

GENERAL CATALOGUE

Compressors



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



HUAYI
COMPRESSOR
BARCELONA



For every type of application

The most complete range of products



Sustainable Cooling

Natural Refrigerants



Low energy consumption

Worldwide presence



Mobile applications

HUAYI COMPRESSOR BARCELONA

Leading manufacturer
of compressors





Huayi Compressor Barcelona

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

More than
50 years

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

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HUAAYI



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General Information



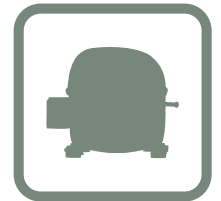
Research and Development

Leadership



Reliability

Innovation



Cutting-edge technology

People



The Company

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

Huayi Compressor Co., Ltd.

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

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

Huayi Compressor Barcelona, S.L.

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

Oriented to develop quality product supported by European production, with more than 100 million compressors produced under the Cubigel Compressors® brand, the company mission has remained the same during more than 50 years of experience developing compressors and satisfying the refrigeration market trends of Commercial Refrigeration.

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





The Product

Extended range of compressors

The most complete range of hermetic compressors for every commercial application under the Cubigel Compressor® brand. The offer includes more than 500 different models of compressors from ranges of 2.2 to 38cc, in most refrigerant gases, main voltages and types of applications.



Condensing Units

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



The green cooling ranges

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



Compressors for mobile applications

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



Family of Compressors and Condensing Units

small



Small L range

Features:
More compact, more efficient
Range:
2.20 to 3.10 cc
Refrigerants:
R134a, R600a
Applications:
Small refrigerators and freezers

B range

Features:
More displacement, more efficient, compactness
Range:
2.20 to 6.50 cc
Refrigerants:
R134a, R600a, R290
Applications:
Water coolers, can / bottle coolers, small refrigerator and freezers



U range

Features:
The most efficient, Compact size, Extremely silent, Green Cooling
Range:
4.50 to 8.90 cc
Refrigerants:
R134a, R290, R600a, R1234yf
Applications:
Ice Cream Freezers, Bottle Coolers, Chest coolers, Freezers, Refrigerated display counters, Display cabinets

L range

Features:
The highest efficient range with propane (R290) & isobutene (R600a)
Range:
4.56 to 10.7 cc
Refrigerants:
R134a, R404A, R452A, R600a, R290, R507, R1234yf
Applications:
Household Refrigerators, Bottle Coolers and Freezers, Can Coolers, Chest Freezers, Vending Machines, Ice Cream Freezers, Beer Dispensers, Ice Makers, Soft Drink Dispensers, Heat Pumps Systems





P range

Features:

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

Range:

12.10 to 18.00 cc

Refrigerants:

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

Applications:

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

X range

Features:

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

Range:

16.03 to 23.20 cc

Refrigerants:

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

Applications:

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



S range

Features:

Top capacity range, Optimized design to reduce vibration

Range:

18.10 to 38 cc

Refrigerants:

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

Applications:

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

CONDENSING UNITS

Features:

Complete range of Condensing Units from 2.20 to 34.42 cc
High reliability & top-quality components
Specific customized versions
Designed to work under 43° C tropical conditions

Refrigerants:

R134a, R404A, R290, R407C, R507, R1234yf

Applications:

Suitable for all applications





The Green Cooling Ranges

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

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

reductions up to 45% compared to standard versions; consequently, lower CO₂ emissions to the atmosphere.

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

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

High Efficiency Ranges

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



Natural Refrigerants

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

Refrigerant propane has no direct contribution to global warming and its energy consumption is between 10% to 15% lower than a similar application with R404A. The Cubigel Compressors® R290 compressors offer a higher cooling capacity and COP allowing energy-saving consumption with smaller displacement.

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

Variable Speed Compressors

The Variable Speed Compressor offers the lowest energy consumption by means of electronically self-adjusting the compressor's speed to the appliance's cooling needs, while improving COP up to 50%.

Using Smart Speed® software with communication capabilities, this compressor automatically achieves the best efficiency for the appliance while dynamically adapting the compressor's speed to the needed cooling capacity.

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

Variable
Speed
Compressors



Features:

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

Models:

GLT99FSN, NPT12FSC, NLT60FSN, NVT70FSC

Refrigerant:

R290, R134a





DC Compressors for mobile applications

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

The GLT80TDC is the answer to the needs of users requiring comfort and reliability while traveling, either on holidays, at work or in any other circumstance where a DC powered air conditioner is utilized.

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

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

DC
Compressors
Range



Features:

DC compressors for mobile applications, exceptionally silent
Ready to work under heavy duty operating conditions
24-42V DC

Models:

GLT80TDC.

Refrigerant:

R134a

Condensing Units

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

Features, Benefits and Customized versions

Features and Benefits

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

Condensing
Units

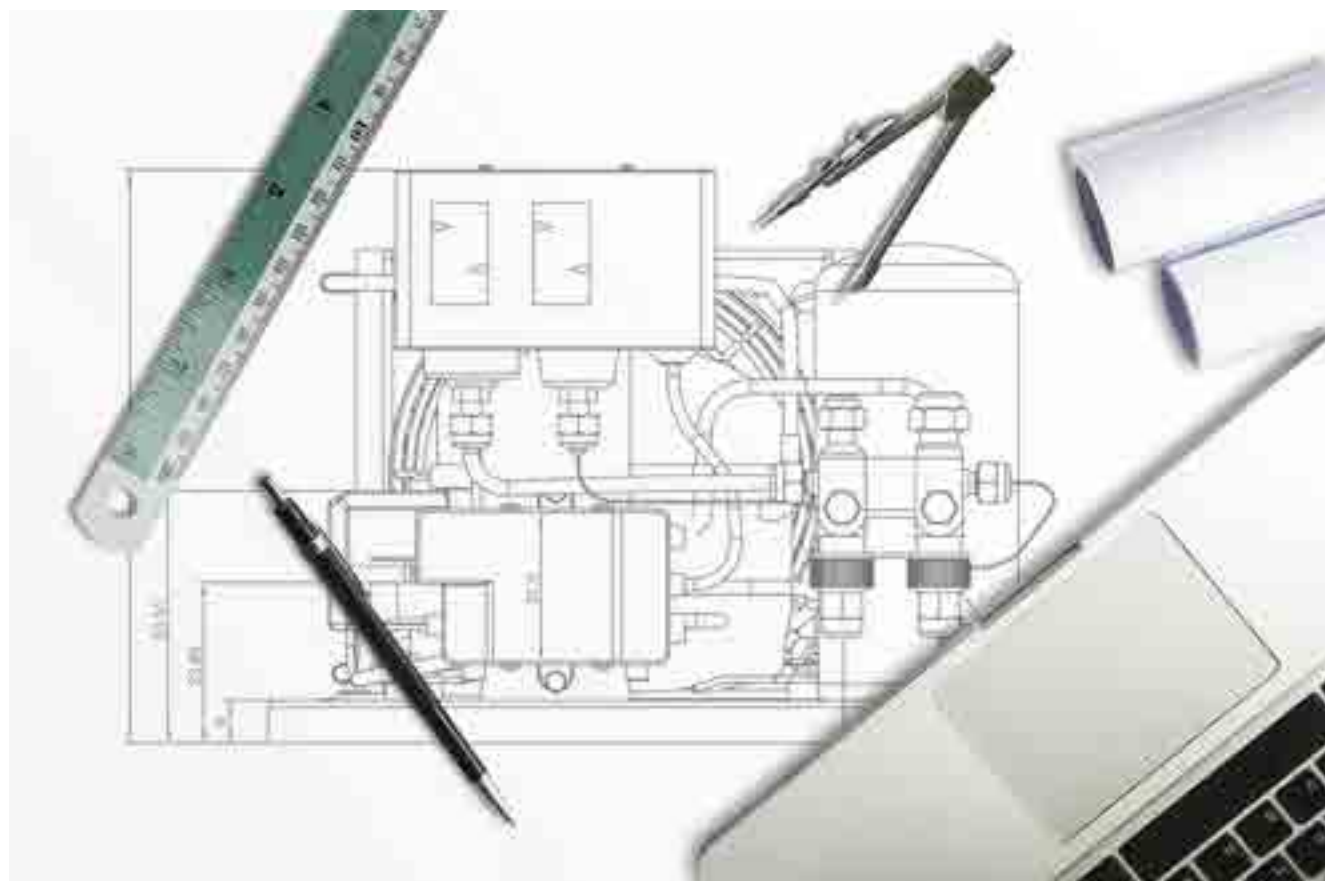


Main specific components

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

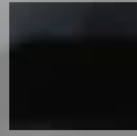
Main specific services

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





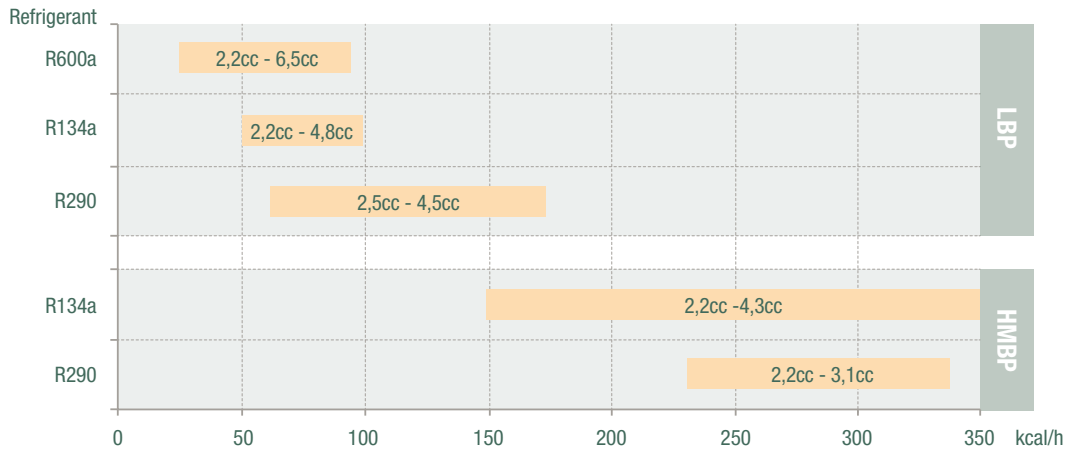
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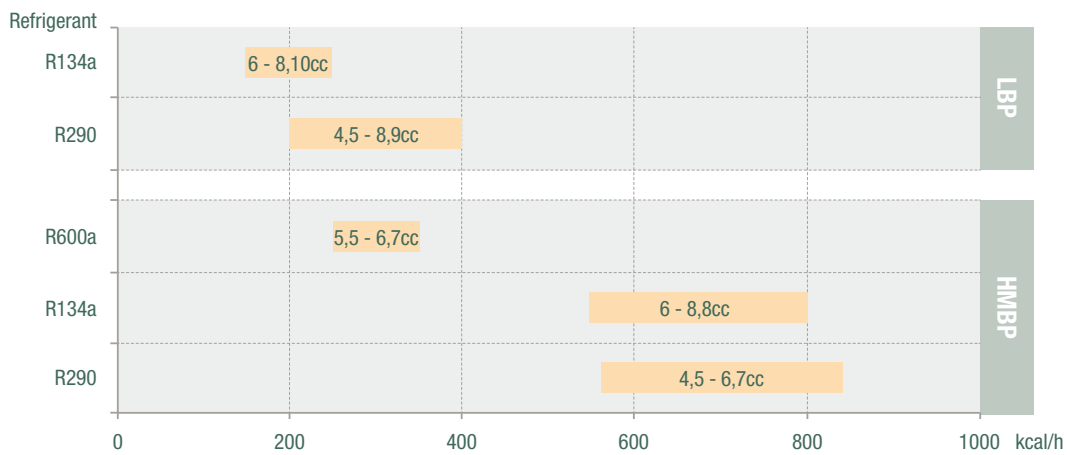
Compressor Information

Compressors ranges by Cooling Capacity

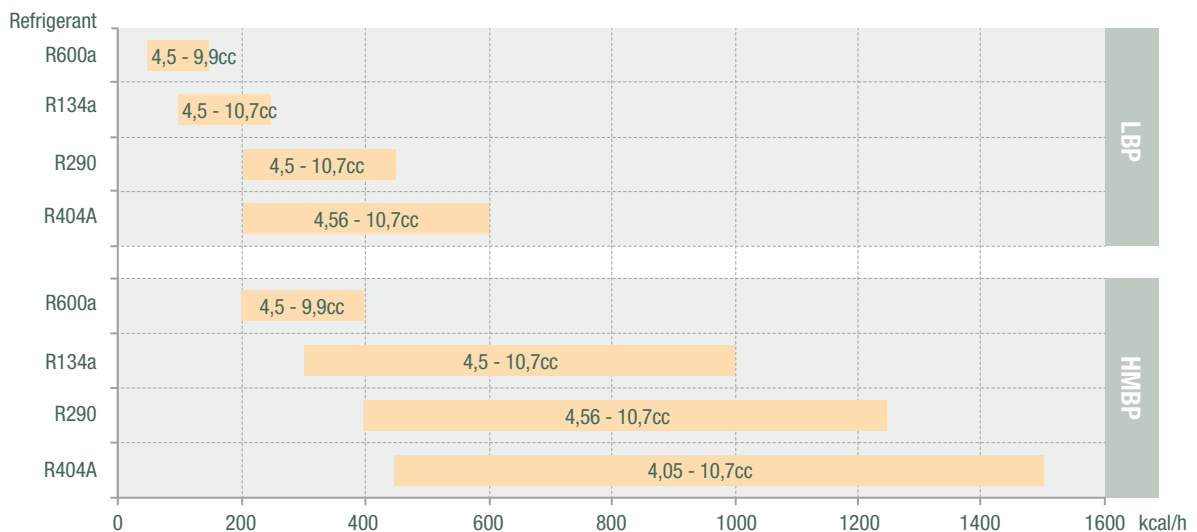
Compressors Ranges Small L & B



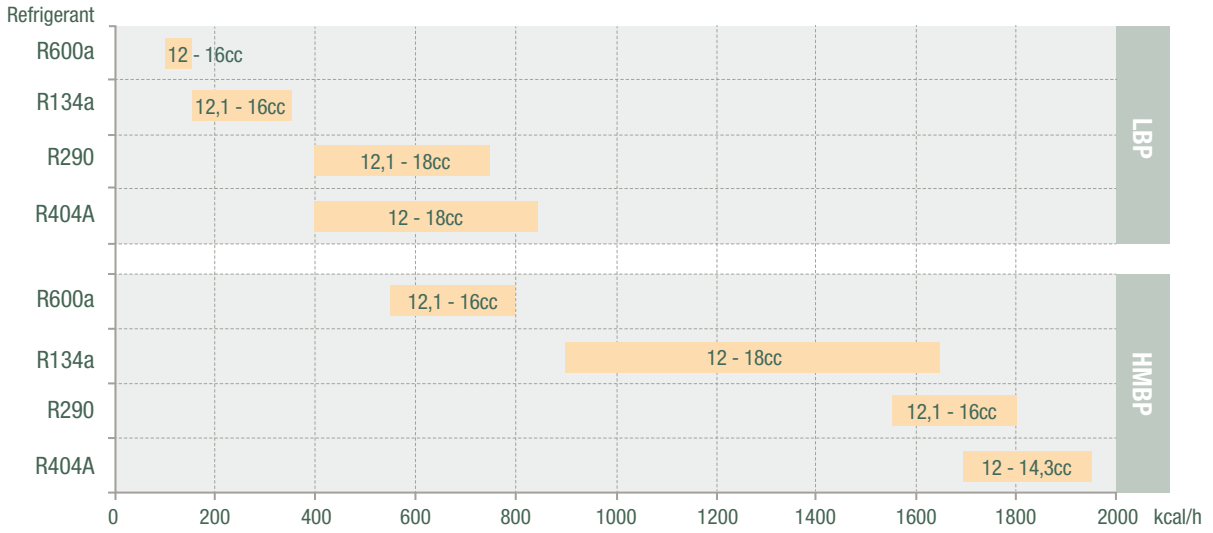
Compressors Ranges U



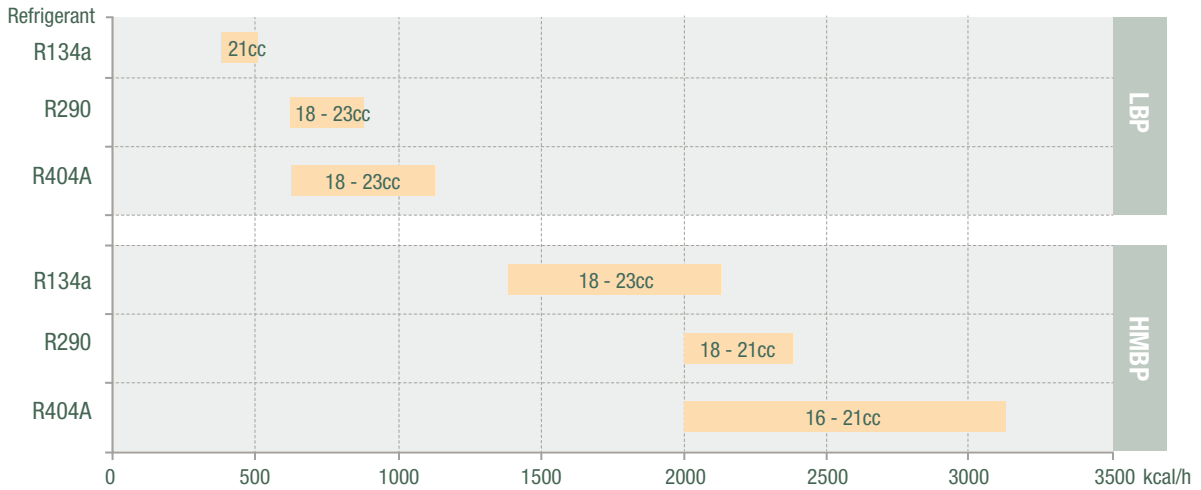
Compressors Ranges L



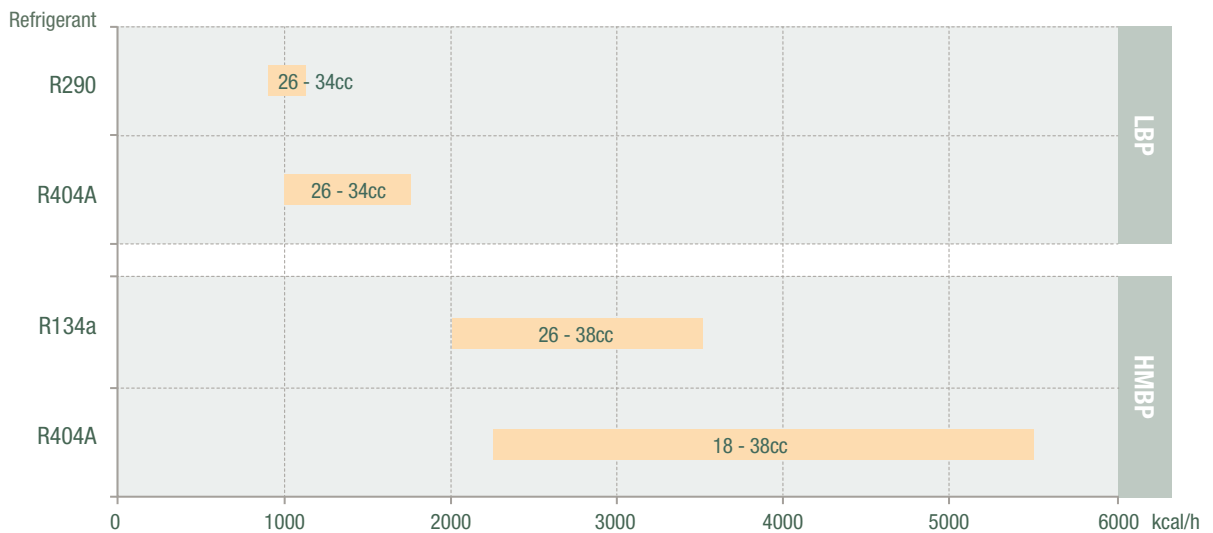
Compressors Ranges P



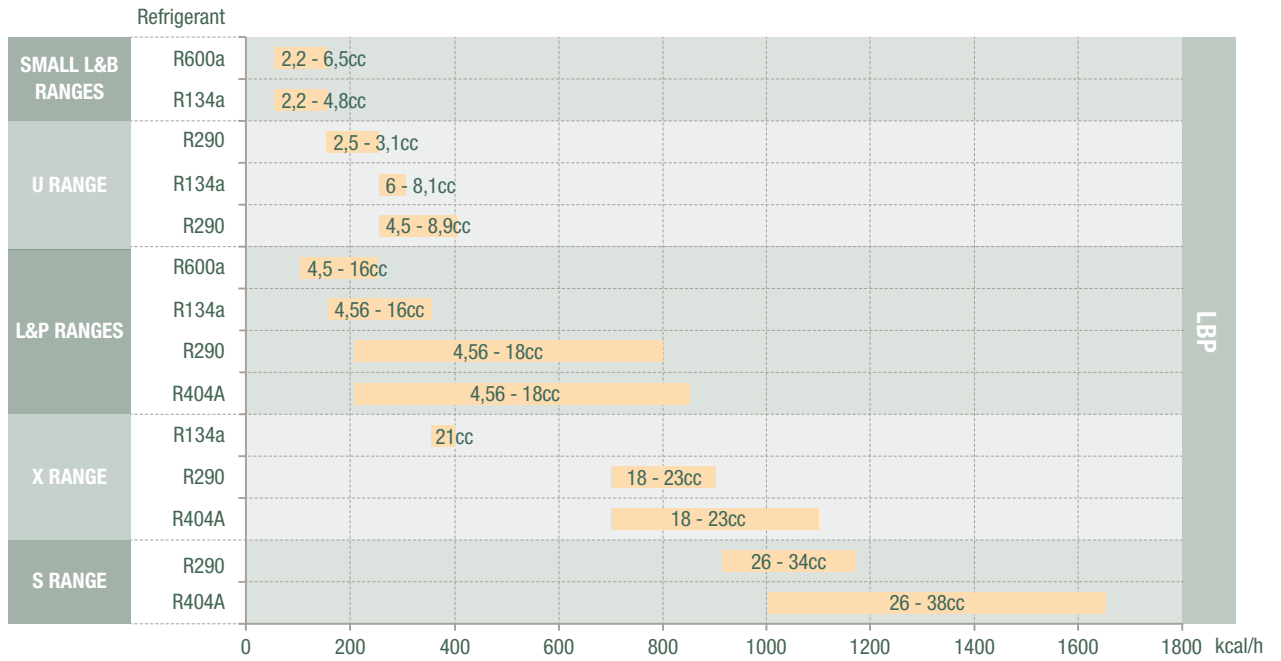
Compressors Ranges X



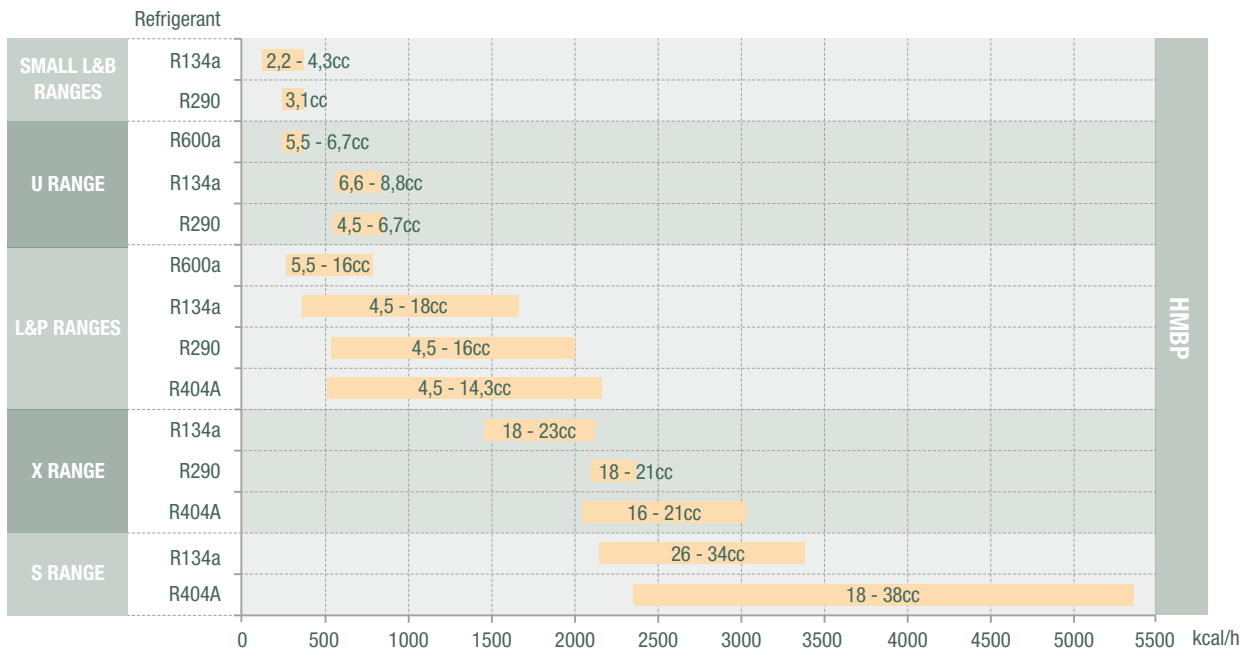
Compressors Ranges S



Compressors Ranges LBP



Compressors Ranges HMBP



Labels and Approvals

For U, L, P, X, S

cubigel compressors **GL90TG**

THERMALLY PROTECTED

200-220 V-50 Hz
220-230 V-60 Hz

PH1

R134a

MADE IN SPAIN

2

05101

9720657468000148

suction

Model

Voltage

Approvals

Production Date

Bar Code

Refrigerant

For Small L & B

cubigel compressors **B43H**

THERMALLY PROTECTED

220-240~50Hz

CCC s

DE

R134a

B43H 16051600009

Model

Voltage

Approvals

Bar Code

Refrigerant

Approvals



Directive compliance declarations



Flammable gases



Nomenclature U, L, P, X and S Ranges

model

G	L	Y	60	R	A	a
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Indicates refrigerant.

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

Indicates compressor range (overall design).

L = 4.5 - 10.7cm³ **X** = 16.0 - 23.0cm³
U = 4.5 - 8.9cm³ **P** = 12.0 - 18.0cm³ **S** = 18.0 - 38.0cm³

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

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

Indicates approximate compressor displacement under the following rule:

U / L ranges 10 times the approx. displacement in cm³/rev (GL90TB -> approx 9 cm³/rev)
P / X / S ranges The approx. displacement in cm³/rev (MX21TG -> approx 21 cm³/rev)

Indicates the starting torque, application type and compressor cooling:

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

Indicates the rated voltage:

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

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

Examples:

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

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

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

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

Nomenclature Small L & B Ranges

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

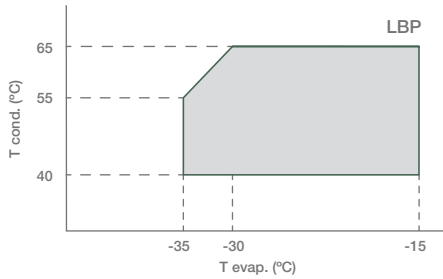
	model					
	N	B	C	30	R	A
<p>R290 Models</p> <p>Range: L --> Small L range B --> B range</p> <p>C --> Without Running Capacitor G --> With Running Capacitor</p> <p>Displacement x10: 22 - 2.2cc 25 - 2.5cc 30 - 3.0cc</p> <p>Refrigerant & application: For R290 (Propane) Models: C = LBP – LST – Static N =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

SOA - Safe Operating Area

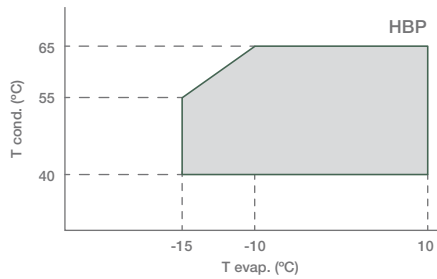
In order to grant the compressor reliability it is recommended that the point representing the operating conditions (suction and discharge pressures) falls within the shadowed area of the corresponding graph.

For Small L and B ranges:

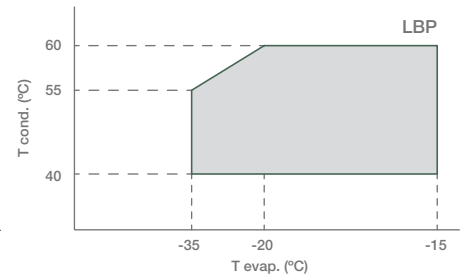
SOA R134a LBP



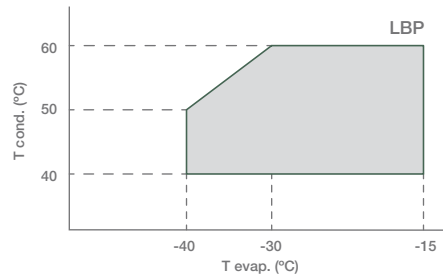
SOA R134a HBP



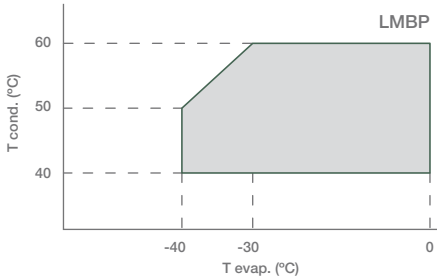
SOA R600a LBP



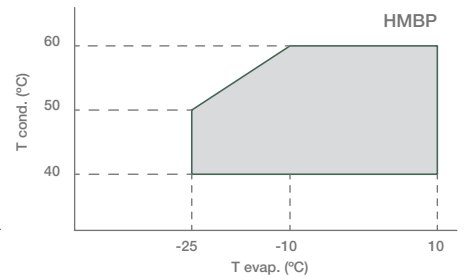
SOA R290 LBP



SOA R290 LMBP

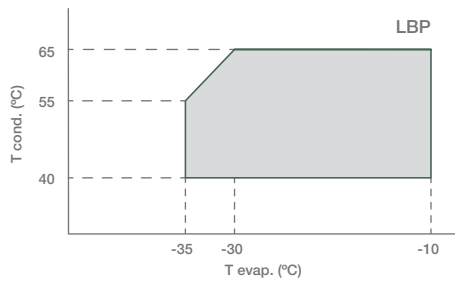


SOA R290 HMBP

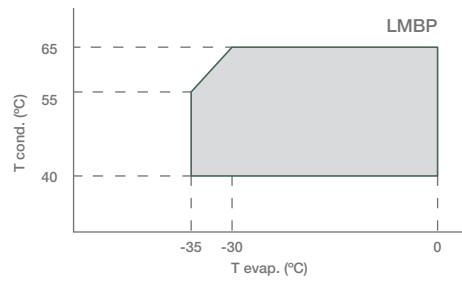


For U, L, P, X and S ranges:

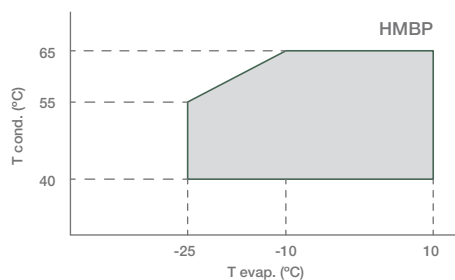
SOA R134a LBP



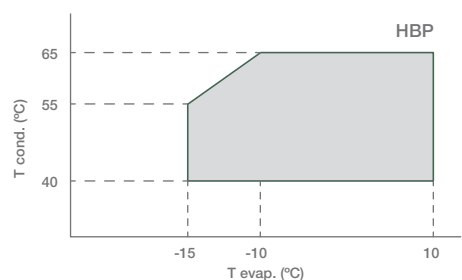
SOA R134a LMBP



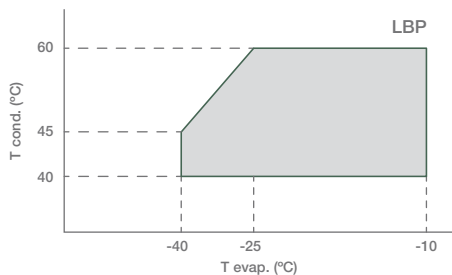
SOA R134a HMBP



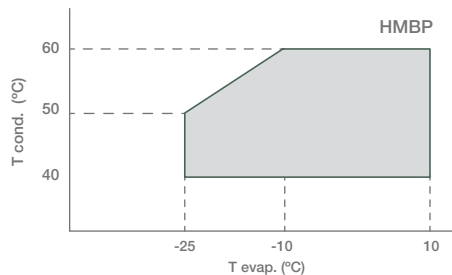
SOA R134a HBP



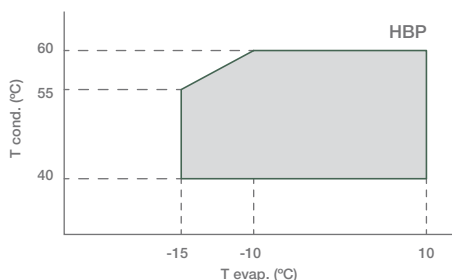
SOA R404A LBP



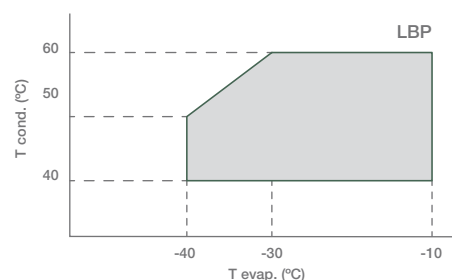
SOA R404A HMBP



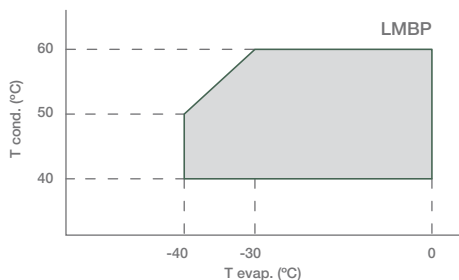
SOA R404A HBP



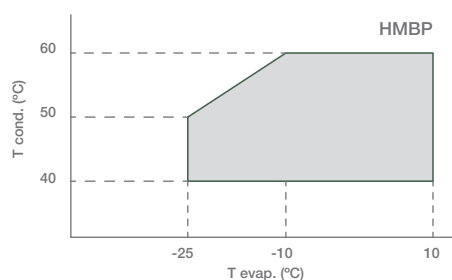
SOA R290 LBP



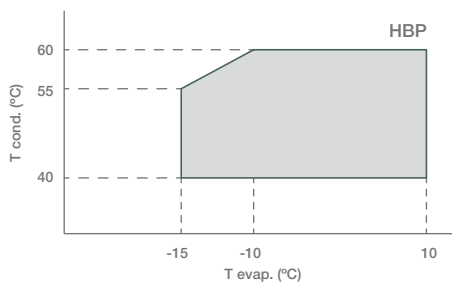
SOA R290 LMBP



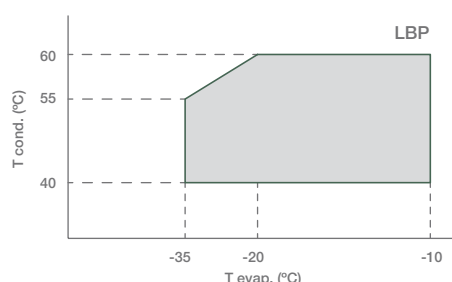
SOA R290 HMBP



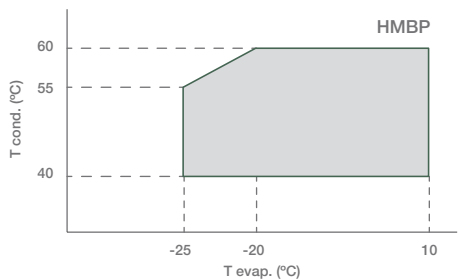
SOA R290 HBP



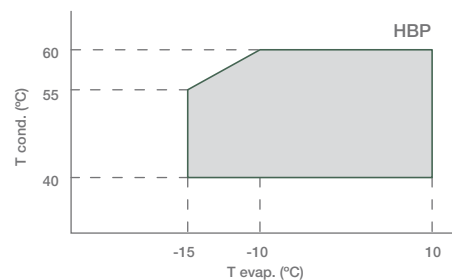
SOA R600a LBP



SOA R600a HMBP



SOA R600a HBP



Voltage

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

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

Types of Electrical Motors

RSIR (Resistance Start-Induction Run)

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

CSIR (Capacitor Start-Induction Run)

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

RSCR (Resistance Start-Capacitor Run)

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

CSR (Capacitor Start and Run)

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

Single phase motor classification				
Capacitor type	HST With starting capacitor		LST Without starting capacitor	
With Running capacitor	Motor type: CSR	Starting device: Current relay + NTC for L & P ranges Potential relay for P, X & S ranges	Motor type: RSCR	Starting device: PTC
Without Running capacitor	Motor type: CSIR	Starting device: Current Relay	Motor type: RSIR	Starting device: Current Relay or PTC

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

	MODEL	Grouped by Refrigerant type		APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	Performance CECOMAF & ASHRAE						Operative range of evaporating temp	Dimensional drawing reference				
		R404A (*)								HMBP HBP		50 Hz		REFRIGERATION CAPACITY							
		DISPLACEMENT	POWER							COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C								WEIGHT	DESIGN		
		cm³	hp							Gecomaf (W)			Ashrae							Kg	
		-25	-15	5		10	7.2														
				W	COP	kcal/h	COP														
	ML40TB	4.05	1/6	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	133	214	473	1.43	558	510	1.74	10.0	Lc			
	ML40TG	4.05	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	133	214	473	1.43	558	510	1.74	10.0	Lc			
	ML45TB	4.50	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	151	238	528	1.49	624	570	1.82	10.1	Lc			
	ML45TG	4.50	1/5	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	151	238	528	1.49	624	570	1.82	10.0	Lc			
Indicates Green Cooling models	MLY60RAa	5.98	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	212	346	766	1.77	902	825	2.15	10.5	Lc			
	MLY60RAb	5.98	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	212	346	766	1.93	902	825	2.36	10.5	Lc			
	ML60TB	5.68	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	166	277	647	1.53	769	700	1.85	10.1	Lc			
	ML60TG	5.68	1/4	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	166	277	647	1.53	769	700	1.85	10.0	Lc			
Indicates New models	MLY80RAa	8.10	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	282	463	1055	1.86	1250	1140	2.27	10.2	Ld			
	MLY80RAb	8.10	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	282	463	1055	2.02	1250	1140	2.46	10.2	Ld			
	ML80TB	7.57	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	227	385	880	1.63	1040	950	1.99	11.4	Ld			
	ML80TG	7.57	3/8	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	227	385	880	1.63	1040	950	1.99	11.2	Ld			
	MLY90RAa	9.09	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	317	512	1132	1.75	1334	1220	2.13	11.3	Ld			
	MLY90RAb	9.09	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	317	511	1136	1.92	1340	1225	2.34	11.3	Ld			
	ML90TB	8.86	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	282	463	1055	1.63	1250	1140	1.98	11.6	Ld			
	ML90TG	8.86	3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	282	463	1055	1.63	1250	1140	1.98	12.7	Ld			
	MP12TG	12.05	1/2	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	373	634	1463	1.85	1732	1580	2.25	13.5	Pd			
	MPT12RA	12.10	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	398	676	1560	1.93	1845	1685	2.35	12.6	Pd			
	MPT14RA	14,32	1/2	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	478	784	1760	1,81	2078	1900	2.20	13.5	Pd			
	MX16TBa	16.03	3/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	484	818	1880	1.76	2225	2030	2.15	16.2	Xc			
	MX18TBa	18.40	7/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	554	937	2157	1.78	2554	2330	2.18	16.0	Xd			
	MX18TG	18.40	7/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	554	937	2157	1.78	2554	2330	2.18	17.0	Xd			
	MX21TBa	20.73	2	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	625	1052	2425	1.78	2873	2620	2.16	17.5	Xd			
	MX21TG	20.72	1	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	625	1052	2425	1.77	2873	2620	2.15	17.6	Xd			
	MS18T3	18.10	7/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	R	C-V	423	838	2137	1.92	2557	2320	2.35	20.0	Sb			
	MS22TB	21.75	1	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	453	972	2566	2.04	3077	2789	2.50	20.5	Sc			
	MS22T3	21.75	1	HMBP	F	400/440V 50/60Hz ~3	3PHASE	R	C-V	453	975	2576	2.01	3090	2800	2.45	20.0	Sb			
	MS26TB	25.93	1 3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	675	1295	3185	2.02	3789	3449	2.46	23.0	Sd			
	MS26TG	25.93	1 3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	675	1295	3186	2.02	3791	3451	2.46	23.0	Sd			
	MS26T3	25.93	1 3/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	R	C-V	675	1295	3186	2.01	3791	3451	2.45	18.6	Sd			
	MS34TB	34.42	1 5/8	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	1860	4231	1.92	4959	4551	2.30	22.7	Sd			
	MS34T3	34.42	1 5/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	R	C-V	1007	1860	4231	1.82	4958	4551	2.20	22.8	Sd			
	MS34TG	34.42	1 5/8	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	1012	1860	4231	1.92	4959	4551	2.30	22.7	Sd			



3.

Compressors Catalogue

R290/R600a

MODEL	DISPLACEMENT cm ³	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			
NBC25CA (**)	2.60	1/12	LBP	S	220-240V 50Hz ~1	RSIR	R	C	32	57	74	1.00	143	100	1.30	5.90	Bf	
NBG25CA (**)	2.60	1/12	LBP	S	220-240V 50Hz ~1	RSCR	R	C	32	57	74	1.17	143	100	1.52	6.00	Bf	
NBC35NA	3.50	1/8	LBP	S	220-240V 50Hz ~1	RSIR	R	C	40	79	106	1.04	211	143	1.35	6.10	Bf	
NBG35CA (**)	3.50	1/8	LBP	S	220-240V 50Hz ~1	RSCR	R	C	47	83	108	1.20	209	145	1.55	6.20	Bf	
NBC41NA	4.10	1/7	LMBP	S	220-240V 50Hz ~1	RSIR	R	C	58	103	134	1.00	259	180	1.30	5.90	Bf	
NBG41CA (**)	4.10	1/7	LBP	S	220-240V 50Hz ~1	RSCR	R	C	58	103	134	1.20	259	181	1.55	6.00	Bf	
NBC45CA (**)	4.50	1/6	LBP	S	220-240V 50Hz ~1	RSIR	R	C	65	115	150	1.00	290	201	1.30	5.90	Bf	
NBG45CA (**)	4.50	1/6	LBP	S	220-240V 50Hz ~1	RSCR	R	C	65	115	150	1.16	290	201	1.50	6.00	Bf	
NUY45LAa	4.50	1/5	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	65	122	159	1.21	306	214	1.57	9.30	Ub	
NUY45LAb	4.50	1/5	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	66	123	161	1.26	311	216	1.64	9.45	Ub	
NUS45NAa (**)	4.50	1/5	LMBP	F	220-240V 50Hz ~1	RSIR	P	C	69	129	169	1.35	326	227	1.76	9.30	Ub	
NUS45NAb (**)	4.50	1/5	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	69	129	169	1.44	326	227	1.88	9.45	Ub	
NUS45NAc (**)	4.50	1/5	LMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	69	129	169	1.35	326	227	1.76	9.30	Ub	
NUC45NGa	4.50	1/5	LMBP	F	200-220/230V 50/60Hz~1	RSIR	P	C	68	120	157	1.05	304	210	1.35	8.60	Ub	
NUM55CAa	5.50	1/5	LBP	S/F	220-240V 50Hz ~1	RSIR	P	C	79	147	193	1.11	373	260	1.45	8.30	Ub	
NUM55CAb	5.50	1/5	LMBP	S/F	220-240V 50Hz ~1	RSCR	P	C	79	147	193	1.19	373	260	1.55	8.30	Ub	
NUM55CAc	5.50	1/5	LBP	S/F	220-240V 50Hz ~1	CSIR	R	C-V	79	147	193	1.11	373	260	1.45	8.30	Ub	
NUM55CAc	5.50	1/5	LMBP	S/F	220-240V 50Hz ~1	CSR	R	C-V	79	147	193	1.19	373	260	1.55	8.30	Ub	
NUS55CAa (**)	5.50	1/5	LMBP	F	220-240V 50Hz ~1	RSIR	P	C	79	147	193	1.37	373	260	1.78	9.10	Ub	
NUS55CAb (**)	5.50	1/5	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	79	147	193	1.46	373	260	1.90	9.21	Ub	
NUS55CAc (**)	5.50	1/5	LMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	79	147	193	1.37	373	260	1.78	9.10	Ub	
NUT55CAa	5.50	1/5	LBP	F	220-240V 50Hz ~1	RSIR	P	C	88	152	196	1.27	382	264	1.64	9.10	Ub	
NUT55CAb	5.50	1/5	LBP	F	220-240V 50Hz ~1	RSCR	P	C	88	152	196	1.39	382	264	1.80	9.21	Ub	
NUT55CAc	5.50	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	88	152	196	1.27	382	264	1.64	9.10	Ub	
NUT55CAc	5.50	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	88	152	196	1.39	382	264	1.80	9.21	Ub	
NUC55NGa	5.50	1/5	LMBP	F	200-220/230V 50/60Hz~1	RSIR	P	C	89	154	198	1.04	386	265	1.35	8.60	Ub	
NUC55NGc	5.50	1/5	LMBP	F	200-220/230V 50/60Hz~1	CSIR	R	C-V	89	154	198	1.04	386	265	1.35	8.60	Ub	
NUM60CAa	6.00	1/4	LBP	S/F	220-240V 50Hz ~1	RSIR	P	C	98	170	219	1.11	427	295	1.45	8.30	Ub	
NUM60CAb	6.00	1/4	LMBP	S/F	220-240V 50Hz ~1	RSCR	P	C	98	170	219	1.19	427	295	1.55	8.30	Ub	
NUM60CAc	6.00	1/4	LBP	S/F	220-240V 50Hz ~1	CSIR	R	C-V	98	170	219	1.11	427	295	1.45	8.30	Ub	
NUM60CAc	6.00	1/4	LMBP	S/F	220-240V 50Hz ~1	CSR	R	C-V	98	170	219	1.19	427	295	1.55	8.30	Ub	
NUS60NAa (**)	6.00	1/4	LMBP	F	220-240V 50Hz ~1	RSIR	P	C	98	170	219	1.37	427	295	1.78	9.20	Ub	
NUS60NAb (**)	6.00	1/4	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	98	170	219	1.46	427	295	1.90	9.31	Ub	
NUS60NAc (**)	6.00	1/4	LMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	98	170	219	1.37	427	295	1.78	9.20	Ub	
NUT60CAa	6.00	1/4	LBP	F	220-240V 50Hz ~1	RSIR	P	C	101	175	226	1.30	431	304	1.68	9.20	Ub	
NUT60CAb	6.00	1/4	LBP	F	220-240V 50Hz ~1	RSCR	P	C	101	175	226	1.41	431	304	1.82	9.31	Ub	
NUT60CAc	6.00	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	101	175	226	1.30	431	304	1.68	9.20	Ub	
NUT60CAc	6.00	1/4	LBP	S	220-240V 50Hz ~1	RSCR	P	C	101	175	226	1.41	431	304	1.82	9.31	Ub	
NUY60LAa	6.00	1/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	91	168	217	1.24	405	291	1.60	9.40	Ub	
NUY60LAb	6.00	1/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	92	167	216	1.29	414	291	1.67	9.50	Ub	
NUM70CAa	6.70	1/4	LBP	F	220-240V 50Hz ~1	RSIR	P	C	103	186	241	1.11	462	325	1.45	8.60	Ub	
NUM70CAb	6.70	1/4	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	103	186	241	1.19	462	325	1.55	8.60	Ub	
NUM70CAc	6.70	1/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	103	186	241	1.11	462	325	1.45	8.60	Ub	
NUM70CAc	6.70	1/4	LMBP	F	220-240V 50Hz ~1	CSR	R	C-V	103	186	241	1.19	462	325	1.55	8.60	Ub	
NUS70NAa (**)	6.70	1/4	LMBP	F	220-240V 50Hz ~1	RSIR	P	C	103	186	241	1.37	462	325	1.76	8.60	Ub	
NUS70NAb (**)	6.70	1/4	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	103	186	241	1.46	462	325	1.88	8.60	Ub	

Green Cooling Models (***) Under development
 New Models

This table continues in the following page

R290 LBP | LMBP • 50 Hz

Natural Refrigerant

MODEL	DISPLACEMENT cm ³	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
NUS70NAc (**)	6.70	1/4	LMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	103	186	241	1.37	462	325	1.76	8.60	Ub
NUT70CAa	6.70	1/4	LBP	F	220-240V 50Hz ~1	RSIR	P	C	109	195	250	1.30	463	335	1.68	9.20	Ub
NUT70CAb	6.70	1/4	LBP	F	220-240V 50Hz ~1	RSCR	P	C	109	195	250	1.39	463	335	1.80	9.41	Ub
NUT70CAc	6.70	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	109	195	250	1.30	463	335	1.68	9.20	Ub
NUT70CAd	6.70	1/4	LBP	S	220-240V 50Hz ~1	RSCR	P	C	109	195	250	1.39	463	335	1.80	9.41	Ub
NUC70NGa	6.70	1/4	LMBP	F	200-220/230V 50/60Hz~1	RSIR	P	C	106	190	243	1.04	450	325	1.35	8.80	Ub
NUY70NGa (**)	6.70	1/4	LMBP	F	200-220/220-230V 50/60Hz~1	CSIR	R	C-V	109	195	250	1.39	463	335	1.40	8.95	Uc
NUY80LAa	8.10	1/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	129	230	294	1.16	540	393	1.49	9.43	Uc
NLY90CAa	9.09	1/3	LBP	F	220-240V 50Hz ~1	RSIR	P	C	130	236	307	1.06	591	413	1.37	10.30	Ld
NLY90CAb	9.09	1/3	LBP	F	220-240V 50Hz ~1	RSCR	P	C	130	236	307	1.11	591	413	1.44	10.30	Ld
NUY90CAa	8.90	1/3	LBP	F	220-240V 50Hz ~1	RSIR	P	C	157	267	338	1.21	614	451	1.55	9.30	Uc
NUY90CAb	8.90	1/3	LBP	F	220-240V 50Hz ~1	RSCR	P	C	158	270	342	1.28	625	457	1.64	9.40	Uc
NUY90LAa	8.90	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	157	267	338	1.21	614	451	1.55	9.40	Uc
NUY90LAb	8.90	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	158	270	342	1.28	625	457	1.64	9.50	Uc
NLY12LAa	10.70	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	163	283	364	0.96	689	488	1.24	11.21	Ld
NLY12LAb	10.70	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	163	283	364	1.01	689	488	1.31	11.31	Ld
NLY12NGa	10.70	3/8	LMBP	F	200-220/220-230V 50/60Hz~1	CSIR	R	C-V	168	288	371	0.98	715	499	1.28	11.04	Ld
NLY12NGb	10.70	3/8	LMBP	F	200-220/220-230V 50/60Hz~1	CSR	R	C-V	171	287	371	1.06	726	499	1.31	11.14	Ld
NPY12LAa	12.10	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	174	309	402	1.05	783	541	1.35	12.13	Pd
NPY12LAb	12.10	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	174	309	402	1.15	783	541	1.49	12.23	Pd
NPY14LAa	14.32	1/2	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	217	376	485	1.05	928	651	1.35	12.17	Pd
NPY14LAb	14.32	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	217	376	485	1.14	928	651	1.48	12.27	Pd
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	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	269	473	611	1.13	1165	820	1.46	12.30	Pd
NX18FBa	18.40	3/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	243	471	611	1.11	1137	820	1.44	16.41	Xd
NX21FBa	20.72	3/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	267	517	675	1.11	1275	907	1.44	16.00	Xd
NX23FBa	23.20	7/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	297	572	746	1.09	1411	1003	1.41	16.75	Xd
NS26FB (**)	25.93	7/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	199	580	765	1.04	1448	1029	1.35	22.60	Sd
NS34FB (**)	34.42	1	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	257	750	990	1.04	1873	1332	1.35	23.00	Sd

Compressors
R290 / R600a

R290 LBP | LMBP • 60 Hz

Natural Refrigerant

MODEL	DISPLACEMENT cm ³	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
NBC30NR	3.10	1/7	LMBP	S/F	115-127V 60Hz ~1	CSIR	R	C-V	50	89	118	1.07	242	159	1.40	6.10	Bf
NUY45NRa	4.50	1/5	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	76	136	180	1.15	363	243	1.50	9.12	Ub
NUY45NRb	4.50	1/5	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	73	137	182	1.23	369	247	1.60	9.19	Ub
NUC45NGa	4.50	1/5	LMBP	F	200-220/230V 50/60Hz ~1	RSIR	P	C	72	136	180	1.10	365	244	1.43	8.60	Ub
NUT55LRa	5.50	1/5	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	110	189	243	1.24	460	326	1.60	9.47	Ub
NUT55LRb	5.50	1/5	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	110	193	247	1.34	463	331	1.73	9.54	Ub
NUT55LRc	5.50	1/5	LBP	S	115-127V 60Hz ~1	CSIR	R	C-V	110	189	243	1.24	460	326	1.60	9.47	Ub
NUT55LRd	5.50	1/5	LBP	S	115-127V 60Hz ~1	CSR	R	C-V	110	193	247	1.34	463	331	1.73	9.54	Ub

Green Cooling Models

(**) Under development

New Models

This table continues in the following page

R290 LBP | LMBP • 60 Hz

Natural Refrigerant

MODEL	DISPLACEMENT cm ³	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			
NUY55NRa (**)	5.50	1/5	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	105	184	235	1.21	441	312	1.56	9.10	Ub	
NUY55NRc (**)	5.50	1/5	LMBP	S	115-127V 60Hz ~1	CSIR	R	C-V	105	184	235	1.21	441	312	1.56	9.10	Ub	
NUC55NGa	5.50	1/5	LMBP	F	200-220/230V 50/60Hz ~1	RSIR	P	C	106	186	237	1.15	445	314	1.48	8.60	Ub	
NUC55NGc	5.50	1/5	LMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	106	186	237	1.15	445	314	1.48	8.60	Ub	
NUT60LRa	6.00	1/3	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	122	207	266	1.25	508	357	1.60	9.40	Ub	
NUT60LRb	6.00	1/3	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	122	213	273	1.34	513	366	1.73	9.50	Ub	
NUT60LRc	6.00	1/3	LBP	S	115-127V 60Hz ~1	CSIR	R	C-V	122	207	266	1.24	508	357	1.60	9.40	Ub	
NUT60LRd	6.00	1/3	LBP	S	115-127V 60Hz ~1	CSR	R	C-V	122	213	273	1.34	513	366	1.73	9.50	Ub	
NUY60NRa	6.00	1/3	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	121	209	269	1.22	513	361	1.58	9.55	Uc	
NUY60NRc	6.00	1/3	LMBP	S	115-127V 60Hz ~1	CSIR	R	C-V	121	209	269	1.22	513	361	1.58	9.55	Uc	
NUY70NRa	6.70	1/5	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	129	231	297	1.20	551	398	1.56	9.40	Uc	
NUY70NRc	6.70	1/5	LMBP	S	115-127V 60Hz ~1	CSIR	R	C-V	129	231	297	1.20	551	398	1.56	9.40	Uc	
NUY70NGa (**)	6.70	1/5	LMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	127	228	292	1.18	542	391	1.53	8.95	Uc	
NUC70NGa	6.70	1/4	LMBP	F	200-220/230V 50/60Hz ~1	RSIR	P	C	126	226	290	1.21	538	388	1.57	8.80	Ub	
NUY80NRa (**)	8.10	1/4	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	154	272	356	1.21	703	479	1.56	9.30	Uc	
NUY80NRc (**)	8.10	1/4	LMBP	S	115-127V 60Hz ~1	CSIR	R	C-V	154	272	356	1.21	703	479	1.56	9.30	Uc	
NUY90NRa	8.90	1/3	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	167	300	391	1.21	767	528	1.55	9.40	Uc	
NUY90NRc	8.90	1/3	LMBP	S	115-127V 60Hz ~1	CSIR	R	C-V	167	300	391	1.21	767	528	1.55	9.40	Uc	
NLY12NGa	10.70	3/8	LMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	197	339	439	1.09	848	590	1.41	11.04	Ld	
NLY12NGb	10.70	3/8	LMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	207	342	439	1.15	850	590	1.49	11.14	Ld	
NLY12NRa	10.70	1/3	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	188	338	437	1.10	835	587	1.42	10.94	Ld	
NLY12NRb	10.70	1/3	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	191	343	443	1.16	845	595	1.49	11.04	Ld	
NPY12LRa	12.10	3/8	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	199	362	473	1.04	927	637	1.35	11.77	Pd	
NPY12LRb	12.10	3/8	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	199	362	473	1.11	927	637	1.44	11.87	Pd	
NPY14LRa	14.32	1/2	LBP	F	208-230V 60Hz ~1	CSIR	R	C-V	269	466	603	1.04	1175	812	1.34	12.19	Pd	
NPY14LRb	14.32	1/2	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	269	466	603	1.09	1175	812	1.42	12.29	Pd	
NPT16LR	16.10	1/2	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	288	492	637	1.10	1244	857	1.42	12.70	Pd	

R290 HMBP | HBP • 50 Hz

Natural Refrigerant

MODEL	DISPLACEMENT cm ³	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 50Hz ~1	CSIR	R	C-V	54	93	222	1.87	264	265	2.21	5.20	Bc	
NBC30RA	3.10	1/10	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	100	157	354	2.21	421	423	2.61	5.80	Be	
NUY45RAa	4.50	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	142	231	516	2.36	610	615	2.77	9.30	Ub	
NUY55RAa	4.50	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	192	298	653	2.29	771	778	2.69	9.50	Ub	
NUY60RAa	6.00	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	208	328	714	2.32	841	850	2.72	9.48	Ub	
NUY70RAa	6.70	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	248	382	817	2.34	961	972	2.75	9.60	Uc	
NUY70Rab	6.70	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	248	382	817	2.47	961	972	2.90	9.70	Uc	
NLY80RAa	8.10	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	258	411	930	2.21	1104	1111	2.60	10.54	Ld	
NLY80Rab	8.10	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	258	411	930	2.38	1104	1111	2.80	10.64	Ld	
NUY90RA	8.90	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	290	461	1045	2.25	1240	1247	2.65	9.80	Uc	

Green Cooling Models











(**) Under development

This table continues in the following page

New Models














R290 HMBP | HBP • 50 Hz

Natural Refrigerant

MODEL	DISPLACEMENT cm ³	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			
 NLY12RAa	10.70	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	379	584	1224	2.06	1432	1453	2.41	11.44	Ld	
 NLY12RAb	10.70	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	379	597	1249	2.28	1457	1480	2.66	11.54	Ld	
 NLY12RGa	10.70	1/2	HMBP	F	200-220/220-230V 50/60Hz~1	CSIR	R	C-V	341	553	1217	2.03	1432	1448	2.39	12.14	Ld	
 NLY12RGb	10.70	1/2	HMBP	F	200-220/220-230V 50/60Hz~1	CSR	R	C-V	355	554	1226	2.20	1450	1462	2.58	12.24	Ld	
 NPY12RAa	12.10	1/2	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	635	1460	2.08	1735	1745	2.45	12.16	Pd	
 NPY12RAb	12.10	1/2	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	635	1460	2.28	1735	1745	2.70	12.26	Pd	
 NPT14RA	14.32	1/2	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	763	1709	2.26	2085	2065	2.69	12.25	Pd	
 NPT16RA	16.10	2/3	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	853	1911	2.18	2331	2310	2.55	12.34	Pd	
 NX18TBa	18.40	3/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	511	852	2039	2.22	2440	2445	2.61	16.14	Xd	
 NX21TBa	20.72	7/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	601	973	2267	2.18	2705	2714	2.55	16.09	Xd	

R290 HMBP | HBP • 60 Hz

Natural Refrigerant


































MODEL	DISPLACEMENT cm ³	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			
 NLY45RRa	4.56	1/5	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	180	282	618	2.08	729	736	2.41	9.19	Lc	
 NLY45RRb	4.56	1/5	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	180	282	618	2.25	729	736	2.61	9.29	Lc	
 NLY60RRa	5.98	1/5	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	245	385	827	2.11	971	983	2.43	9.68	Lc	
 NLY60RRb	5.98	1/5	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	245	385	827	2.29	971	983	2.65	9.78	Lc	
 NLY75RRa	7.57	3/8	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	278	445	1010	2.14	1200	1207	2.50	10.07	Ld	
 NLY75RRb	7.57	3/8	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	278	454	1034	2.36	1227	1235	2.76	10.17	Ld	
 NLY80RRa	8.10	1/4	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	314	497	1098	2.12	1297	1308	2.45	10.03	Ld	
 NLY80RRb	8.10	1/4	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	314	497	1098	2.31	1297	1308	2.67	10.13	Ld	
 NLY90RRa	9.09	1/3	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	353	563	1239	2.03	1462	1476	2.35	10.55	Ld	
 NLY90RRb	9.09	1/3	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	353	563	1239	2.21	1462	1476	2.56	10.65	Ld	
 NLT12RR	10.70	1/2	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	424	691	1501	2.15	1761	1784	2.51	11.91	Ld	
 NLY12RGa	10.70	1/2	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	418	669	1445	2.07	1696	1718	2.41	12.14	Ld	
 NLY12RGb	10.70	1/2	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	429	679	1469	2.25	1727	1747	2.63	12.24	Ld	

 Green Cooling Models

 New Models

R600a LBP • 50 Hz

Natural Refrigerant

MODEL	DISPLACEMENT cm ³	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	1/18	LBP	S	220-240V 50Hz ~1	RSIR	P	C	12	31	23	0.67	48	30	0.85	3.60	SLb
 L30CL	3.10	1/16	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	19	49	36	0.77	75	48	0.98	3.80	SLc
 B35C	3.50	1/15	LBP	S	220-240V 50Hz ~1	RSIR	P	C	16	28	41	0.95	89	56	1.23	4.50	Bc
 B35C	3.50	1/15	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	17	26	37	0.77	79	50	1.00	4.50	Bb
 B35CA	3.50	1/15	LBP	S	220-240V 50Hz ~1	RSCR	P	C	21	31	43	1.13	96	58	1.45	5.10	Bc
 B43CB	4.30	1/12	LBP	S	220-240V 50Hz ~1	RSIR	P	C	29	39	51	0.91	108	69	1.16	5.00	Bc
 B43CB	4.30	1/12	LBP	S	220-240V 50Hz ~1	RSCR	P	C	29	39	51	1.02	108	69	1.29	5.00	Bc
 B43CB	3.80	1/20	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	25	33	44	0.87	92	58	1.10	5.00	Bc
 B43CO	4.30	1/12	LBP	S	100V 50/60Hz ~1	RSIR	P	C	27	69	51	0.93	107	69	1.18	4.60	Bc
 B52CL	5.20	1/10	LBP	S	220-240V 50Hz ~1	RSIR	P	C	34	44	58	0.94	124	78	1.20	5.00	Bc
 B52CL	5.20	1/10	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	35	45	60	0.91	127	80	1.16	5.00	Bc
 B52CL	5.20	1/10	LBP	S	220-240V 50Hz ~1	RSIR	P	C	34	44	58	1.11	124	78	1.42	5.00	Be
 B52COL	5.20	1/10	LBP	S	100V 50/60Hz ~1	RSIR	P	C	31	78	58	0.86	121	78	1.10	4.80	Bc
 B60CBL	6.00	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	38	95	71	1.02	149	95	1.30	5.00	Bc
 B60CBL	6.00	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	38	96	71	1.10	149	95	1.40	5.00	Be
 B65CL	6.50	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	42	105	78	0.86	163	105	1.10	5.00	Be
 B65CL	6.50	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	42	105	78	1.10	163	105	1.40	5.20	Be
 HLY80AAa	8.10	1/7	LBP	S	220-240V 50Hz ~1	RSIR	P	C	54	74	99	1.11	201	131	1.41	9.45	Lb
 HLY80AAb	8.10	1/7	LBP	S	220-240V 50Hz ~1	RSCR	P	C	54	74	99	1.18	203	131	1.49	9.56	Lb
 HLY90AAa	9.09	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	67	84	109	1.11	231	145	1.41	9.85	Lb
 HLY90AAb	9.09	1/6	LBP	S	220-240V 50Hz ~1	RSCR	P	C	65	85	111	1.18	234	148	1.49	9.96	Lb
 HLY99AAa	9.95	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	69	90	119	1.10	249	158	1.40	10.95	Lc
 HLY99AAb	9.95	1/6	LBP	S	220-240V 50Hz ~1	RSCR	P	C	67	90	120	1.16	250	159	1.48	11.06	Lc
 HPY12AAa	12.10	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	79	107	144	1.13	301	192	1.43	11.13	Pc
 HPY12AAb	12.10	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	79	107	144	1.18	301	192	1.50	11.24	Pc
 HPY12AGa	12.10	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	79	107	144	1.10	301	192	1.40	10.90	Pc
 HPY12AGb	12.10	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSCR	P	C	79	107	144	1.10	301	192	1.40	11.01	Pc
 HPY14AAa	14.32	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	92	124	166	1.13	345	221	1.43	11.41	Pc
 HPY14AAb	14.32	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	92	124	166	1.19	345	221	1.50	11.52	Pc
 HPY14AJa	14.32	1/5	LBP	S	100V 50/60Hz ~1	RSIR	P	C	86	116	157	1.01	336	209	1.28	10.75	Pd
 HPY14AJb	14.32	1/5	LBP	S	100V 50/60Hz ~1	RSCR	P	C	86	116	157	1.07	336	209	1.35	10.86	Pd
 HPY16AAa	16.15	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	102	136	181	1.14	381	242	1.44	10.64	Pc
 HPY16AAb	16.15	1/4	LBP	S	220-240V 50Hz ~1	RSCR	P	C	102	136	181	1.19	381	242	1.51	10.75	Pc

 Green Cooling Models

 New Models

R600a LBP • 60 Hz

Natural Refrigerant

MODEL	DISPLACEMENT cm ³	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	1/16	LBP	S	110-120V 60Hz ~1	RSIR	P	C	16	22	30	0.86	63	40	1.10	3.60	SLb
L30CL	3.10	1/14	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	22	30	41	0.90	85	55	1.00	3.80	SLb
B35C	3.50	1/15	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	18	31	45	0.94	93	60	1.21	4.60	Bb
B35C5B	3.50	1/12	LBP	S	110-115V 60Hz ~1	RSIR	P	C	28	37	49	0.95	102	65	1.21	4.60	Bc
B35C5BL	3.50	1/12	LBP	S	110-120 60Hz ~1	RSCR	P	C	26	36	49	1.10	103	65	1.40	4.60	Bc
B43CB	4.30	1/10	LBP	S	220-240V 60Hz ~1	RSIR	P	C	28	38	52	0.98	109	70	1.25	4.60	Bc
B43CB	4.30	1/10	LBP	S	220-240V 60Hz ~1	RSCR	P	C	31	43	58	1.06	121	78	1.35	4.60	Bc
B43C0	4.30	1/10	LBP	S	100V 50/60Hz ~1	RSIR	P	C	31	43	58	0.93	121	78	1.18	4.60	Bb
B43C5B	4.30	1/10	LBP	S	110-115V 60Hz ~1	RSIR	P	C	31	43	58	1.02	121	78	1.30	4.60	Bb
B52C5BL	5.20	1/8	LBP	S	110-120V 60Hz ~1	RSCR	P	C	38	53	71	1.18	149	95	1.50	5.20	Be
B52C0L	5.20	1/8	LBP	S	100V 50/60Hz ~1	RSIR	P	C	38	53	71	0.86	149	95	1.10	4.80	Bc
B60CBL	6.00	1/8	LBP	S	220-240V 60Hz ~1	RSIR	P	C	44	61	83	1.02	174	110	1.30	4.60	Bc
B60C5BL	6.00	1/8	LBP	S	110-120V 60Hz ~1	RSCR	P	C	44	61	82	1.10	172	109	1.40	5.20	Bd
HPY12AGa	12.10	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	92	126	168	1.08	351	224	1.37	10.90	Pc
HPY12AGb	12.10	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSCR	P	C	92	126	168	1.08	351	224	1.37	11.01	Pc
HPY14AJa	14.32	1/5	LBP	S	100V 50/60Hz ~1	RSIR	P	C	101	139	187	1.06	393	250	1.34	10.75	Pd
HPY14AJb	14.32	1/5	LBP	S	100V 50/60Hz ~1	RSCR	P	C	101	139	187	1.12	393	250	1.41	10.86	Pd

Compressors
R290 / R600a

R600a HMBP | HBP • 50 Hz

MODEL	DISPLACEMENT cm ³	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														
HUY55MAa	5.50	1/10	HMBP	S	220-240V 50Hz ~1	RSIR	P	C	64	110	272	2.47	327	323	2.86	8.95	Ub
HUY55MAb	5.50	1/10	HMBP	S	220-240V 50Hz ~1	RSCR	P	C	64	110	272	2.58	327	323	2.99	9.05	Ub
HUY70MAa	6.70	1/8	HMBP	S	220-240V 50Hz ~1	RSIR	P	C	80	137	338	2.47	406	401	2.87	8.90	Ub
HUY70MAb	6.70	1/8	HMBP	S	220-240V 50Hz ~1	RSCR	P	C	80	137	338	2.59	406	401	2.99	9.01	Ub
HLY99RAa	9.95	1/6	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	103	178	458	2.03	555	547	2.35	9.31	Lc
HLY99RAb	9.95	1/6	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	103	178	458	2.21	555	547	2.57	9.41	Lc
HPY12RAa	12.10	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	135	236	583	2.15	700	692	2.50	10.5	Pc
HPY12RAb	12.10	1/5	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	135	236	583	2.32	700	692	2.70	10.6	Pc
HPY14RAa	14.32	1/5	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	281	668	2.08	797	791	2.40	9.74	Pc
HPY14RAb	14.32	1/5	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	281	668	2.26	797	791	2.61	9.84	Pc
HPY16RAa	16.15	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	179	310	755	2.12	904	896	2.45	10.99	Pd
HPY16RAb	16.15	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	179	310	755	2.29	904	896	2.64	11.09	Pd

	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 1.36 = W (B)

W (C) x 1.20 = W (D)

R600a

W (A) x 1.34 = W (B)

W (C) x 1.19 = W (D)



3.

Compressors
Catalogue

R134a

R134a (*) LBP | LMBP • 50 Hz

MODEL	DISPLACEMENT cm ³	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	18	24	34	0.63	79	47	0.82	3.70	SLb
L30HL	3.10	1/12	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	23	34	49	0.69	112	67	0.90	4.20	SLc
B38H	3.80	1/8	LBP	S/F	220-240V 50Hz ~1	RSIR	P	C	33	45	63	0.72	147	86	0.95	4.60	Bc
B43H	4.30	1/7	LBP	S/F	220-240V 50/60Hz ~1	RSIR	P	C	33	50	71	0.76	157	97	1.00	5.40	Bd
B43HB	4.30	1/7	LBP	S	220-240V 50Hz ~1	RSIR	P	C	35	51	72	0.92	158	98	1.20	5.00	Bd
B48H	4.80	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	37	56	79	0.80	174	108	1.05	5.00	Bc
GL45AAa	4.56	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	37	57	81	0.81	184	112	1.06	7.91	Lb
GL45AAb	4.56	1/8	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	37	57	81	0.81	184	112	1.06	8.06	Lb
GL45ANa	4.56	1/8	LBP	S	200-240/220-230V 50/60Hz ~1	RSIR	P	C	36	56	80	0.78	184	110	1.03	8.42	Lb
GLY45AAa	4.56	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	46	65	89	1.01	192	121	1.30	8.70	Lb
GLY45AAb	4.56	1/8	LBP	S	220-240V 50Hz ~1	RSCR	P	C	47	66	90	1.05	193	122	1.36	8.80	Lb
GL60AAa	5.98	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	50	75	107	0.85	239	147	1.10	8.45	Lb
GL60AAb	5.98	1/6	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	50	75	107	0.85	239	147	1.10	8.60	Lb
GL60ANa	5.98	1/6	LBP	S	200-240/220-230V 50/60Hz ~1	RSIR	P	C	57	82	114	0.83	244	155	1.09	9.11	Lc
GL60ANb	5.98	1/6	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	82	94	116	0.84	244	155	1.09	9.26	Lc
GL60ANc	5.98	1/6	LBP	S	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	82	94	116	0.84	244	155	1.09	9.26	Lc
GLY60AAa	5.98	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	58	85	119	1.04	255	162	1.34	8.49	Lb
GLY60AAb	5.98	1/6	LBP	S	220-240V 50Hz ~1	RSCR	P	C	59	86	120	1.10	255	163	1.42	8.60	Lb
GL70ANa	6.65	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	70	96	129	0.83	278	176	1.08	9.49	Lb
GLY70AAa	6.65	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	66	96	133	1.03	289	181	1.33	9.09	Lc
GLY70AAb	6.65	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	66	96	133	1.08	289	181	1.40	9.20	Lc
GL80AAa	8.10	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	68	102	144	0.89	326	198	1.15	8.98	Lc
GL80AAb	8.10	1/5	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	68	102	144	0.89	326	198	1.15	9.13	Lc
GL80ANa	8.10	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	76	107	148	0.83	331	202	1.09	9.75	Lc
GL80ANb	8.10	1/5	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	76	107	148	0.83	331	202	1.09	9.90	Lc
GL80ANc	8.10	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	76	107	148	0.83	331	202	1.09	9.90	Lc
GLY80AAa	8.10	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	92	123	164	1.07	349	222	1.37	9.51	Lc
GLY80AAb	8.10	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	93	124	165	1.13	351	223	1.45	9.62	Lc
GL90AAa	9.09	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	82	120	165	0.90	351	224	1.15	9.39	Lc
GL90AAb	9.09	1/4	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	82	120	165	0.90	351	224	1.15	9.54	Lc
GL90ANa	9.09	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	85	118	163	0.84	366	222	1.10	10.33	Ld
GL90ANb	9.09	1/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	85	118	163	0.84	366	222	1.10	10.48	Ld
GL90ANc	9.09	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	85	118	163	0.84	366	222	1.10	10.48	Ld
GLY90AAa	9.09	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	104	140	186	1.07	387	251	1.37	9.43	Lc
GLY90AAb	9.09	1/4	LBP	S	220-240V 50Hz ~1	RSCR	P	C	104	140	187	1.13	388	252	1.45	9.54	Lc
GL99AAa	9.95	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	83	125	175	0.92	377	238	1.19	9.64	Ld
GL99AAb	9.95	1/4	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	83	125	175	0.92	377	238	1.19	9.79	Ld
GLM12LAa	10.70	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	98	143	200	0.92	445	273	1.19	10.06	Ld
GLM12LAb	10.70	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	98	145	204	0.99	451	279	1.29	10.16	Ld
GPY12AAa	12.10	3/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	128	178	241	0.96	500	326	1.23	12.07	Pd
GPY12AAb	12.10	3/8	LBP	S	220-240V 50Hz ~1	RSCR	P	C	128	178	241	1.04	500	326	1.33	12.18	Pd
GPY12LAa	12.10	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	113	162	225	1.00	509	308	1.30	12.78	Pd
GPY12LAb	12.10	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	113	162	225	1.06	509	308	1.38	12.89	Pd
GP14CG	14.17	3/8	LBP	F	200-220/220-230V 50/60Hz ~1	RSIR	R	C	99	158	228	0.83	509	314	1.08	10.62	Pc
GP14FB	14.17	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	99	157	228	0.90	509	313	1.16	10.36	Pc
GP14FC	14.17	3/8	LBP	F	100V 50/60Hz ~1	CSIR	R	C-V	106	160	229	0.81	519	314	1.06	12.20	Pc

Green Cooling Models
 New Models

(*) Or HF01234yf
 (**) Under development

This table continues in the following page

R134a (*) LBP | LMBP • 50 Hz

MODEL	DISPLACEMENT cm ³	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														
GPY14NGa	14.32	1/3	LMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	147	205	283	0.92	636	376	1.14	12.59	Pd
GPY14NGb	14.32	1/3	LMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	148	206	284	0.97	636	388	1.27	12.69	Pd
GP16FB	16.15	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	109	182	266	0.89	585	366	1.14	11.79	Pd
GPY16LAa	16.15	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	151	220	306	1.02	677	419	1.32	11.73	Pd
GPY16LAb	16.15	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	151	220	306	1.09	677	419	1.42	11.83	Pd
GX21FB	20.72	2/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	151	243	351	0.93	778	483	1.20	15.75	Xc

R134a (*) LBP | LMBP • 60 Hz

MODEL	DISPLACEMENT cm ³	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	39	0.56	87	53	0.75	3.60	SLb
L30HL	3.10	1/12	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	25	37	54	0.80	129	74	1.05	4.20	SLc
L30H5L	3.10	1/12	LBP	S	110-120V 60Hz ~1	RSIR	P	C	26	39	57	0.74	134	78	0.96	3.85	SLc
B38H	3.80	1/7	LBP	S/F	220-240V 60Hz ~1	RSIR	P	C	33	48	70	0.85	171	97	1.11	4.60	Bc
B38H5	3.80	1/12	LBP	S	110-115V 60Hz ~1	RSIR	P	C	34	50	71	0.96	158	97	1.10	5.00	Bc
B38H5L	3.80	1/7	LBP	S	110-120V 60Hz ~1	RSIR	P	C	34	52	72	0.83	134	97	1.06	4.60	Bc
B43H	4.30	1/7	LBP	S/F	220-240V 50/60Hz ~1	RSIR	P	C	38	56	80	0.85	187	110	1.11	5.40	Bd
B43HB	4.30	1/10	LBP	S	220-240V 50/60Hz ~1	RSCR	P	C	39	58	81	1.00	181	110	1.30	5.20	Bd
B43H5L	4.30	1/10	LBP	S	110-120V 60Hz ~1	RSIR	P	C	34	58	82	0.81	155	110	1.05	5.00	Bc
GL45ADa	4.56	1/8	LBP	S	115V 60Hz ~1	RSIR	P	C	42	65	95	0.80	215	130	1.05	8.19	Lb
GL45ADb	4.56	1/8	LBP	S	115V 60Hz ~1	CSIR	R	C-V	42	65	95	0.80	215	130	1.05	8.34	Lb
GL45ANa	4.56	1/8	LBP	S	200-240/220-230V 50/60Hz ~1	RSIR	P	C	43	65	93	0.83	213	128	1.09	8.42	Lb
GL60ADa	5.98	1/6	LBP	S	115V 60Hz ~1	RSIR	P	C	65	95	132	0.85	290	180	1.10	9.48	Lb
GL60ADb	5.98	1/6	LBP	S	115V 60Hz ~1	CSIR	R	C-V	65	95	132	0.85	290	180	1.10	9.63	Lb
GL60ANa	5.98	1/6	LBP	S	200-240/220-230V 50/60Hz ~1	RSIR	P	C	95	108	133	0.89	285	178	1.15	9.11	Lc
GL60ANb	5.98	1/6	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	95	108	133	0.89	285	178	1.15	9.26	Lc
GL60ANc	5.98	1/6	LBP	S	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	95	108	133	0.89	285	178	1.15	9.26	Lc
GUY60NRb	6.00	1/5	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	80	113	158	1.15	362	215	1.49	9.00	Ub
GUY60NRc	6.00	1/5	LMBP	S	115-127V 60Hz ~1	CSIR	R	C-V	80	113	158	1.15	362	215	1.49	9.00	Ub
GL70ANa	6.65	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	80	110	150	0.90	323	204	1.17	9.49	Lc
GUY70NRb	6.70	1/5	LMBP	F	115-127V 60Hz ~1	CSIR	R	C	86	121	166	1.15	386	226	1.49	9.30	Ub
GUY70NRc	6.70	1/5	LMBP	S	115-127V 60Hz ~1	CSIR	R	C	86	121	166	1.15	386	226	1.49	9.30	Ub
GL80ANa	8.10	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	87	124	172	0.92	385	235	1.19	9.75	Lc
GL80ANb	8.10	1/5	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	87	124	172	0.92	385	235	1.19	9.90	Lc
GL80ANc	8.10	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	87	124	172	0.92	385	235	1.19	9.90	Lc
GUY80NRb	8.10	1/4	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	107	151	209	1.14	480	285	1.49	9.60	Ub
GUY80NRc	8.10	1/4	LMBP	S	115-127V 60Hz ~1	CSIR	R	C-V	107	151	209	1.14	480	285	1.49	9.60	Ub
GL90ANa	9.09	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	96	134	185	0.93	421	254	1.20	10.33	Ld
GL90ANb	9.09	1/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	96	134	185	0.93	421	254	1.20	10.48	Ld
GL90ANc	9.09	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	96	134	185	0.93	421	254	1.20	10.48	Ld
GLY12NRa	10.70	3/8	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	119	168	234	1.02	531	320	1.33	10.55	Ld

Green Cooling Models






(*) Or HF01234yf

New Models











(**) Under development

This table continues in the following page

R134a (*) LBP | LMBP • 60 Hz

MODEL	DISPLACEMENT cm ³	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														
 GLY12NRb	10.70	3/8	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	119	168	234	1.07	531	320	1.39	10.65	Ld
GP14CG	14.17	3/8	LBP	F	200-220/220-230V 50/60Hz ~1	RSIR	R	C	113	181	262	0.91	589	361	1.18	10.62	Pc
GP14FE	14.17	3/8	LBP	F	115V 60Hz ~1	CSIR	R	C-V	119	186	267	0.84	603	368	1.11	12.35	Pd
 GPY14NDa	14.32	3/8	LMBP	F	115V 60Hz ~1	CSIR	R	C-V	166	234	322	0.90	715	440	1.17	12.04	Pd
 GPY14NDb	14.32	3/8	LMBP	F	115V 60Hz ~1	CSR	R	C-V	168	235	324	1.02	722	442	1.26	12.14	Pd
 GPY14NGa	14.32	3/8	LMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	173	241	330	0.98	728	450	1.27	12.59	Pd
 GPY14NGb	14.32	3/8	LMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	173	242	332	1.03	729	452	1.33	12.69	Pd

R134a (*) HMBP | HBP • 50 Hz

MODEL	DISPLACEMENT cm ³	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	1/14	HBP	S/F	220-240V 50Hz ~1	RSIR	P	C-V	-	60	152	1.64	192	186	1.94	4.60	Bb
B25G	2.60	1/14	HBP	S/F	220-240V 50/60Hz ~1	RSIR	P	C-V	-	76	202	1.78	243	242	2.08	4.65	Bc
 B25GL	2.60	1/14	HBP	S	220-240V 50Hz ~1	CSIR	R	C-V	-	81	186	1.81	235	228	2.16	5.35	Be
B30G	3.10	1/10	HBP	S/F	220-240V 50Hz ~1	CSIR	R	C-V	-	83	229	1.77	270	272	2.06	3.80	Bc
B30G	3.10	1/10	HBP	S/F	220-240V 50Hz ~1	RSIR	P	C-V	-	83	229	1.77	270	272	2.06	3.80	Bc
 B35GL	3.50	1/8	HBP	S/F	220-240V 50Hz ~1	CSIR	R	C-V	-	100	262	2.00	321	316	2.34	6.00	Bf
B35G0	3.50	1/8	HMBP	S	100V 50/60Hz ~1	RSIR	P	C	63	116	302	2.21	366	363	2.59	5.89	Be
B38G	3.80	1/8	HBP	S/F	220-240V 50Hz ~1	CSIR	R	C-V	-	129	291	1.91	347	347	2.23	5.00	Bc
B38G	3.80	1/8	HBP	S/F	220-240V 50/60Hz ~1	CSIR	R	C-V	-	129	288	1.87	359	350	2.22	5.40	Be
B43GL	4.30	1/6	HBP	S/F	220-240V 50Hz ~1	RSIR	P	C-V	-	122	348	1.75	422	419	2.06	5.50	Bf
GL45MG	4.56	1/6	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	175	340	1.67	415	409	1.95	9.37	Lb
GL45PB	4.56	1/6	HMBP	F	220-240V 50Hz ~1	RSIR	R	C	76	134	341	1.61	412	409	1.86	7.76	Lb
GL45TB	4.56	1/6	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	76	134	341	1.61	412	409	1.86	8.04	Lb
GL45TG	4.56	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	76	134	341	1.67	412	409	1.95	8.78	Lb
 GLY45RAa	4.56	1/6	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	71	139	373	1.93	452	448	2.25	8.75	Lb
 GLY45RAb	4.56	1/6	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	71	139	373	2.10	452	448	2.45	8.85	Lb
GL60PB	5.68	1/5	HMBP	F	220-240V 50Hz ~1	RSIR	R	C	95	170	436	1.81	527	523	2.09	8.34	Lc
GL60TB	5.68	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	95	170	436	1.81	527	523	2.09	8.65	Lb
GL60TC	5.68	1/5	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	95	170	436	1.72	527	523	2.01	10.38	Lb
GL60TG	5.68	1/5	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	95	170	436	1.81	527	523	2.09	9.07	Lc
GL60MG	5.98	1/5	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	206	427	1.70	530	518	1.99	9.00	Lc
 GLY60RAa	5.98	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	106	190	485	2.04	585	582	2.36	10.47	Lc
 GLY60RAb	5.98	1/5	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	106	190	485	2.24	585	582	2.60	10.58	Lc
 GUY60RAa	6.00	1/5	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	1/5	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	126	222	545	2.53	653	651	2.95	9.16	Ub
 GUY72RCa	7.20	1/4	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	153	262	646	2.24	777	773	2.60	9.52	Uc
 GUY72RCb	7.20	1/4	HMBP	F	100V 50/60Hz ~1	CSR	R	C-V	153	264	650	2.39	782	778	2.78	9.59	Uc
GL80MG	7.57	1/5	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	286	576	1.78	714	698	2.10	9.53	Lc
GL80PB	7.57	1/5	HMBP	F	220-240V 50Hz ~1	RSIR	R	C	111	212	553	1.81	667	663	2.10	8.88	Lc
GL80TB	7.57	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	111	212	553	1.81	667	663	2.10	9.19	Lc

 Green Cooling Models

(*) Or HF01234yf

This table continues in the following page

 New Models

(**) Under development

R134a (*) HMBP | HBP • 50 Hz

MODEL	DISPLACEMENT cm ³	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
GL80TC	7.57	1/5	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	111	212	553	1.85	667	663	2.21	10.98	Lc
GL80TG	7.57	1/5	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	111	212	553	1.81	667	663	2.10	9.53	Lc
GLY80RAa	8.10	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	159	275	680	2.16	818	814	2.51	10.10	Lc
GLY80Rab	8.10	1/5	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	159	275	680	2.33	818	814	2.71	10.21	Lc
GUY80RAa	8.10	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	174	302	720	2.22	859	858	2.56	9.70	Ub
GUY80Rab	8.10	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	177	304	727	2.38	868	866	2.75	9.80	Ub
GUY90RAa	8.80	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	182	317	775	2.21	929	926	2.56	9.70	Ld
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	Ld
GL90MG	8.85	1/4	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	328	661	1.79	810	797	2.10	10.61	Lc
GL90PB	8.85	1/4	HMBP	F	220-240V 50Hz ~1	RSIR	R	C	143	259	660	1.90	796	791	2.20	9.12	Ld
GL90TB	8.85	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	143	259	660	1.90	796	791	2.20	9.66	Ld
GL90TC	8.85	1/4	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	143	259	660	1.75	796	791	2.08	11.48	Lc
GL90TG	8.85	1/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	143	259	660	1.80	796	791	2.08	9.70	Lc
GU80TB	8.10	1/4	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	272	693	1.99	836	830	2.30	9.80	Uc
GLY90RAa	9.09	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	169	298	748	2.05	901	896	2.37	10.74	Ub
GLY90Rab	9.09	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	169	298	748	2.25	901	896	2.61	10.84	Ub
GL11TB	9.95	1/3	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	190	330	817	1.92	981	977	2.23	9.97	Ld
GLY12RAa	10.70	3/8	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	349	867	1.97	1064	1047	2.30	10.23	Ld
GLY12Rab	10.70	3/8	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	349	867	2.20	1064	1047	2.57	10.33	Ld
GLY12RGa	10.70	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	-	349	867	1.87	1064	1047	2.19	10.43	Ld
GLY12RGb	10.70	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	-	349	867	1.98	1064	1047	2.32	10.53	Ld
GPY12RAa	12.10	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	228	401	992	2.03	1191	1186	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	1186	2.58	13.42	Pd
GP14TB	14.17	3/8	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	373	998	1.76	1208	1198	2.03	11.29	Pd
GP14TG	14.17	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	190	373	998	1.76	1208	1198	2.03	11.98	Pd
GPY14RAa	14.32	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	296	492	1161	1.97	1386	1384	2.27	12.20	Pd
GPY14Rab	14.32	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	296	492	1161	2.16	1386	1384	2.50	12.30	Pd
GP16TB	16.15	3/8	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	476	1204	1.80	1451	1442	2.09	11.93	Pd
GP16TG	16.15	3/8	HBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	-	476	1204	1.81	1451	1442	2.09	11.93	Pd
GPM16RA	16.15	1/2	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	543	1317	1.79	1574	1571	2.09	12.29	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
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
GPT18RA	18.00	1/2	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	618	1482	2.06	1783	1774	2.39	12.68	Pd
GPT18RG	18.00	1/2	HBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	-	602	1443	2.04	1745	1731	2.37	12.84	Pd
GX18TB	18.40	1/2	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	286	539	1389	1.90	1673	1663	2.20	15.44	Xc
GX18TG	18.40	1/2	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	286	539	1389	1.90	1673	1663	2.20	16.08	Xc
GX21TB	20.72	5/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	323	603	1549	1.88	1866	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	21.37	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

Green Cooling Models (*) Or HF01234yf
 New Models (***) Under development

R134a (*) HMBP | HBP • 60 Hz





MODEL	DISPLACEMENT cm ³	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN	
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C								
									Cecomaf (W)			Ashrae					
									-25	-15	5		10	7.2			
											W	COP		W			COP
B22G5	2.20	1/16	HBP	S/F	110-115V 60Hz ~1	RSIR	P	C-V	-	72	188	1.83	229	226	2.13	4.80	Bb
B25G	2.60	1/14	HBP	S/F	220-240V 50/60Hz ~1	RSIR	P	C-V	-	86	224	1.80	274	269	2.10	4.65	Bc
B25G5L	2.60	1/14	HBP	S/F	115V 60Hz ~1	CSIR	R	C-V	-	74	231	1.93	283	279	2.28	5.35	Be
B30G5	3.10	1/10	HBP	S/F	110-115V 60Hz ~1	RSIR	R	C-V	-	101	262	1.79	317	314	2.08	4.80	Bc
B35G5	3.50	1/10	HBP	S/F	110-115V 60Hz ~1	CSIR	R	C-V	-	120	304	1.80	371	366	2.12	4.90	Bc
B35G0	3.50	1/8	HMBP	S	100V 50/60Hz ~1	RSIR	P	C	84	138	352	2.23	428	423	2.60	5.89	Be
B38G	3.80	1/8	HBP	S/F	220-240V 50/60Hz ~1	CSIR	R	C-V	-	150	339	1.98	410	406	2.31	5.40	Be
B38G5L	3.80	1/8	HBP	S/F	110-115V 60Hz ~1	CSIR	R	C-V	-	136	353	1.83	424	422	2.13	5.50	Be
GL45PE	4.56	1/6	HMBP	F	115V 60Hz ~1	RSIR	R	C	89	157	400	1.59	483	479	1.84	8.87	Lb
GL45TE	4.56	1/6	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	89	157	400	1.59	483	479	1.84	9.18	Lb
GL45TG	4.56	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	89	157	400	1.65	483	479	1.92	8.78	Lb
GL45MG	4.56	1/6	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	204	398	1.65	487	479	1.92	9.37	Lc
GL60PE	5.68	1/5	HMBP	F	115V 60Hz ~1	RSIR	R	C	111	199	510	1.73	616	612	2.01	9.97	Lc
GL60TC	5.68	1/5	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	111	199	510	1.74	616	612	2.01	10.38	Lc
GL60TE	5.68	1/5	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	111	199	510	1.73	616	612	2.01	10.28	Lc
GL60TG	5.68	1/5	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	111	199	510	1.76	616	612	2.04	9.07	Lc
GL60MG	5.98	1/5	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	243	499	1.73	619	605	2.02	9.00	Lc
GUY72RCa	7.20	1/4	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	184	319	765	2.18	913	912	2.51	9.52	Uc
GUY72RCb	7.20	1/4	HMBP	F	100V 50/60Hz ~1	CSR	R	C-V	181	318	772	2.35	923	921	2.72	9.59	Uc
GL80PE	7.57	1/5	HMBP	F	115V 60Hz ~1	RSIR	R	C	130	248	647	1.78	781	776	2.04	9.97	Lc
GL80TC	7.57	1/5	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	130	248	647	1.92	781	776	2.22	10.98	Lc
GL80TE	7.57	1/5	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	130	248	647	1.78	781	776	2.04	10.68	Lc
GL80TG	7.57	1/5	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	130	248	647	1.78	781	776	2.04	9.53	Lc
GL80MG	7.57	1/5	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	344	674	1.84	836	816	2.15	9.53	Lc
GLY80RDa	8.10	1/5	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	169	299	775	2.02	939	930	2.34	9.74	Lc
GLY80RDb	8.10	1/5	HMBP	F	115V 60Hz ~1	CSR	R	C-V	169	299	775	2.17	939	930	2.51	9.85	Lc
GL90MG	8.85	1/4	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	391	772	1.83	947	930	2.11	10.61	Ld
GL90PE	8.85	1/4	HMBP	F	115V 60Hz ~1	RSIR	R	C	167	303	773	1.78	932	926	2.06	11.27	Ld
GL90TC	8.85	1/4	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	167	303	773	1.82	932	926	2.10	11.48	Ld
GL90TE	8.85	1/4	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	167	303	773	1.78	932	926	2.06	9.75	Ld
GL90TG	8.85	1/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	168	303	773	1.71	932	926	1.97	9.70	Ld
GLY90RDa	9.09	1/4	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	198	348	874	1.95	1053	1047	2.25	10.59	Lc
GLY90RDb	9.09	1/4	HMBP	F	115V 60Hz ~1	CSR	R	C-V	198	348	874	2.10	1053	1047	2.42	10.69	Lc
GLY12RGa	10.70	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	-	405	1007	1.90	1216	1207	2.22	10.43	Ld
GLY12RGb	10.70	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	-	405	1007	2.07	1216	1207	2.40	10.53	Ld
GLY12RRa	10.70	3/8	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	222	402	1015	1.90	1221	1214	2.20	11.14	Ld
GLY12RRb	10.70	3/8	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	222	402	1015	2.01	1221	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	3/8	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	-	515	1410	1.90	1738	1706	2.22	12.03	Pd
GPY14RDb	14.32	1/2	HBP	F	115V 60Hz ~1	CSR	R	C-V	-	515	1410	2.02	1738	1706	2.36	12.13	Pd
GP16TE	16.15	3/8	HBP	F	115V 60Hz ~1	CSIR	R	C-V	-	556	1408	1.69	1697	1686	1.96	12.20	Pd
GP16TG	16.15	3/8	HBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	-	556	1408	1.74	1697	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

Green Cooling Models
New Models

(*) Or HF01234yf
(**) Under development

This table continues in the following page

R134a (*) HMBP | HBP • 60 Hz

MODEL	DISPLACEMENT cm ³	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
 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	1/2	HBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	-	693	1640	1.90	1979	1964	2.20	12.84	Pd
GX18TG	18.40	1/2	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	333	630	1625	1.87	1957	1946	2.17	16.08	Xc
GX23TG	23.20	5/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	429	792	2021	1.71	2433	2419	1.98	16.34	Xd
 GX23TF (*)	23.20	5/8	HMBP	F	208-230V 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

 Green Cooling Models
 New Models

(*) Or HF01234yf
(**) Under development

	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

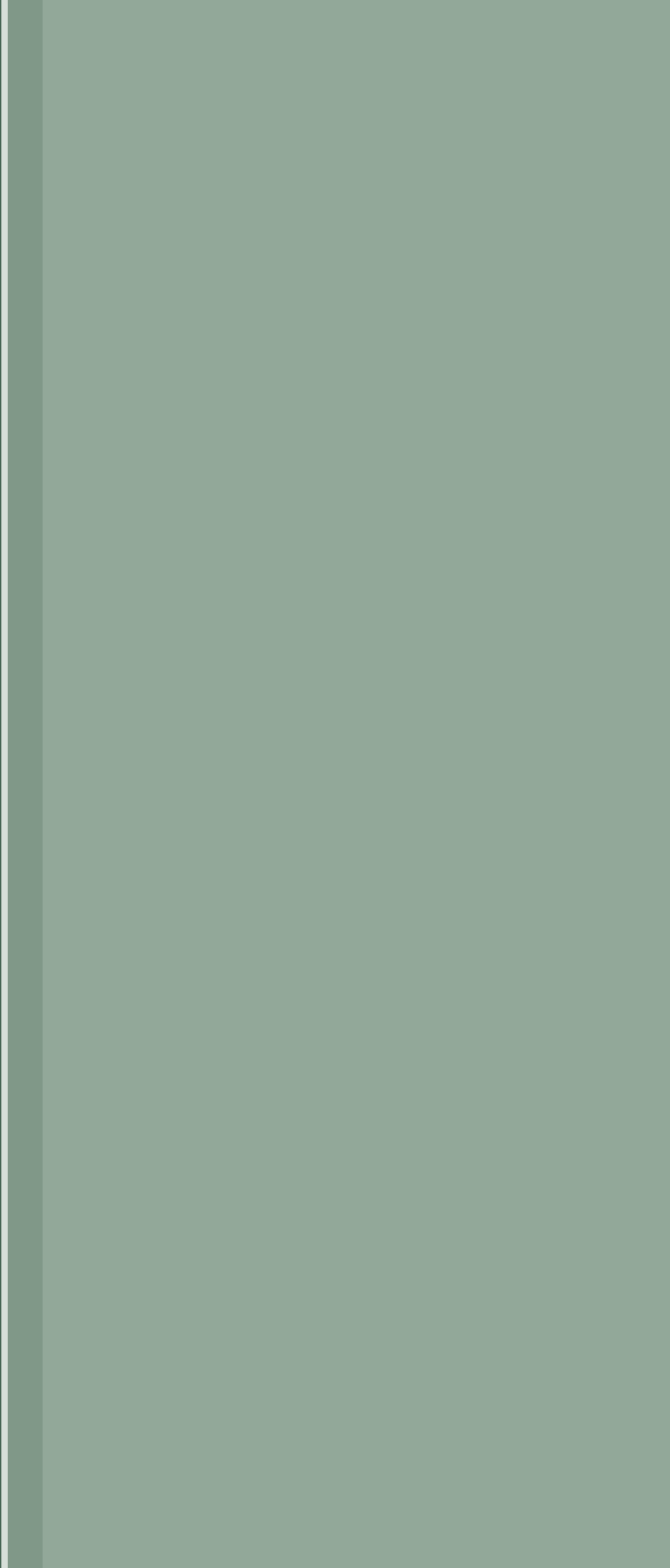
Measurement conversion

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/R507

R404A • R507 (*) LBP • 50 Hz

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






















 Green Cooling Models

(*) Or R407B / R452A

 New Models

(**) Under development

R404A • R507 (*) LBP • 60 Hz

MODEL	DISPLACEMENT cm ³	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN	
									COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C								
									Cecomaf (W)			Ashrae					
									-40	-30	-25		-10	-23.3			
											W	COP		kcal/h			COP
ML45FG	4.56	1/6	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	61	117	157	0.68	321	233	0.97	10.87	Lc
ML45FR	4.56	1/6	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	61	117	157	0.72	321	233	1.01	9.21	Lc
 MLY45LRa	4.56	1/6	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	64	143	192	0.87	379	284	1.23	9.20	Lc
 MLY45LRb	4.56	1/6	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	64	143	192	0.90	379	284	1.27	9.30	Lc
ML60FG	5.98	1/5	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	81	157	207	0.70	411	306	0.99	10.87	Lc
ML60FR	5.98	1/5	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	81	157	207	0.72	411	306	1.01	9.54	Lc
 MLY60Lda	5.98	1/5	LBP	F	115V 60Hz ~1	CSIR	R	C-V	102	197	259	0.89	501	381	1.25	10.40	Lc
 MLY60Ldb	5.98	1/5	LBP	F	115V 60Hz ~1	CSR	R	C-V	102	197	259	0.95	501	381	1.34	10.50	Lc
ML80FG	8.10	1/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	117	223	296	0.76	590	437	1.07	12.20	Ld
ML80FR	8.10	1/4	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	117	223	296	0.75	590	437	1.05	11.97	Ld
ML90FG	8.85	1/3	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	121	242	323	0.80	642	477	1.12	10.78	Ld
ML90FR	8.85	1/3	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	121	242	323	0.79	642	477	1.11	11.97	Ld
 MLT90CD	9.09	1/3	LBP	F	115V 60Hz ~1	RSCR	P	C	164	290	382	1.03	770	564	1.45	11.40	Ld
 MLT90CDc	9.09	1/3	LBP	S	115V 60Hz ~1	CSR	R	C-V	159	284	373	0.99	750	551	1.40	11.55	Ld
 MLT90LD	9.09	1/4	LBP	F	115V 60Hz ~1	CSR	R	C-V	159	284	373	0.99	750	551	1.40	11.80	Ld
 MLY12Lfa	10.70	3/8	LBP	F	208-230V 60Hz ~1	CSIR	R	C-V	179	343	451	0.92	882	665	1.29	11.06	Ld
 MLY12Lfb	10.70	3/8	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	179	343	451	0.94	882	665	1.33	11.16	Ld
 MLY12Lga	10.70	3/8	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	190	351	458	0.86	884	673	1.22	11.06	Ld
 MLY12Lgb	10.70	3/8	LBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	190	357	466	0.91	889	684	1.29	11.16	Ld
 MLY12LRa	10.70	3/8	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	199	373	478	0.96	866	698	1.34	11.01	Ld
 MLY12LRb	10.70	3/8	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	200	369	476	1.00	890	698	1.41	11.11	Ld
 MPT12CD	12.10	3/8	LBP	F	115V 60Hz ~1	RSCR	P	C	225	397	515	1.01	993	756	1.41	12.35	Pd
 MPT12LD	12.10	3/8	LBP	F	115V 60Hz ~1	CSR	R	C-V	225	397	515	1.01	993	756	1.41	11.50	Pd
MP14FG	14.17	1/2	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	142	355	492	0.82	1026	734	1.15	12.03	Pd
 MPT14LD	14.32	1/2	LBP	F	115V 60Hz ~1	CSR	R	C-V	258	453	590	0.96	1156	868	1.35	12.20	Pd
 MPT14LF	14.32	1/2	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	262	474	621	0.96	1223	914	1.36	12.30	Pd
 MPT16LD	16.10	1/2	LBP	F	115V 60Hz ~1	CSR	R	C-V	269	509	666	0.95	1285	979	1.33	12.65	Pd
 MX21FGa	20.72	3/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	247	540	735	0.94	1515	1093	1.32	16.76	Xd
 MX21FR	20.72	3/4	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	247	627	768	0.98	1001	1093	1.32	17.71	Xd
 MX23FGa	23.20	7/8	LBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	303	627	843	0.93	1711	1250	1.32	16.74	Xd
MS26F3	25.93	3/4	LBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	202	641	909	0.92	1902	1361	1.31	20.80	Xd
MS26FF	25.93	3/4	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	202	641	909	0.91	1902	1361	1.30	22.60	Sd
MS26FG	25.93	3/4	LBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	202	640	907	0.92	1902	1358	1.31	22.11	Sd
MS30F3	29.95	7/8	LBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	242	763	1086	0.94	2302	1628	1.32	24.00	Sd
MS30FF	29.95	7/8	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	242	763	1086	0.92	2302	1628	1.31	22.70	Sd
MS30FG	29.95	7/8	LBP	F	230V 60Hz ~1	CSR	R	C-V	242	763	1086	0.95	2302	1628	1.36	22.70	Sd
MS34F3	34.42	1	LBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	277	885	1263	0.96	2696	1896	1.35	22.90	Sd
MS34FF	34.42	1	LBP	F	208V 60Hz ~1	CSR	R	C-V	272	838	1216	0.91	2738	1838	1.30	22.90	Sd


















 Green Cooling Models

(*) Or R407B / R452A

 New Models

(**) Under development













R404A • R507 (*) HMBP | HBP • 50 Hz

MODEL	DISPLACEMENT cm ³	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	470	1.41	555	593	1.74	9.47	Lc
ML40TG	4.05	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	132	212	470	1.41	555	593	1.74	9.12	Lc
ML45TB	4.56	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	150	237	525	1.47	621	663	1.82	9.10	Lc
ML45TG	4.50	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	160	261	572	1.59	673	721	1.95	9.14	Lc
 MLT45RG	4.56	1/5	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	160	262	591	1.91	699	747	2.36	9.75	Ld
ML60TB	5.68	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	165	276	643	1.50	765	814	1.85	9.29	Lc
ML60TG	5.68	1/4	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	165	276	643	1.50	765	814	1.85	10.57	Lc
 MLY60RAa	5.98	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	210	344	761	1.74	896	959	2.15	10.49	Lc
 MLY60Rab	5.98	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	210	344	761	1.91	896	959	2.36	10.59	Lc
 MLY60RGa	5.98	1/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	215	341	765	1.85	907	968	2.29	10.24	Lc
 MLY60RGb	5.98	1/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	216	352	778	2.00	916	980	2.48	10.34	Lc
ML80TB	7.57	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	225	383	875	1.61	1034	1105	1.99	9.68	Ld
ML80TG	7.57	3/8	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	225	383	875	1.61	1034	1105	1.99	11.81	Ld
 MLY80RAa	8.10	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	280	461	1049	1.84	1243	1326	2.27	11.29	Ld
 MLY80Rab	8.00	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	280	461	1049	1.99	1243	1326	2.46	11.39	Ld
ML90TB	8.85	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	280	461	1049	1.61	1243	1326	1.98	12.31	Ld
ML90TG	8.85	3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	280	461	1049	1.61	1243	1326	1.98	11.29	Ld
 MLY90RAa	9.09	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	316	509	1125	1.73	1327	1419	2.13	11.34	Ld
 MLY90Rab	9.09	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	316	508	1129	1.89	1333	1425	2.34	11.44	Ld
 MLT12RA	10.70	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	396	632	1379	1.88	1622	1738	2.31	11.59	Ld
 MLT12RG	10.70	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	365	601	1337	1.83	1576	1686	2.26	12.24	Ld
 MPT12RG	12.10	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	482	689	1489	1.87	1769	1884	2.33	12.89	Pd
 MPT12RA	12.10	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	437	723	1559	1.91	1823	1960	2.35	12.20	Pd
 MPT14RA	14.32	1/2	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	789	1750	1.78	2068	2210	2.20	12.25	Pd
 MX16TBa	16.03	7/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	481	814	1868	1.74	2212	2361	2.15	16.33	Xd
 MX18TBa	18.40	7/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	551	932	2143	1.76	2540	2710	2.18	16.33	Xd
MX18TGa	18.40	7/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	551	932	2143	1.76	2540	2710	2.18	16.24	Xd
MX21TBa	20.72	1	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	621	1047	2409	1.74	2857	3047	2.15	16.52	Xd
MX21TGa	20.72	1	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	621	1047	2409	1.74	2857	3047	2.15	16.74	Sb
MS18T3	18.10	7/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	421	834	2124	1.89	2543	2698	2.35	20.00	Xd
MS22T3	21.75	1	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	451	970	2560	1.98	3072	3256	2.45	20.00	Sb
MS22TB	21.75	1	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	451	967	2550	2.02	3060	3244	2.50	20.51	Sc
MS26T3	25.93	1 3/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	671	1289	3166	1.98	3769	4012	2.45	18.60	Sd
MS26TB	25.93	1 3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	671	1288	3164	2.00	3767	4010	2.46	22.12	Sd
MS26TG	25.93	1 3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	671	1289	3166	2.00	3769	4012	2.46	23.00	Sd
MS34TB	34.42	1 5/8	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	1850	4205	1.89	4930	5292	2.30	22.21	Sd
MS34TG	34.42	1 5/8	HBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	-	1850	4205	1.89	4930	5292	2.30	22.78	Sd
MS34T3	34.42	1 5/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	1002	1850	4205	1.79	4930	5292	2.20	22.80	Sd
 MS38TB (**)	38.00	2	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	1998	4542	1.89	5325	5716	2.29	22.90	Sd

 Green Cooling Models
 New Models

(*) Or R407B / R452A
(**) Under development

R404A • R507 (*) HMBP | HBP • 60 Hz

MODEL	DISPLACEMENT cm ³	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	553	1.39	653	698	1.70	9.12	Lc
ML45TG	4.56	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	190	310	672	1.55	788	846	1.89	9.14	Lc
 MLT45RG	4.56	1/5	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	192	314	687	1.83	808	865	2.25	9.75	Ld
ML60TG	5.68	1/4	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	193	323	753	1.49	896	954	1.83	10.57	Lc
ML60TR	5.68	1/4	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	193	323	753	1.48	896	954	1.83	10.58	Lc
 MLY60RDa	5.98	1/4	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	250	408	900	1.70	1059	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
 MLY60RGa	5.98	1/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	257	407	883	1.74	1039	1113	2.14	10.24	Lc
 MLY60RGb	5.98	1/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	258	416	897	1.89	1051	1128	2.33	10.34	Lc
ML80TG	7.57	3/8	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	263	448	1022	1.59	1208	1291	1.96	11.81	Ld
 MLY80RDa	8.10	3/8	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	329	541	1224	1.75	1449	1547	2.15	11.21	Ld
 MLY80RDb	8.10	3/8	HMBP	F	115V 60Hz ~1	CSR	R	C-V	329	541	1224	1.81	1449	1547	2.22	11.31	Ld
ML90TG	8.85	3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	329	539	1227	1.54	1454	1551	1.89	11.29	Ld
 MLT12RG	10.70	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	441	702	1553	1.75	1833	1960	2.16	12.24	Ld
 MLT12RR	10.70	1/2	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	463	736	1560	1.75	1825	1961	2.15	11.96	Ld
 MPT12RG	12.10	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	-	795	1725	1.79	2043	2179	2.22	12.89	Pd
 MPT14RF	14.32	1/2	HBP	F	208-230V 60Hz ~1	CSR	R	C-V	-	929	1990	1.56	2351	2512	1.91	12.67	Pd
 MPT14RD (*)	14.32	1/2	HBP	F	115V 60Hz ~1	CSR	R	C-V	-	929	1990	1.56	2351	2512	1.91	12.67	Pd
MX16TE	16.03	7/8	HMBP	F	115V 60Hz ~1	CSR	R	C-V	561	949	2185	1.62	2589	2762	2.00	17.20	Xd
MX18TE	18.40	7/8	HMBP	F	115V 60Hz ~1	CSR	R	C-V	644	1090	2507	1.62	2972	3170	2.00	17.20	Xd
MX18TGa	18.40	7/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	644	1090	2507	1.74	2972	3170	2.15	16.24	Xd
MX21TGa	20.72	1	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	726	1211	2781	1.72	3299	3518	2.12	16.74	Sb
MS18T3	18.10	7/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	491	971	2471	1.82	2959	3140	2.25	20.00	Sb
MS22T3	21.75	1	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	527	1135	2995	1.94	3595	3810	2.40	20.00	Sb
MS26T3	25.93	1,375	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	785	1508	3705	1.84	4411	4695	2.25	18.60	Sd
MS26TG	25.93	1,375	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	785	1508	3705	1.93	4411	4695	2.37	23.00	Sd
MS34TG	34.42	1,625	HBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	-	2163	4917	1.71	5762	6187	2.10	22.78	Sd
MS34T3	34.42	1,625	HMBP	F	400/440V 50/60Hz ~3	3PHASE	P	C-V	1172	2164	4916	1.71	5764	6187	2.10	22.80	Sd

 Green Cooling Models (*) Or R407B / R452A
 New Models (**) Under development

	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

All R404A Cubigel Compressor® range can be used with R452A. For detailed information, refer to the statement at www.huayicompressor.es

Measurement conversion

R404A
W (A) x 1.50 = W (B)
W (C) x 1.26 = W (D) S compressor's range can be provided with tube or valve



3.

Compressors Catalogue

DC/VSC

R134a (*) HMBP • 50 | 60 Hz

Variable Speed Compressors

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

R290 HMBP • 50 | 60 Hz

Variable Speed Compressors

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

R290 LBP • 50 | 60 Hz

Variable Speed Compressors

MODEL	DISPLACEMENT cm ³	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	(W/W)										
NVT70FSC (**)	7.00	LMBP	F	220-240V 50/60Hz ~1	ECM	C	1800	65	110	145	1.28	293	196	1.65	6.20	Vb
							2100	73	127	166	1.31	328	223	1.70		
							2400	89	157	204	1.32	398	275	1.72		
							3000	107	196	252	1.31	492	339	1.70		
							3600	127	232	298	1.29	581	400	1.66		
NLT12FSC (**)	12.10	LMBP	F	220-240V 50/60Hz ~1	ECM	C	1800	104	178	233	1.23	472	316	1.58	8.95	Ld
							2100	118	205	268	1.26	528	358	1.63		
							2400	134	236	307	1.24	598	413	1.61		
							3000	161	294	378	1.23	737	508	1.59		
							3600	191	348	448	1.20	873	601	1.55		
NPT12FSC	12.10	LBP	F	220-240V 50/60Hz ~1	ECM	C	1800	115	196	257	1.18	521	348	1.52	12.10	Pc
							2100	134	233	305	1.28	601	408	1.65		
							2400	152	268	349	1.26	680	470	1.63		
							3000	178	326	419	1.25	-	563	1.60		
							3600	216	393	506	1.22	-	679	1.57		

Green Cooling Models

(*) Or HF01234yf (**) Model under development. Provisional performances/data.

R134a (*) LBP | MBP | HBP • 12-42 DC

DC Compressors

MODEL	DISPLACEMENT cm ³	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	EXPANSION	SPEED rpm	REFRIGERATION CAPACITY						WEIGHT Kg	DESIGN	
								COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C								
								Cecomaf (W)			Ashrae					
								-25	-15	+5	+10	+7.2				
W	COP	W	(W/W)													
GLT80TDC 24-42V	8.10	HMBP	F	24-42V DC	ECM	C	1500	78	139	362	1.93	421	429	2.19	8.40	Lc (**)
							2000	107	190	487	2.06	565	578	2.34		
							2500	135	238	601	1.99	710	712	2.26		
							3000	161	281	711	1.91	840	843	2.17		
							3500	185	320	818	1.82	962	969	2.07		

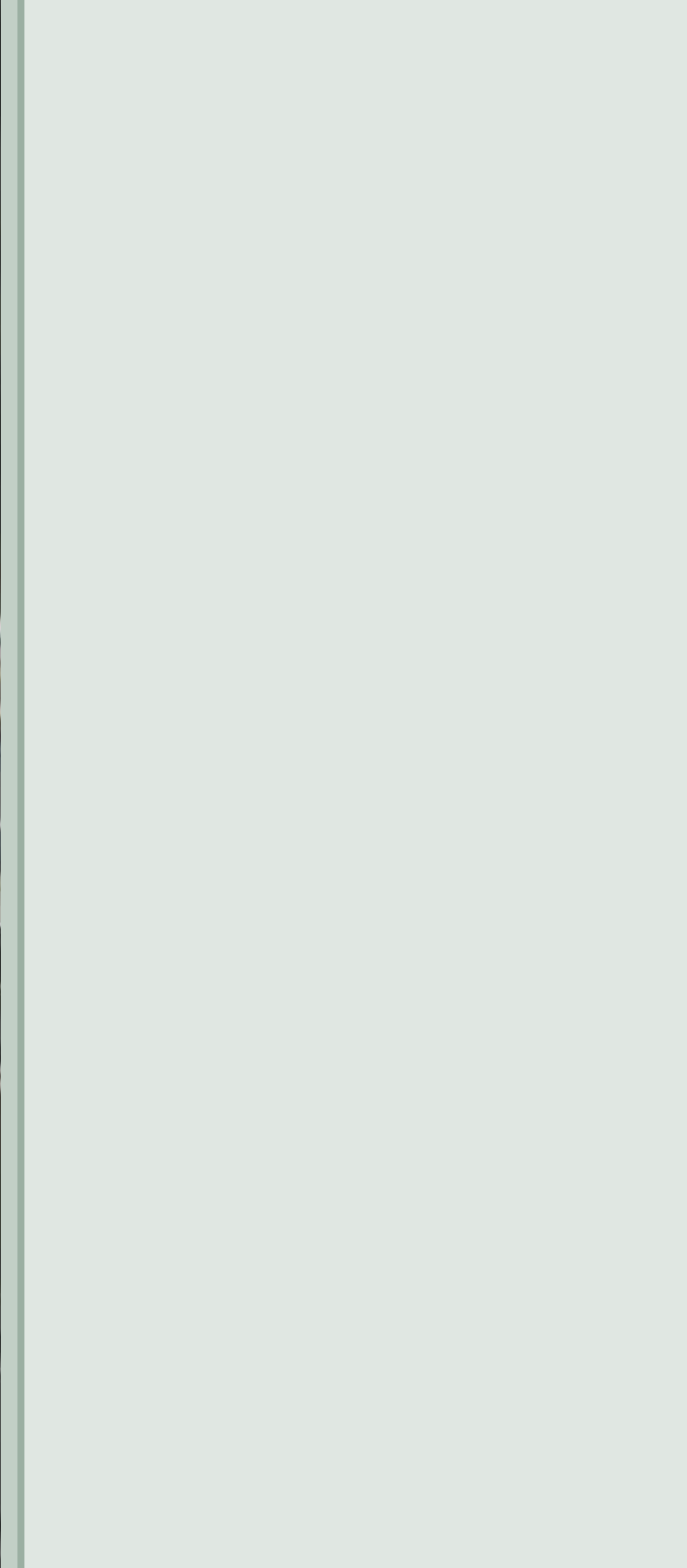
Green Cooling Models

(*) Or HF01234yf (**) Model under development. Provisional performances/data.

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

Measurement conversion

R134a R290
W (A) x 1.37 = W (B) W (A) x 1.36 = W (B)
W (C) x 1.19 = W (D) W (C) x 1.20 = W (D)



4.

Technical Information

Technical Datasheets online

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



Technical Data Sheet

ASHRAE						
T ₁	T ₂	Capacity	Compressor	Current	COE	EBE
°C	°F	kg/hr	W	A	W/W	kWh/ton
40	104	400	300	1.30	1.00	0.80
35	95	430	310	1.28	1.00	0.78
30	86	460	320	1.26	1.00	0.76

CECOMAF						
T ₁	T ₂	Capacity	Compressor	Current	COE	EBE
°C	°F	kg/hr	W	A	W/W	kWh/ton
40	104	390	290	1.29	1.00	0.79
35	95	420	300	1.27	1.00	0.77
30	86	450	310	1.25	1.00	0.75

Technical Data Sheet

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

APPLICATION	COMPRESSOR	MOTOR
Application: Low Back Pressure	Displacement: 16.15 cm ³	Rated Power: 1.0 hp
Refrigerant: R290	Gasket: 31.75 mm	Voltage/Frequency: 220-240V/50Hz
Evaporating Temp: -40.0 °C to +10.0 °C	Stroke: 31.75 mm	Voltage range: 197-245 V
Expansion: Capillary/Valve	Net Weight: 12.17 kg	Type: CDB
Comp. Cooling: Fan cooled	Oil type: ISO VG 32 ESTER	Phase number: 1 PH
Max. ambient temp: 45.0 °C	Oil charge: 400 g/g	Locked Rotor Amps (LRA): 18.00 A
		Max. Comp. Current (MCC): 1.60 A
		Max W. resist. at 25°C: 0.30 Ω
		Start W. resist. at 25°C: 0.70 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	890 kcal/h	864 W
COE	1.50 W/W	1.58 W/W
EBE	1.29 kWh/ton	1.00 kWh/ton
Start Power	304 W	485 W
Current	2.48 A	2.42 A

TEST CYCLE CONDITIONS

	ASHRAE	CECOMAF
Evaporating temp. (T _e)	LEP (B)	LEP (A)
Condensing temp. (T _c)	55.0 °C	55.0 °C
Load temp. (T _l)	55.0 °C	55.0 °C
Ambient temp. (T _{amb})	55.0 °C	55.0 °C
Subcool temp. (T _{sub})	55.0 °C	55.0 °C
Voltage/Frequency	220 V 50 Hz	220 V 50 Hz

ELECTRICAL COMPONENTS

Starting capacitor	72 μF 250 V	
Run capacitor	12 μF 450 V	
Fuse	Option 1	
Reference	30x4 15A x RTC16C	
Max. In	9.00 A	
Drop-Out	7.75 A	
Reference	Option 1	Option 2
Reference	MR3040-05	10380
Current	10.30 A	8.80 A
Time (sec)	7.5-14 sec	7.5-14 sec
Dec. temp. (Comp/Case)	105.00 / 55.00 °C	105.00 / 55.00 °C





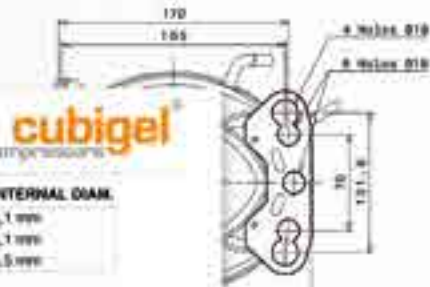
Model (kg)	Start Power (kg)
0.11000000	26.71000000
0.12000000	3.75000000
0.13000000	4.11000000
0.14000000	4.47000000
0.15000000	4.83000000
0.16000000	5.19000000

Product 11001-2
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Technical Data Sheet

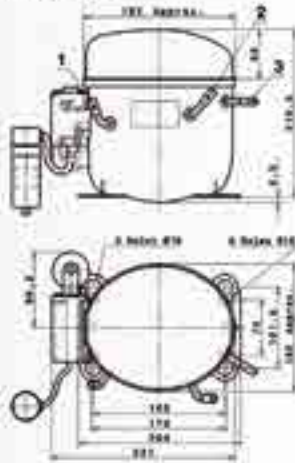


FIXINGS



Technical Data Sheet

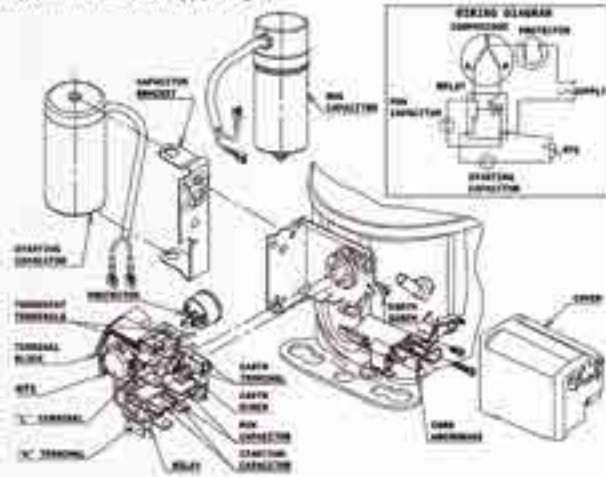
COMPRESSOR DIMENSIONS



DESIGNATION	INTERNAL DIAM.
1 Suction	8,1 mm
2 Service	8,1 mm
3 Discharge	6,5 mm

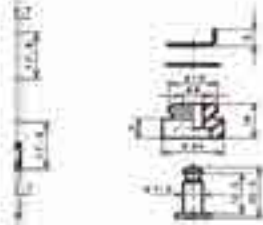
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSR CONNECTION (CURRENT RELAY + RTG) (S, P ranges)



SET SNAP-ON

Ø101.6 (incl) Ø18 holes (170x70 incl)



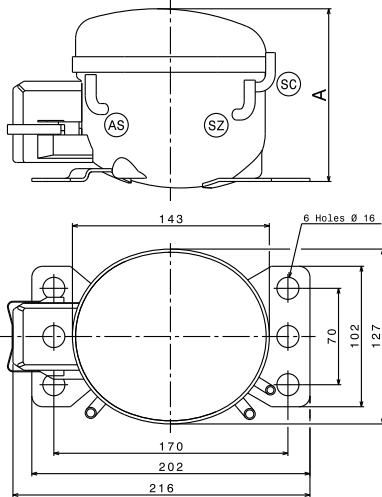
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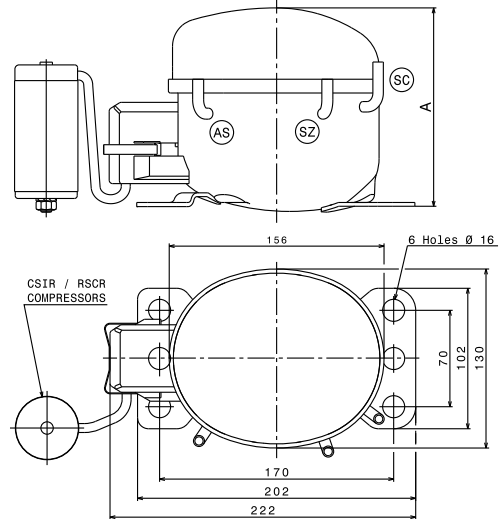
Compressor Dimensional Drawings

Small L range



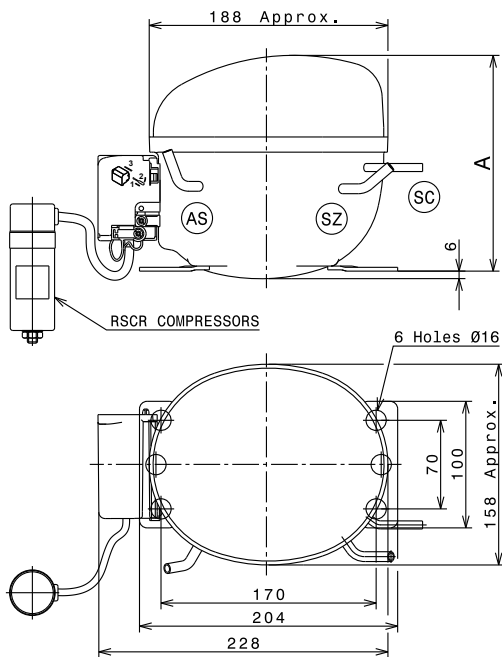
Designation	Internal diam.	SLb	A (mm)
AS	Suction 6.2	SLb	125.5
SC	Discharge 4.9	SLc	129
SZ	Service 6.2	SLd	138
		SLe	141

B range



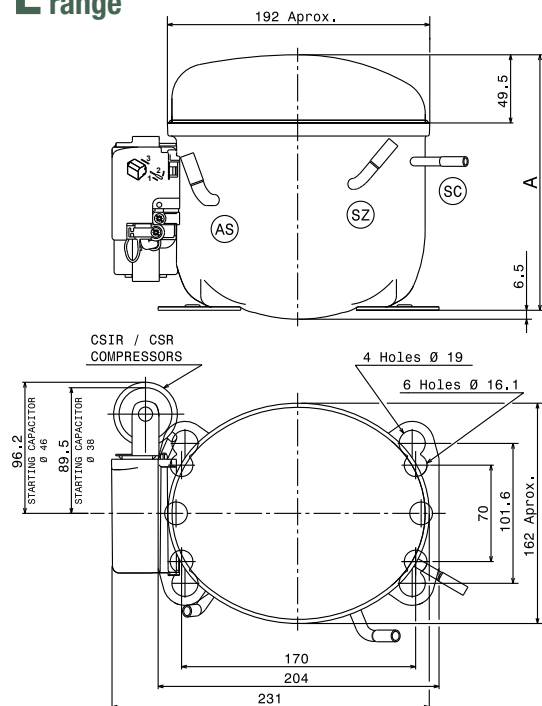
Designation	Internal diam.	Bb	A (mm)
AS	Suction 6.2	Bb	141
SC	Discharge 4.9	Bc	145
SZ	Service 6.2	Bd	153
		Be	155
		Bf	159

U range



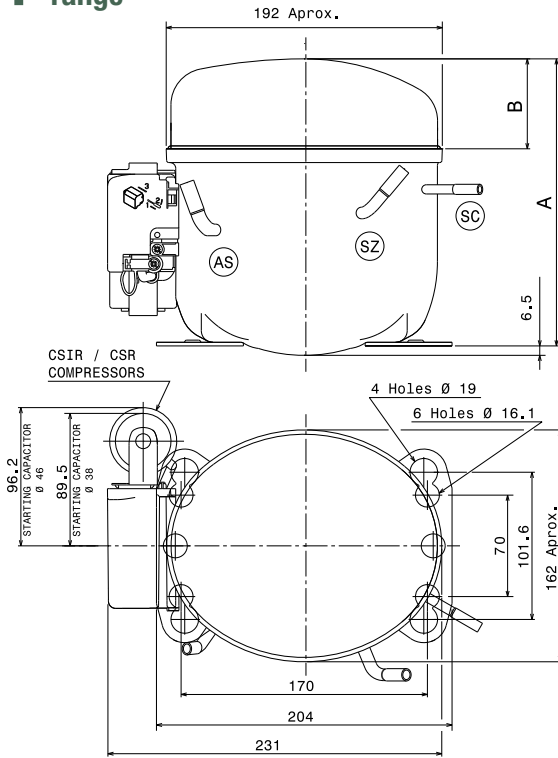
Designation	A (mm)	LEGEND	
Ub	173.5	AS	Suction/Service
Uc	176.5	SC	Discharge
		SZ	Service/Suction

L range



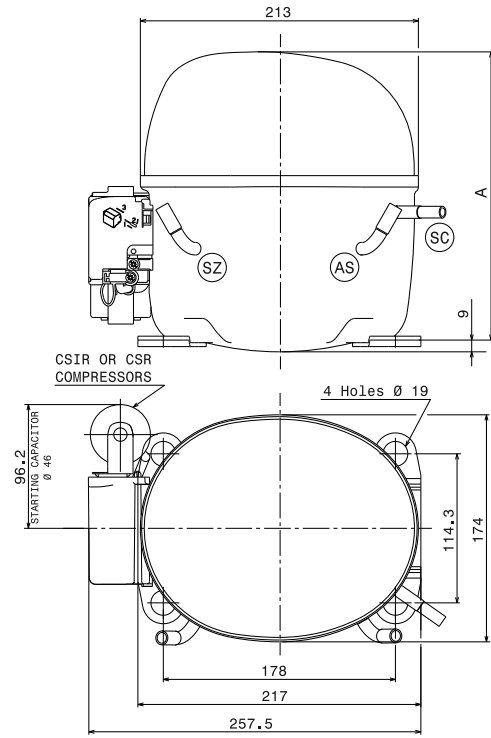
Designation	A (mm)	LEGEND	
Lb	175	AS	Suction/Service
Lc	185.6	SC	Discharge
Ld	198	SZ	Service/Suction

P range



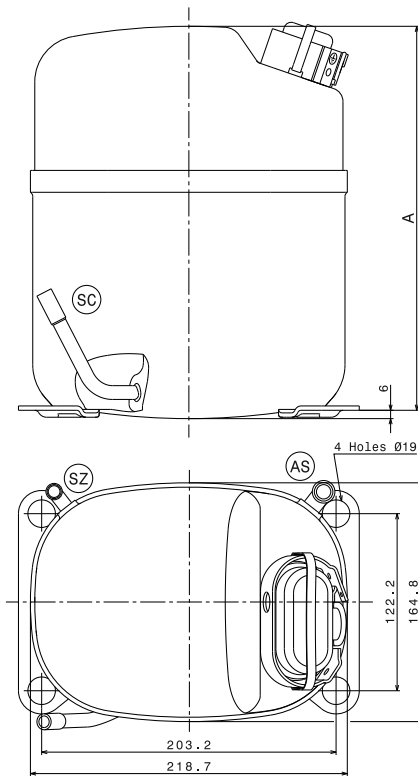
	A (mm)	B (mm)	LEGEND	
Pc	198.1	62	AS	Suction/Service
Pd	210.5	62	SC	Discharge
Pe	215.5	67	SZ	Service/Suction

X range



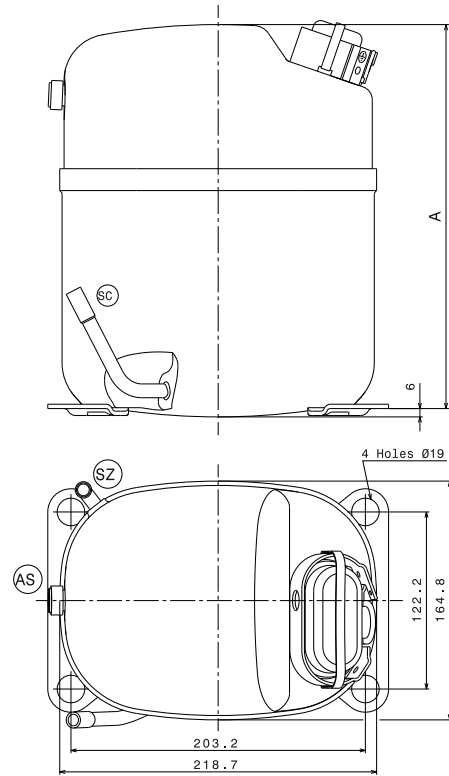
	A (mm)	LEGEND	
Xc	215	AS	Suction/Service
Xd	221	SC	Discharge
		SZ	Service/Suction

S range (Tube)



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

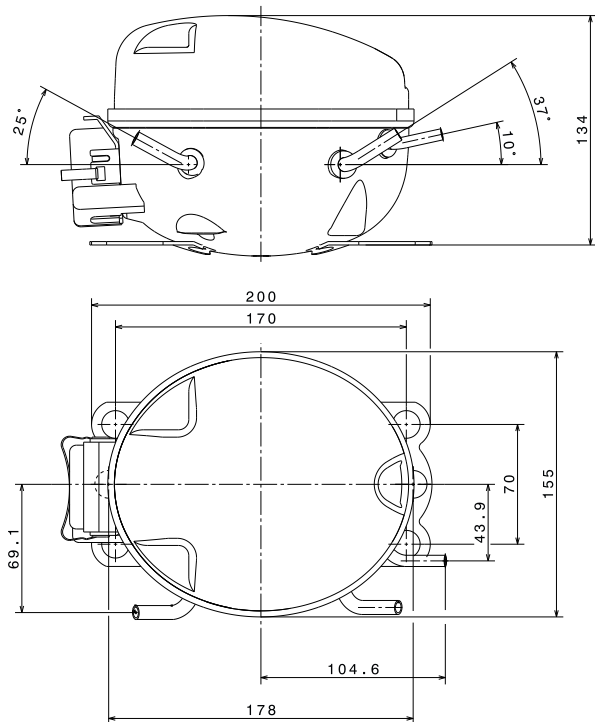
S range (Valve)



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

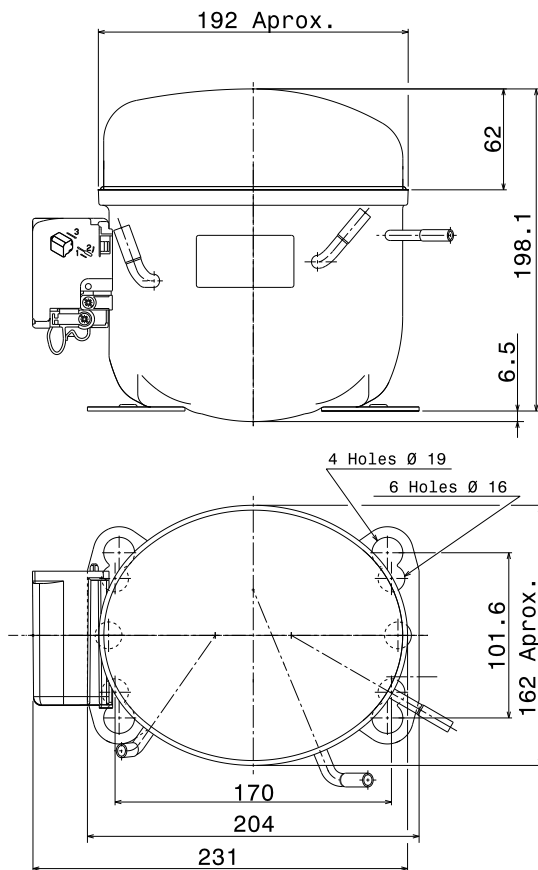
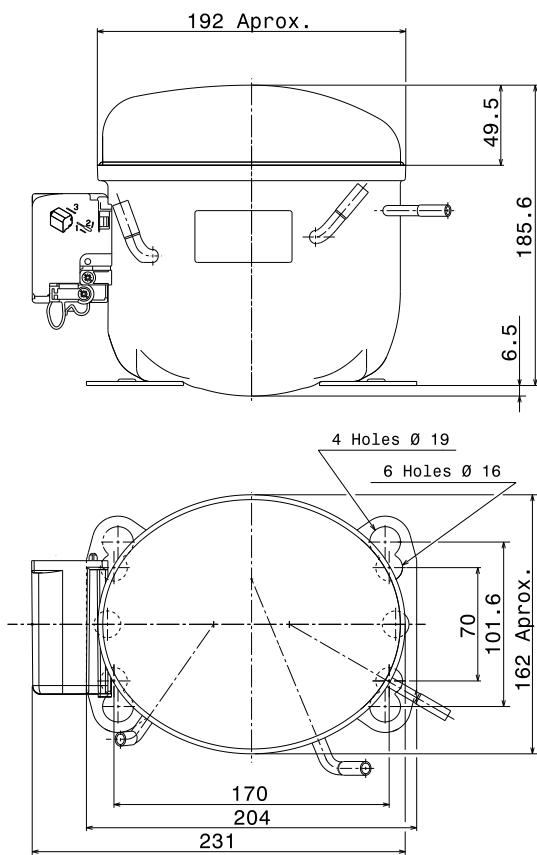
Variable Speed Compressors

NVT70FSC



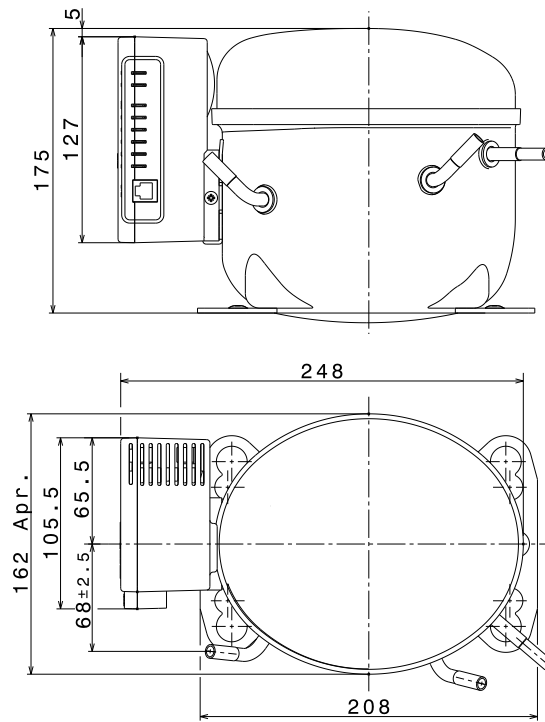
GLT99FSN and NLT60FSN

NPT12FSC

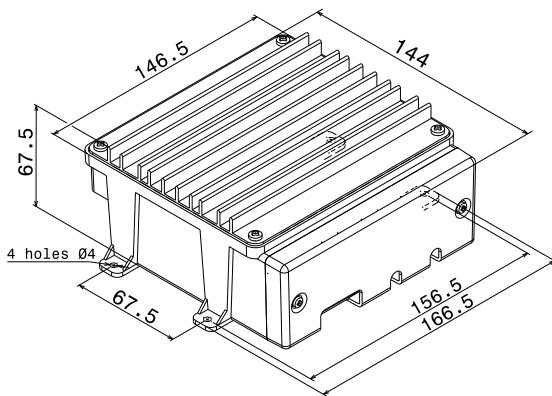


12-42V DC Compressors

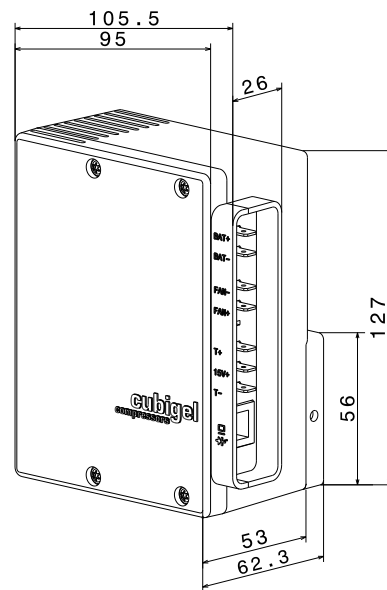
GLT80TDC



Electronic driver (FAC1) for GLT99FSN, NLT60FSN and NPT12FSN



Electronic driver (FDC3) for GLT80TDC



Fixings

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

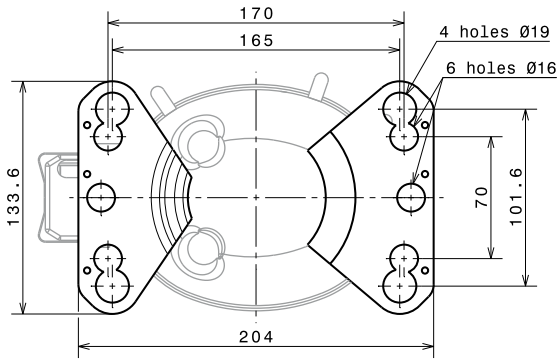
Mounting feet

Range	Mounting feet	
Small L	Set of 4 holes of 16mm DIA with inter-axes: 70x170mm	
B, L, P, U	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 61/2 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 (41/2 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 (413/16 x 7 7/8 inch)	

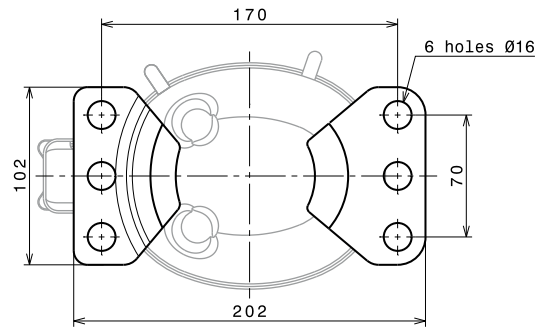
Silent Blocks (Mounting accessories)

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 3. Silent block 4. Axis</p>	

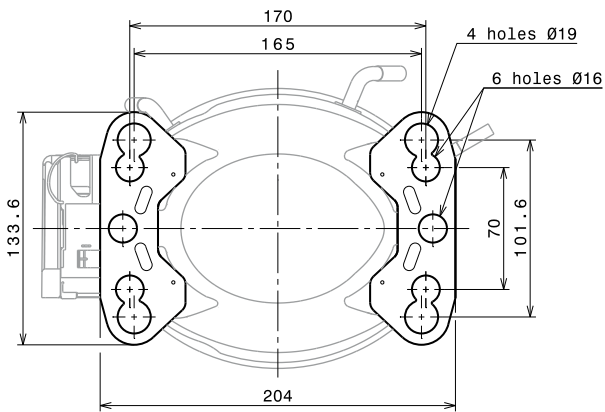
B Range (American mounting feet)



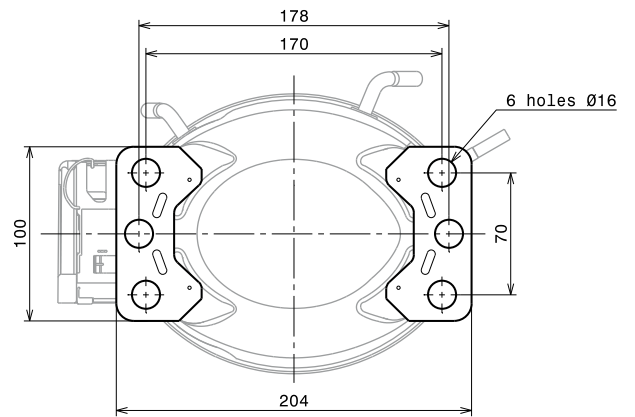
Small L & B Range (European mounting feet)



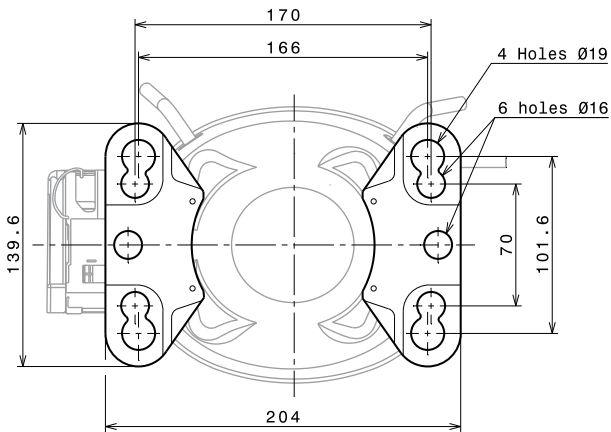
L / P Range (American mounting feet)



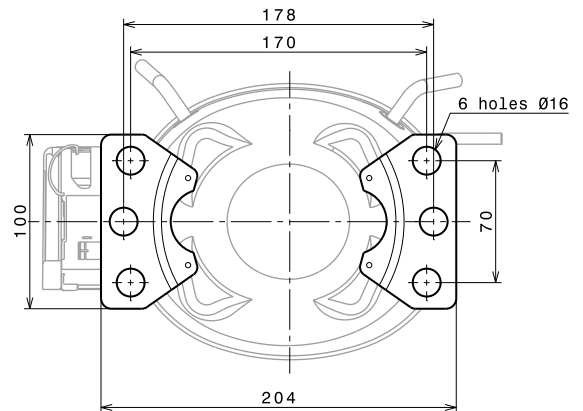
L / P Range (European mounting feet)



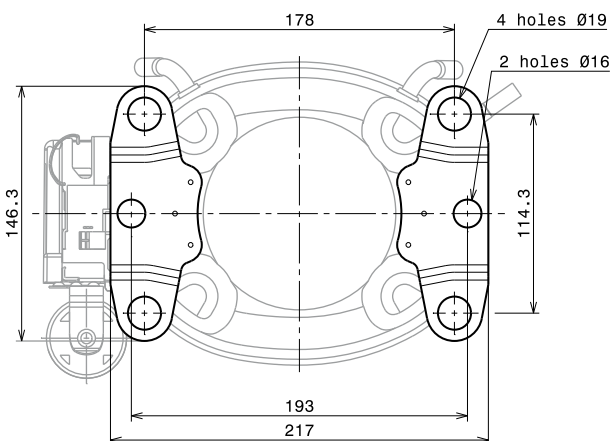
U Range (American mounting feet)



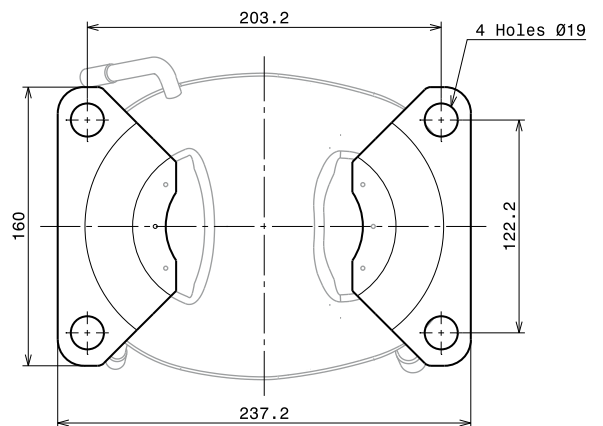
U Range (European mounting feet)



X Range

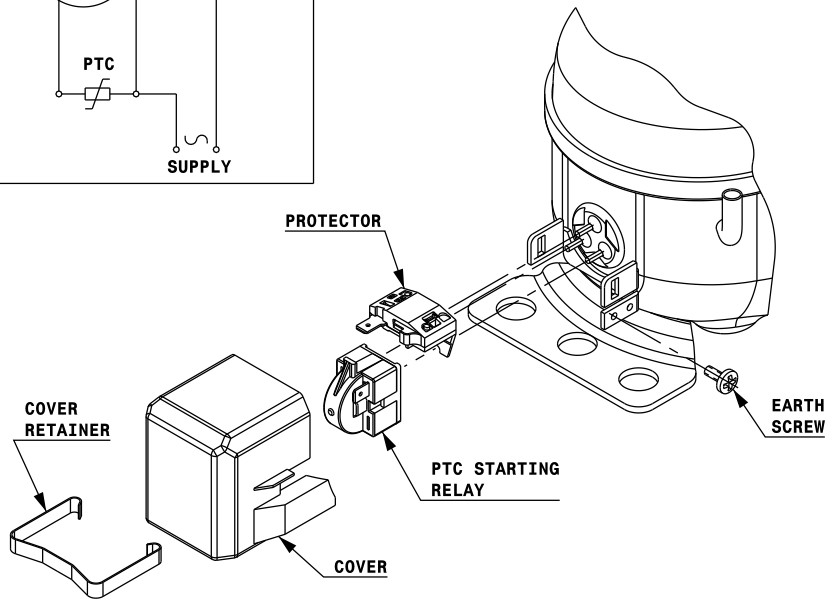
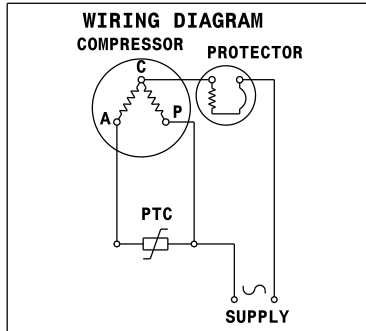


S Range

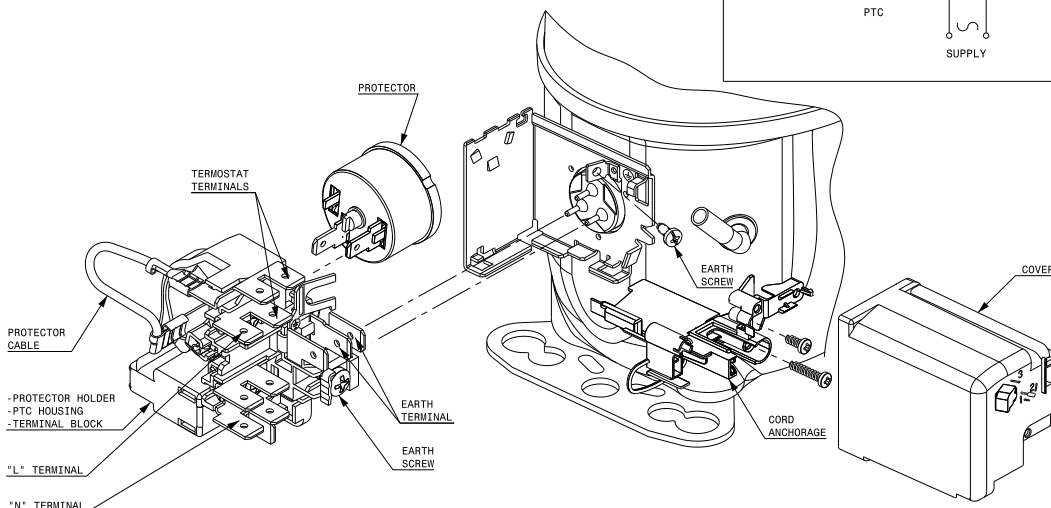
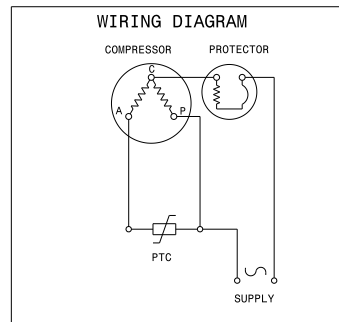


Wiring Diagrams and Electrical Assembly

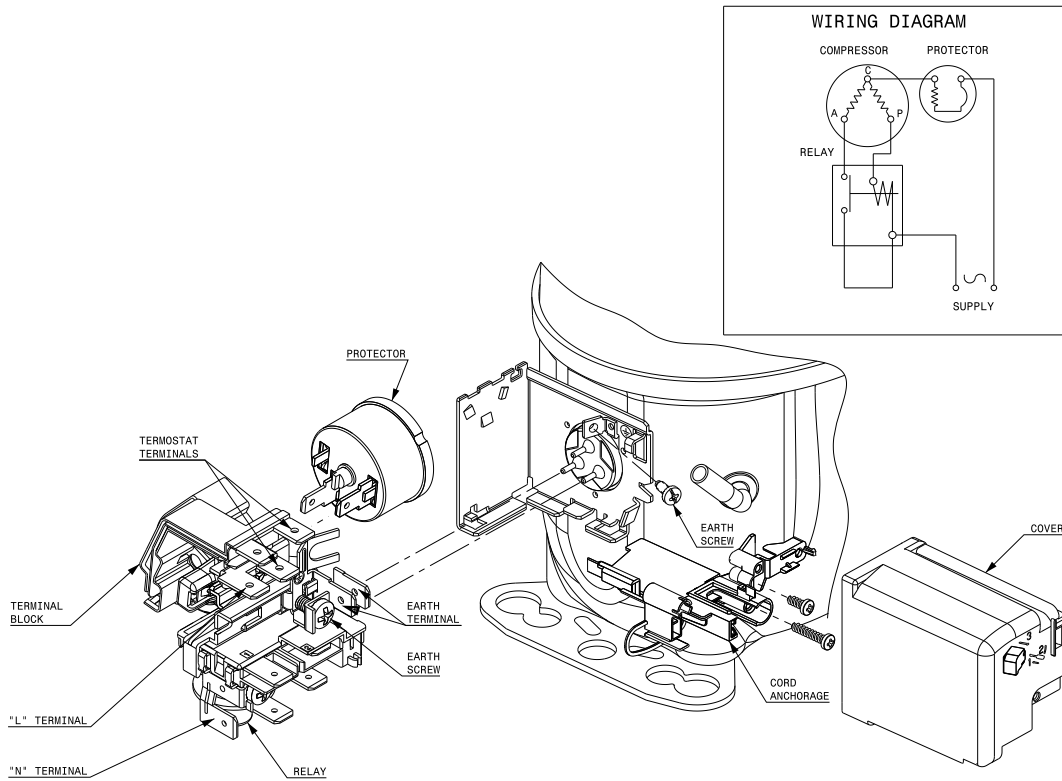
RSIR CONNECTION (PTC) Small L & B



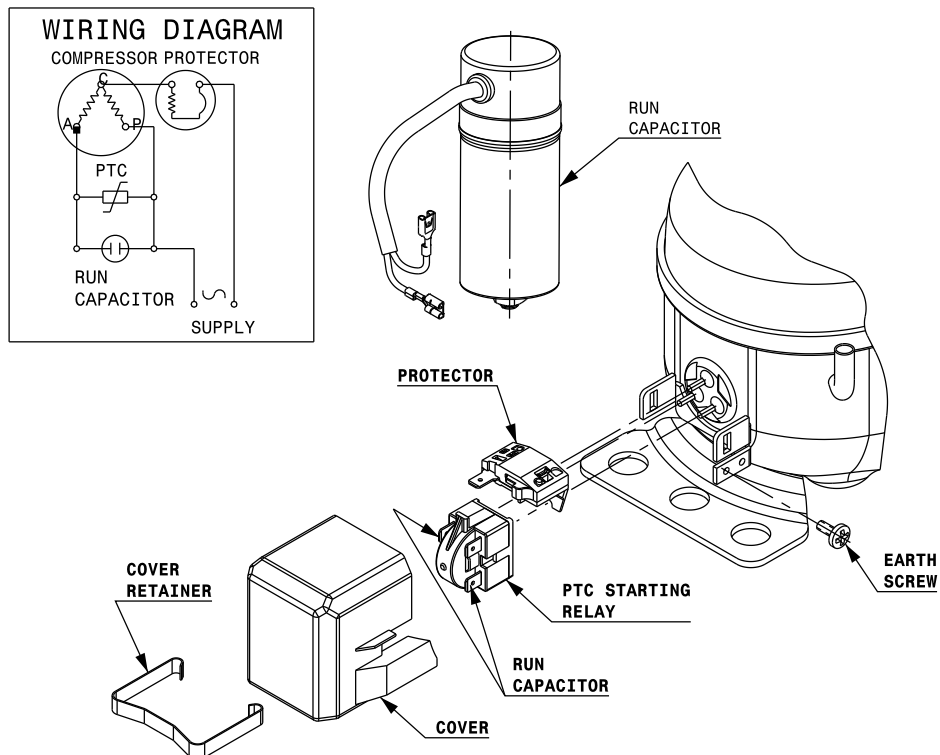
RSIR CONNECTION (PTC)



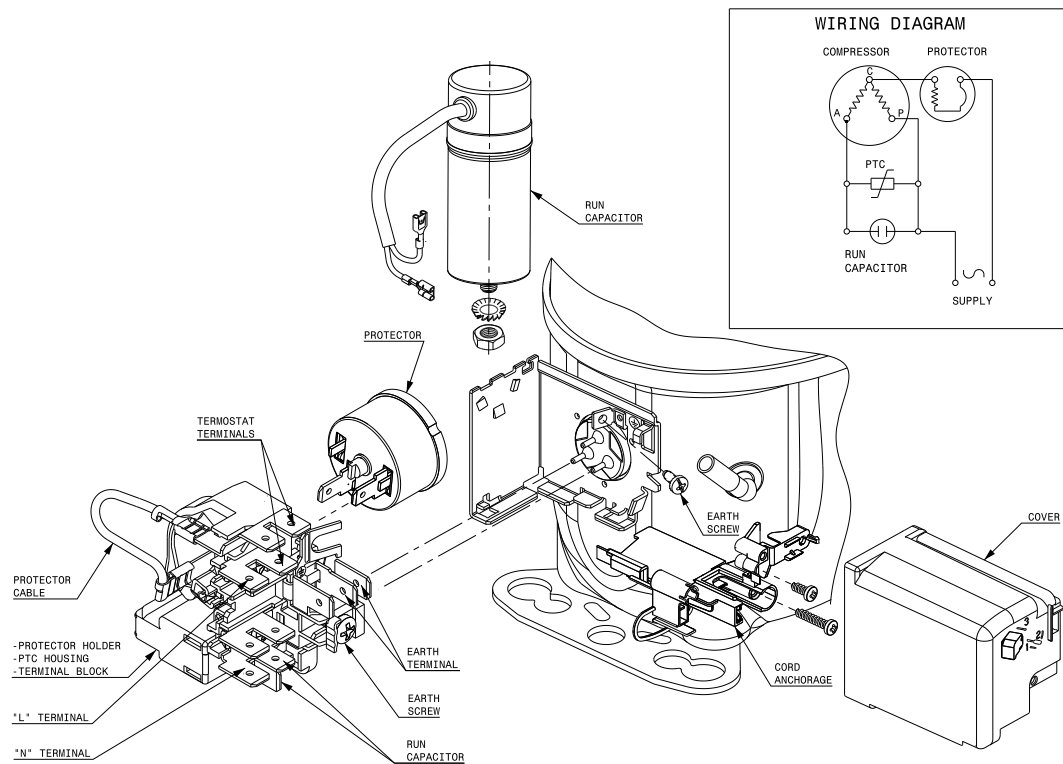
RSIR CONNECTION (RELAY)



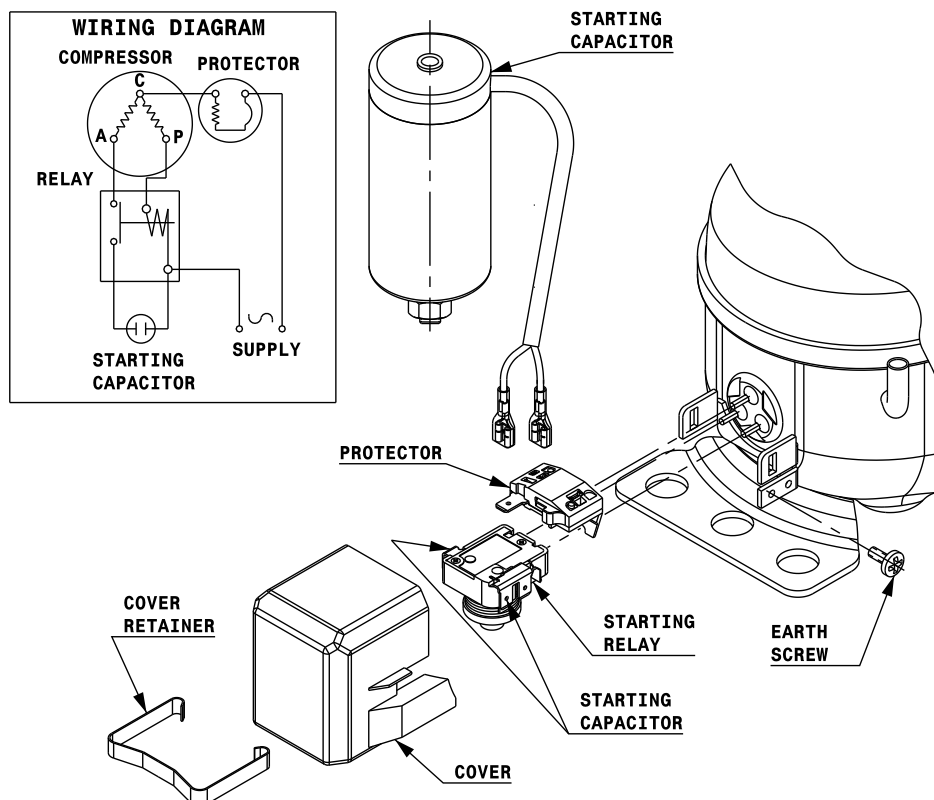
RSCR CONNECTION (PTC) Small L & B



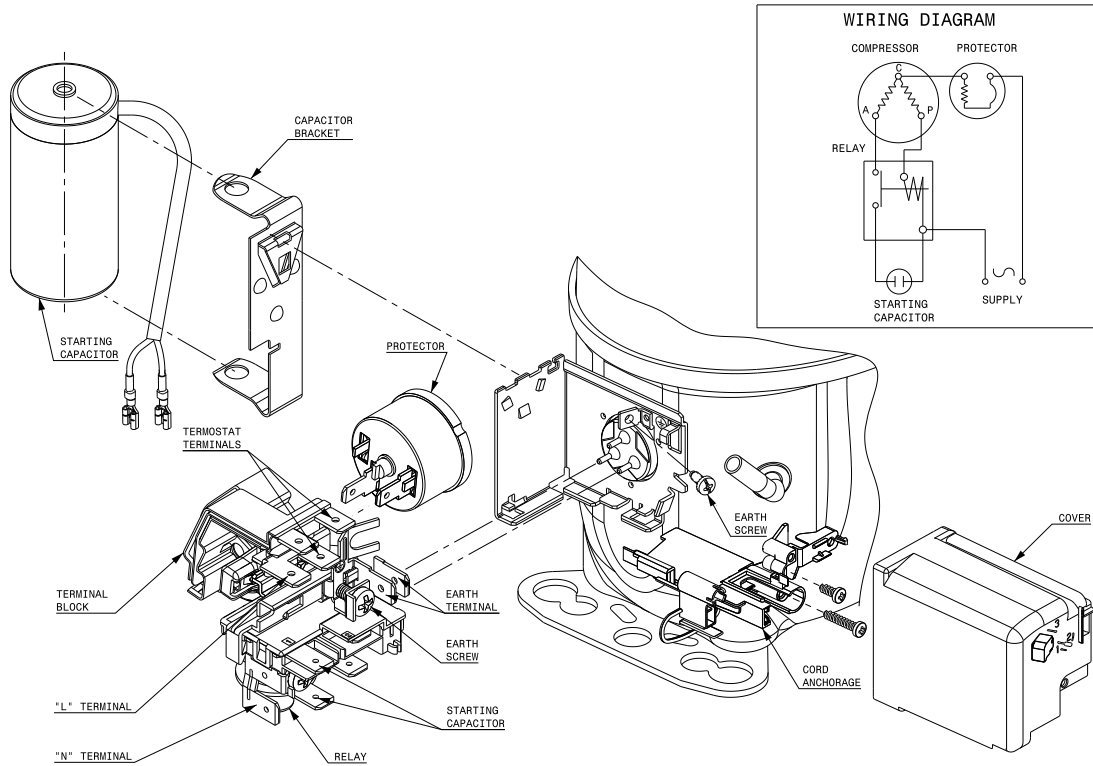
RSCR CONNECTION



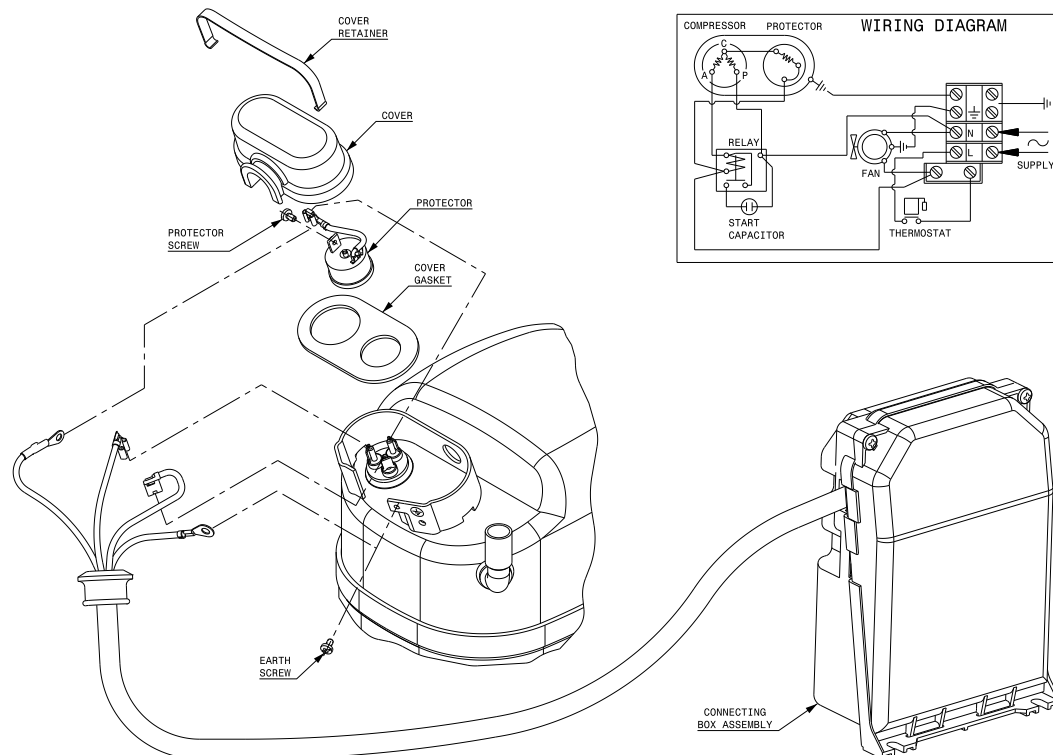
CSIR CONNECTION Small L & B



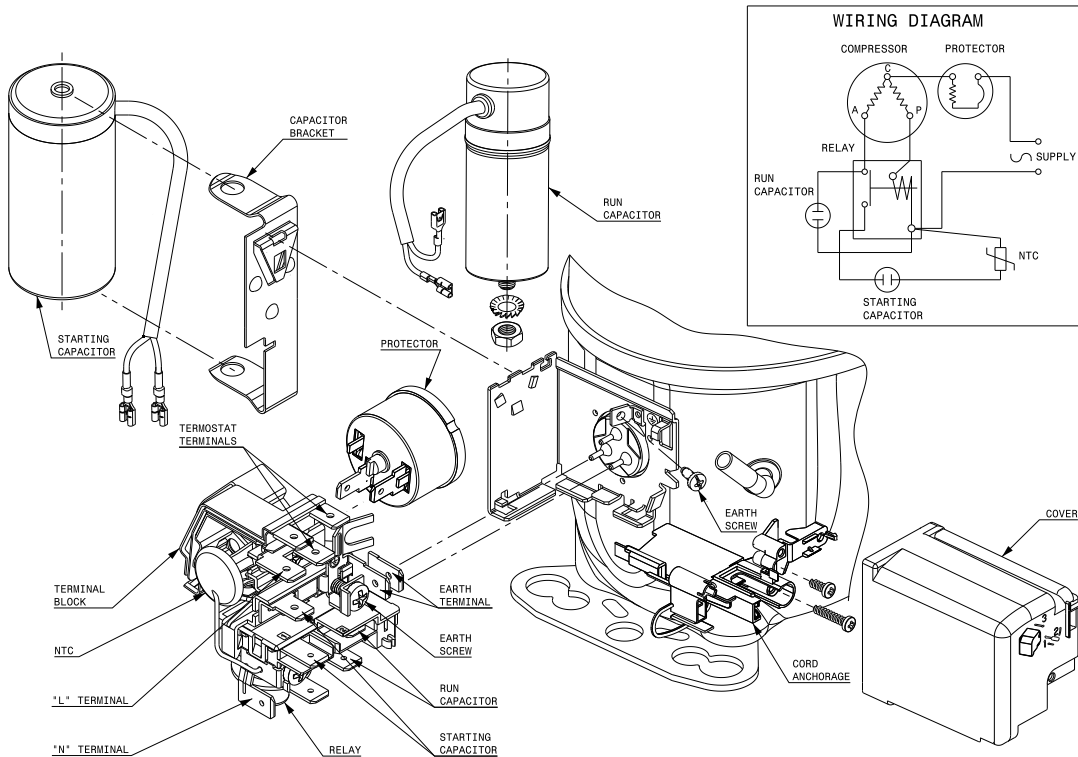
CSIR CONNECTION



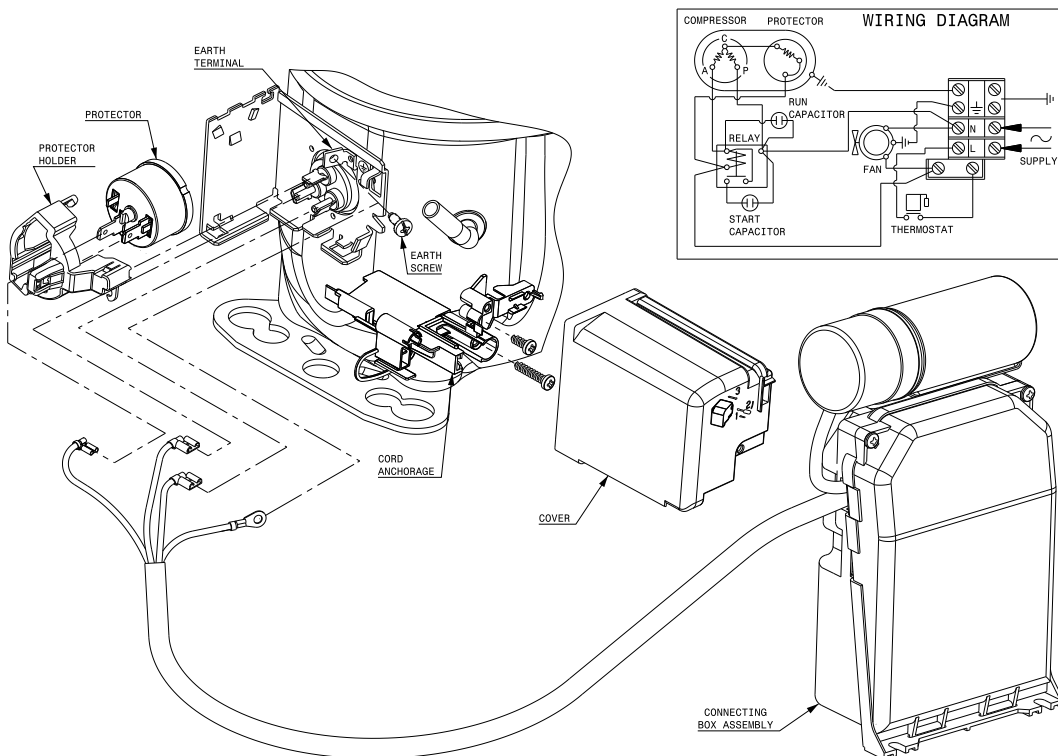
CSIR CONNECTION (EXTERNAL CONNECTING BOX) (S range)



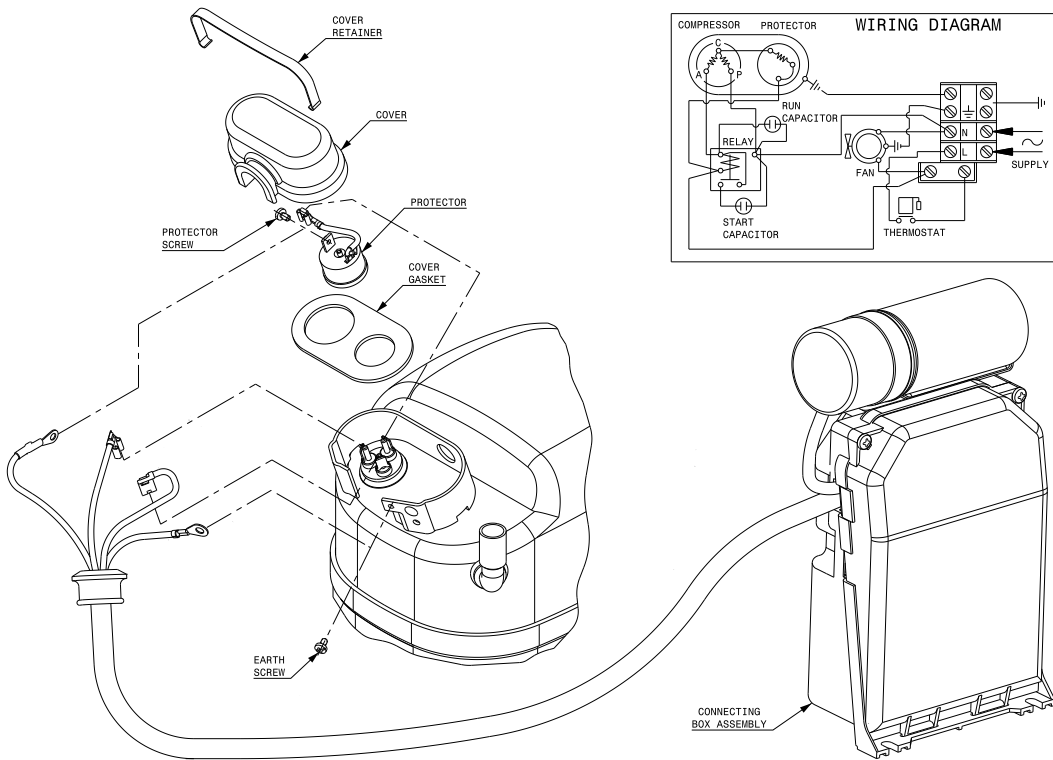
CSR CONNECTION (CURRENT RELAY + NTC)



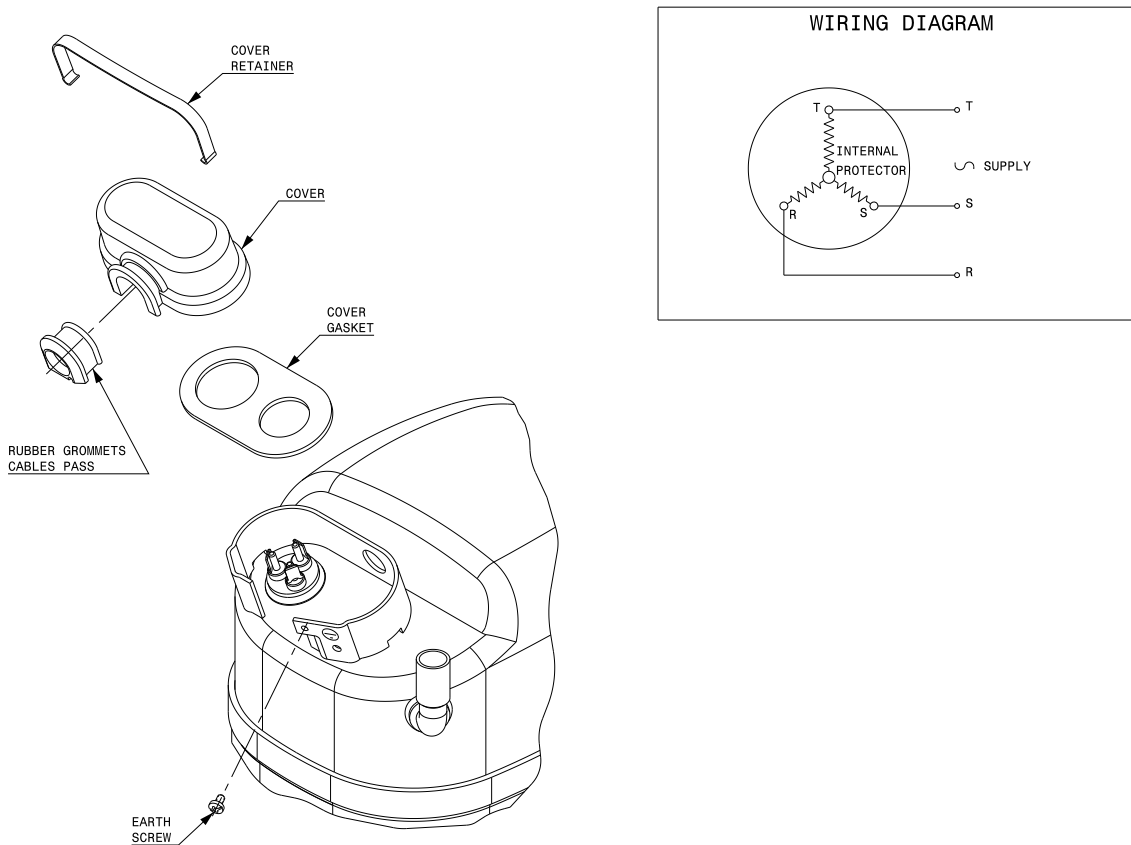
CSR CONNECTION (EXTERNAL CONNECTING BOX) (P, X ranges)



CSR CONNECTION (EXTERNAL CONNECTING BOX) (S range)



3PH CONNECTION (S range)



Packaging & Logistics

Single Box

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

Tray

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

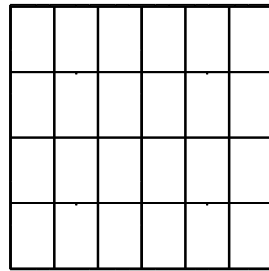
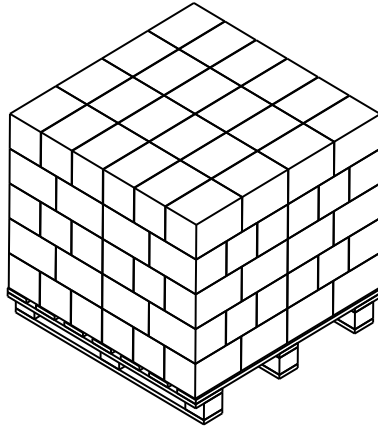
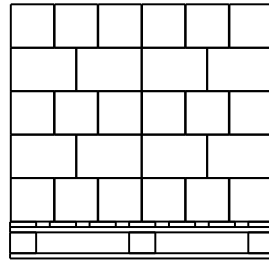
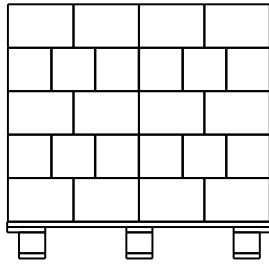
Quantities by Pallet Compressors

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

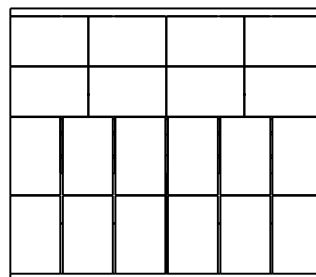
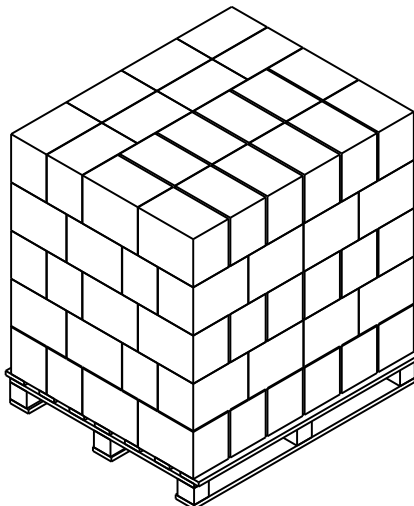
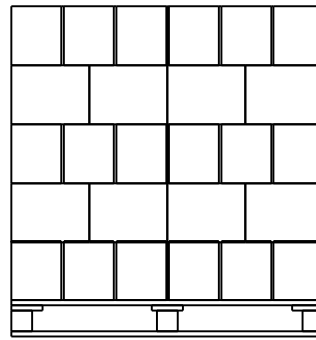
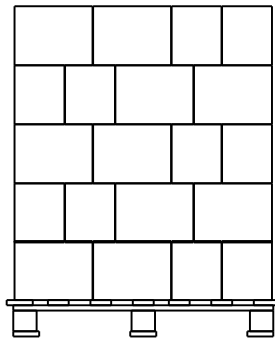
Pallet Product Layout

Single Box Pallet Distribution

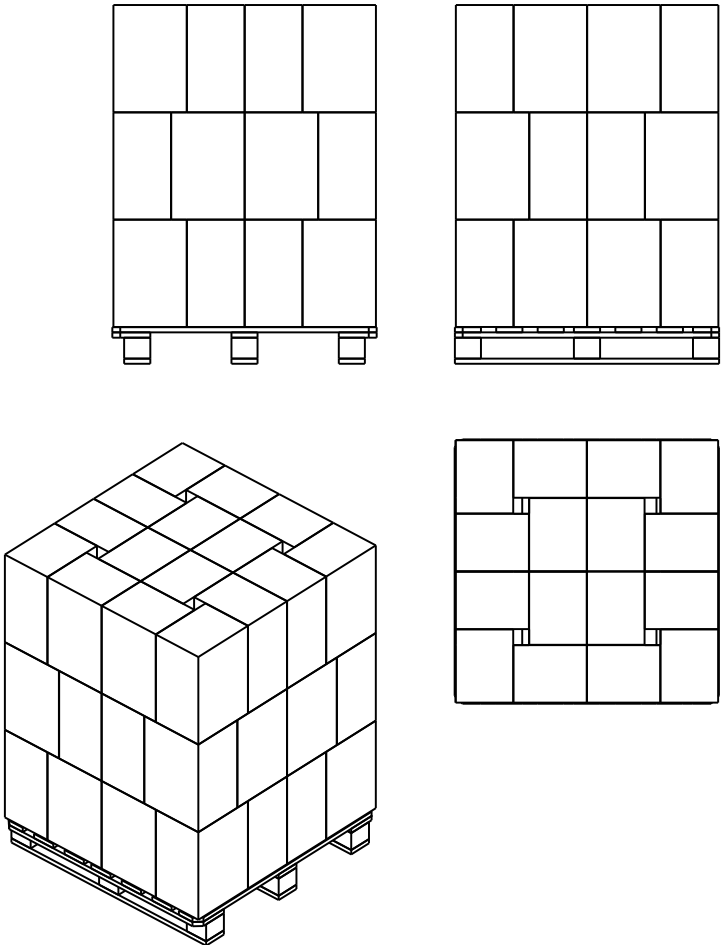
Small L, B Range



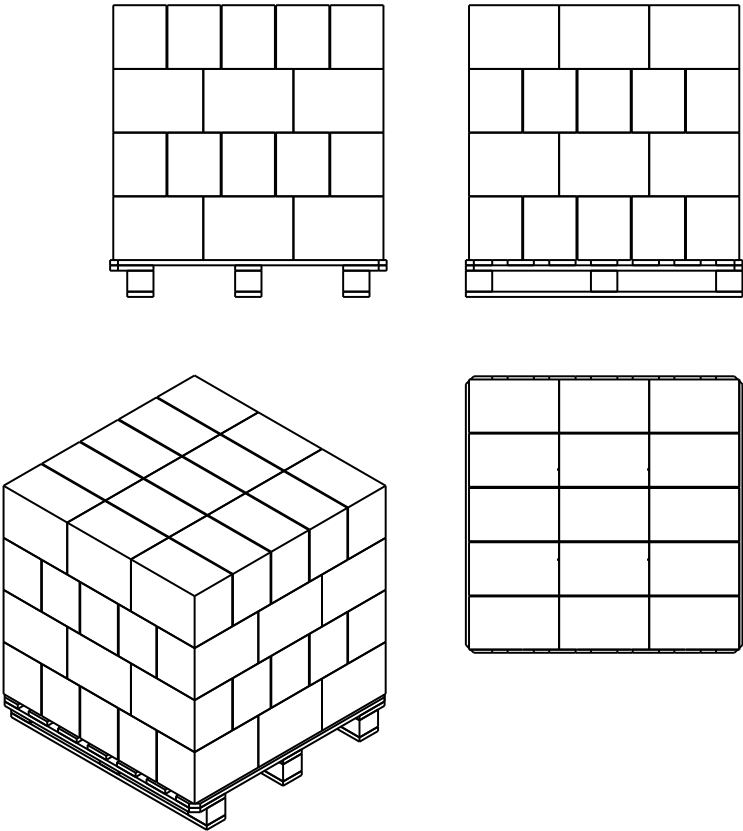
U, L & P Ranges



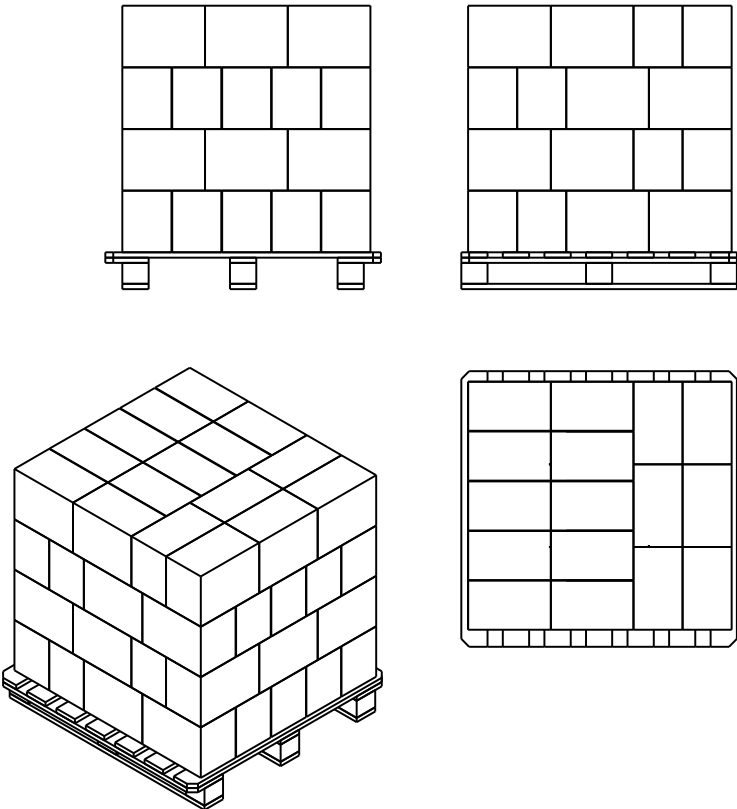
S Range



X Range (con caja conex.)

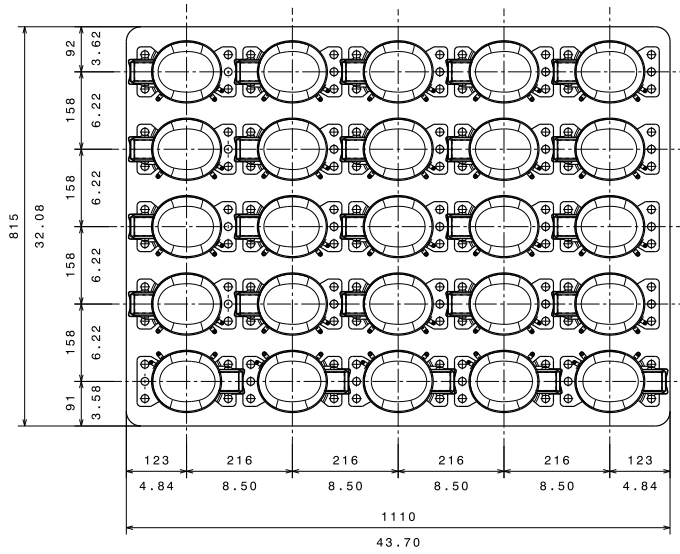


X Range (sin caja conex.)

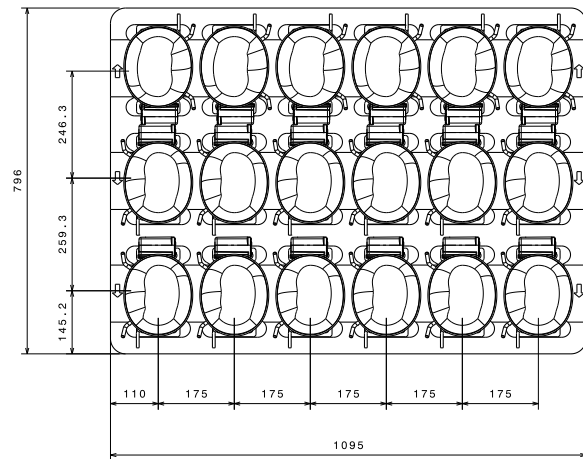


Tray per Pallet

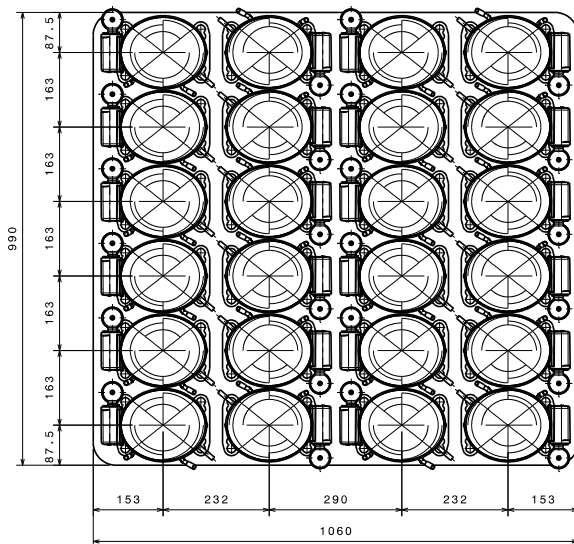
Small L & B compressor tray distribution



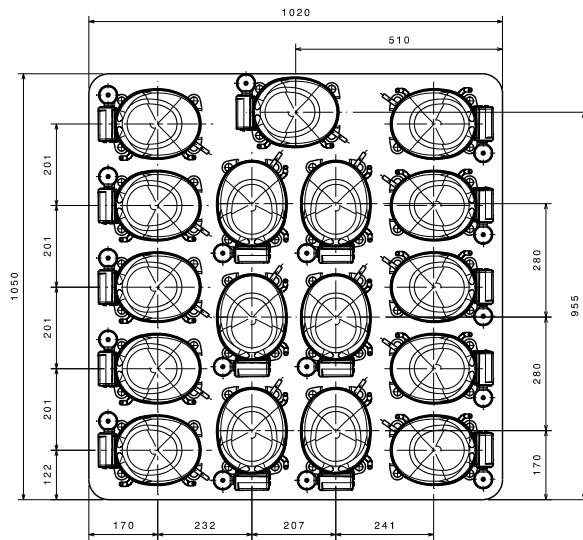
U compressor tray distribution



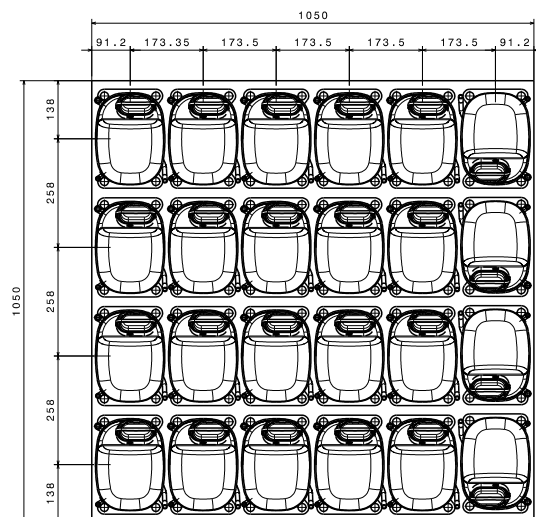
L and P compressor tray distribution



X compressor tray distribution



S compressor tray distribution

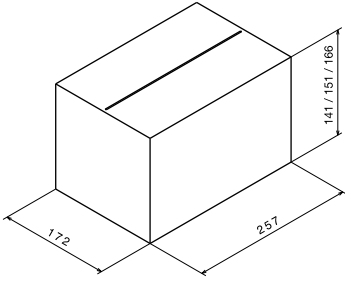


Pallet label

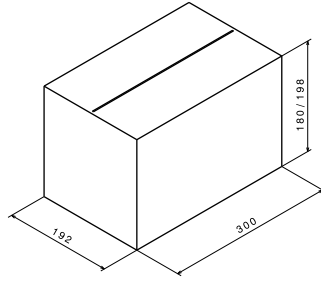
Receiver CUSTOMER	Customer 00000	Customer part number 00000000-000
Work Order 00000	Supplier name HUAYI COMPRESSOR	
Part Name(P) 000000 		0000 A00 / MUELLE 000000 DD.MM.YYYY 00:00:00
Quantity(Q) 00,000 UN 	Description COMPRESSOR MODEL	
Supplier ID(V)	Date DD/MM/YYYY	Drawing number
Pallet number 0000000000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

Single Boxes Drawings

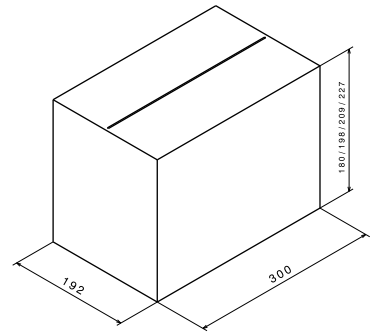
Small L & B Range



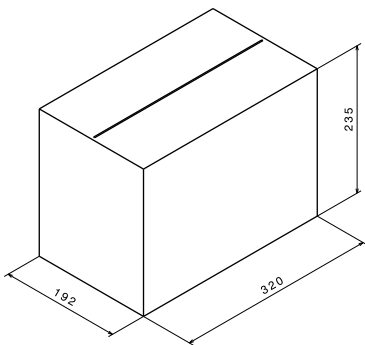
U Range



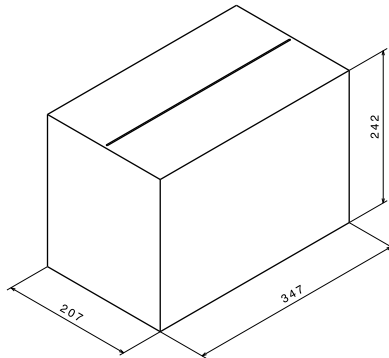
L & P Ranges



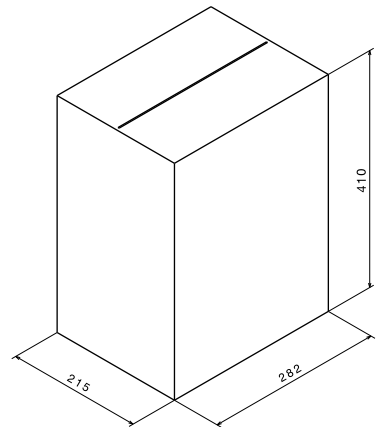
X Range



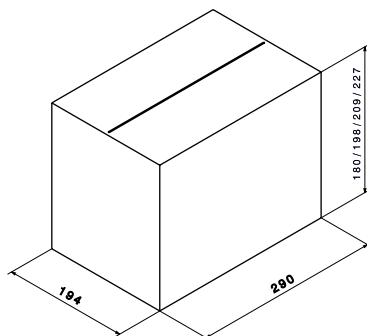
X Range with connecting box

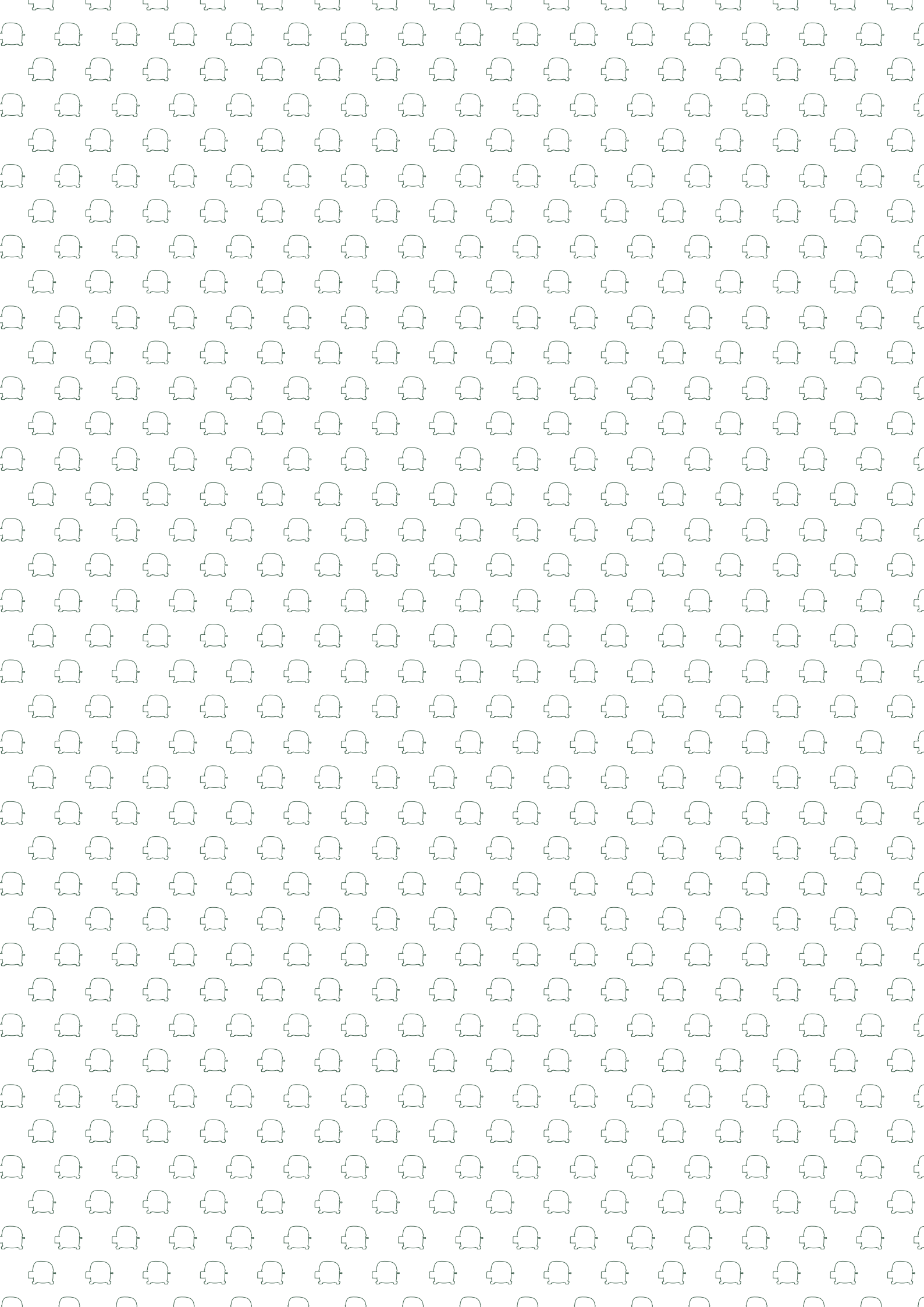


S Range



GLT80TDC Compressor







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