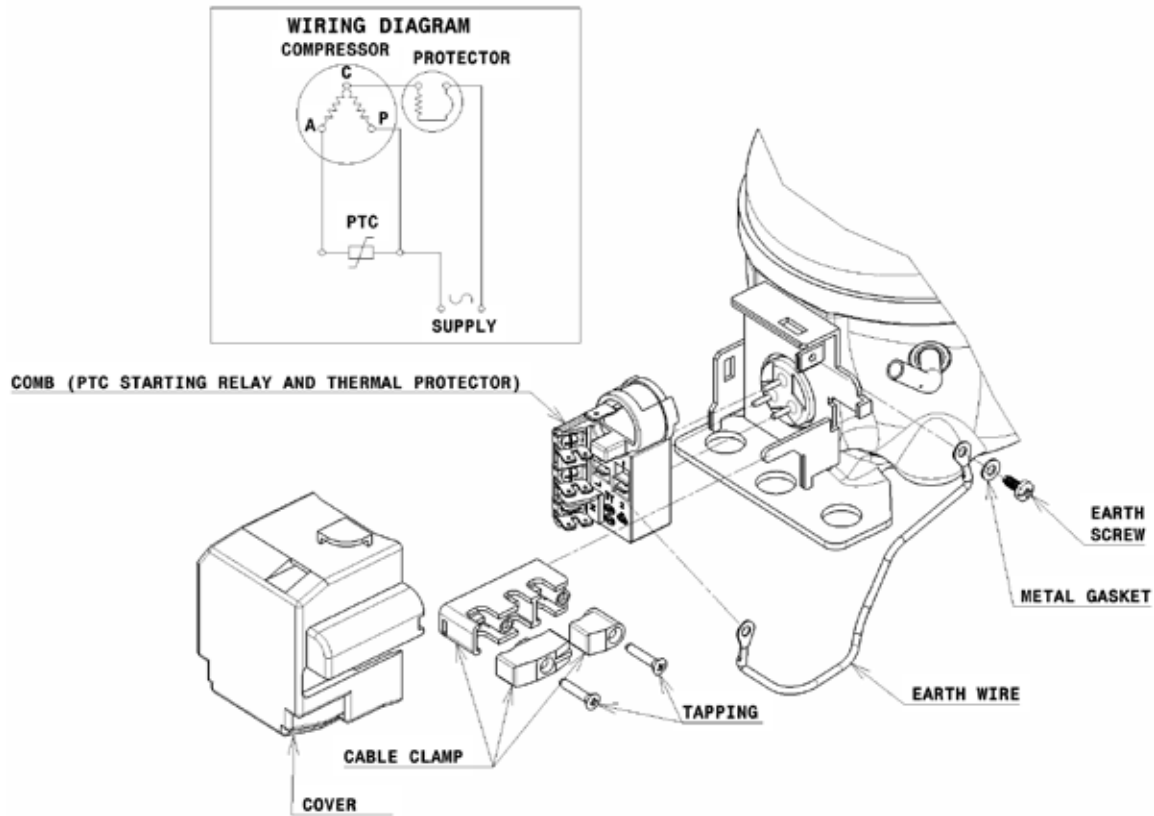


## CSIR-RELAY (Small L, B, HL and HK ranges)

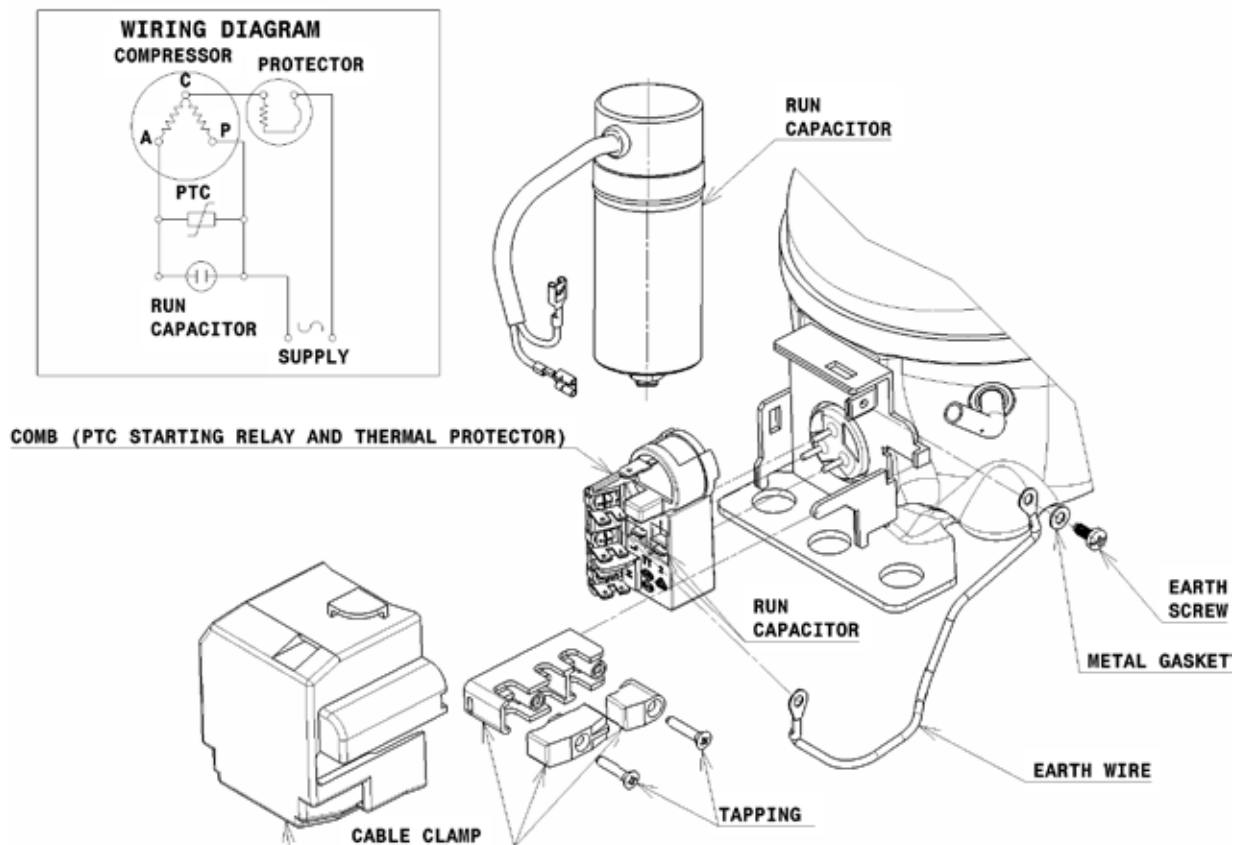




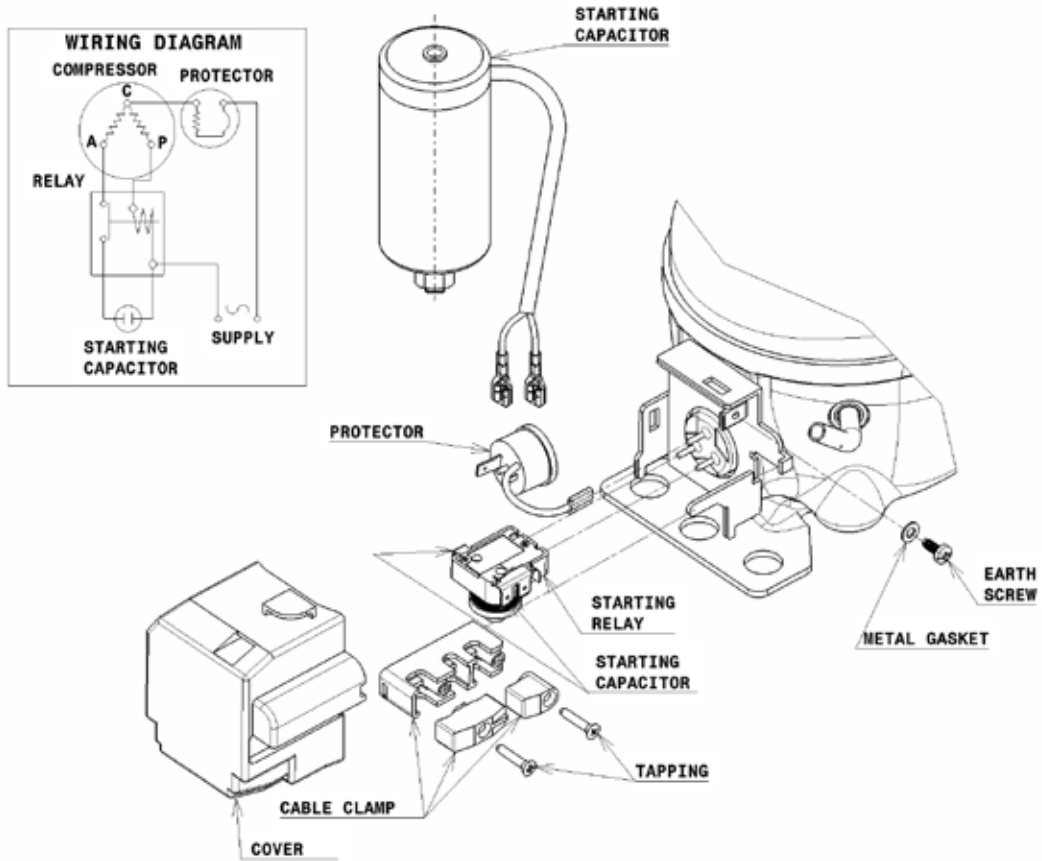
## RSIR - (HY, HYE, HYB, HYS, HFY and NUM)



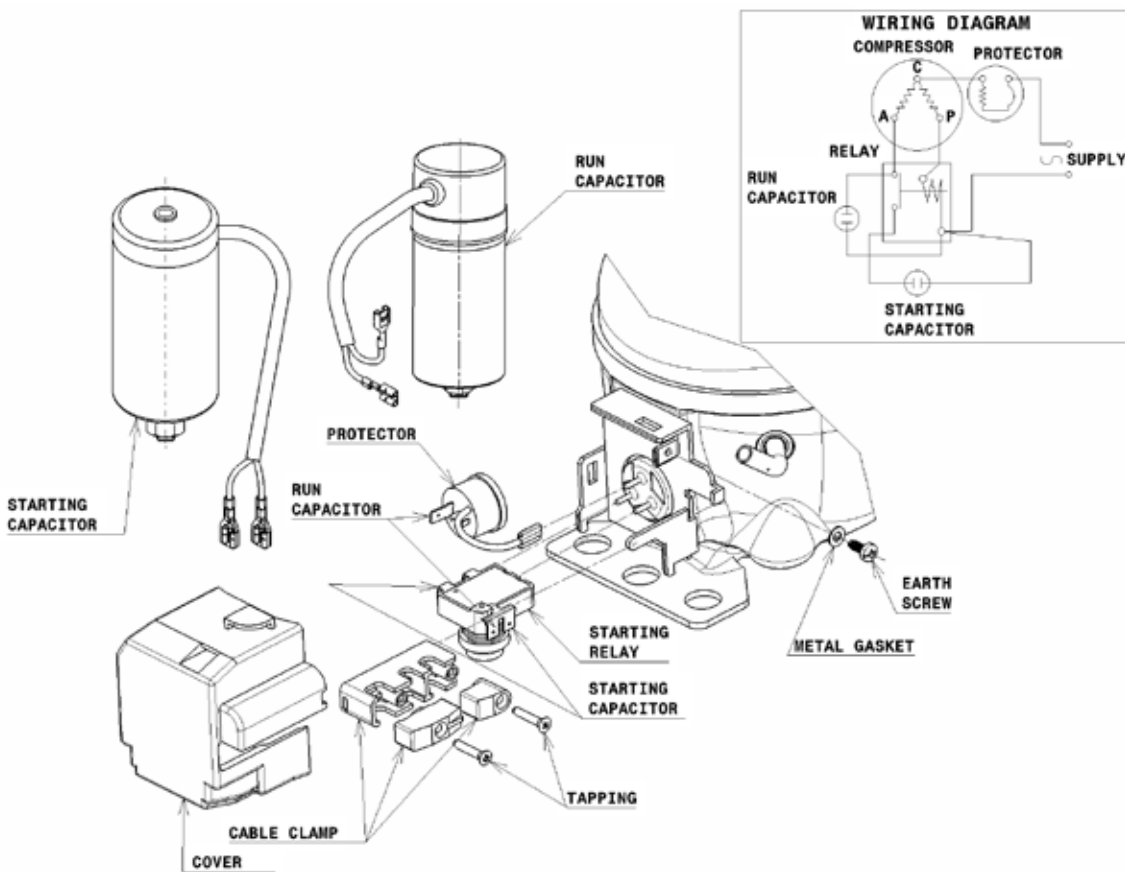
## RSCR - (HY, HYE, HYB, HYS, HFY and NUM)



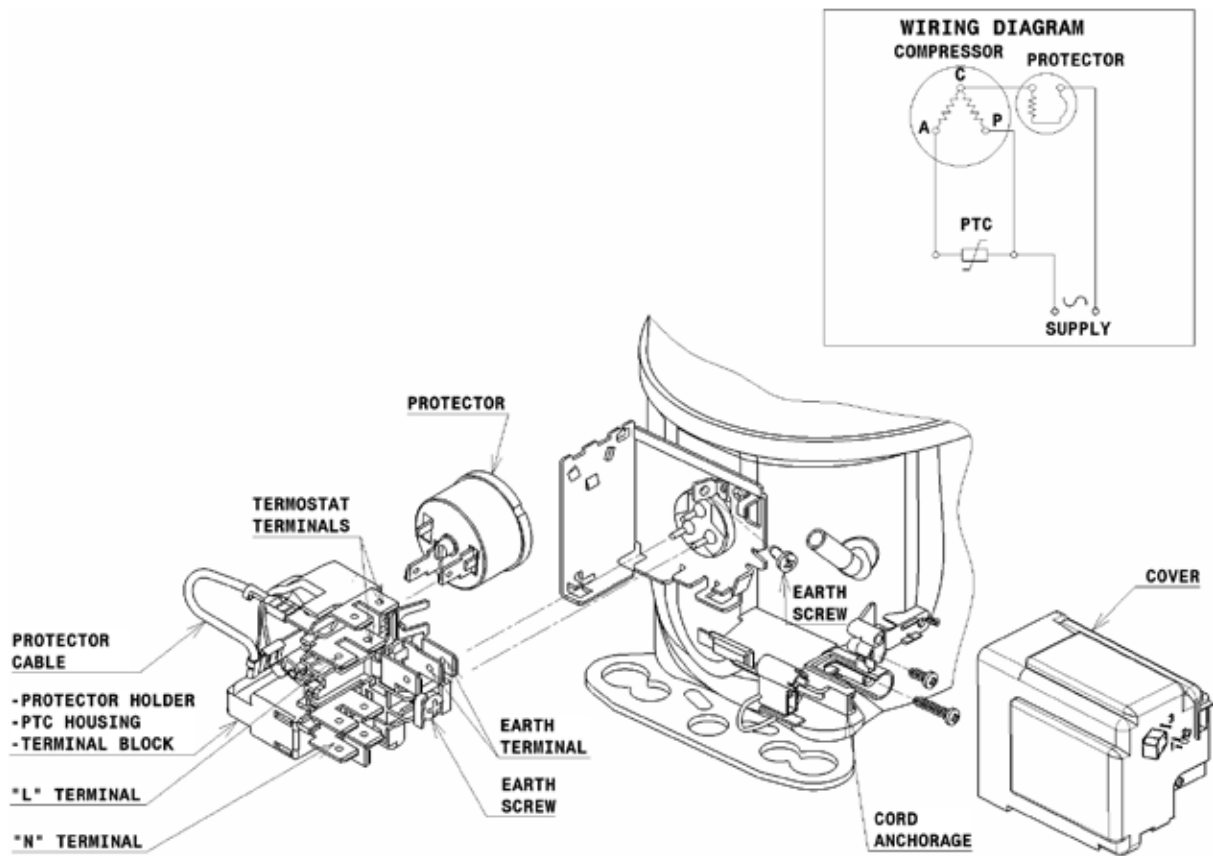
## CSIR- RELAY (HY, HYE, HYB, HYS, HFY and NUM)



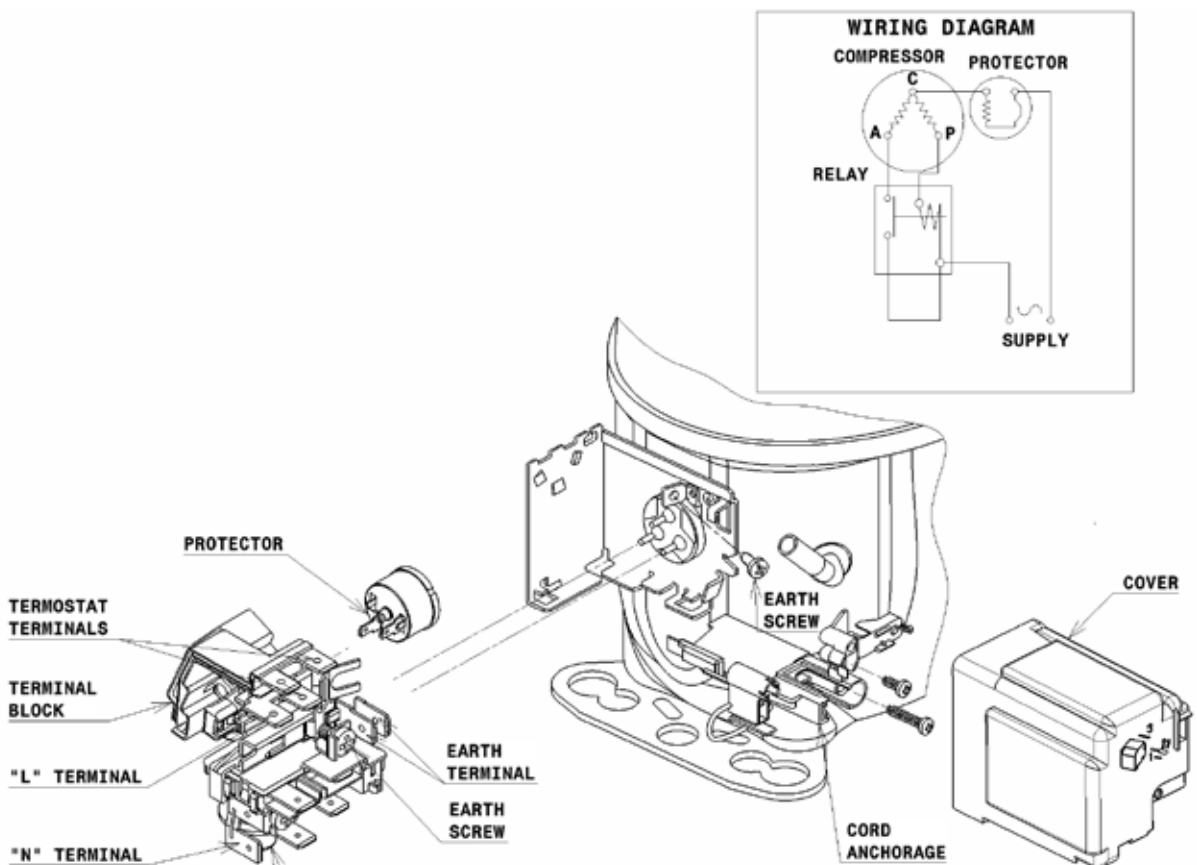
## CSR - RELAY (HY, HYE, HYB, HYS, HFY and NUM)



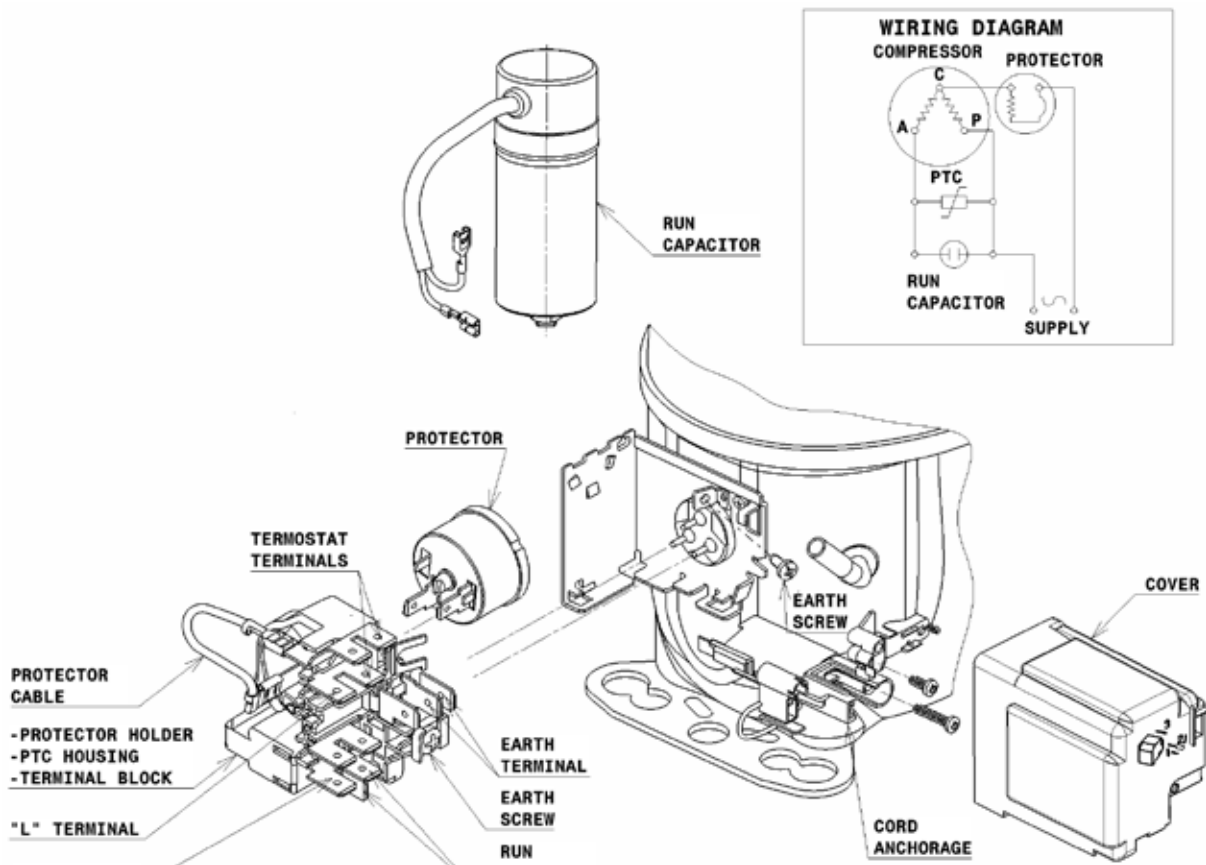
## RSIR-PTC (L, U, U+ and P ranges)



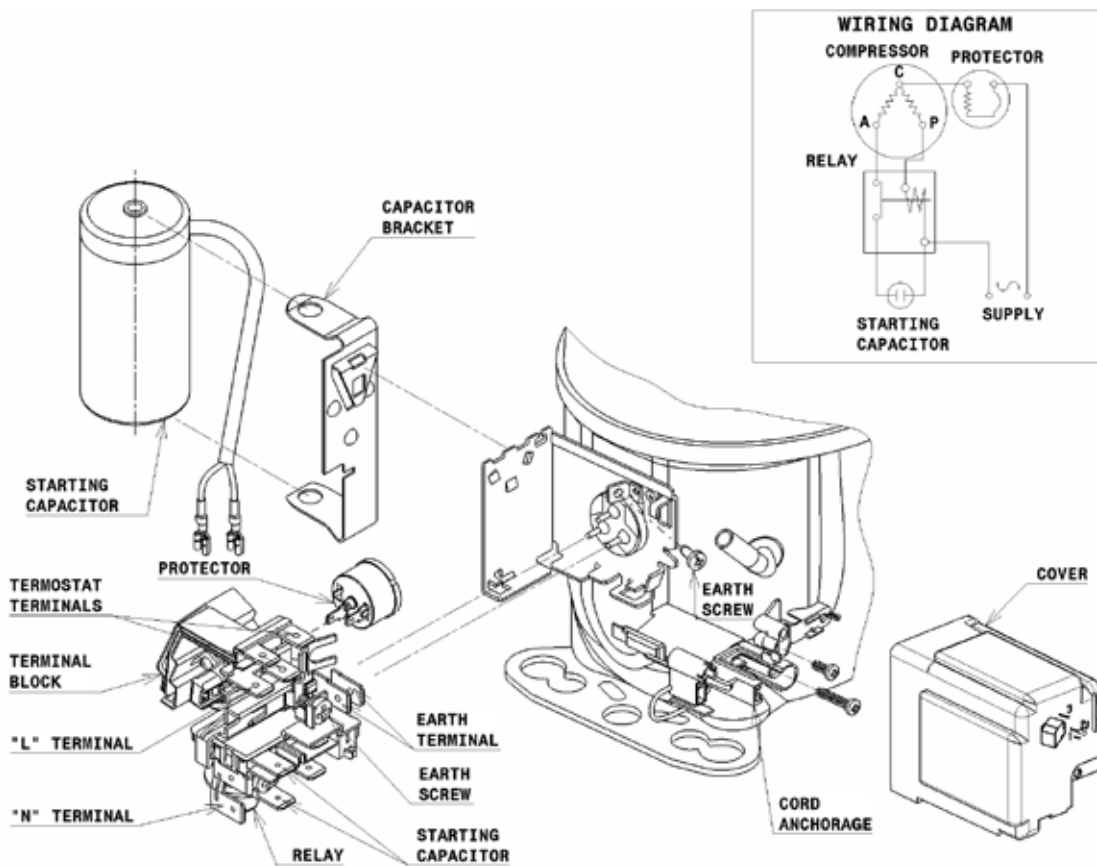
## RSIR-Relay (L, U, U+ and P ranges)



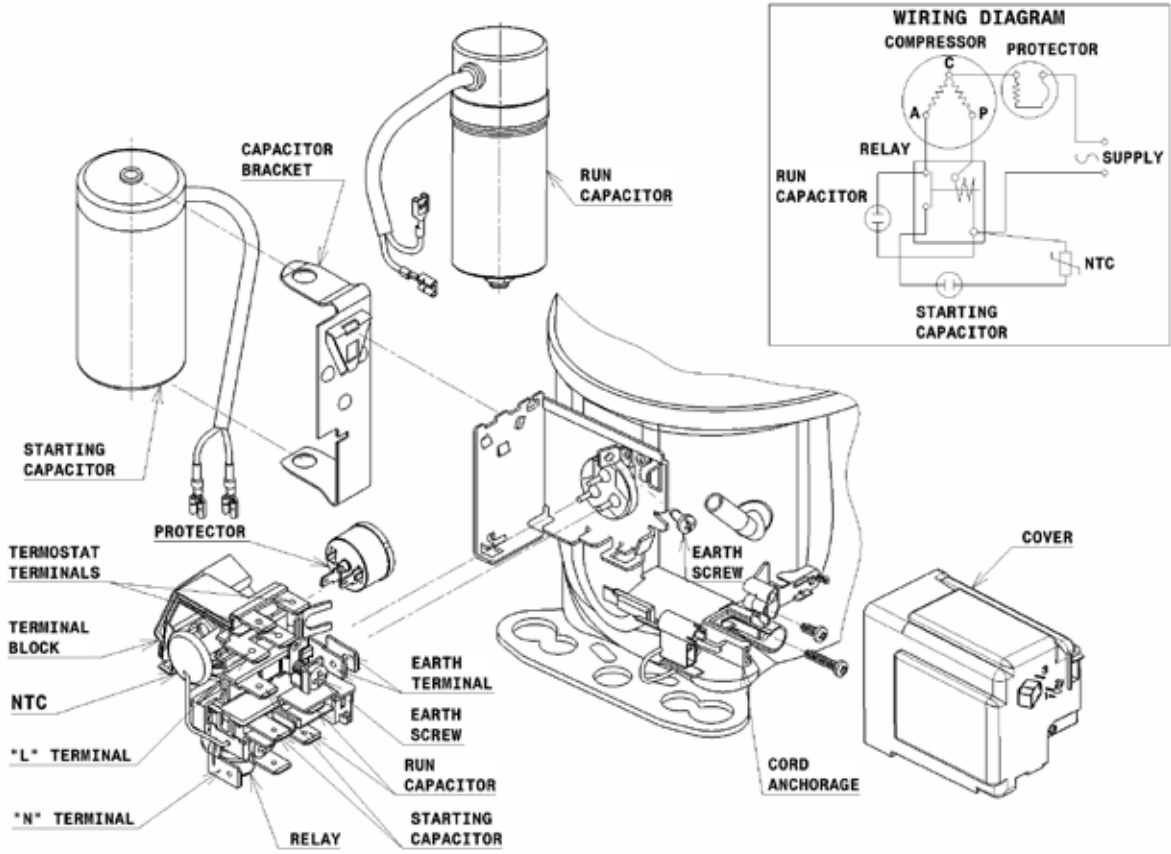
## RSCR-PTC (L, U, U+ and P ranges)



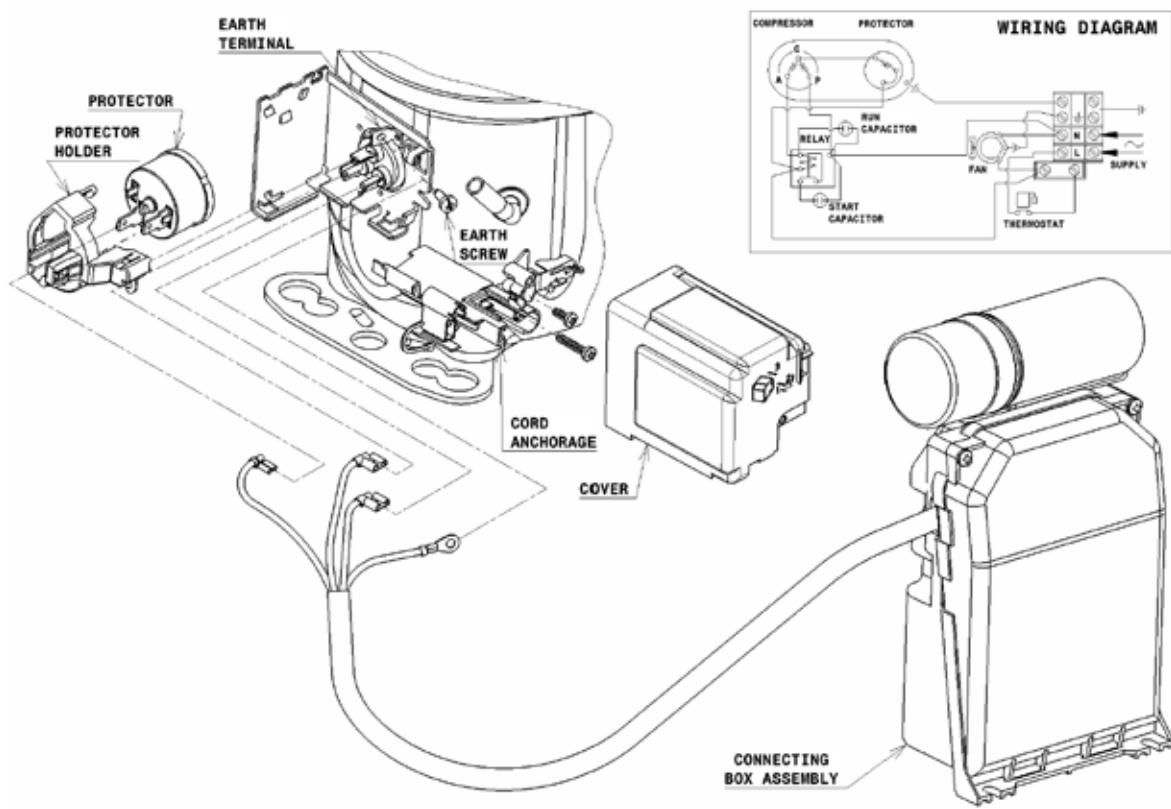
## CSIR-RELAY (L, U, U+, P and X ranges)



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

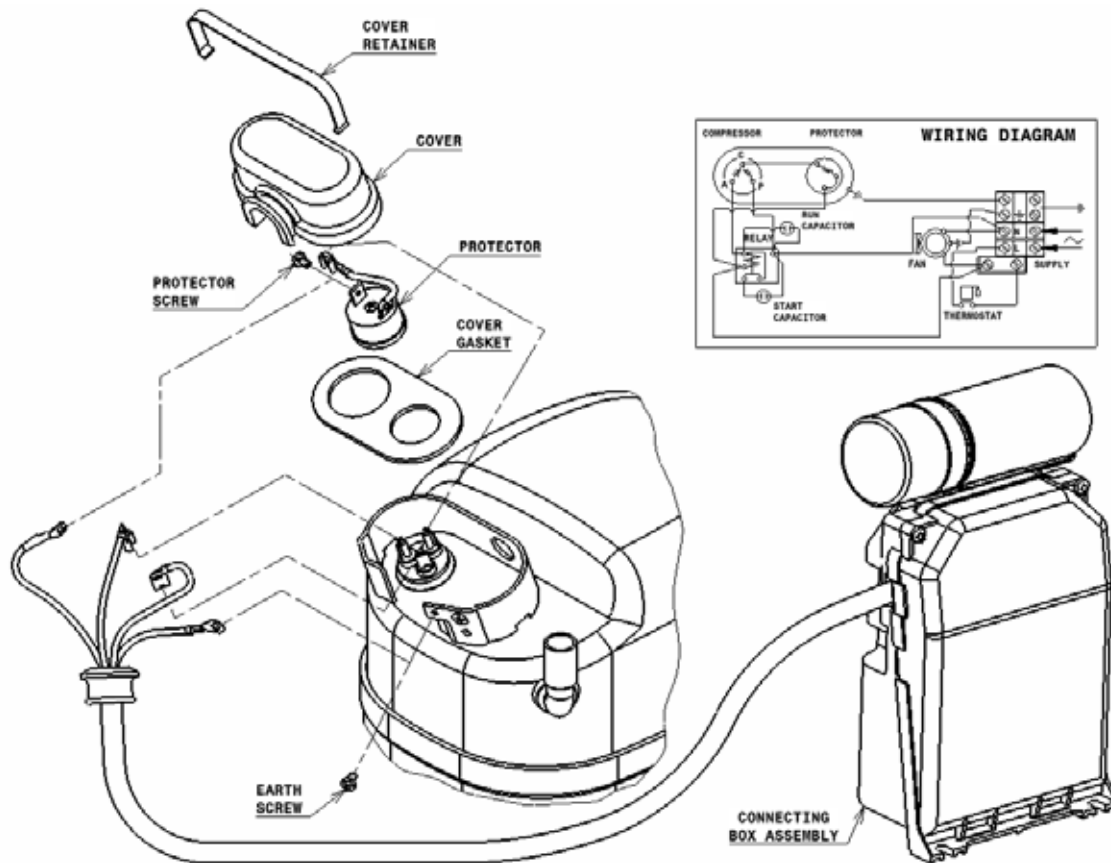


## CSR-CAJA-RELAY (P and X range)

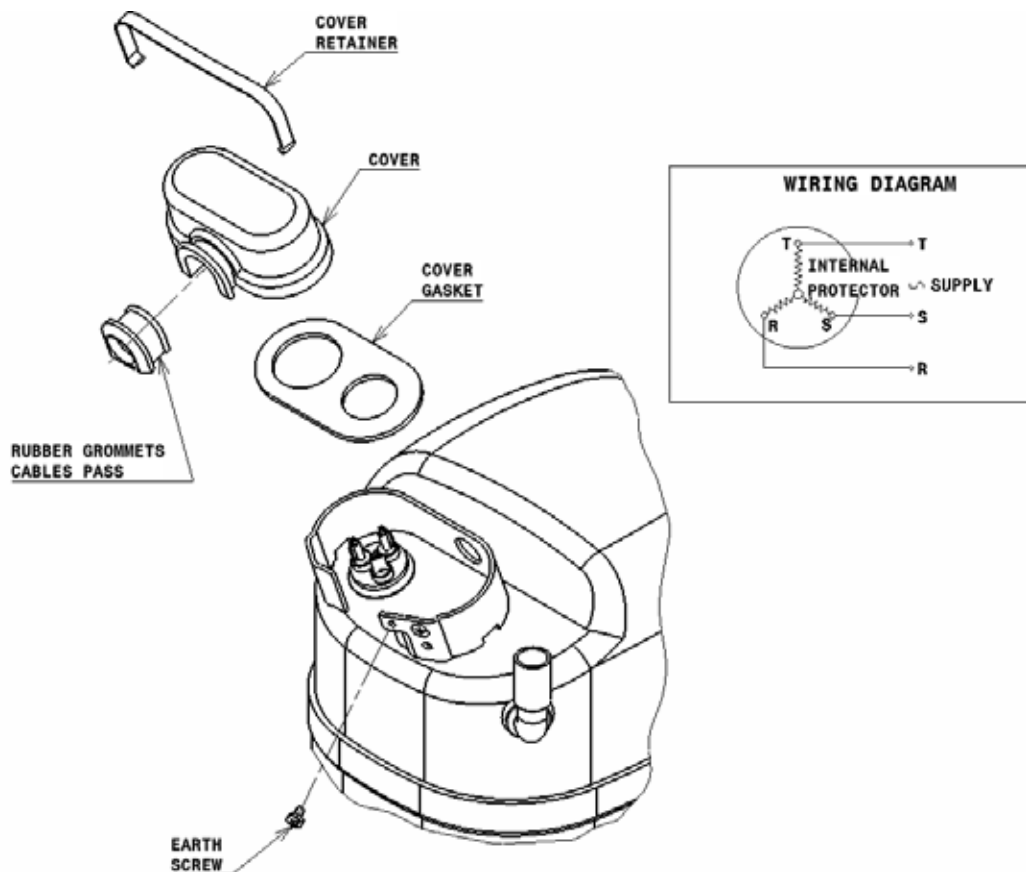




## CSR-CAJA-RELAY (S range)



## 3PH (S range)





# Packaging & Logistics

## Single Box

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

## Tray

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

## Quantities by Pallet Compressors

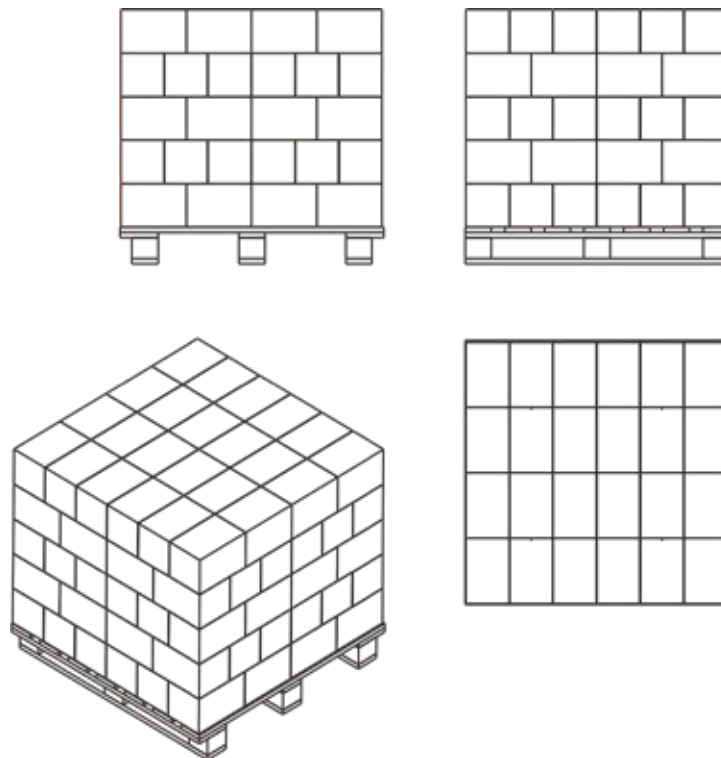
Range	Tray			Single Box		
	Qty / Level	N° Levels	Qty / Pallet	Qty / Level	No. Levels	Qty / Pallet
Small L	25	6	150	24	5	120
B / HL / HK	25	5	125	24	5	120
HY / HYE	18	4	72	20	4	80
HYB	25	5	125	25	4	100
HYS / HFY	18	4	72	25	4	100
U	18	5	90	20	5	100
U+	18	5	90	20	5	100
L	24	5	120	20	5	100
P	24	5	120	20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

## Pallet Product Layout

### Single Box Pallet Distribution

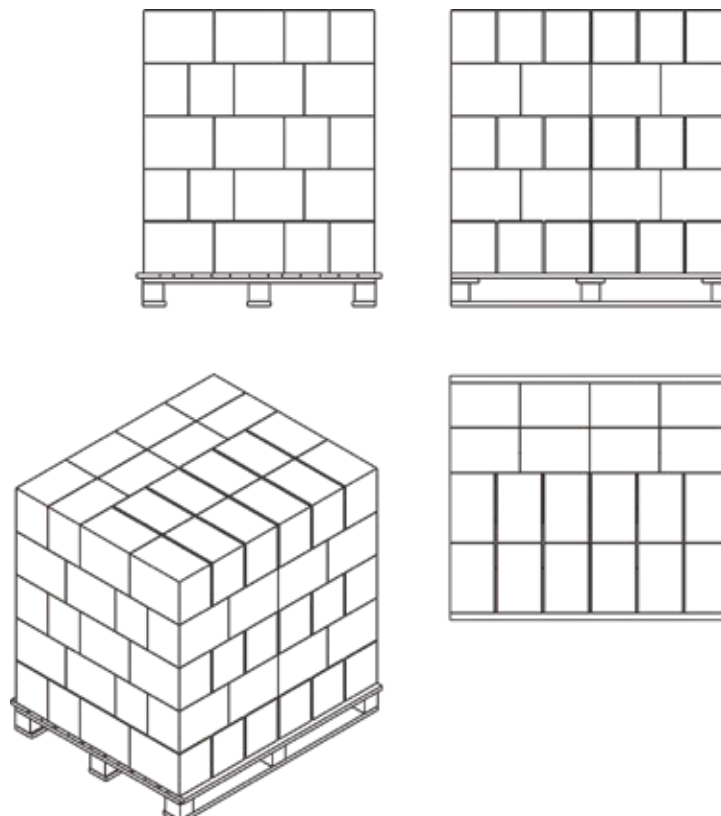
#### Small L , B , HL & HK

---



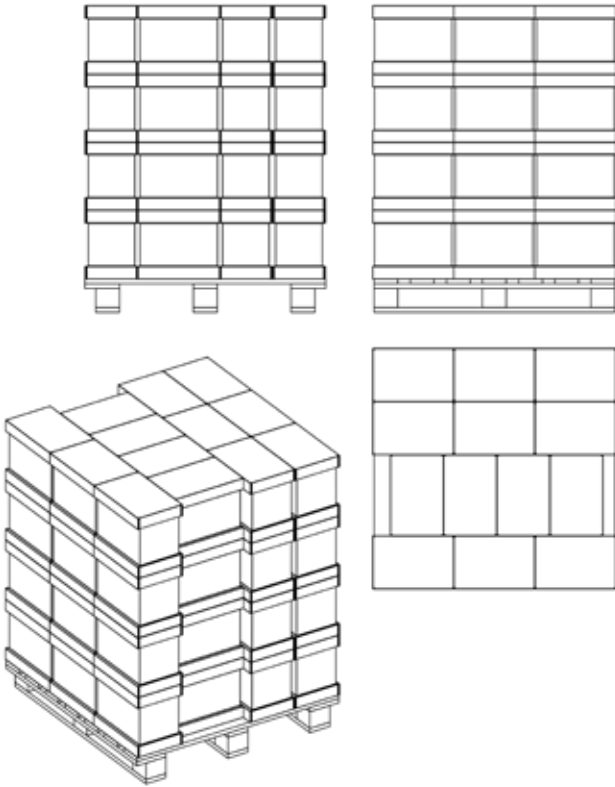
#### U, U+, L & P Ranges

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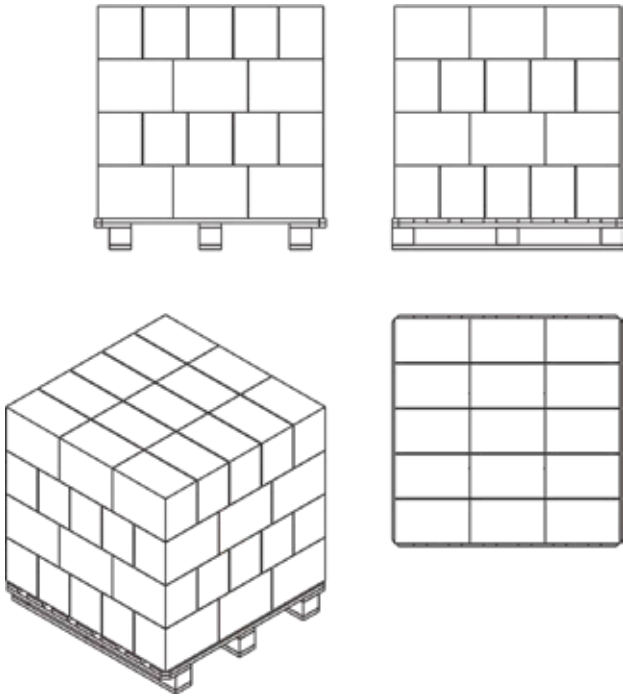
**S Range**

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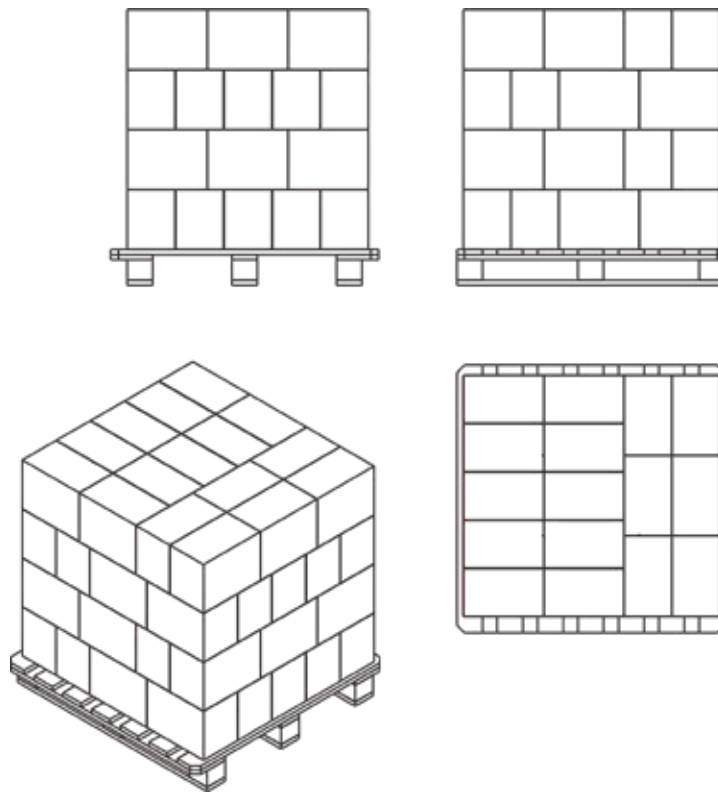
**X Range (con caja conex.)**

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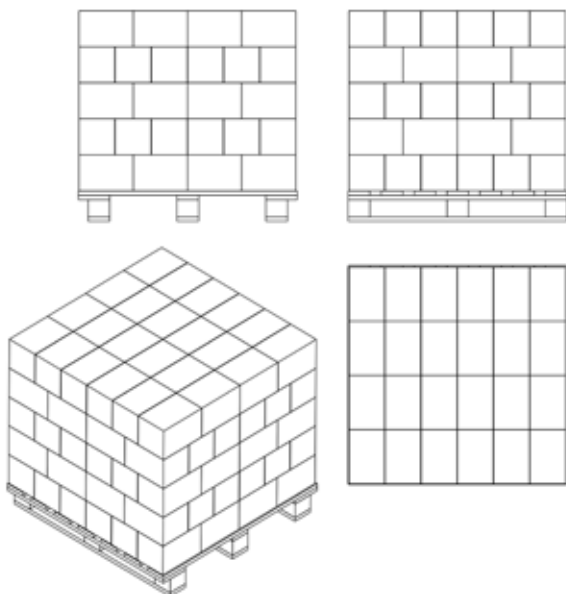
## X Range (without external box)

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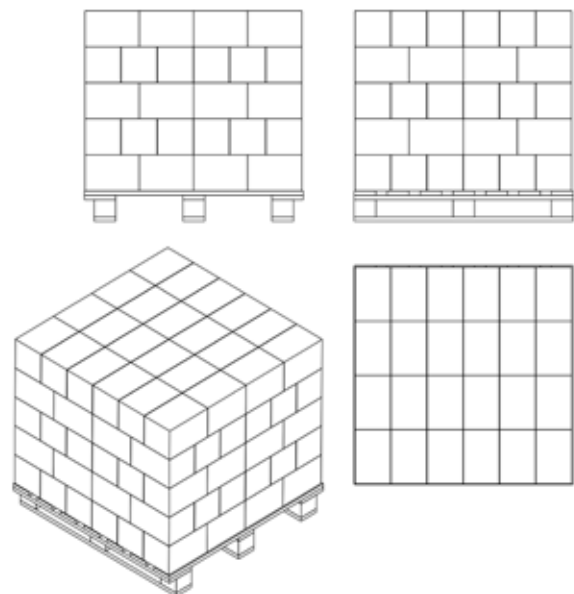
## Single box pallet distribution HY & HYE

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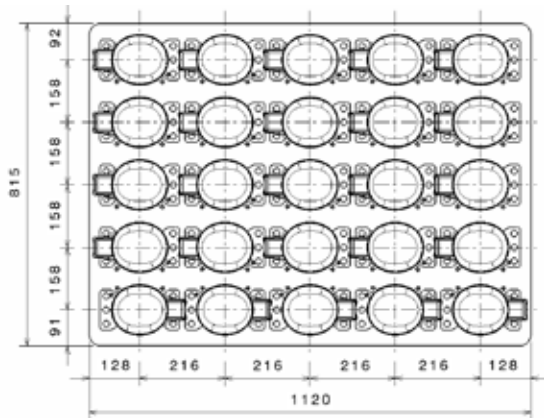
## Single box pallet distribution HYB, HYS & HFY

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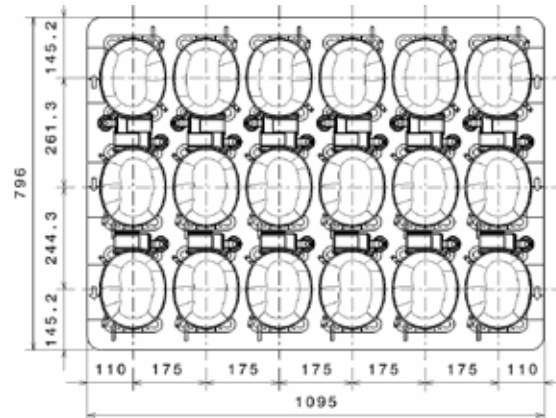


## Tray per Pallet

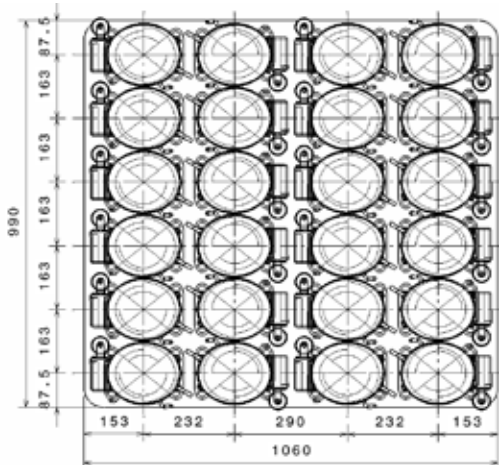
### Small L, B, HL, HYB & HK



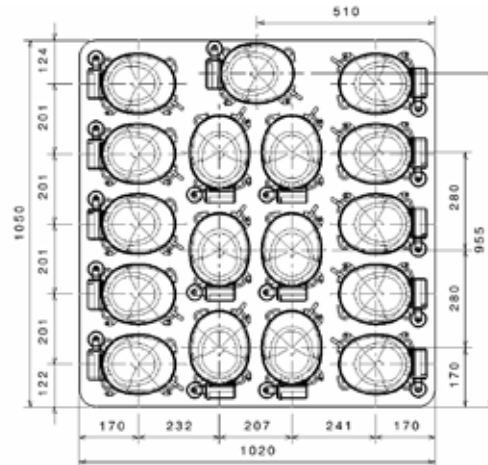
### HYS, HYE, HY, HFY, U & U+



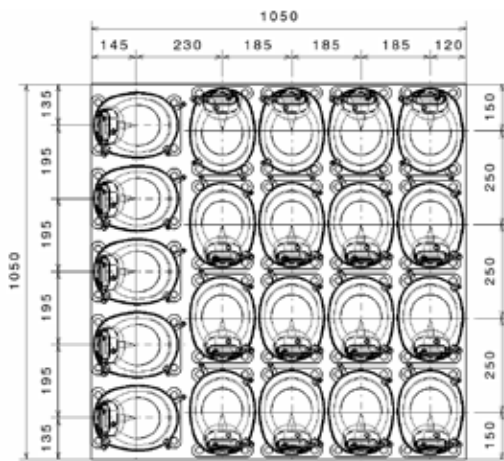
### L & P



### X



### S

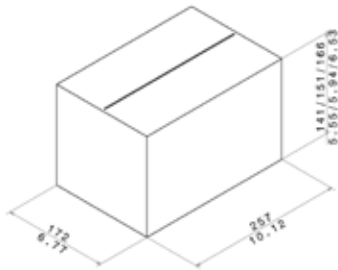


## Pallet label

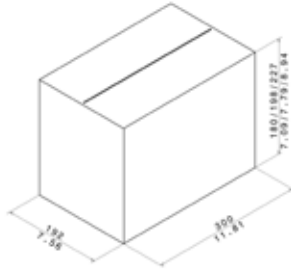
Receiver <b>CUSTOMER</b>	Customer <b>00000</b>	Customer part number <b>00000000-000</b>
Work Order <b>00000</b>	Supplier name <b>HUAYI COMPRESSOR</b>	
Part Name(P) <b>000000</b> 		<b>0000</b> <b>A00 / MUELLE</b> <b>000000</b> <b>DD.MM.YYYY 00:00:00</b>
Quantity(Q) <b>00,000 UN</b> 	Description <b>COMPRESSOR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

## Single Boxes Drawings

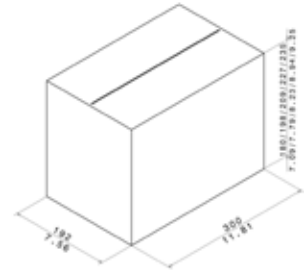
Small L, B, HL & HK



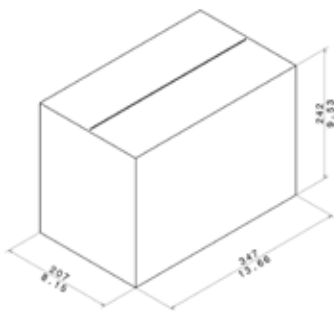
U & U+



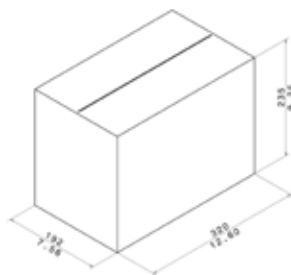
L & P Ranges



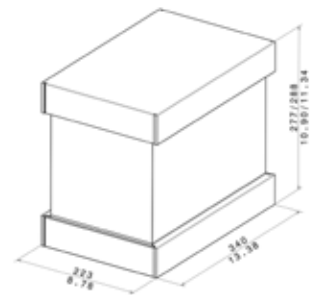
X with electric box



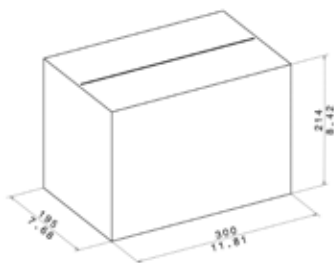
X without electric box



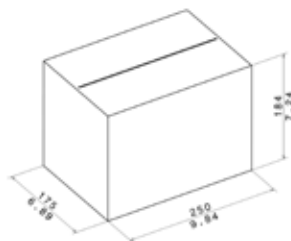
S Range



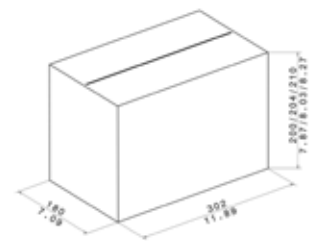
HY



HYB, HYS & HFY

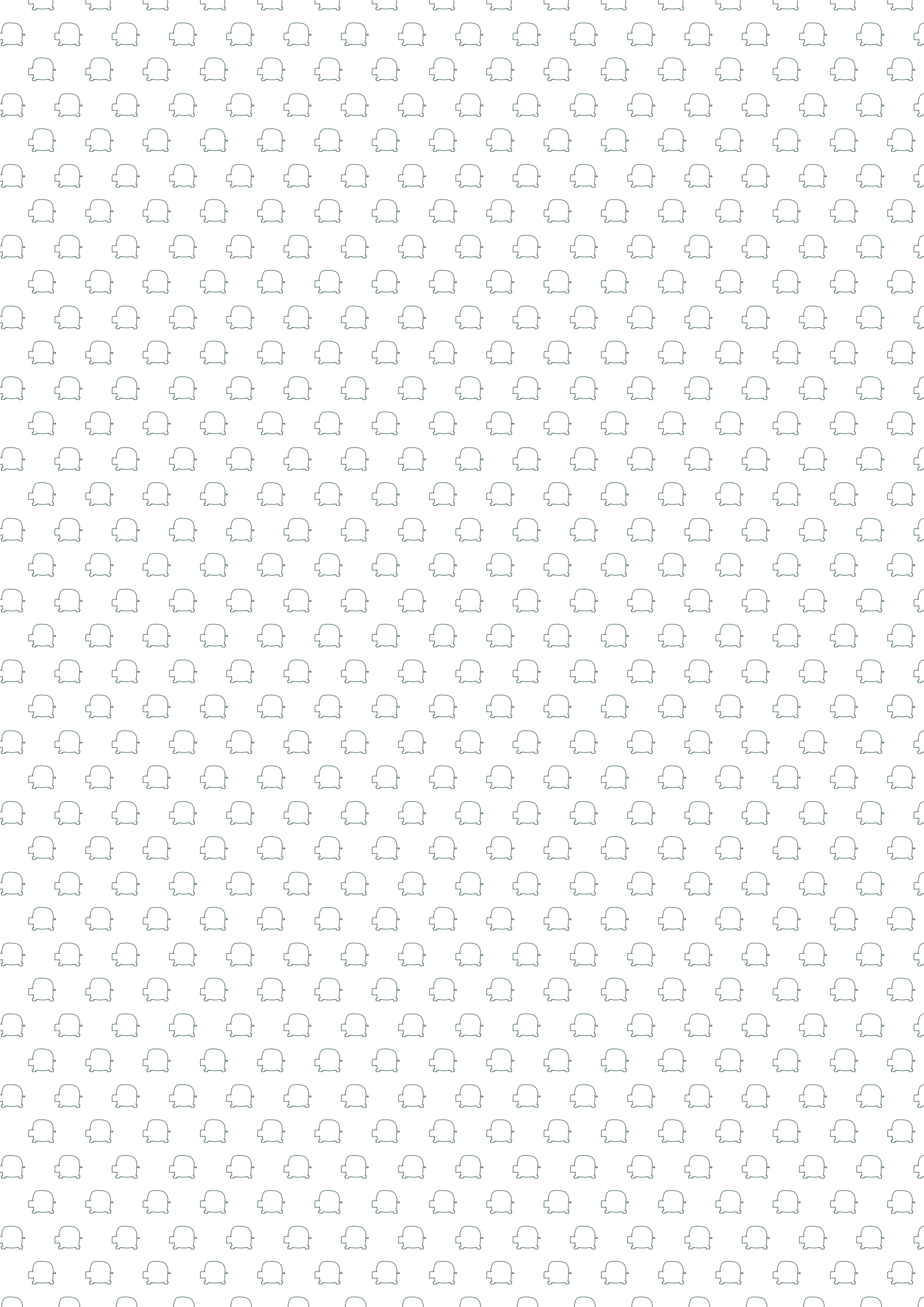


HYE













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