60 YEARS+ SINCE 1962 TOGETHER AND BEYOND

cubigel® compressors

GENERAL CATALOGUE

GENERAL CATALOGUE 2024

for Commercial Refrigeration
R290 · R600a · R134a · R404A

Compressors for Commercial Refrigeration R290 · R600a · R134a · R404A

HUAYI COMPRESSOR BARCELONA


60
YEARS+
SINCE 1962
TOGETHER
AND BEYOND

For every type of application

The most complete range of products

Sustainable Cooling

Natural Refrigerants

Low energy consumption

Worldwide presence

Mobile applications

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

More than 60 years

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

60 YEARS+
SINCE 1962
TOGETHER AND BEYOND

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HUAYI

1.

General Information

Research and Development

Leadership

Reliability

Innovation

Cutting-edge technology

People

The Company

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

Huayi Compressor Co., Ltd.

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

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

Huayi Compressor Co., Ltd.

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

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

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

The Product

Extended range of compressors

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

Condensing Units

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

The green cooling ranges

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

Compressors for mobile applications

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

Family of Compressors and Condensing Units

Small L range

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

B range

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

HYB, HYE, HYS, HY and HYF range

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

F range

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

U range

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

U+ range

Features:
More efficient, compact size, extremely silent, green cooling
Range:
10.5 to 14.2 cc
Refrigerants:
R134a, R290, R600a, R454C, R455A
Applications:
Ice cream freezers, Bottle coolers, Chest coolers, Freezers, Refrigerated Displays counters, Display cabinets.

L range

Features:
Most extended models and 3 levels of efficiency: Standard, High and Very High
Range:
4.56 to 10.7 cc
Refrigerants:
R134a, R404A, R600a, R290, R507, R513, R450A, R452A, R448A, R449A, R454C, R455A
Applications:
All cooling applications like refrigerators, freezers, bottle coolers, can coolers, ice cream freezers, vending machines, beer dispensers, soft drink dispensers and ice makers

P range

Features:
Most used models offering 3 levels of efficiency - Standard, High, Very High
Range:
12.1 to 18.0 cc
Refrigerants:
R134a, R404A, R600a, R290, R507, R513, R450A, R452A, R448A, R449A, R454C, R455A
Applications:
All cooling applications such as refrigerators, freezers, bottle coolers, can coolers, ice cream freezers, vending machines, beer dispensers, soft drink dispensers, ice makers and heat pumps, among others.

P+ range

Features:
More efficient, green cooling
Range:
16.5 to 17.6 cc
Refrigerants:
R290
Applications:
All cooling applications such as refrigerators, freezers, bottle coolers, can coolers, ice cream freezers, vending machines, beer dispensers, soft drink dispensers, ice makers and heat pumps, among others

X range

Features:
Performs with high reliability and efficiency. Designed to work under heavy-duty conditions
Range:
16.0 to 23.2 cc
Refrigerants:
R134a, R404A, R600a, R290, R507, R513, R450A, R452A, R448A, R449A, R454C, R455A
Applications:
Refrigerators and freezers, display cabinets, display islands, supermarket refrigeration equipment and blast chillers among others.

X+ range

Features:
Improved efficiency. Designed to work under heavy-duty conditions
Range:
21.0 to 28.0 cc
Refrigerants:
R290
Applications:
Refrigerators and freezers, display cabinets, display islands, supermarket refrigeration equipment and blast chillers among others

S range

Features:
Top-capacity range, optimized design to reduce vibration
Range:
26.0 to 42.0 cc
Refrigerants:
R134a, R404A, R290, R507, R513, R450A, R452A, R448A, R449A, R454C, R455A
Applications:
Large freezers and refrigerators, supermarket refrigeration equipment, blast chillers and heat pumps among others

The Green Cooling Ranges

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

The advanced design of the Green Cooling Ranges allows efficiency improvement providing energy consumption reductions up to 45% compared to standard versions; consequently, lower CO_2 emissions to the atmosphere.

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

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

High Efficiency Ranges

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

Natural Refrigerants

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

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

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

Variable Speed Compressors

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

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

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

Variable Speed Compressors

Features
Application:
LMBP
Programming modes:
Drop-in control, Frequency control
Voltage range:
220-240V and 115-127V AC
Models:
NVK35FSC, NVS50FSC, NMD50FSC, NVS70FSC, NMD70FSC, NUD100FSC, NUD125FSC and NUS160FSC
Refrigerant:
R290

DC Compressors for mobile applications

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

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

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

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

DC Compressors Range

Features
Application:
LBP and LMBP
Programming modes:
Drop-in control, Frequency control
Voltage range:
12-24-42V DC / 100-240V AC
Refrigerant:
R134a, R600a and R290

Condensing Units

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

Features, Benefits and Customized versions

Features and Benefits

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

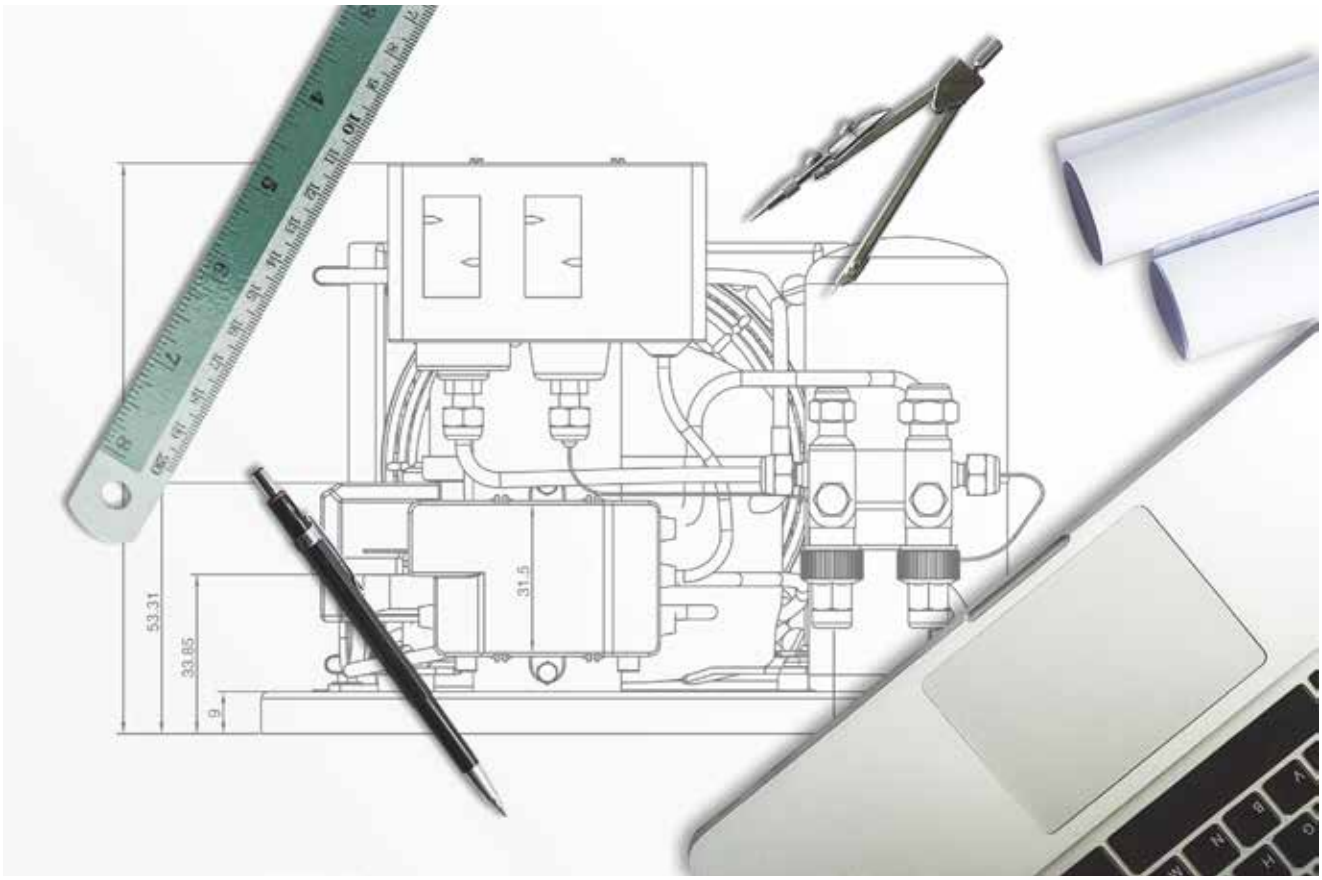
Condensing Units

Main specific components

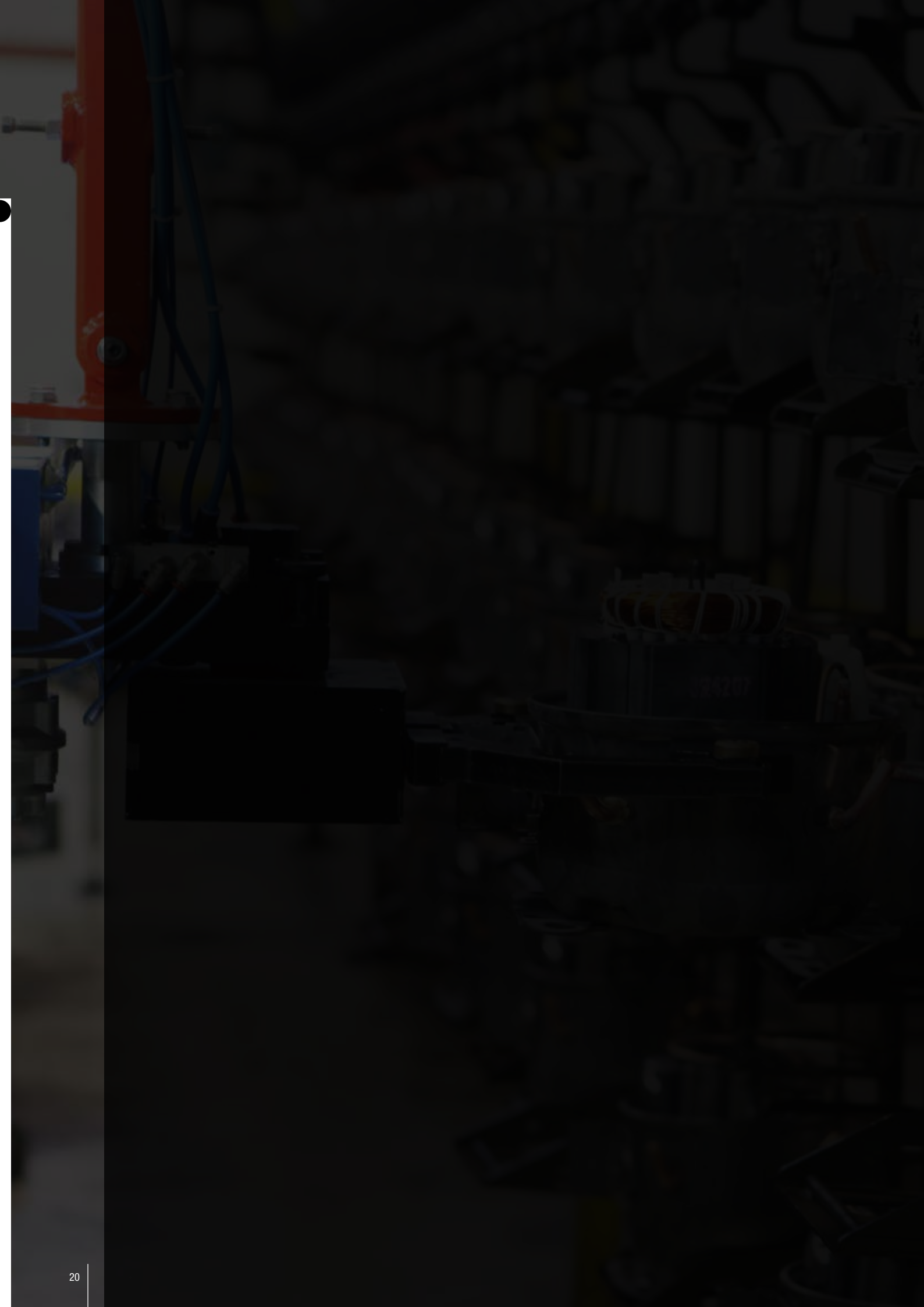
- Special power supply cable
- Special assembly supports (base plates)
- Dryer filters included (ceramic, molecular)
- Special pressure switches
- Non-assembled components
- Thermostat cables
- Special copper tubes (T connections)
- Sight glass
- Schrader valves
- Specific packaging
- Capillary tube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

Main specific services

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



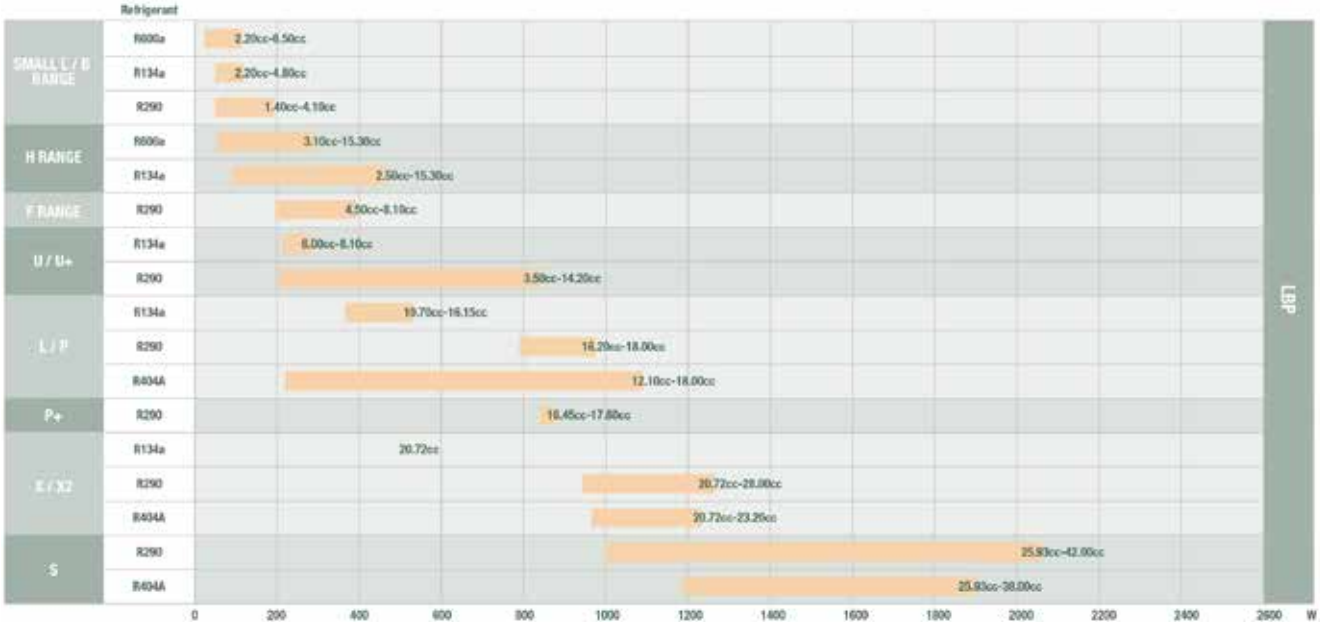
notes



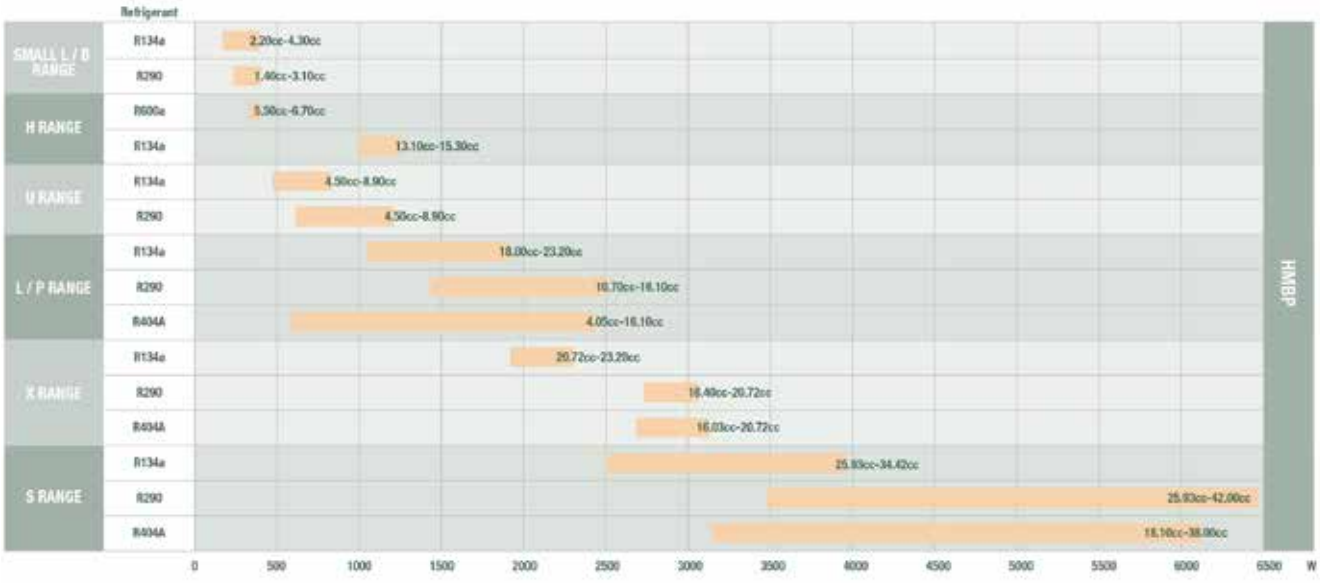
2.

Compressor Information

Compressors Ranges LBP

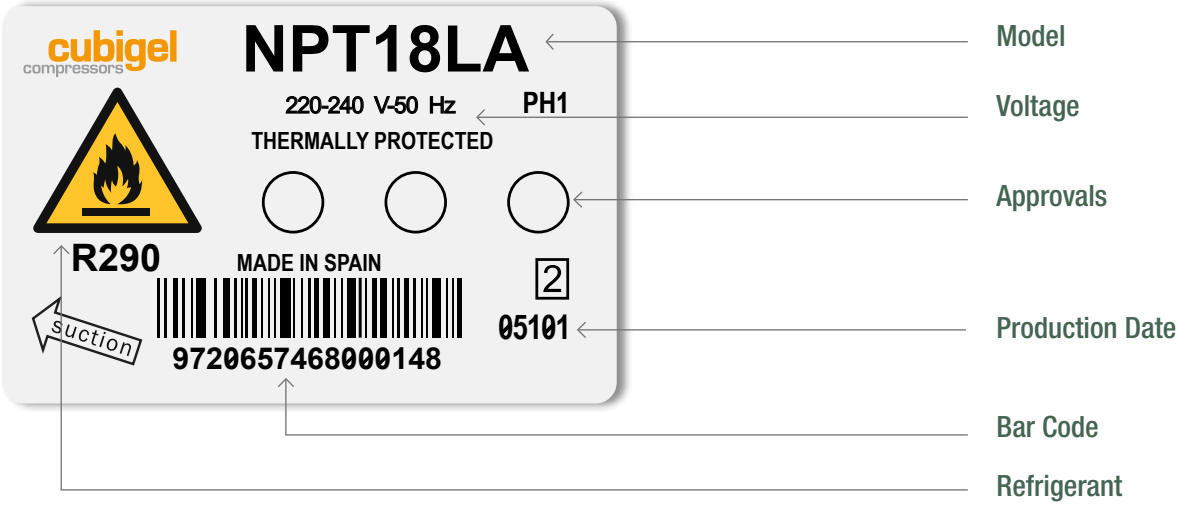


Compressors Ranges HMBP

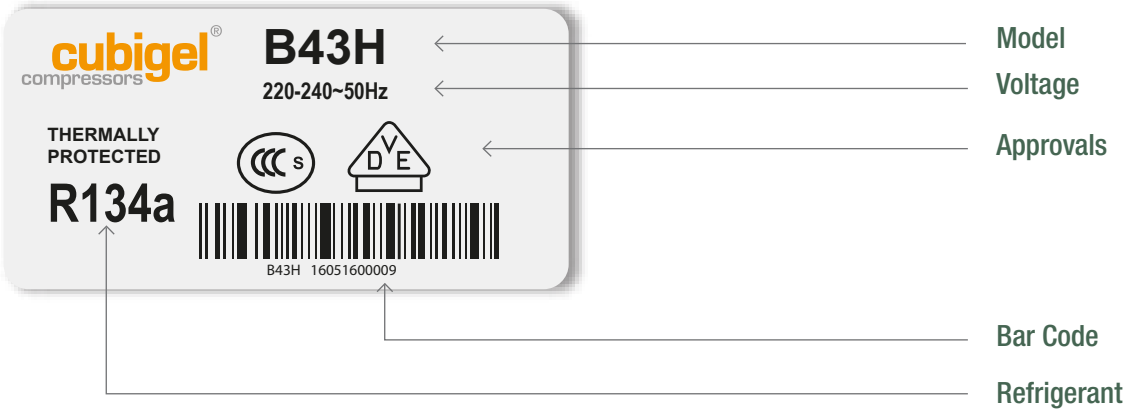


Labels and Approvals

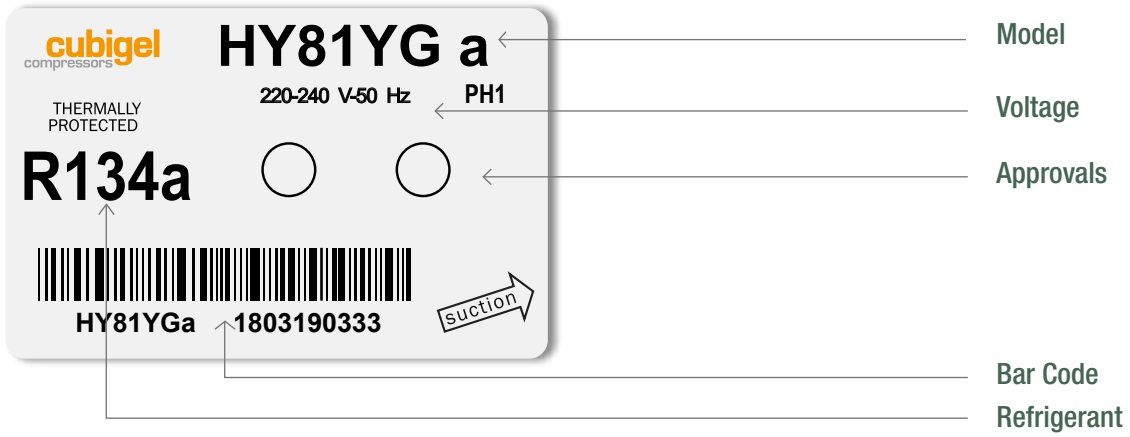
For F, U, U+, L, P, P+, X+, X, S



For Small L, B, HL & HK



For HY, HYE, HYB & HFY



Approvals

Directive compliance declarations

Flammable gases

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

model

G	L	Y	60	R	A	a

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

Indicates compressor range (overall design).
L = 4.5 - 10.7cm^3 **X** = 16.0 - 23.0cm^3 **U** = 4.5 - 14.2cm^3
P = 12.0 - 18.0cm^3 **S** = 18.0 - 38.0cm^3 **F** = 18.0 - 38.0cm^3
H = 11.3 - 18.0cm^3

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

Indicates approximate compressor displacement under the following rule:
U / L ranges 10 times the approx. displacement in 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
C = LBP - LST - FAN
D = LBP - HST - S
F = LBP - HST -FAN
L = LBP - HST - FAN (Current Relay)
M = HMBP - LST/HST - S/FAN
N = LMBP - LST/HST - S/FAN
P = HMBP - LST - FAN
R = HMBP - HST - FAN (CSR versions with Current Relay)
T = HMBP - HST - FAN (CSR versions with Potential Relay)

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

IIndicates a variant of the model that only affects the configuration of electrical components: Its meaning may vary from model to model. It does not appear on the compressor label but it is used for ordering, invoicing and HCB internal processes.
Examples:
1.In high-efficiency compressors ("Y" series, i.e.: GPY12LA or MLY80RD), the letters "a" or "b" may indicate the type of electrical connection corresponding to the electrical Accessories supplied with the compressor.

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

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

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

Compressor Nomenclature Small L & B Ranges

model

B	35	C	5	B

Indicates compressor range:
L --> Small L range
B --> B range

Indicates approximate compressor displacement under the following rule:
22 - 2.2cm^3
25 - 2.5cm^3
30 - 3.0cm^3

Indicates refrigerant and application:
H = R134a LBP
G = R134a HBP
C = R600a LBP
M = R600a HBP

Indicates the rated voltage:
Blank = 220-240V 50Hz and 220-240V 60 Hz
0 = 100V 50/60Hz
5 = 115V 60Hz
7 = 127V 60Hz

Indicates efficiency level:
Blank = Standard Efficiency
B = High Efficiency
A = Very High Efficiency
S = Top efficiency

model

N	B	C	30	R	A

R290 Models
Indicates compressor range:
L --> Small L range
B --> B range

Indicates electrical condiguration:
C --> Without Running Capacitor
G --> With Running Capacitor

Indicates approximate compressor displacement under the following rule:
22 - 2.2cm^3
25 - 2.5cm^3
30 - 3.0cm^3

Indicates application:
For R290 (Propane) Models:
C = LBP – LST – Static
N = LMBP – HST – Static / Fan
R = HMBP – HST - Fan

Indicates the rated voltage:
A = 220-240V 50Hz
R = 115-127V 60Hz

Nomenclature HY Ranges

model

HY	E	55	Y	G	U	63	a

Indicates Huayi name
HY

Indicates compressor range
E = 4.5 – 12.3cm^3 **J** = 3.0 – 6.9cm^3
B = 2.5 – 9.6cm^3 **S** = 4.5 – 12.5cm^3
blank = 6.9 – 15.3cm^3

Indicates approximate compressor displacement under the following rule:
10 times the approx. displacement in cm3/rev (55 -> approx. 5.5 cm3/rev)

Indicates refrigerant.
Y = R134a
M = R600a

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

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

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

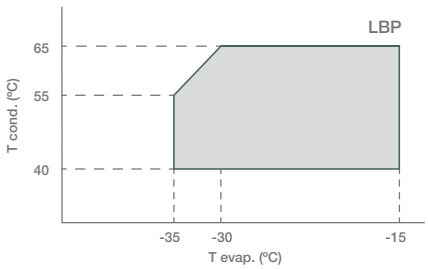
Indicates winding material:
Blank = copper
a = aluminium

SOA - Safe Operating Area

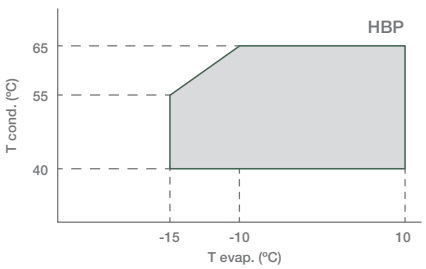
In order to grant the compressor reliability it is recommended that the point representing the operating conditions (suction and discharge pressures) falls within the shadowed area of the corresponding graph.

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

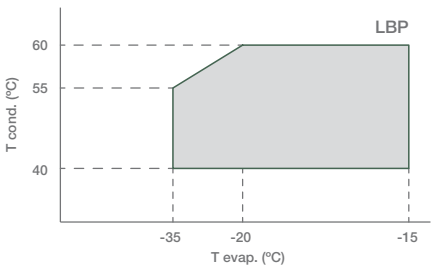
SOA R134a LBP



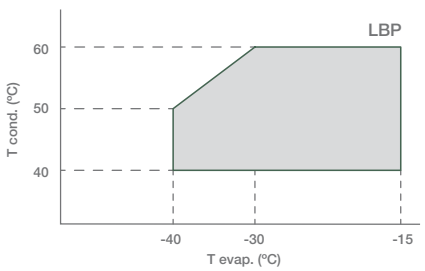
SOA R134a HBP



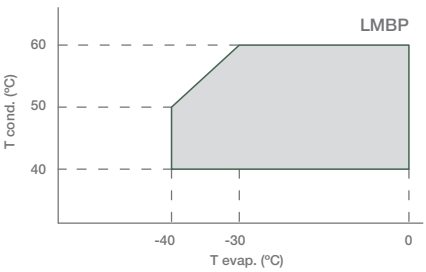
SOA R600a LBP



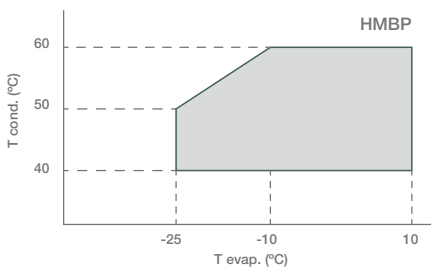
SOA R290 LBP



SOA R290 LMBP

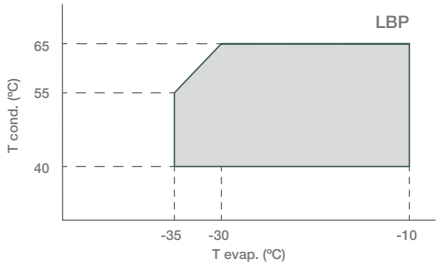


SOA R290 HMBP

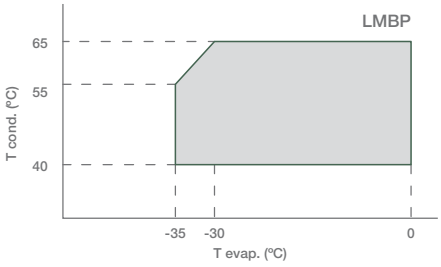


F, U, U+, L, P, P+, X, X+ AND S

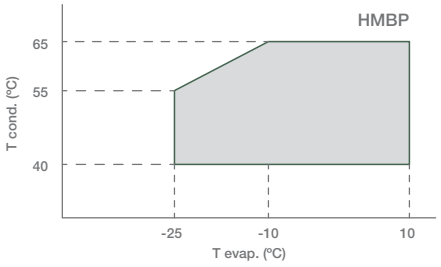
SOA R134a LBP



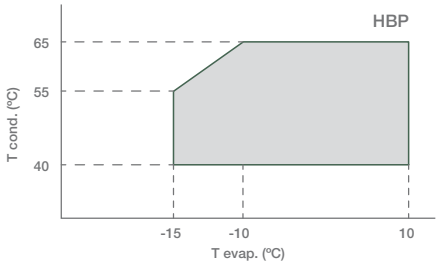
SOA R134a LMBP



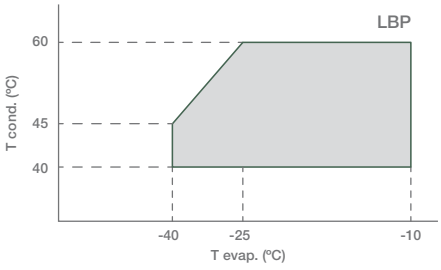
SOA R134a HMBP



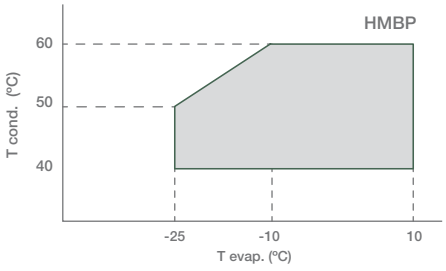
SOA R134a HBP



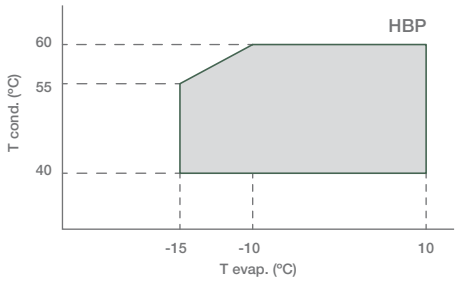
SOA R404A LBP



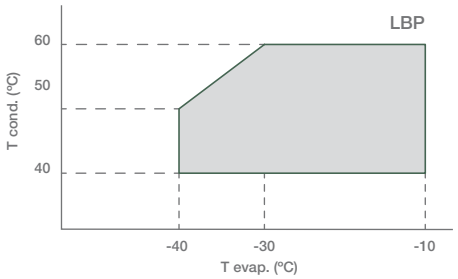
SOA R404A HMBP



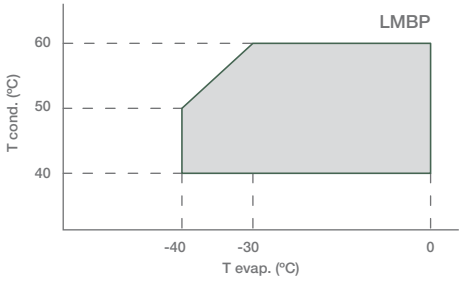
SOA R404A HBP



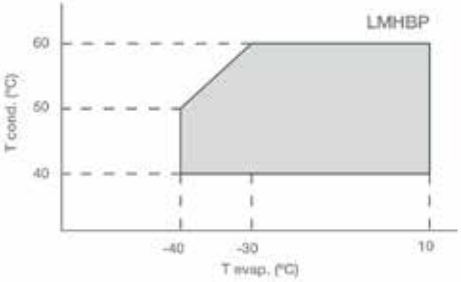
SOA R290 LBP



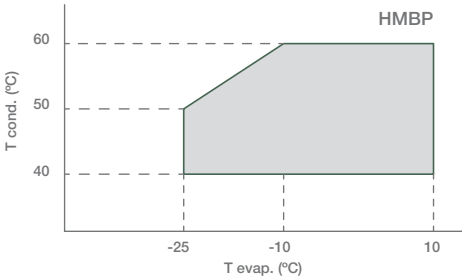
SOA R290 LMBP



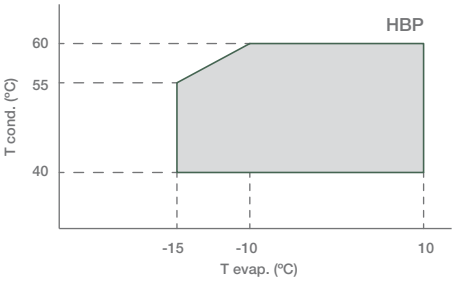
SOA R290 LMHBP



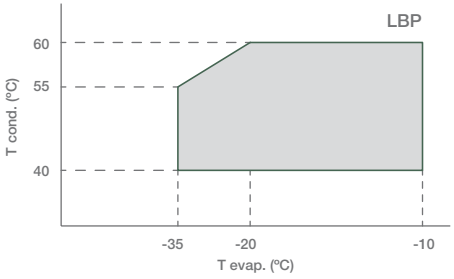
SOA R290 HMBP



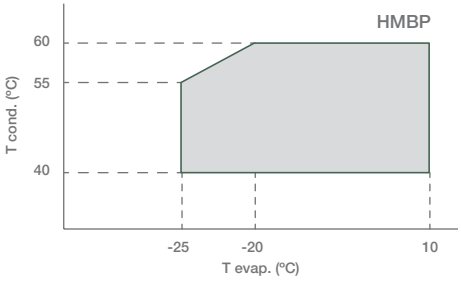
SOA R290 HBP



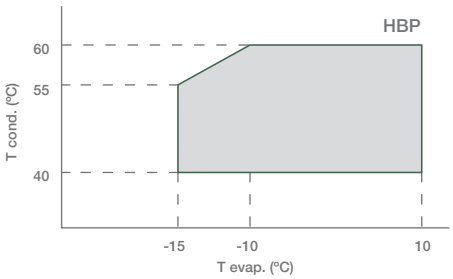
SOA R600a LBP



SOA R600a HMBP



SOA R600a HBP



Types of Electrical Motors

RSIR (Resistance Start-Induction Run)
LST motor. No capacitors. Auxiliary winding is disconnected after start up. Standard energy efficiency.

CSIR (Capacitor Start-Induction Run)
HST motor. With starting capacitor.
Auxiliary winding is disconnected after start up. Standard efficiency.

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

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

Single phase motor classification

Capacitor type	HST 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.

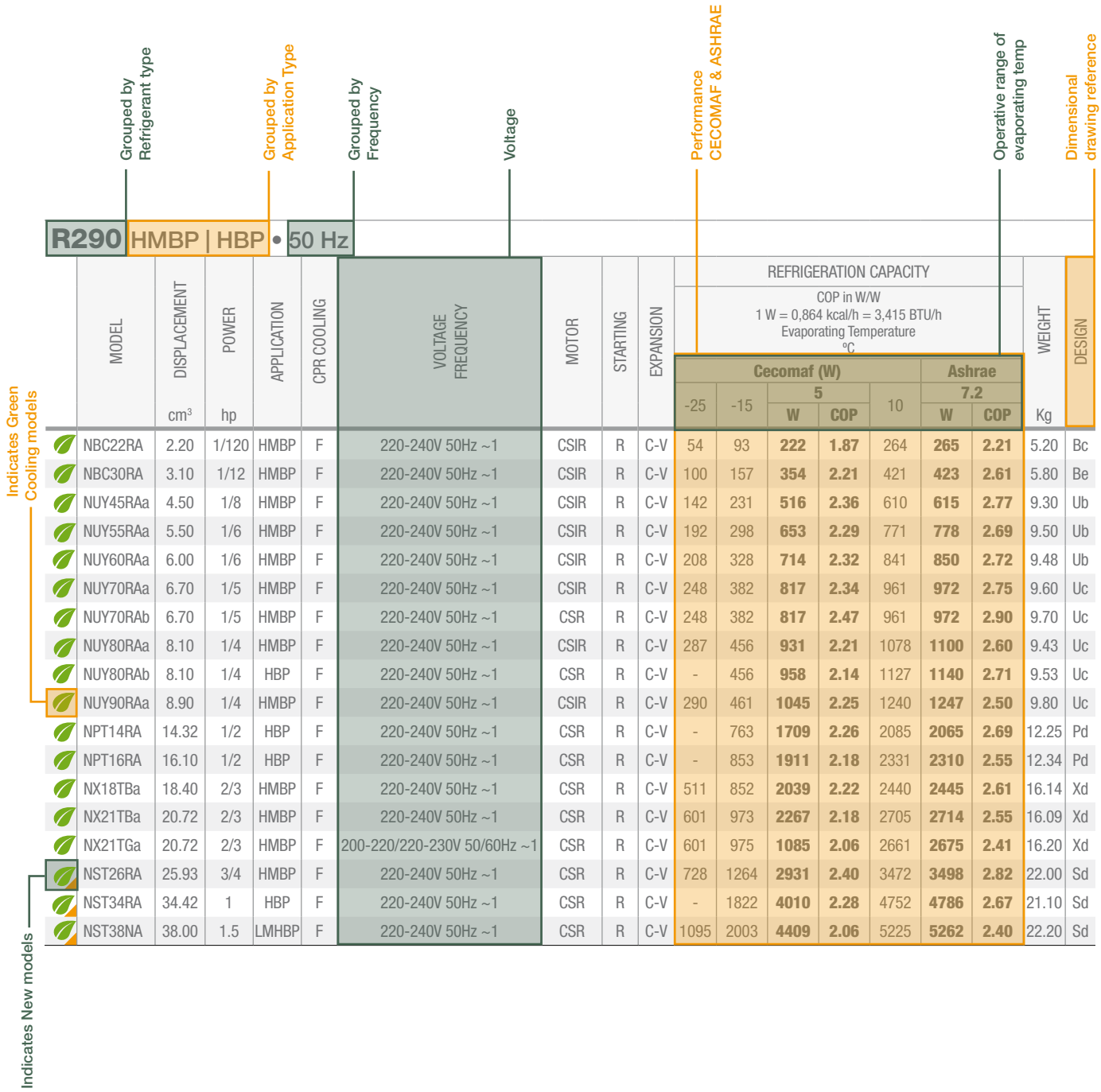
Type of torque

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

notes

3.

Compressors Catalogue

R290/R600a

R290 LBP • 50 Hz

Natural Refrigerant

MODEL	DISPLACEMENT cm³	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C							WEIGHT Kg	DESIGN
									Cecomaf (W)					Ashrae			
									-35	-30	-25		-10	-23.3			
											W	COP		W	COP		
L14U	1.40	1/16	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	20	27	**37**	**0.61**	56	**51**	**0.80**	5.40	Lb
L22UL	2.20	1/14	LBP	S	220-240V 50Hz ~1	RSIR	P	C	37	51	**69**	**0.84**	101	**95**	**1.10**	5.40	Lb
NBC25CA	2.60	1/14	LMBP	S	220-240V 50Hz ~1	RSIR	P	C	40	56	**76**	**1.01**	159	**104**	**1.33**	5.46	Be
NBC30NG	3.10	1/12	LMBP	S/F	220-240V 50/60Hz ~1	CSIR	R	C-V	52	73	**98**	**1.06**	195	**135**	**1.39**	6.42	Bf
NBC35NA	3.50	1/12	LMBP	S	220-240V 50Hz ~1	RSIR	P	C	57	79	**106**	**1.04**	211	**143**	**1.35**	6.20	Bf
NBC41NA	4.10	1/8	LMBP	S	220-240V 50Hz ~1	CSIR	R	C-V	72	102	**136**	**0.99**	272	**185**	**1.29**	6.10	Bf
NFT40NA	4.10	1/8	LMBP	S	220-240V 50Hz ~1	RSCR	P	C	88	116	**149**	**1.31**	285	**200**	**1.70**	6.90	Fc
NUY45LAa	4.50	1/8	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	1/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	66	123	**161**	**1.26**	311	**216**	**1.64**	9.45	Ub
NUS45NA	4.50	1/8	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	69	129	**169**	**1.44**	326	**210**	**1.85**	8.60	Ud
NUS45NG	4.50	1/8	LMBP	F	220-240V 50/60Hz ~1	RSCR	P	C	69	129	**169**	**1.39**	326	**210**	**1.80**	9.00	Ud
NFT45NA	4.50	1/8	LMBP	S	220-240V 50Hz ~1	RSCR	P	C	97	128	**164**	**1.31**	314	**220**	**1.70**	6.90	Fd
NFH45NG	4.50	1/8	LMBP	F	200-220/230V 50/60Hz ~1	RSIR	P	C	92	122	**156**	**1.04**	299	**210**	**1.35**	6.50	Fb
NUT55CAa	5.50	1/6	LBP	F	220-240V 50Hz ~1	RSIR	P	C	88	152	**196**	**1.27**	382	**264**	**1.64**	9.10	Ub
NUT55CAb	5.50	1/6	LBP	F	220-240V 50Hz ~1	RSCR	P	C	88	152	**196**	**1.39**	382	**264**	**1.80**	9.21	Ub
NUT55CAc	5.50	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	88	152	**196**	**1.27**	382	**264**	**1.64**	9.10	Ub
NUT55CAd	5.50	1/6	LBP	S	220-240V 50Hz ~1	RSCR	P	C	88	152	**196**	**1.39**	382	**264**	**1.80**	9.21	Ub
NUT55CAe	5.50	1/6	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	88	152	**196**	**1.27**	382	**264**	**1.64**	9.10	Ub
NUS55NA	5.50	1/6	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	79	147	**193**	**1.39**	373	**260**	**1.85**	9.10	Ud
NUS55NG	5.50	1/6	LMBP	F	220-240V 50/60Hz ~1	RSCR	P	C	79	147	**193**	**1.35**	373	**260**	**1.77**	9.00	Ud
NFH55NA	5.50	1/6	LMBP	F	220-240V 50Hz ~1	RSIR	P	C	114	151	**194**	**1.12**	371	**260**	**1.45**	7.50	Fd
NFG55NA	5.50	1/6	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	114	151	**194**	**1.19**	371	**260**	**1.55**	7.50	Fd
NUT60CAa	6.00	1/6	LBP	F	220-240V 50Hz ~1	RSIR	P	C	101	175	**226**	**1.30**	431	**304**	**1.68**	9.20	Ub
NUT60CAb	6.00	1/6	LBP	F	220-240V 50Hz ~1	RSCR	P	C	101	175	**226**	**1.41**	431	**304**	**1.82**	9.31	Ub
NUT60CAc	6.00	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	101	175	**226**	**1.30**	431	**304**	**1.68**	9.20	Ub
NUT60CAd	6.00	1/6	LBP	S	220-240V 50Hz ~1	RSCR	P	C	101	175	**226**	**1.41**	431	**304**	**1.82**	9.31	Ub
NUT60CAe	6.00	1/6	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	101	175	**226**	**1.30**	431	**304**	**1.68**	9.20	Ub
NUS60NA	6.00	1/6	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	98	170	**219**	**1.39**	427	**295**	**1.85**	9.31	Ud
NUS60NG	6.00	1/6	LMBP	F	220-240V 5060Hz ~1	RSCR	P	C	98	170	**219**	**1.38**	427	**295**	**1.79**	9.00	Ud
NFH60NA	6.00	1/6	LMBP	F	220-240V 50Hz ~1	RSIR	P	C	132	174	**224**	**1.12**	428	**300**	**1.45**	6.80	Fd
NFG60NA	6.00	1/6	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	132	174	**224**	**1.19**	428	**300**	**1.55**	6.80	Fd
NFT60NA	6.00	1/6	LMBP	S	220-240V 50Hz ~1	RSCR	P	C	130	171	**220**	**1.31**	420	**295**	**1.70**	6.90	Fc
NFH60NG	6.00	1/6	LMBP	F	200-220/230V 50/60Hz ~1	RSCR	P	C	130	171	**220**	**1.08**	420	**295**	**1.40**	6.90	Fc
NUT70CAa	6.70	1/5	LBP	F	220-240V 50Hz ~1	RSIR	P	C	109	195	**250**	**1.30**	463	**335**	**1.68**	9.20	Ub
NUT70CAb	6.70	1/5	LBP	F	220-240V 50Hz ~1	RSCR	P	C	109	195	**250**	**1.39**	463	**335**	**1.80**	9.41	Ub
NUT70CAc	6.70	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	109	195	**250**	**1.30**	463	**335**	**1.68**	9.20	Ub
NUT70CAd	6.70	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	109	195	**250**	**1.39**	463	**335**	**1.80**	9.41	Ub
NUT70CAe	6.70	1/5	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	109	195	**250**	**1.30**	463	**335**	**1.68**	9.20	Ub
NUS70NA	6.70	1/5	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	107	187	**241**	**1.39**	463	**330**	**1.85**	9.20	Ud
NUS70NG	6.70	1/5	LMBP	F	220-240V 50/60Hz ~1	CSR	R	C	107	187	**241**	**1.35**	463	**330**	**1.78**	9.00	Ud
NFH70NA	6.70	1/5	LMBP	F	220-240V 50Hz ~1	RSIR	P	C	145	191	**246**	**1.12**	470	**330**	**1.45**	7.00	Fd
NFG70NA	6.70	1/5	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	145	191	**246**	**1.19**	470	**330**	**1.55**	7.00	Fd
NFT70NA	6.70	1/5	LMBP	S	220-240V 50Hz ~1	RSCR	P	C	143	189	**242**	**1.31**	463	**325**	**1.70**	6.90	Fb
NFH70NG	6.70	1/5	LMBP	F	200-220/230V 50/60Hz ~1	RSCR	P	C	145	191	**246**	**1.12**	470	**330**	**1.45**	6.90	Fb
NUS80NA	8.10	1/4	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	134	231	**297**	**1.39**	561	**400**	**1.85**	9.60	Ud
NFH80NA	8.10	1/4	LMBP	F	220-240V 50Hz ~1	RSIR	P/R	C	172	226	**291**	**1.12**	530	**390**	**1.45**	8.00	Fe

Green Cooling Models

New Models

(*) Under development

This table continues in the following page

R290 LBP • 50 Hz

Natural Refrigerant

MODEL	DISPLACEMENT cm³	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C							WEIGHT	DESIGN
									Cecomaf (W)					Ashrae			
									-35	-30	-25		-10	-23.3			
											W	COP		W	COP	Kg	
NFG80NA	8.10	1/4	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	172	226	**291**	**1.19**	530	**390**	**1.55**	8.10	Fe
NUY80NGa	8.10	1/4	LMBP	F	200-240/230V 50/60Hz ~1	CSIR	R	C-V	185	238	**303**	**1.13**	568	**405**	**1.46**	9.85	Ud
NUY80NGb	8.10	1/4	LMBP	F	200-240/230V 50/60Hz ~1	CSR	R	C-V	185	238	**303**	**1.21**	568	**405**	**1.56**	9.95	Ud
NUY90CAa	8.90	1/4	LBP	F	220-240V 50Hz ~1	RSIR	P	C	157	267	**338**	**1.21**	614	**451**	**1.55**	9.30	Ub
NUY90CAb	8.90	1/4	LBP	F	220-240V 50Hz ~1	RSCR	P	C	158	270	**342**	**1.28**	625	**457**	**1.64**	9.40	Ub
NUY90LAa	8.90	1/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	157	267	**338**	**1.21**	614	**451**	**1.55**	9.40	Ub
NUY90LAb	8.90	1/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	158	270	**342**	**1.28**	625	**457**	**1.64**	9.50	Ub
NUM90NA	8.90	1/4	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	155	256	**327**	**1.17**	617	**430**	**1.50**	9.60	Ue
NUS90NA	8.90	1/4	LMBP	F	220-240V 50Hz ~1	RSCR	P	C	159	262	**335**	**1.39**	631	**440**	**1.85**	9.80	Ud
NUY90NGa	8.90	1/4	LMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	148	251	**322**	**1.12**	613	**430**	**1.45**	9.80	Ud
NUY90NGb	8.90	1/4	LMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	148	251	**322**	**1.21**	613	**430**	**1.55**	9.80	Ud
NUG100NA	9.80	3/8	LMBP	F	220-240V 50Hz ~1	CSR	R	C-V	165	278	**359**	**1.17**	683	**480**	**1.50**	12.40	Ue
NUT100NA	9.80	3/8	LMBP	F	220-240V 50Hz ~1	CSR	R	C-V	168	283	**366**	**1.17**	696	**490**	**1.70**	12.40	Ue
NUY100NG	9.80	3/8	LMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	160	272	**350**	**1.21**	680	**470**	**1.55**	12.40	Ue
NUT120NA	12.50	3/8	LMBP	F	220-240V 50Hz ~1	CSR	R	C-V	252	338	**438**	**1.35**	840	**590**	**1.70**	10.50	U+b
NUT140NA	14.20	1/2	LMBP	F	220-240V 50Hz ~1	CSR	R	C-V	296	397	**515**	**1.34**	989	**680**	**1.70**	10.50	U+b
NPT16LA	16.15	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	254	440	**564**	**1.16**	1062	**756**	**1.50**	12.17	Pd
NHT160NA	16.45	1/2	LMBP	F	220-240V 50Hz ~1	CSR	R	C-V	269	466	**597**	**1.31**	1124	**800**	**1.65**	13.40	P+b
NPT18LA	18.00	2/3	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	269	473	**611**	**1.13**	1165	**820**	**1.46**	12.30	Pd
NHT180NA	17.60	2/3	LMBP	F	220-240V 50Hz ~1	CSR	R	C-V	285	501	**647**	**1.31**	1233	**840**	**1.65**	13.40	P+b
NX21NGa	20.72	2/3	LMBP	F	220-240V 50/60Hz ~1	CSR	R	C-V	267	517	**675**	**1.08**	1275	**907**	**1.41**	16.99	Xd
NXH210NA	20.70	2/3	LMBP	F	220-240V 50Hz ~1	CSR	R	C-V	259	502	**655**	**1.08**	1237	**880**	**1.40**	19.00	X+b
NX23NGa	23.20	3/4	LMBP	F	220-240V 50/60Hz ~1	CSR	R	C-V	297	572	**746**	**1.09**	1411	**1003**	**1.41**	16.75	Xd
NXH230NA	23.20	7/8	LMBP	F	220-240V 50Hz ~1	CSR	R	C-V	284	547	**714**	**1.08**	1351	**960**	**1.40**	19.00	X+b
NXK230NA	23.20	7/8	LMBP	F	220-240V 50Hz ~1	CSR	R	C-V	302	582	**759**	**1.23**	1436	**1020**	**1.60**	19.00	X+b
NXH260NA	26.00	7/8	LMBP	F	220-240V 50Hz ~1	CSR	R	C-V	326	627	**818**	**1.08**	1547	**1100**	**1.40**	19.00	X+b
NXK260NA	26.00	7/8	LMBP	F	220-240V 50Hz ~1	CSR	R	C-V	340	656	**855**	**1.23**	1617	**1150**	**1.60**	19.00	X+b
NST26NA	25.93	7/8	LMBP	F	220-240V 50Hz ~1	CSR	R	C-V	370	537	**743**	**1.14**	1601	**1018**	**1.49**	21.60	Sd
NST26NG (*)	25.93	7/8	LMBP	F	220-240V 50/60Hz ~1	CSR	R	C-V	370	537	**743**	**1.11**	1601	**1018**	**1.45**	21.60	Sd
NST30NGb	29.95	7/8	LMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	451	642	**880**	**1.09**	1878	**1201**	**1.42**	21.80	Sd
NST34LA	34.42	1	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	657	878	**1143**	**1.19**	2210	**1539**	**1.53**	23.00	Sd
NST34NG	34.42	1	LMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	684	865	**1138**	**1.08**	2240	**1535**	**1.41**	23.00	Sd
NST38NA	38.00	1 1/2	LMHBP	F	220-240V 50Hz ~1	CSR	R	C-V	734	1000	**1315**	**1.18**	2558	**1774**	**1.53**	23.00	Sd
NST38NG (*)	38.00	1 1/2	LMHBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	734	1000	**1315**	**1.08**	2558	**1774**	**1.40**	23.00	Sd
NST38N3 (*)	38.00	1 1/2	LMBP	F	400/440V 50/60Hz ~3	CSR	R		734	1000	**1315**	**1.08**	2558	**1774**	**1.40**	23.00	Sd
NST42NA	42.00	1 5/8	LMBP	F	220-240V 50Hz ~1	CSR	R	C-V	794	1082	**1423**	**1.16**	2769	**1920**	**1.50**	23.00	Sd

Green Cooling Models

New Models

(*) Under development

R290 LBP • 60 Hz

Natural Refrigerant

	MODEL	DISPLACEMENT cm³	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C							WEIGHT	DESIGN
												Cecomaf (W)				Ashrae		
										-35	-30	-25		-10	-23.3			
												W	COP		W	COP	Kg	
	L14U	1.40	1/16	LBP	S	220-240V 50/60Hz ~1	RSIR	P	C	23	32	**44**	**0.80**	80	**60**	**1.05**	5.40	Lb
	L14U	1.40	1/16	LBP	S	115-127V 60Hz ~1	RSIR	P	C	23	32	**44**	**0.80**	80	**60**	**1.05**	5.40	Lb
	NBC30NR	3.10	1/12	LMBP	S/F	115-127V 60Hz ~1	CSIR	R	C-V	50	89	**118**	**1.07**	242	**159**	**1.40**	6.10	Bf
	NBC30NG	3.10	1/12	LMHBP	S/F	220-240V 50/60Hz ~1	CSIR	R	C-V	52	92	**122**	**1.10**	250	**165**	**1.42**	6.42	Bf
	NFS30NR	3.15	1/12	LMBP	S	115-127V 60Hz ~1	RSCR	P	C	78	103	**163**	**1.56**	260	**180**	**1.80**	7.60	Fd
	NFT35NR	3.50	1/12	LMBP	S	115-127V 60Hz ~1	RSCR	P	C	85	112	**177**	**1.47**	282	**195**	**1.70**	6.90	Fd
	NFS35NR	3.44	1/12	LMBP	S	115-127V 60Hz ~1	RSCR	P	C	87	114	**181**	**1.56**	289	**200**	**1.80**	7.60	Fd
	NUT40NRa	4.00	1/8	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	72	128	**169**	**1.15**	347	**229**	**1.55**	9.15	Uc
	NUT40NRb	4.00	1/8	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	72	128	**169**	**1.23**	347	**229**	**1.65**	9.22	Uc
	NUT40NRc	4.00	1/8	LMBP	F	115-127V 60Hz ~1	RSIR	P	C	72	128	**169**	**1.23**	347	**229**	**1.55**	9.22	Uc
	NUT40NRd	4.00	1/8	LMBP	F	115-127V 60Hz ~1	RSCR	P	C	72	128	**169**	**1.23**	347	**229**	**1.65**	9.22	Uc
	NUS45NR	4.50	1/8	LMBP	F	115-127V 60Hz ~1	RSCR	P	C	77	144	**191**	**1.39**	389	**260**	**1.80**	8.90	Ue
	NUS45NR	4.50	1/8	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	77	144	**191**	**1.39**	389	**260**	**1.80**	8.90	Ue
	NUS45NG	4.50	1/8	LMBP	F	220-240V 50/60Hz ~1	RSCR	P	C	77	144	**191**	**1.41**	389	**260**	**1.83**	9.00	Ue
	NFT45NR	4.50	1/8	LMBP	S	115-127V 60Hz ~1	RSCR	P	C	113	149	**235**	**1.47**	376	**260**	**1.70**	6.90	Fc
	NFH45NR	4.50	1/8	LMBP	F	115-127V 60Hz ~1	RSIR	P	C	113	149	**235**	**1.26**	376	**260**	**1.45**	6.90	Fb
	NFH45NG	4.50	1/8	LMBP	F	200-200/230V 50/60Hz ~1	RSIR	P	C	78	103	**190**	**1.30**	303	**260**	**1.50**	6.50	Fb
	NUS55NR	5.50	1/6	LMBP	F	115-127V 60Hz ~1	RSCR	P	C	105	184	**235**	**1.39**	441	**312**	**1.80**	8.90	Ue
	NUS55NR	5.50	1/6	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	105	184	**235**	**1.39**	441	**312**	**1.80**	8.90	Ue
	NUS55NG	5.50	1/6	LMBP	F	220-240V 50/60Hz ~1	RSCR	P	C	105	184	**235**	**1.41**	441	**312**	**1.82**	9.00	Ue
	NFH55NR	5.50	1/6	LMBP	F	115-127V 60Hz ~1	RSIR	P	C	139	183	**290**	**1.26**	462	**320**	**1.45**	6.90	Fc
	NFT55NR	5.50	1/6	LMBP	F	115-127V 60Hz ~1	RSCR	P	C	134	177	**281**	**1.47**	448	**310**	**1.70**	6.90	Fc
	NUT60LRa	6.00	1/6	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	122	207	**266**	**1.24**	508	**357**	**1.60**	9.40	Uc
	NUT60LRb	6.00	1/6	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	122	213	**273**	**1.34**	513	**366**	**1.73**	9.50	Uc
	NUT60LRc	6.00	1/6	LMBP	S	115-127V 60Hz ~1	CSIR	R	C-V	122	207	**266**	**1.24**	508	**357**	**1.60**	9.40	Uc
	NUT60LRd	6.00	1/6	LMBP	S	115-127V 60Hz ~1	CSR	R	C-V	122	213	**273**	**1.34**	513	**366**	**1.73**	9.50	Uc
	NUS60NR	6.00	1/6	LMBP	S	115-127V 60Hz ~1	RSCR	P	C	122	213	**273**	**1.39**	513	**366**	**1.80**	8.90	Ue
	NUS60NR	6.00	1/6	LMBP	S	115-127V 60Hz ~1	CSR	R	C-V	122	213	**273**	**1.39**	513	**366**	**1.80**	8.90	Ue
	NUS60NG	6.00	1/6	LMBP	S	220-240V 50/60Hz ~1	RSCR	P	C	122	213	**273**	**1.43**	513	**366**	**1.84**	9.00	Ue
	NFH60NG	6.00	1/6	LMBP	F	200-200/230V 50/60Hz ~1	RSCR	P	C	152	200	**317**	**1.39**	506	**350**	**1.60**	6.90	Fd
	NUY70NRa	6.70	1/5	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	129	231	**297**	**1.22**	551	**398**	**1.57**	9.40	Uc
	NUY70NRb	6.70	1/5	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	129	231	**297**	**1.30**	551	**398**	**1.68**	9.40	Uc
	NUY70NRc	6.70	1/5	LMBP	S	115-127V 60Hz ~1	CSIR	R	C-V	129	231	**297**	**1.22**	551	**398**	**1.57**	9.40	Uc
	NUY70NRd	6.70	1/5	LMBP	S	115-127V 60Hz ~1	CSR	R	C-V	129	231	**297**	**1.30**	551	**398**	**1.68**	9.40	Uc
	NUS70NR	6.70	1/5	LMBP	F	115-127V 60Hz ~1	RSCR	P	C	129	231	**297**	**1.39**	551	**398**	**1.80**	8.90	Ue
	NUS70NR	6.70	1/5	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	129	231	**297**	**1.39**	551	**398**	**1.80**	8.90	Ue
	NUS70NG	6.70	1/5	LMBP	F	220-240V 50/60Hz ~1	CSR	R	C-V	129	231	**297**	**1.42**	551	**398**	**1.83**	8.90	Ue
	NFG70NR	6.70	1/5	LMBP	F	115-127V 60Hz ~1	RSCR	P	C	169	223	**353**	**1.30**	353	**390**	**1.50**	6.90	Fc
	NFH70NG	6.70	1/5	LMBP	F	200-220/230V 50/60Hz ~1	RSCR	P	C	169	223	**353**	**1.39**	563	**390**	**1.60**	6.90	Fc
	NUY80NRa	8.10	1/4	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	154	272	**363**	**1.29**	703	**476**	**1.58**	9.30	Uc
	NUY80NRb	8.10	1/4	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	154	272	**363**	**1.37**	703	**476**	**1.67**	9.30	Uc
	NUS80NR	8.10	1/4	LMBP	F	115-127V 60Hz ~1	RSCR	P	C	154	272	**363**	**1.39**	703	**476**	**1.80**	8.9	Ue
	NUS80NR	8.10	1/4	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	154	272	**363**	**1.39**	703	**476**	**1.80**	8.9	Ue
	NUY80NGa	8.10	1/4	LMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	223	286	**363**	**1.24**	673	**485**	**1.50**	9.85	Ud
	NUY80NGb	8.10	1/4	LMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	223	286	**363**	**1.32**	673	**485**	**1.60**	9.95	Ud
	NUY90NRa	8.90	1/4	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	167	300	**391**	**1.21**	767	**528**	**1.55**	9.40	Uc
	NUY90NRb	8.90	1/4	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	167	300	**391**	**1.29**	767	**528**	**1.65**	9.40	Uc

Green Cooling Models

New Models

R290 LBP • 60 Hz — Natural Refrigerant

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

Green Cooling Models

New Models

(*) Under development

R290 HMBP | HBP • 50 Hz — Natural Refrigerant

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

Green Cooling Models

R290 HMBP | HBP • 50 Hz

Natural Refrigerant

	MODEL	DISPLACEMENT cm³	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C							WEIGHT Kg	DESIGN
										Cecomaf (W)					Ashrae			
										-25	-15	5		10	7.2			
												W	COP		W	COP		
	NUY90RAa	8.90	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	290	461	**1045**	**2.25**	1240	**1247**	**2.50**	9.80	Ub
	NUY90RAb	8.90	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	290	461	**1045**	**2.25**	1240	**1247**	**2.70**	9.80	Uc
	NLY12RAa	10.70	1/3	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	379	584	**1224**	**2.06**	1432	**1453**	**2.41**	11.44	Ld
	NLY12RAb	10.70	1/3	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	379	597	**1249**	**2.28**	1457	**1480**	**2.66**	11.54	Ld
	NLY12RGa	10.70	1/3	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	341	553	**1217**	**2.03**	1432	**1448**	**2.39**	12.14	Ld
	NLY12RGb	10.70	1/3	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	355	554	**1226**	**2.20**	1450	**1462**	**2.58**	12.24	Ld
	NPY12RAa	12.10	3/8	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	635	**1460**	**2.08**	1735	**1745**	**2.45**	12.16	Pd
	NPY12RAb	12.10	3/8	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	635	**1460**	**2.28**	1735	**1745**	**2.70**	12.26	Pd
	NPT14RA	14.32	1/2	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	763	**1709**	**2.26**	2085	**2065**	**2.69**	12.25	Pd
	NPT16RA	16.10	1/2	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	853	**1911**	**2.18**	2331	**2310**	**2.55**	12.34	Pd
	NPT18RA	18.00	2/3	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	903	**2023**	**2.06**	2467	**2445**	**2.41**	12.15	Pd
	NX21TBa	20.72	2/3	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	601	973	**2267**	**2.18**	2705	**2714**	**2.55**	16.09	Xd
	NX21TGa	20.72	2/3	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	601	975	**1085**	**2.06**	2661	**2675**	**2.41**	16.20	Xd
	NST26RA	25.93	3/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	728	1264	**2931**	**2.40**	3472	**3498**	**2.82**	22.00	Sd
	NST34RA	34.42	1	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	1822	**4010**	**2.28**	4752	**4786**	**2.67**	21.10	Sd
	NST38NA	38.00	1 1/2	LMHBP	F	220-240V 50Hz ~1	CSR	R	C-V	1095	2003	**4409**	**2.06**	5225	**5262**	**2.40**	22.20	Sd
	NST38R3 (*)	38.00	1 1/2	HBP	F	380-420/440-480V 50/60Hz ~3	CSR	R	C-V	1095	2003	**4409**	**2.06**	5225	**5262**	**2.40**	22.20	Sd
	NST42RA	42.00	1 5/8	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	2105	**4634**	**2.15**	5491	**5530**	**2.52**	22.20	Sd
	NST42R3 (*)	42.00	1 5/8	HMBP	F	400/440V 50/60Hz ~3	CSR	R	C-V	-	2105	**4634**	**2.15**	5491	**5530**	**2.52**	22.20	Sd

Green Cooling Models

New Models

R290 HMBP | HBP • 60 Hz

Natural Refrigerant

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

Green Cooling Models

New Models

R600a LBP • 50 Hz

Natural Refrigerant

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

Green Cooling Models

New Models

(*) Under development

R600a LBP • 60 Hz — Natural Refrigerant

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

R600a HMBP | HBP • 50 Hz — Natural Refrigerant

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

Green Cooling Models

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

Measurement conversion

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

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

notes

3.

Compressors Catalogue

R134a

R134a LBP | LMBP • 50 Hz

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

This table continues in the following page

R134a LBP | LMBP • 60 Hz

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

This table continues in the following page

R134a HMBP | HBP • 50 Hz

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

R134a HMBP | HBP • 60 Hz

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

This table continues in the following page

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

Measurement conversion
R134a
W (A) x 1.37 = W (B)
W (C) x 1.19 = W (D)

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

3.

Compressors Catalogue

R404A

R404A LBP • 50 Hz

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

R404A LBP • 60 Hz

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

R404A HMBP | HBP • 50 Hz

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

R404A HMBP | HBP • 60 Hz

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

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

Measurement conversion
R404A
W (A) x 1.29 = kcal/h (B)
W (C) x 1.08 = kcal/h (D)

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

3.

Compressors Catalogue

DC/VSC

	MODEL	DISPLACEMENT cm³	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	EXPANSION	SPEED rpm	REFRIGERATION CAPACITY COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C							WEIGHT Kg	DESIGN
									Cecomaf (W)					Ashrae			
									-40	-30	-25 W	-25 COP	-10	-23.3 W	-23.3 COP		
	NVK35FSC	3.50	LMBP	F	220-240V or, 115-127V	PMSM	C-V	1600	26	47	**60**	**1.16**	111	**80**	**1.50**	6.40	Vb
								2400	38	69	**88**	**1.29**	163	**118**	**1.67**		
								3000	50	90	**116**	**1.28**	214	**155**	**1.65**		
								4500	75	134	**172**	**1.16**	318	**230**	**1.50**		
	NVS50FSC	5.00	LMBP	F	220-240V or, 115-127V	PMSM	C-V	1600	39	70	**90**	**1.35**	166	**120**	**1.75**	6.40	Vb
								2400	62	111	**142**	**1.43**	263	**190**	**1.85**		
								3000	81	144	**185**	**1.37**	343	**248**	**1.80**		
								4500	119	212	**272**	**1.24**	504	**365**	**1.65**		
	NMD50FSC	5.00	LMBP	F	220-240V or, 115-127V	PMSM	C-V	1600	42	76	**97**	**1.43**	180	**130**	**1.86**	5.20	Mb
								2400	67	119	**153**	**1.50**	283	**205**	**1.95**		
								3000	85	151	**194**	**1.44**	359	**260**	**1.89**		
								4500	120	215	**276**	**1.30**	511	**370**	**1.73**		
	NVS70FSC	7.00	LMBP	F	220-240V or, 115-127V	PMSM	C-V	1600	57	102	**131**	**1.31**	243	**176**	**1.70**	6.20	Vb
								2400	89	160	**205**	**1.39**	380	**275**	**1.80**		
								3000	114	204	**261**	**1.36**	484	**350**	**1.79**		
								4500	168	300	**384**	**1.24**	712	**515**	**1.65**		
	NMD70FSC	7.00	LMBP	F	220-240V or, 115-127V	PMSM	C-V	1600	62	111	**142**	**1.43**	263	**190**	**1.86**	5.20	Mb
								2400	94	169	**216**	**1.50**	401	**290**	**1.95**		
								3000	117	210	**269**	**1.44**	498	**360**	**1.89**		
								4500	169	303	**388**	**1.30**	719	**520**	**1.73**		
	NVT90FSC	9.00	LMBP	F	220-240V or, 115-127V	PMSM	C-V	1600	89	160	**205**	**1.27**	380	**275**	**1.65**	6.20	Vb
								2400	120	215	**276**	**1.31**	511	**370**	**1.70**		
								3000	150	268	**343**	**1.28**	636	**460**	**1.68**		
								4500	208	373	**478**	**1.17**	885	**640**	**1.55**		
	NUD100FSC	10.50	LMBP	F	220-240V or, 115-127V	PMSM	C-V	1800	104	186	**239**	**1.40**	442	**320**	**1.82**	8.95	Uv
								2400	140	250	**321**	**1.47**	594	**430**	**1.90**		
								3000	179	320	**410**	**1.40**	760	**550**	**1.85**		
								4500	275	492	**631**	**1.24**	1168	**845**	**1.65**		
	NUD125FSC	12.50	LMBP	F	220-240V or, 115-127V	PMSM	C-V	1800	127	227	**291**	**1.40**	539	**390**	**1.82**	8.95	Uv
								2400	174	311	**399**	**1.47**	739	**535**	**1.90**		
								3000	207	370	**474**	**1.40**	878	**635**	**1.85**		
								4500	309	553	**709**	**1.24**	1313	**950**	**1.65**		
	NUS160FSC	14.80	LBP	F	220-240V or, 115-127V	PMSM	C-V	2000	171	302	**390**	**1.39**	751	**525**	**1.80**	8.95	Uv
								2400	218	384	**497**	**1.43**	956	**668**	**1.86**		
								3000	264	465	**602**	**1.41**	1159	**810**	**1.84**		
								5000	408	719	**930**	**1.29**	1790	**1251**	**1.68**		

Green Cooling Models
New Models

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

Green Cooling Models
New Models

R600a LBP | MBP | HBP • 12 Hz — DC Compressors

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

R290a LBP | MBP | HBP • 12V — DC Compressors

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

Green Cooling Models
New Models

R134a LBP | MBP | HBP • 12V — DC Compressors

MODEL	DISPLACEMENT cm³	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	EXPANSION	SPEED rpm	REFRIGERATION CAPACITY COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C								WEIGHT Kg	DESIGN
								Cecomaf (W)					Ashrae				
								-35	-30	-25		-10	-23.3				
										W	COP		W	COP			
DM14H	1.40	LBP	S	12-24V DC	BLDC	C	2500	7	12	**18**	**0.80**	45	**25**	**1.05**	2.40	DMb
							4000	16	23	**33**	**0.85**	79	**45**	**1.10**		
DM16H	1.60	LBP	S	12-24V DC	BLDC	C	2500	9	14	**21**	**0.85**	54	**30**	**1.10**	2.40	DMb
							4000	17	25	**36**	**0.85**	88	**50**	**1.10**		
DM19H	1.90	LMHBP	S/F	12-24V DC	BLDC	C	2000	10	17	**25**	**0.95**	64	**35**	**1.25**	4.20	DMb
							3500	21	30	**44**	**0.93**	105	**60**	**1.20**		
DL19H	1.90	LMHBP	S/F	12-24V DC	BLDC	C	2000	9	15	**23**	**0.84**	58	**32**	**1.10**	4.20	DLb
							3500	21	30	**44**	**0.95**	105	**60**	**1.15**		
DL22H	2.20	LMHBP	S/F	12-24V DC	BLDC	C	2000	11	18	**28**	**0.91**	71	**39**	**1.20**	4.20	DLb
							3500	24	35	**51**	**0.97**	123	**70**	**1.25**		
DL30H	3.00	LMHBP	S/F	12-24V DC	BLDC	C	2000	17	27	**41**	**0.91**	104	**57**	**1.20**	4.20	DLb
							3500	35	50	**73**	**0.97**	176	**100**	**1.25**		
DL35H	3.50	LBP	S	12-24V DC	BLDC	C	2000	19	30	**45**	**0.91**	116	**64**	**1.20**	4.30	DLb
							3500	38	55	**80**	**0.97**	193	**110**	**1.25**		
VDL19H	1.90	LBP	S	12-24V DC 100-240V AC	BLDC	C	2000	9	15	**23**	**0.84**	58	**32**	**1.10**	4.40	VDLb
							3500	21	30	**44**	**0.89**	105	**60**	**1.15**		
VDL22H	2.20	LBP	S	12-24V DC 100-240V AC	BLDC	C	2000	11	18	**28**	**0.91**	71	**39**	**1.20**	4.40	VDLb
							3500	24	35	**51**	**0.97**	123	**70**	**1.25**		

R134a LBP | MBP | HBP • 12V — DC Compressors

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

Green Cooling Models

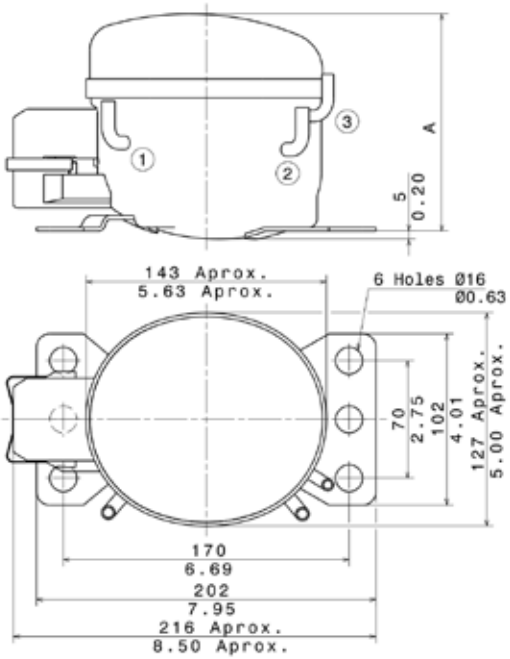
New Models

4.

Technical Information

Compressor Dimensional Drawings

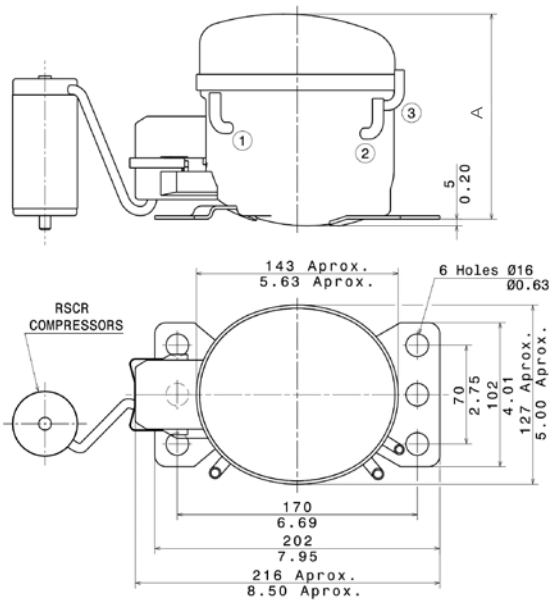
Small L range



	Designation
1	Suction
2	Service
3	Discharge

	A (mm)
SLb	125.5
SLc	129
SLd	138

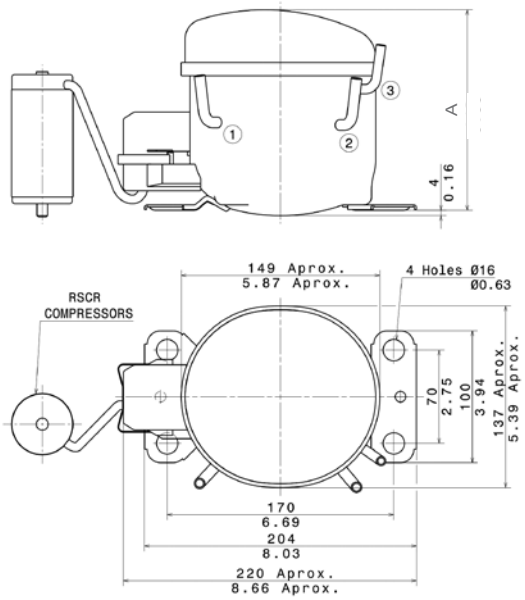
HL range



	Designation
1	Suction
2	Service
3	Discharge

	A (mm)
HLb	145

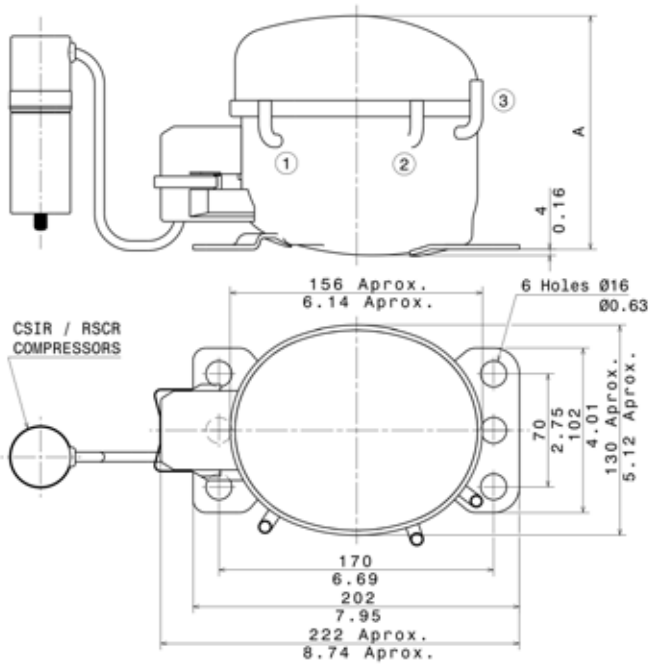
HK range



	Designation
1	Suction
2	Service
3	Discharge

	A (mm)
HKb	148

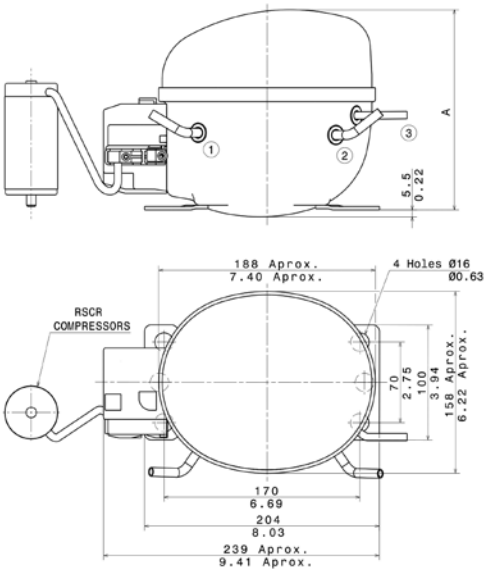
B range



	Designation
1	Suction
2	Service
3	Discharge

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

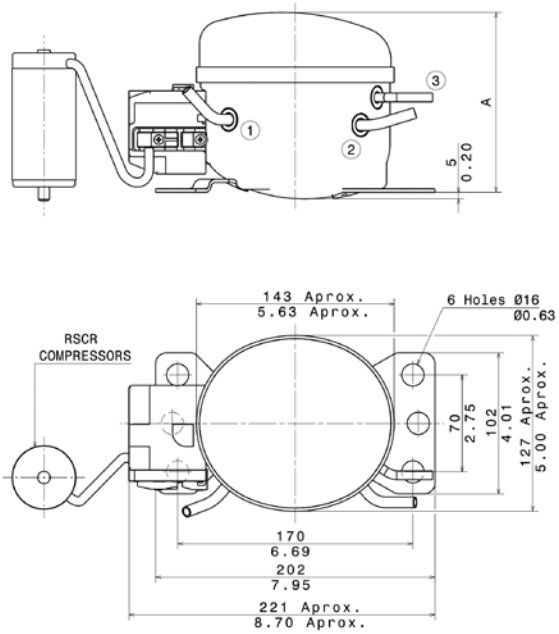
HYE range



	Designation
1	Service
2	Suction
3	Discharge

	A (mm)
HYEb	173.5
HYEc	169
HYEd	176.5
HYEf	180

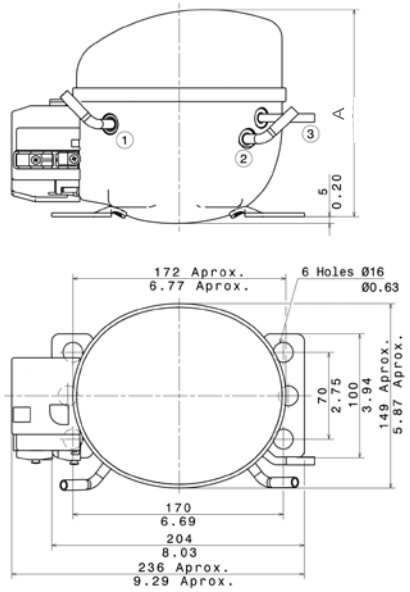
HYB range



	Designation
1	Suction
2	Service
3	Discharge

	A (mm)
HYBb	130
HYBc	138
HYBd	142
HYBe	154
HYBf	161

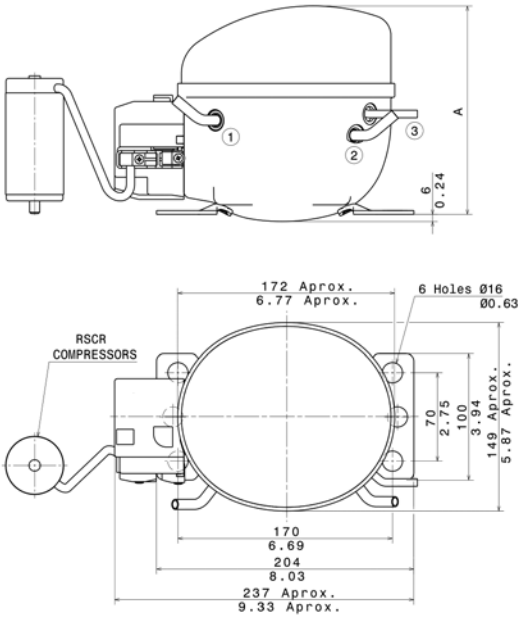
HFY range



	Designation
1	Service
2	Suction
3	Discharge

	A (mm)
HFYb	167

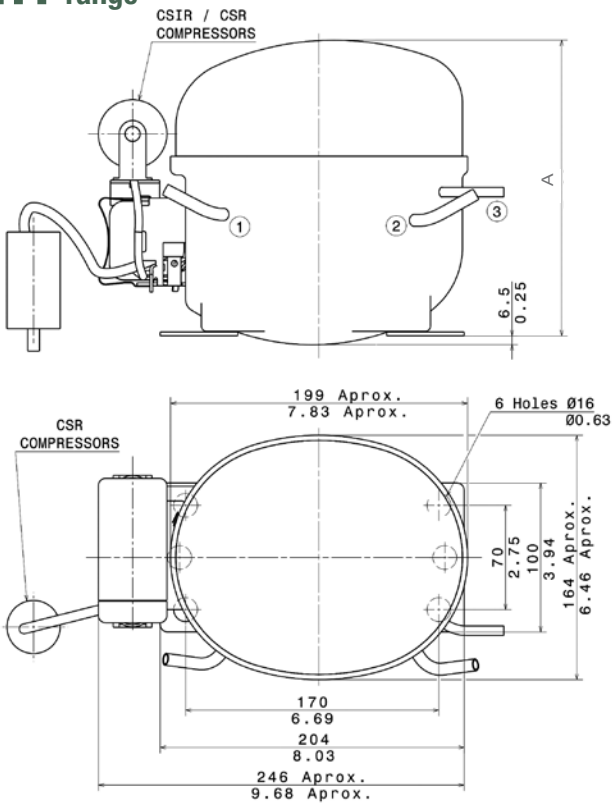
HYS range



	Designation
1	Service
2	Suction
3	Discharge

	A (mm)
HYSb	159.5
HYSc	165
HYSd	168
HYSe	172

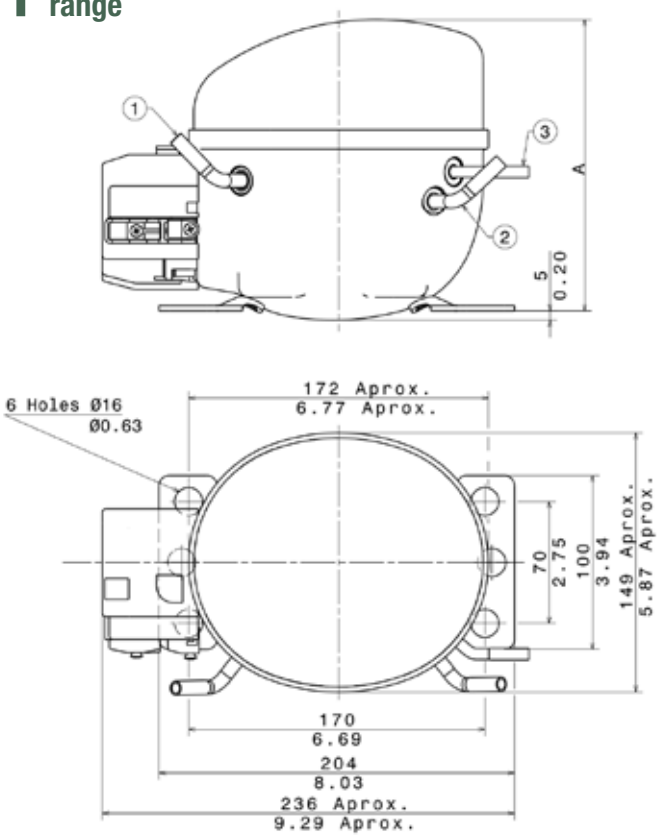
HY range



	Designation
1	Service
2	Suction
3	Discharge

	A (mm)
HYb	193

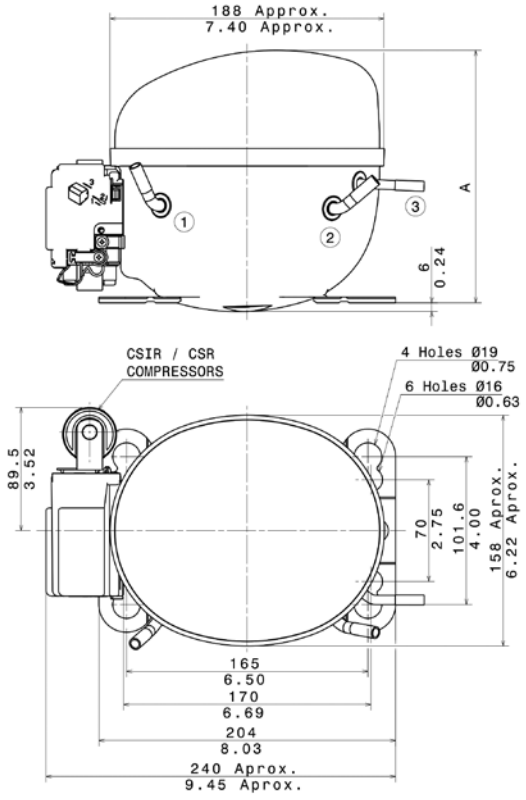
F range



	Designation
1	Service
2	Suction
3	Discharge

	A (mm)
Fb	165
Fc	170
Fd	175
Fe	178

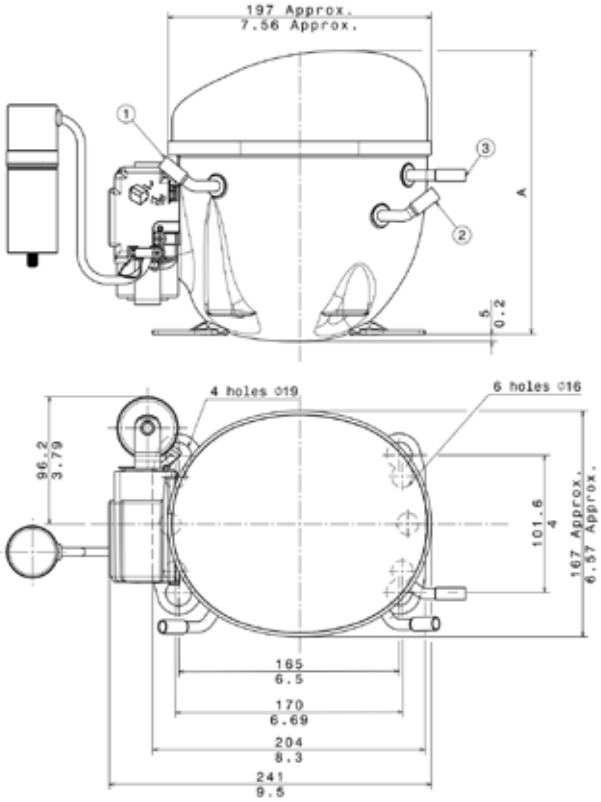
U range



	Designation
1	Service
2	Suction
3	Discharge

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

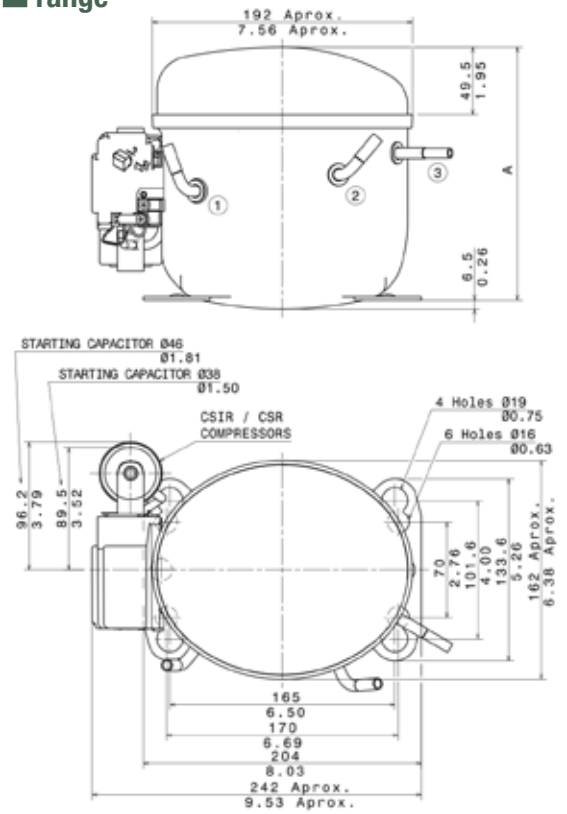
U+ range



	Designation
1	Service
2	Suction
3	Discharge

	A (mm)
U+b	210

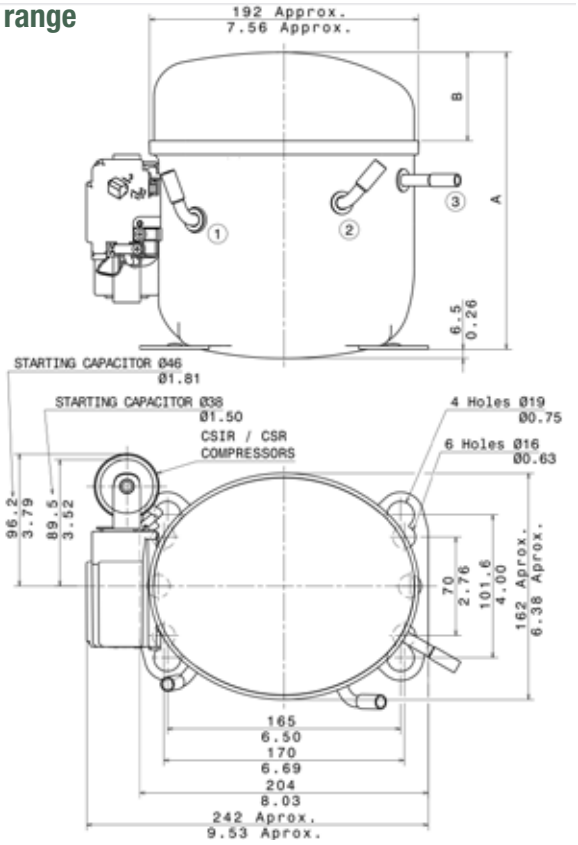
L range



	Designation
1	Suction
2	Service
3	Discharge

	A (mm)
Lb	175
Lc	185.6
Ld	198

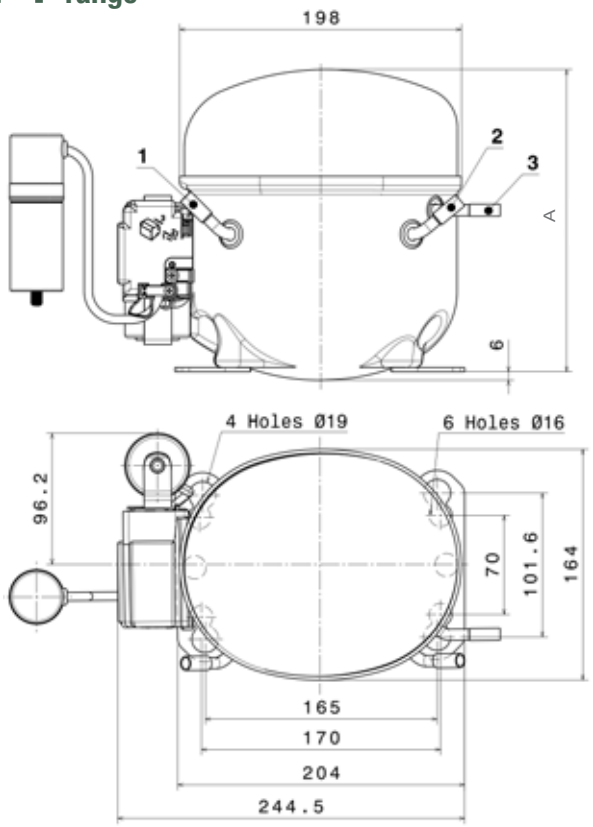
P range



	Designation
1	Suction
2	Service
3	Discharge

	A (mm)
Pc	198.1
Pd	210.5
Pe	215.5

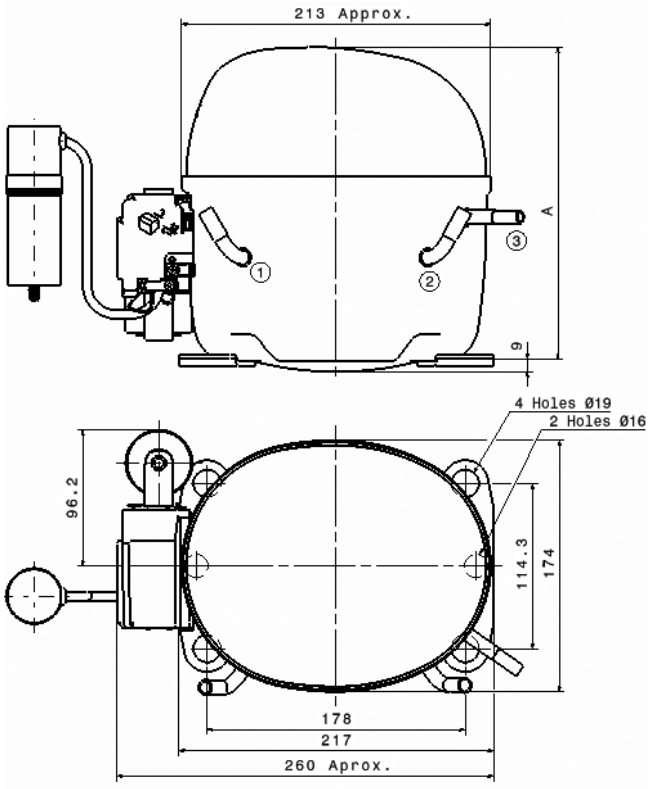
P+ range



	Designation
1	Service
2	Suction
3	Discharge

	A (mm)
P+b	211

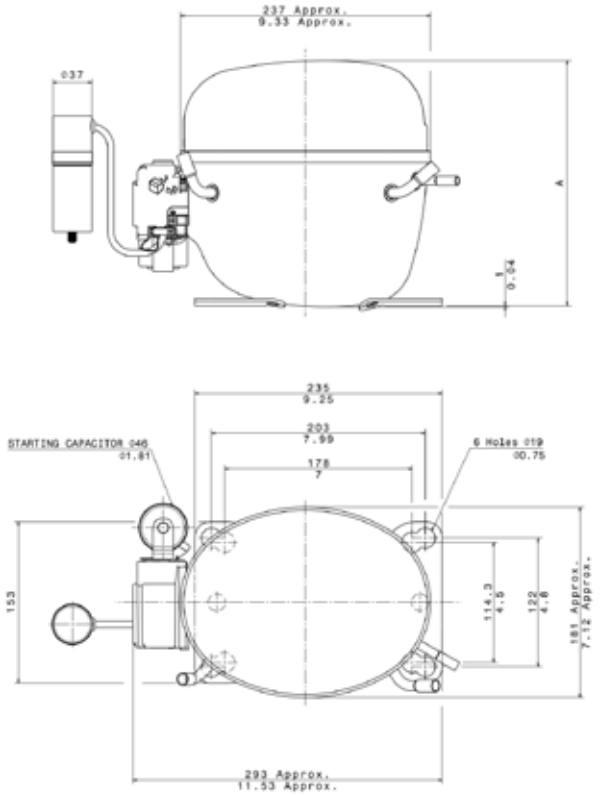
X range



	Designation
1	Service
2	Suction
3	Discharge

	A (mm)
Xc	215
Xd	221

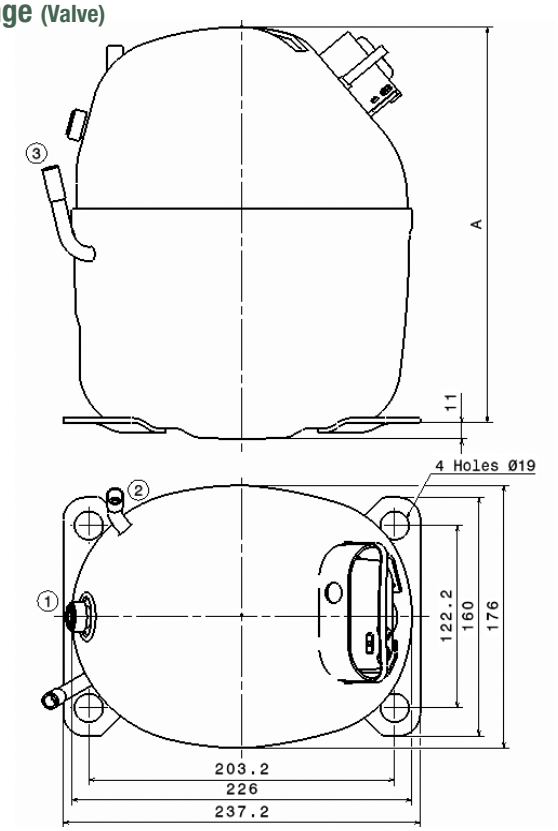
X+ range



	Designation
1	Suction
2	Service
3	Discharge

	A (mm)
X+b	226.5
X+c	232.5

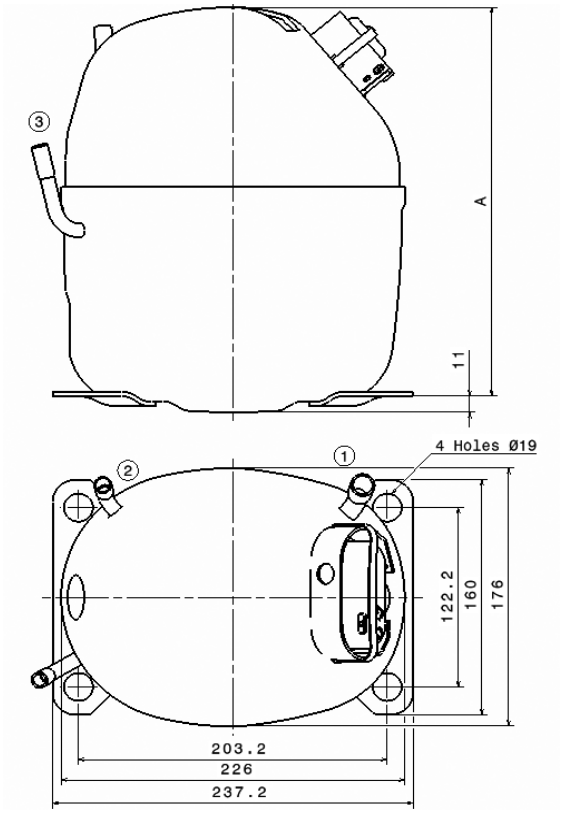
S range (Valve)



	Designation
1	Service valve
2	Service
3	Discharge

	A (mm)
Sb	252
Sc	265
Sd	276

S range (Tube)

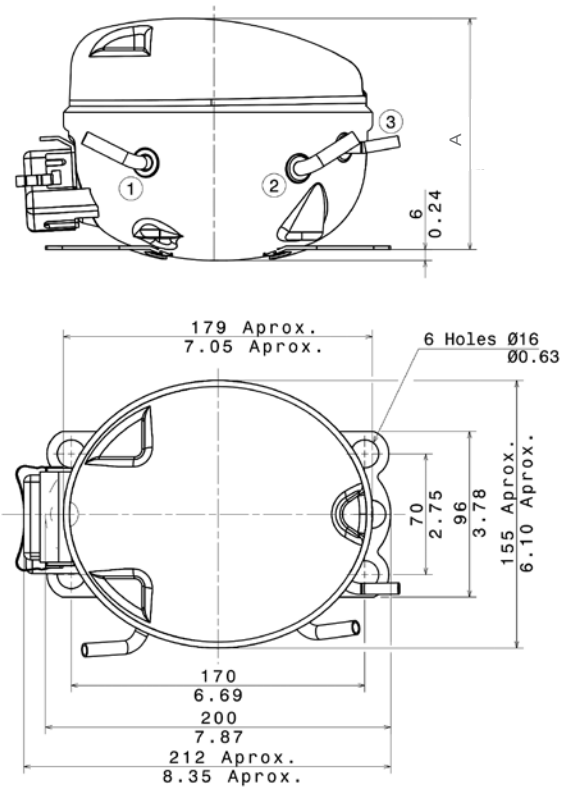


	Designation
1	Suction
2	Service
3	Discharge

	A (mm)
Sb	252
Sc	265
Sd	276

Variable Speed Compressors

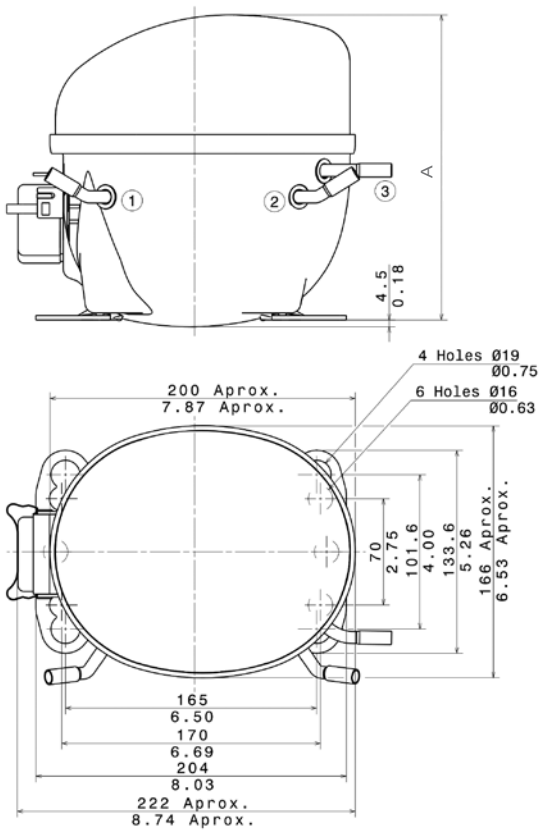
NVT/NVS Range



	Designation
1	Suction
2	Service
3	Discharge

	A (mm)
Vb	149

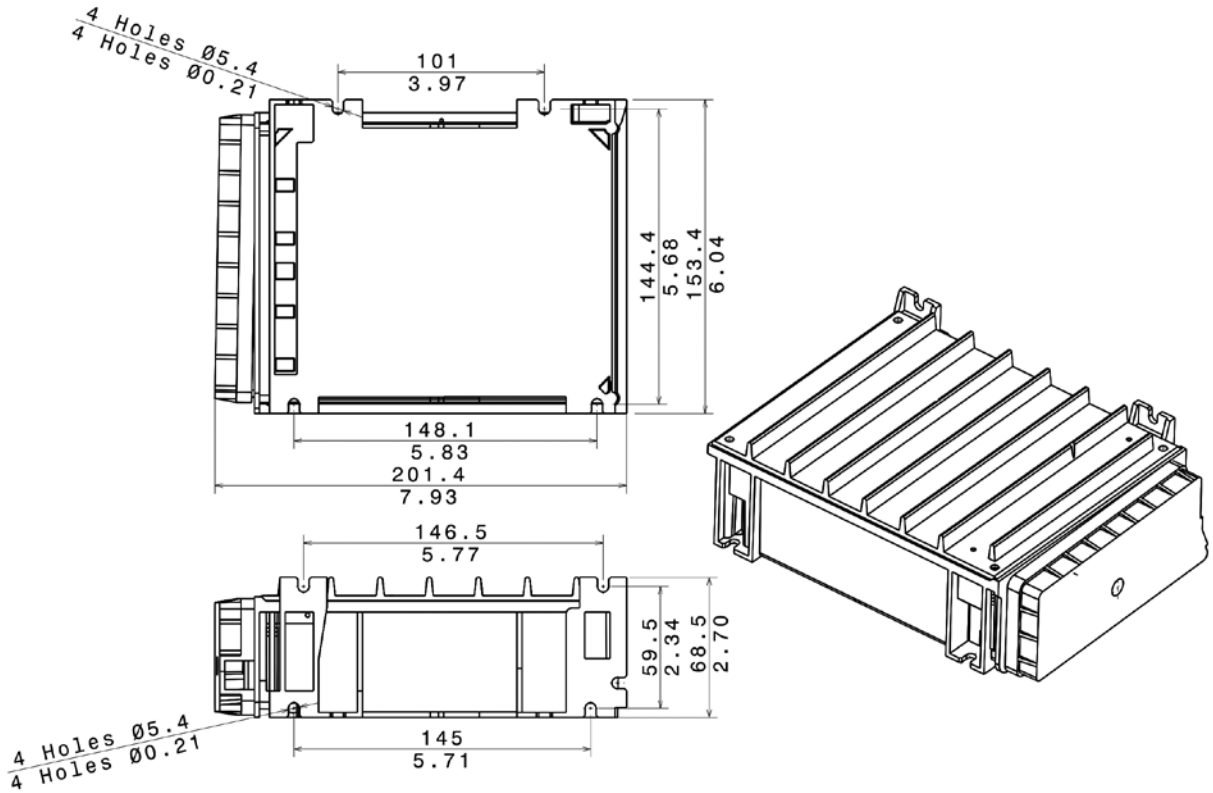
NUS/NUD Range



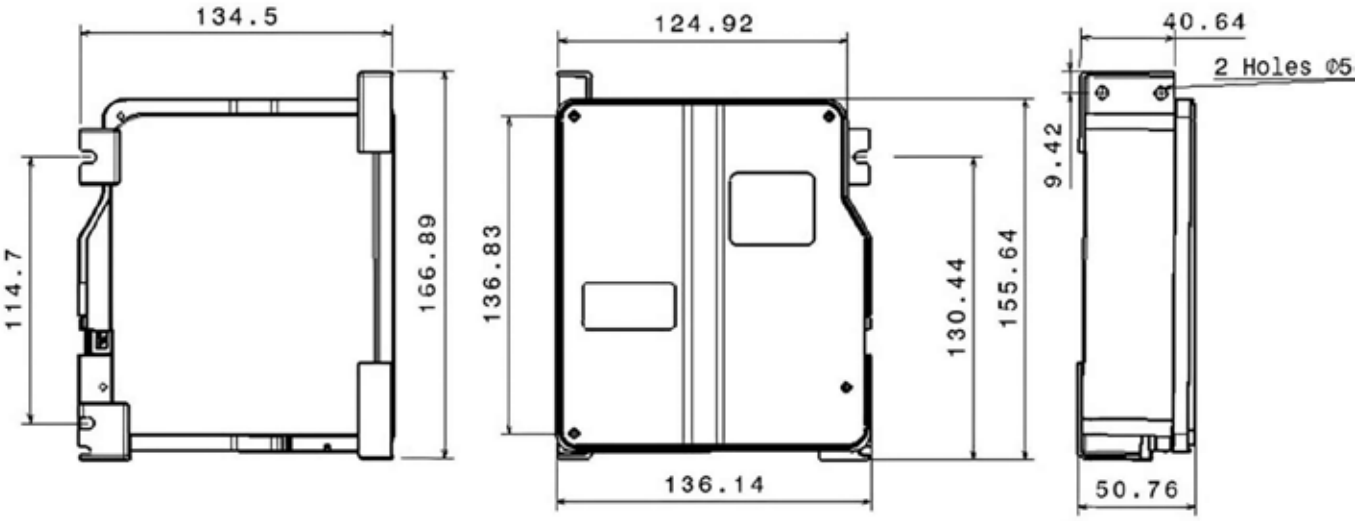
	Designation
1	Service
2	Suction
3	Discharge

	A (mm)
Uv	201

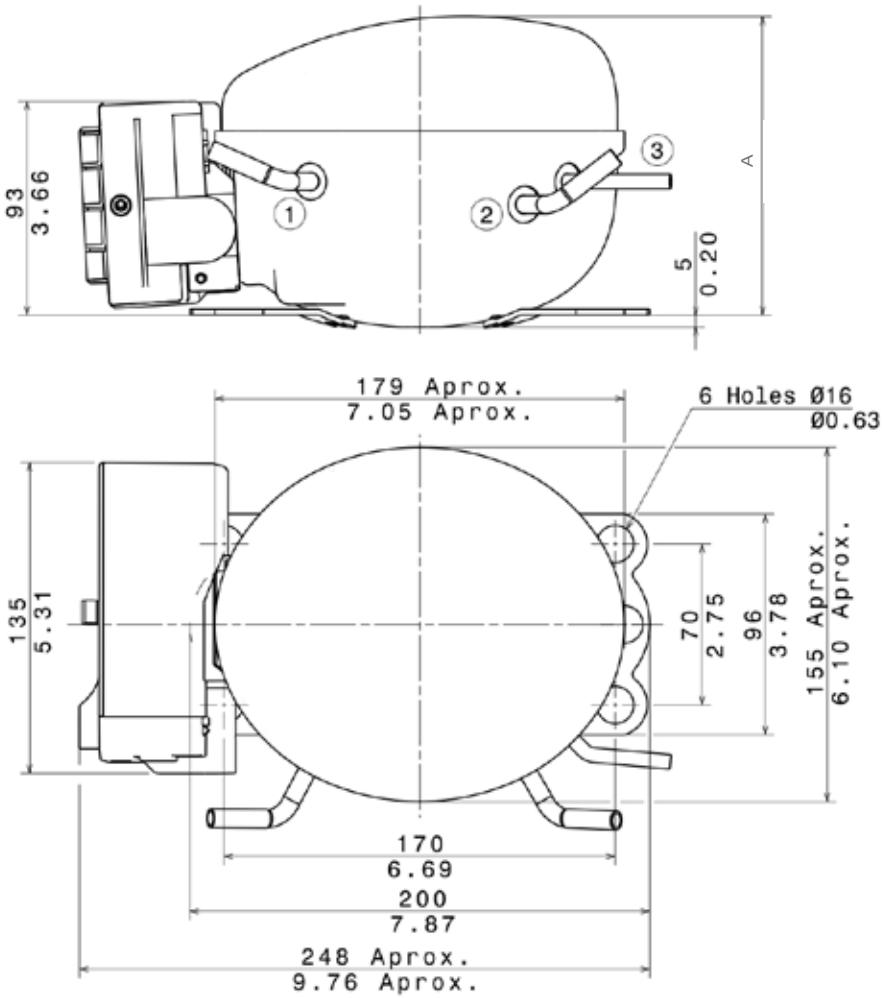
Electronic Driver for NUS/NUD Range



Electronic Driver for NVT/NVS/NMD Range

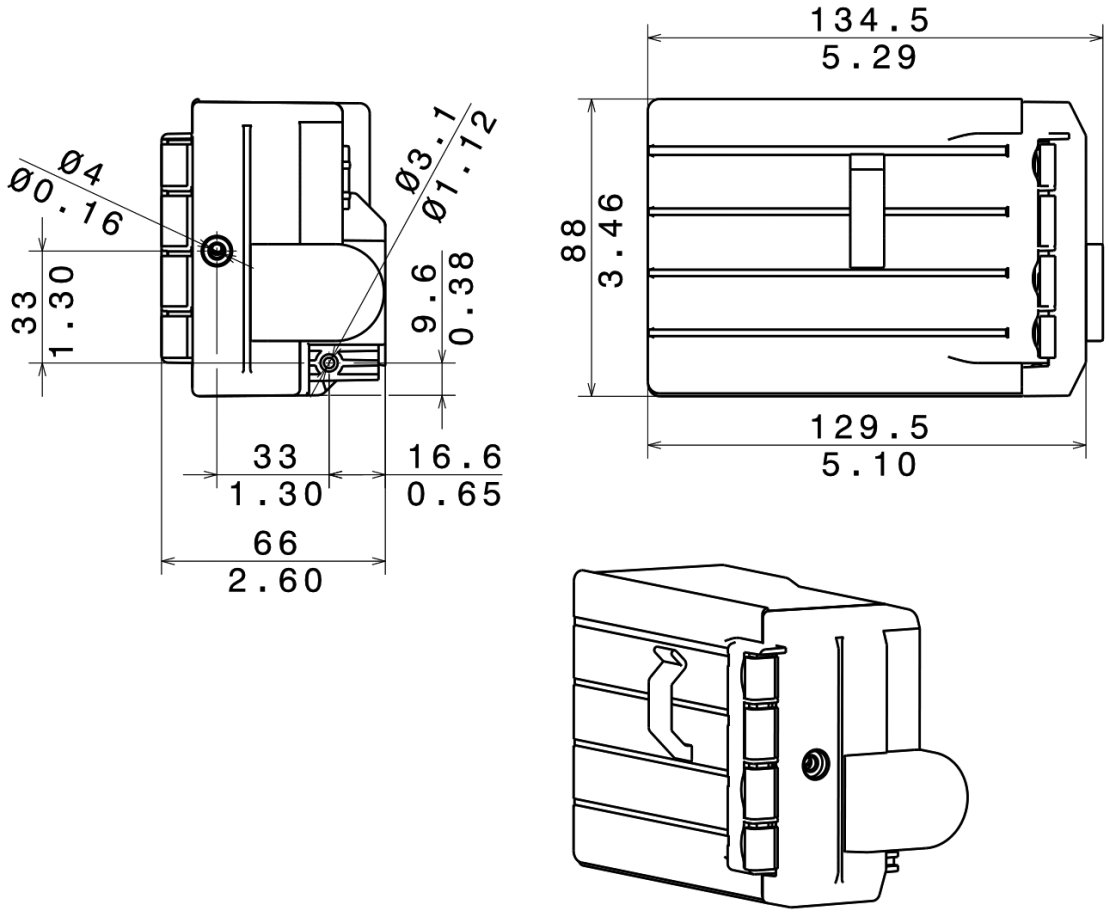


HVM VSC range



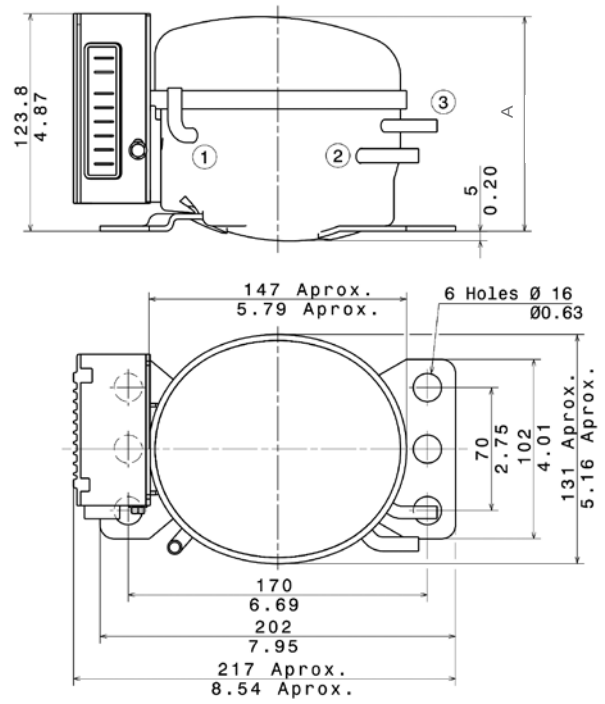
	Designation
1	Service
2	Suction
3	Discharge

	A (mm)
HVMb	124
HVMc	129
HVMd	134


Ø4
Ø0.16
Ø3.1
Ø1.12
33
1.30
9.6
0.38
33
1.30
16.6
0.65
66
2.60
134.5
5.29
88
3.46
129.5
5.10

12-42V DC Compressors

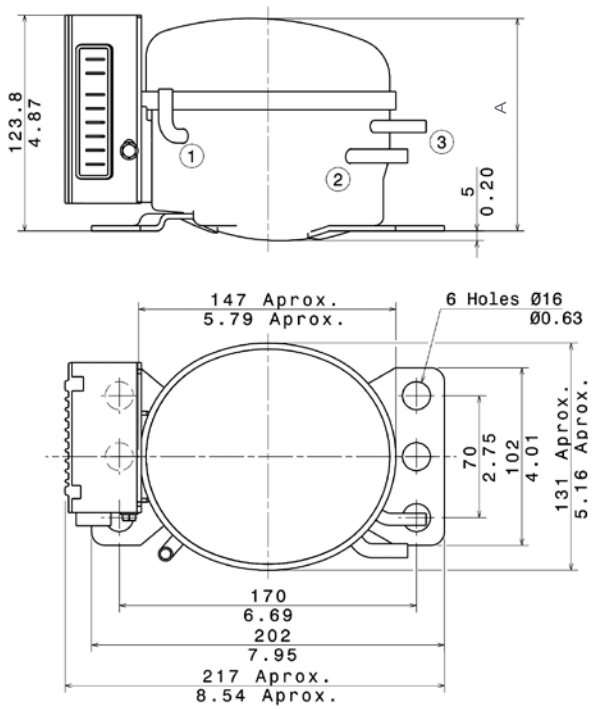
DL range



	Designation
1	Suction
2	Service
3	Discharge

	A (mm)
DLb	123.8

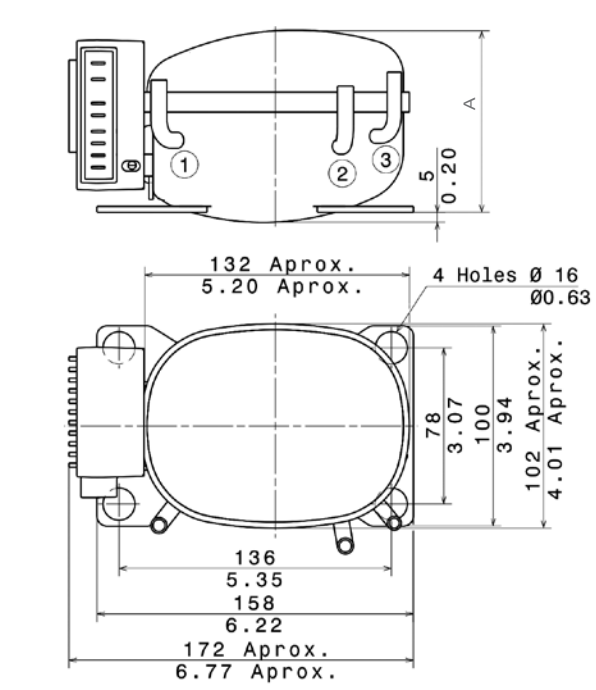
VDL range



	Designation
1	Suction
2	Service
3	Discharge

	A (mm)
VDLb	131.6

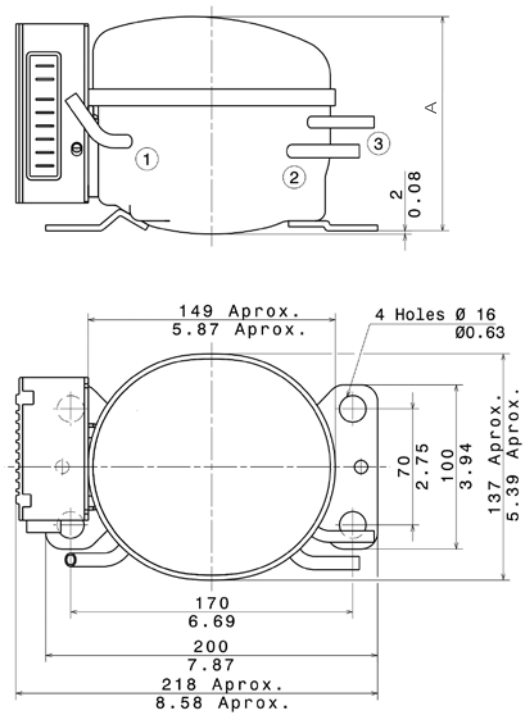
DM range



	Designation
1	Suction
2	Service
3	Discharge

	A (mm)
DMb	91

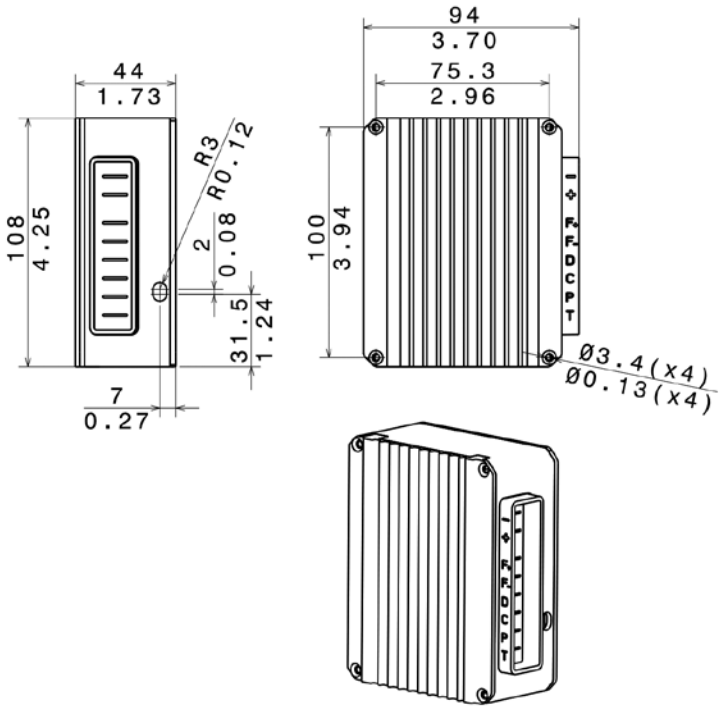
DK range



	Designation
1	Suction
2	Service
3	Discharge

	A (mm)
DKb	135

Electronic driver DC (DL, DM, DK)



Fixings

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

Mounting feet

Range	Mounting feet	
Small L, HL, HK	Set of 4 holes of 16mm DIA with inter-axes: 70x170mm	
B, HY, F, L, , U, U+, P+	European type Set of 4 holes of 16 mm DIA with inter-axes: 70 x 170 mm	American type Two sets of 4 holes: 1.- Set of 16 mm DIA with inter-axes: 70 x 170 mm 2.- Set of ¾ inch (19 mm) DIA with inter-axes: 4 x 61/2 inch (101.6 x 165 mm)
X	One set of 4 holes of 19 mm (¾ inch) DIA with inter-axes: 114.3 x178 mm (41/2 x 7 inch)	
X+	American type Two sets of 4 holes: 1.- Set of 16 mm DIA with inter-axes: 114,3 x 178 mm 2.- Set of ¾ inch (19 mm) DIA with inter-axes: 122 x 203 mm	
S	One set of 4 holes of 19 mm (¾ inch) DIA with inter-axes: 122.2 x 203.2 mm (413/16 x 7 7/8 inch)	

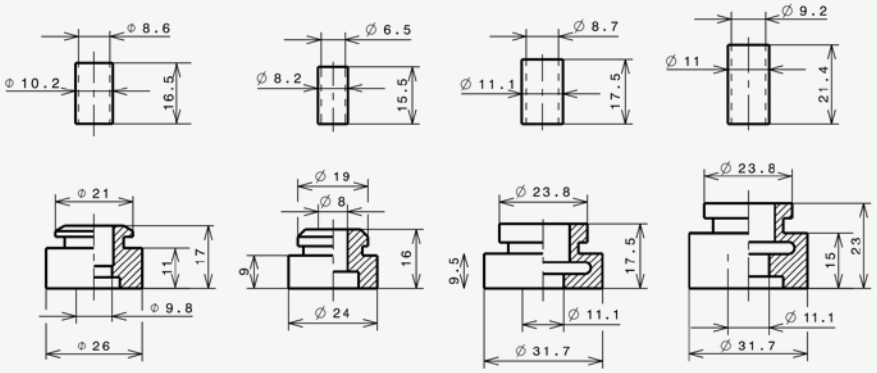
Silent Blocks (Mounting accessories)

STANDARD
Small L & B
D.16 holds net

STANDARD
D.16 holds net

AMERICAN FEET
D.19 holds net

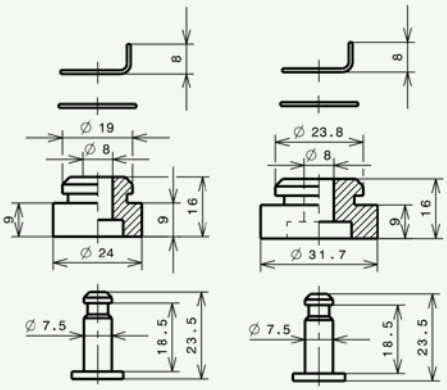
STANDARD X & S
D.19 holds net



1. Mounting sleeve 2. Silent block

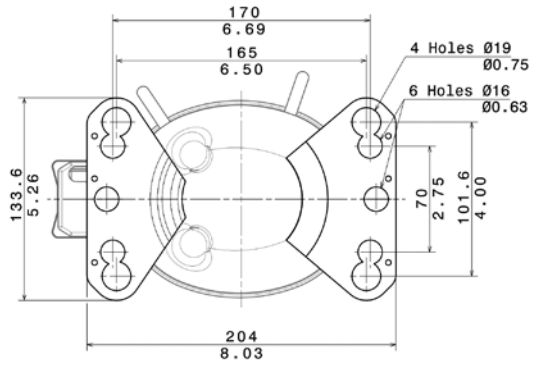
SNAP-ON
D. 16 holds net

AMERICAN SNAP-ON
D.19 holds net

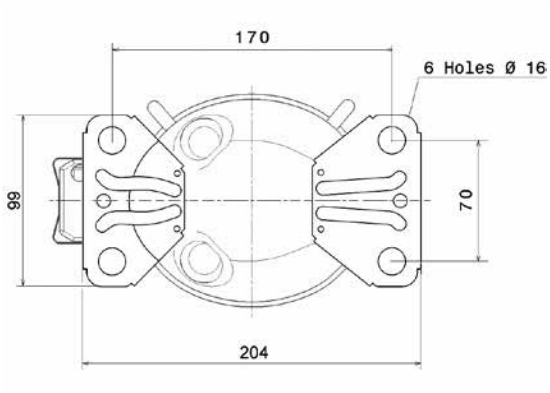


1. Clip 2. Washer 4. Axis

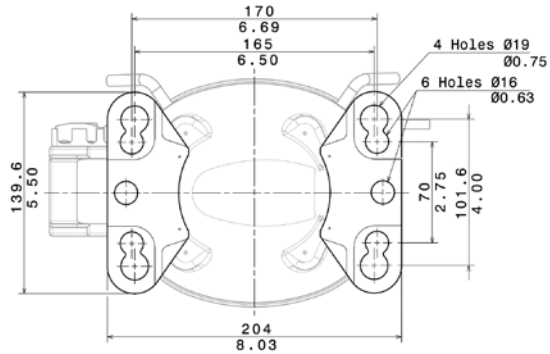
B Range (American mounting feet)



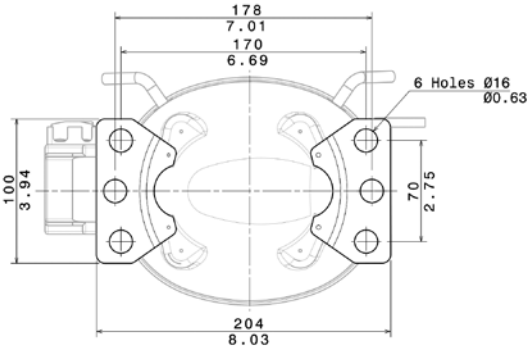
Small L & B Range (European mounting feet)



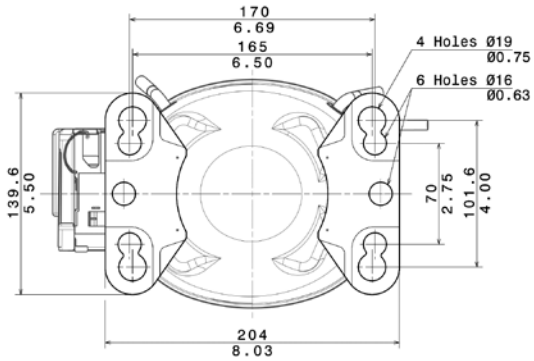
HY Range (American mounting feet)



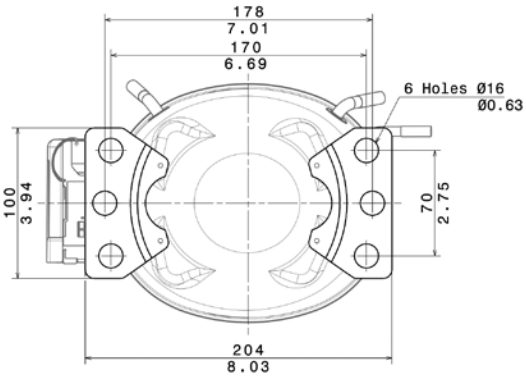
HY Range (European mounting feet)



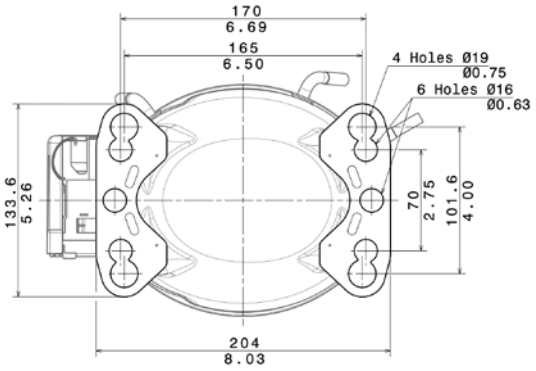
F, U & U+ Range (American mounting feet)



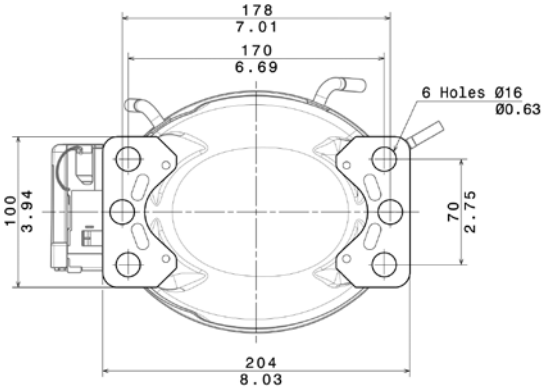
F, U & U+ Range (European mounting feet)



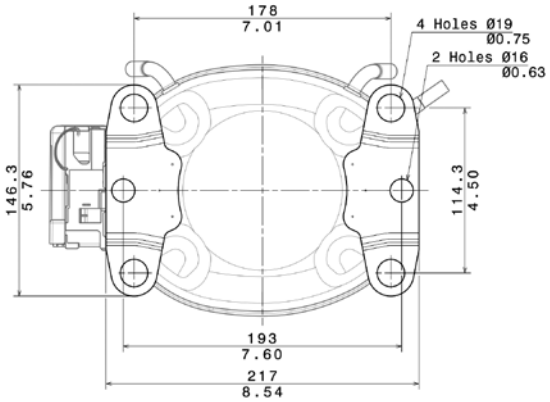
L, P & P+ Range (American mounting feet)



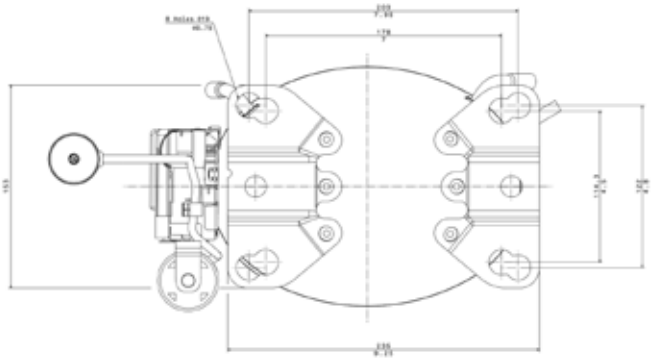
L, P & P+ Range (European mounting feet)



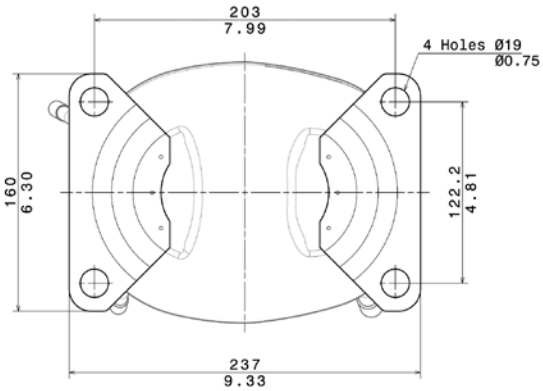
X Range



X+ Range

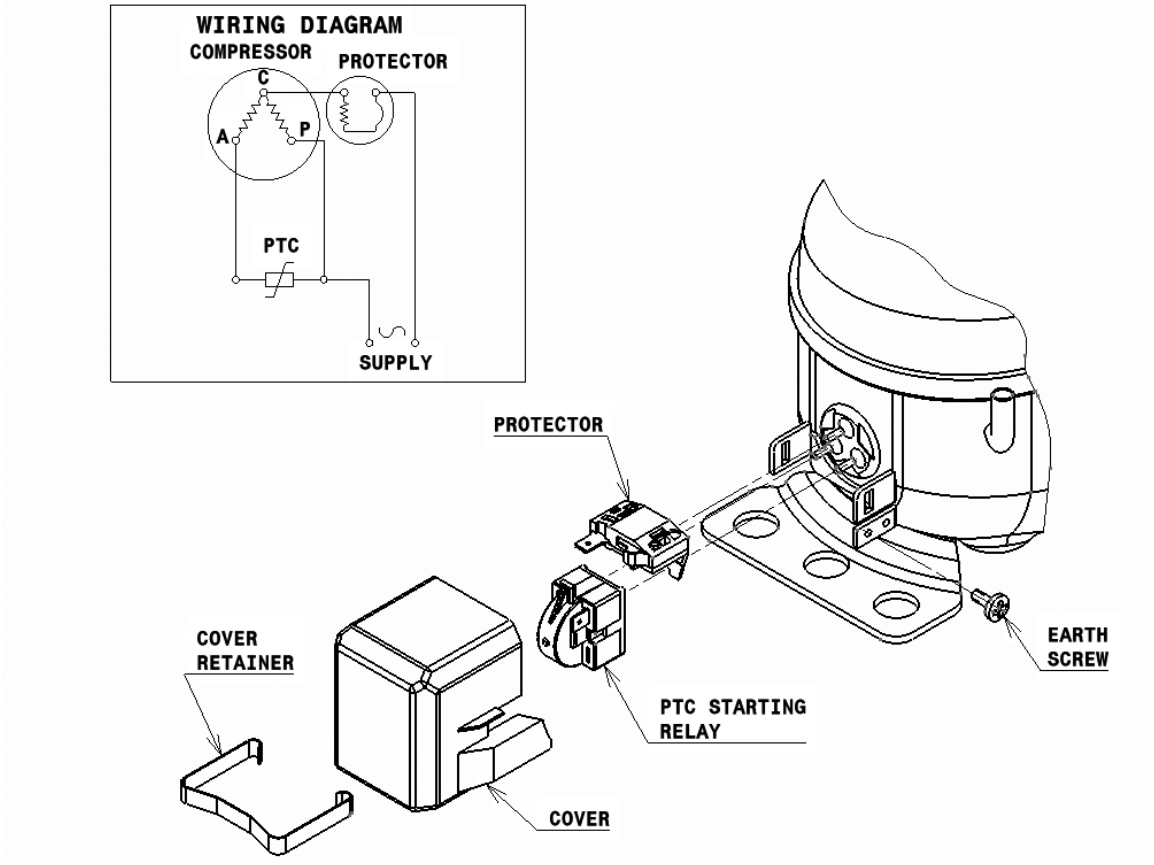


S Range

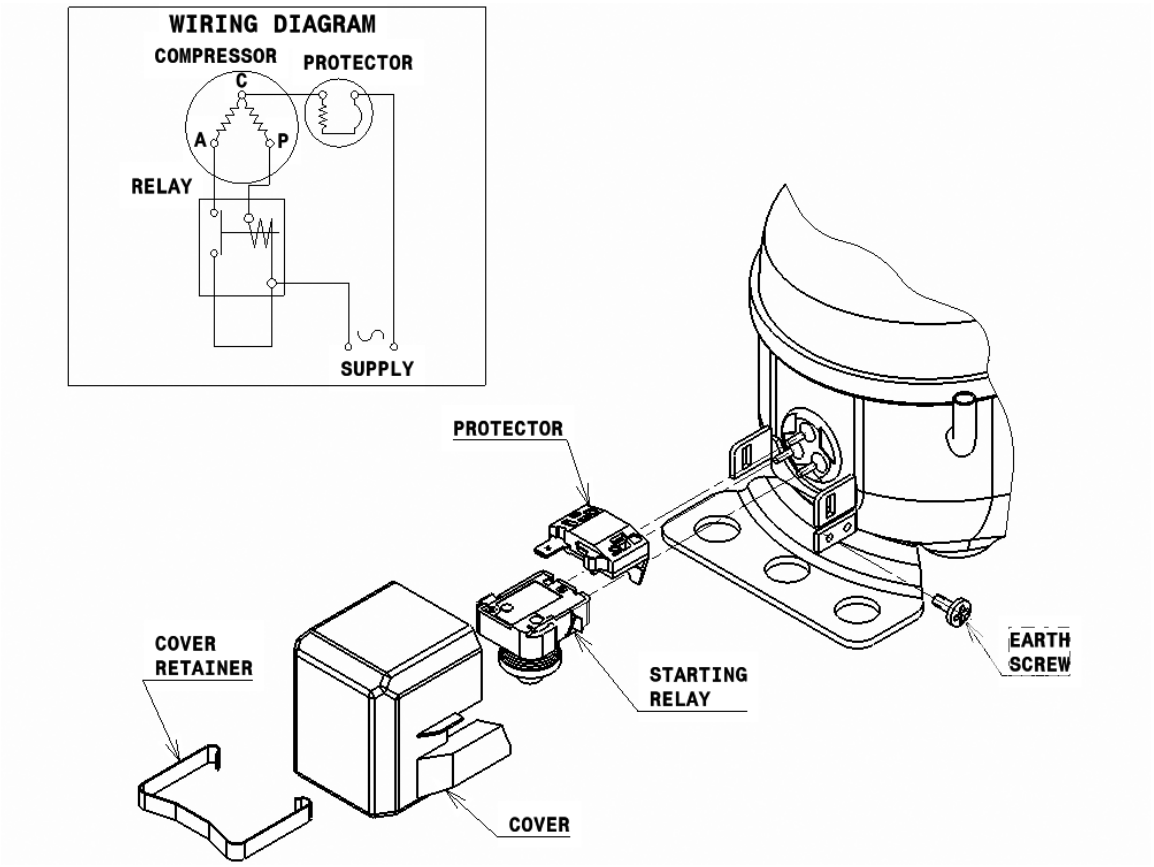


Wiring Diagrams and Electrical Assembly

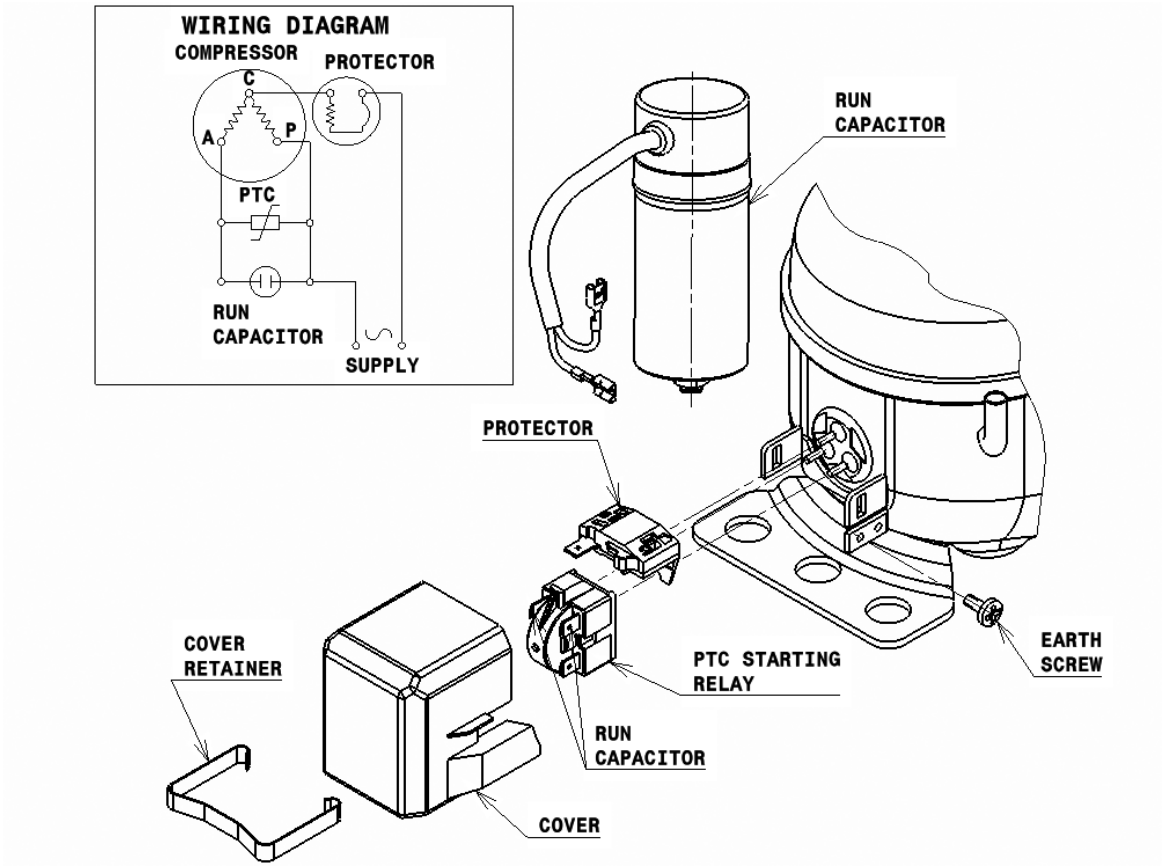
RSIR-PTC (Small L, B, HL and HK ranges)



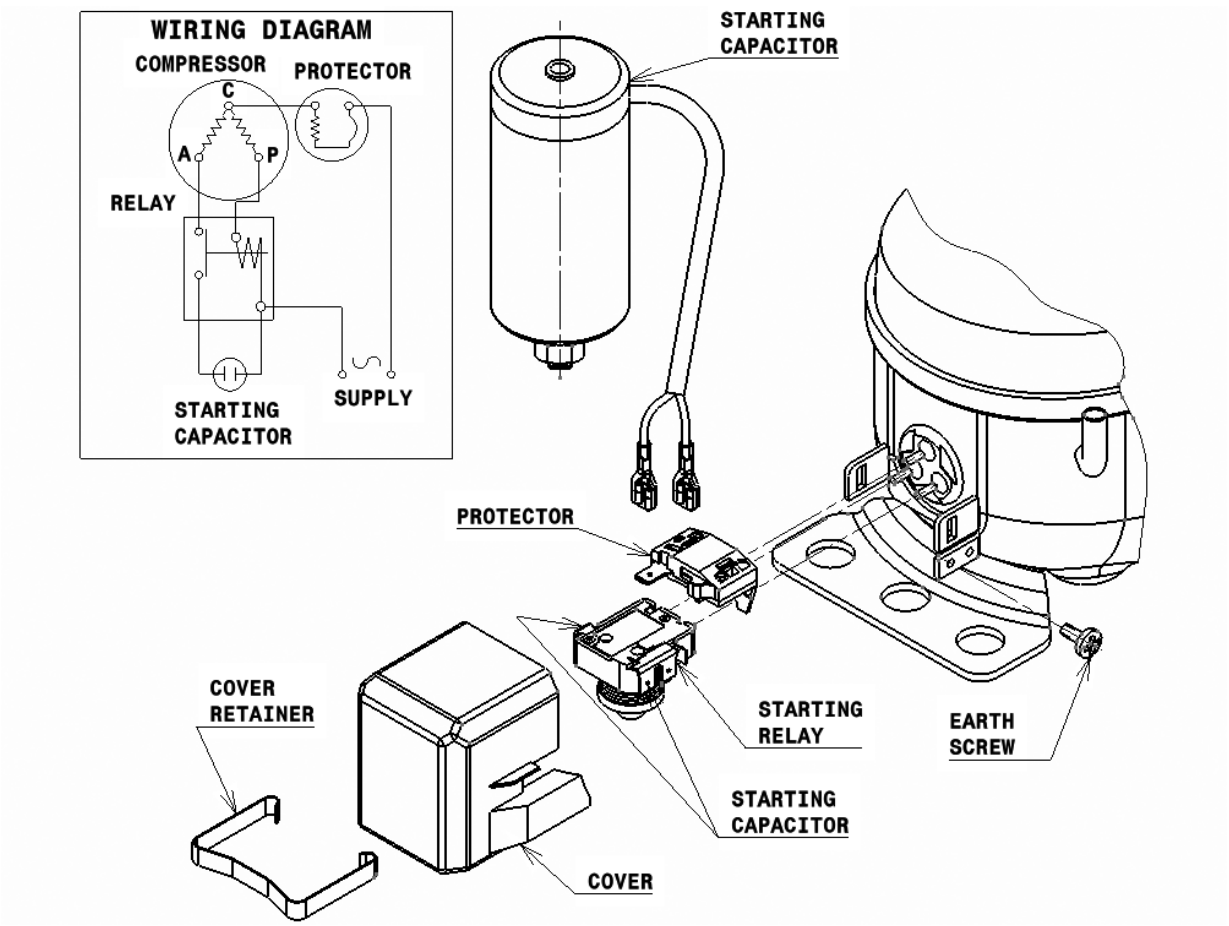
RSIR-Relay (Small L, B, HL and HK ranges)



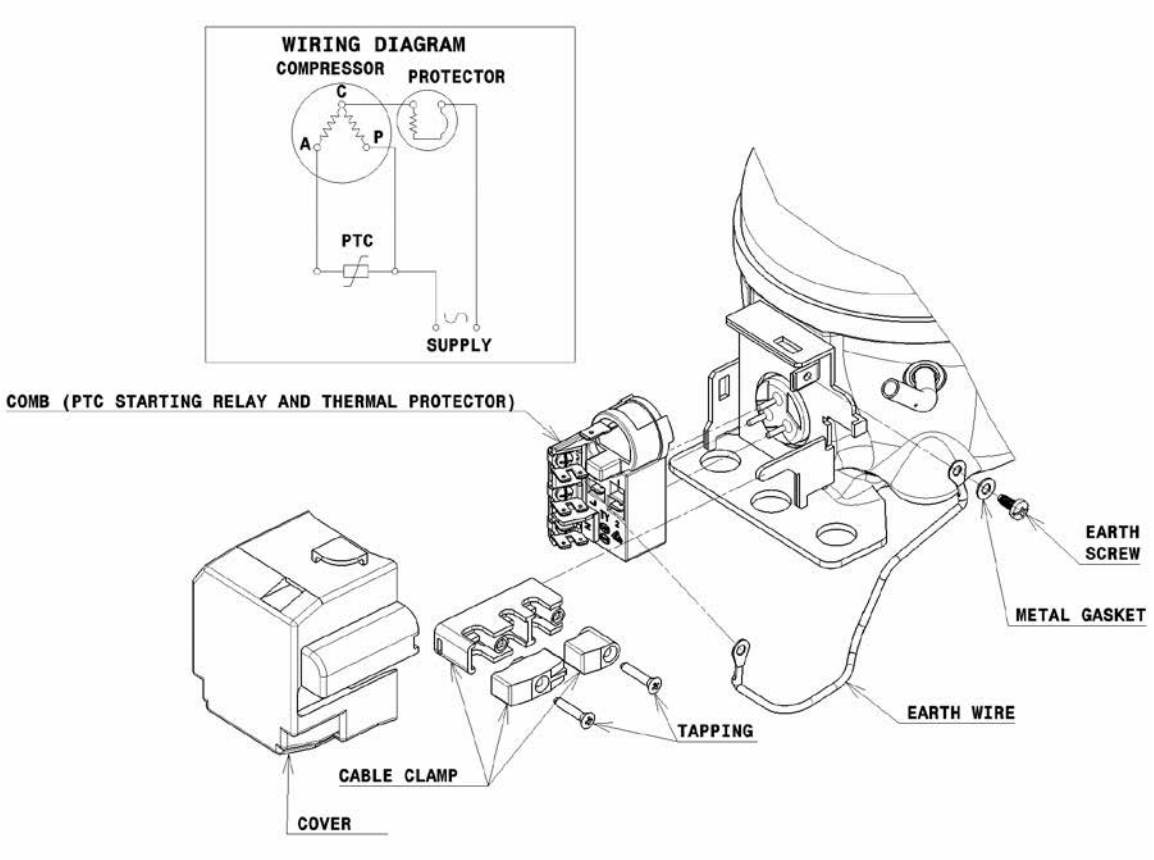
RSCR-PTC (Small L, B, HL and HK ranges)



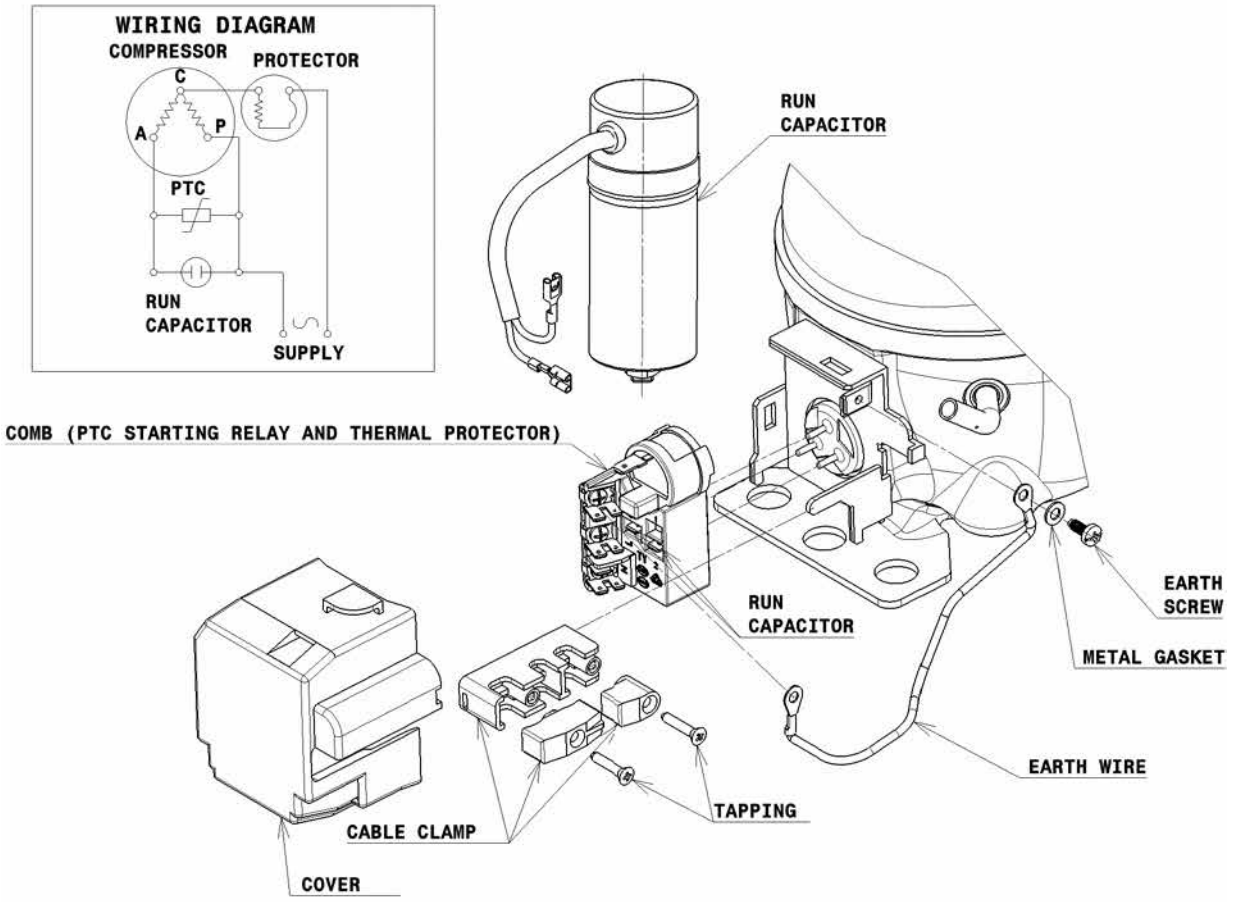
CSIR-RELAY (Small L, B, HL and HK ranges)



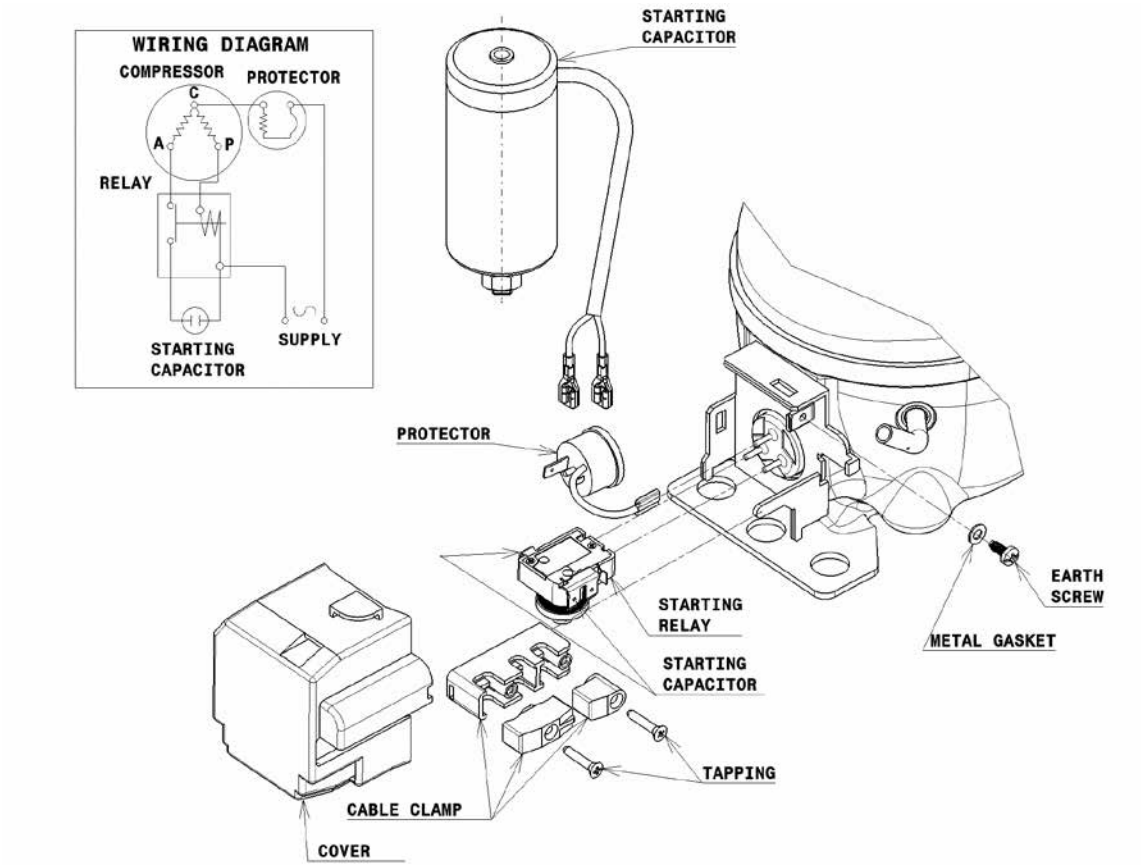
RSIR - (F, HY, HYE, HYB, HYS, HFY and NUM)



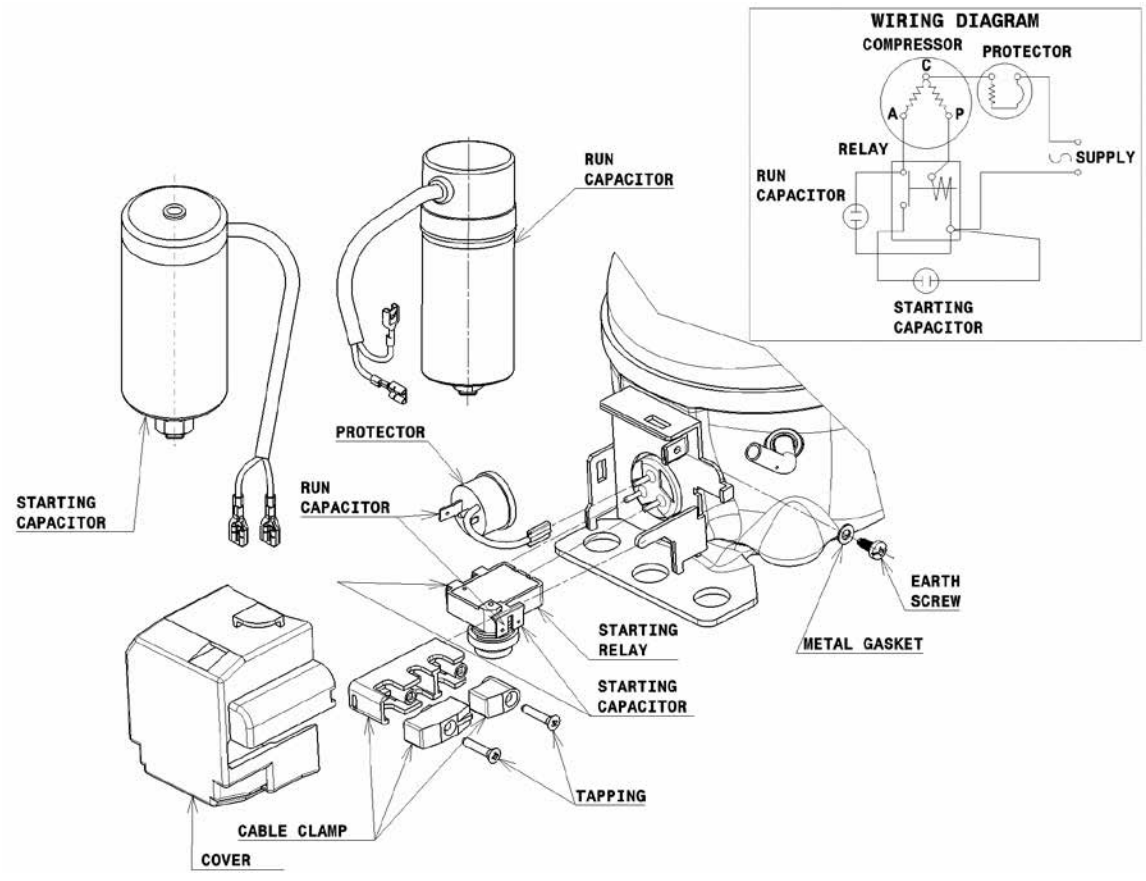
RSCR - (F, HY, HYE, HYB, HYS, HFY and NUM)



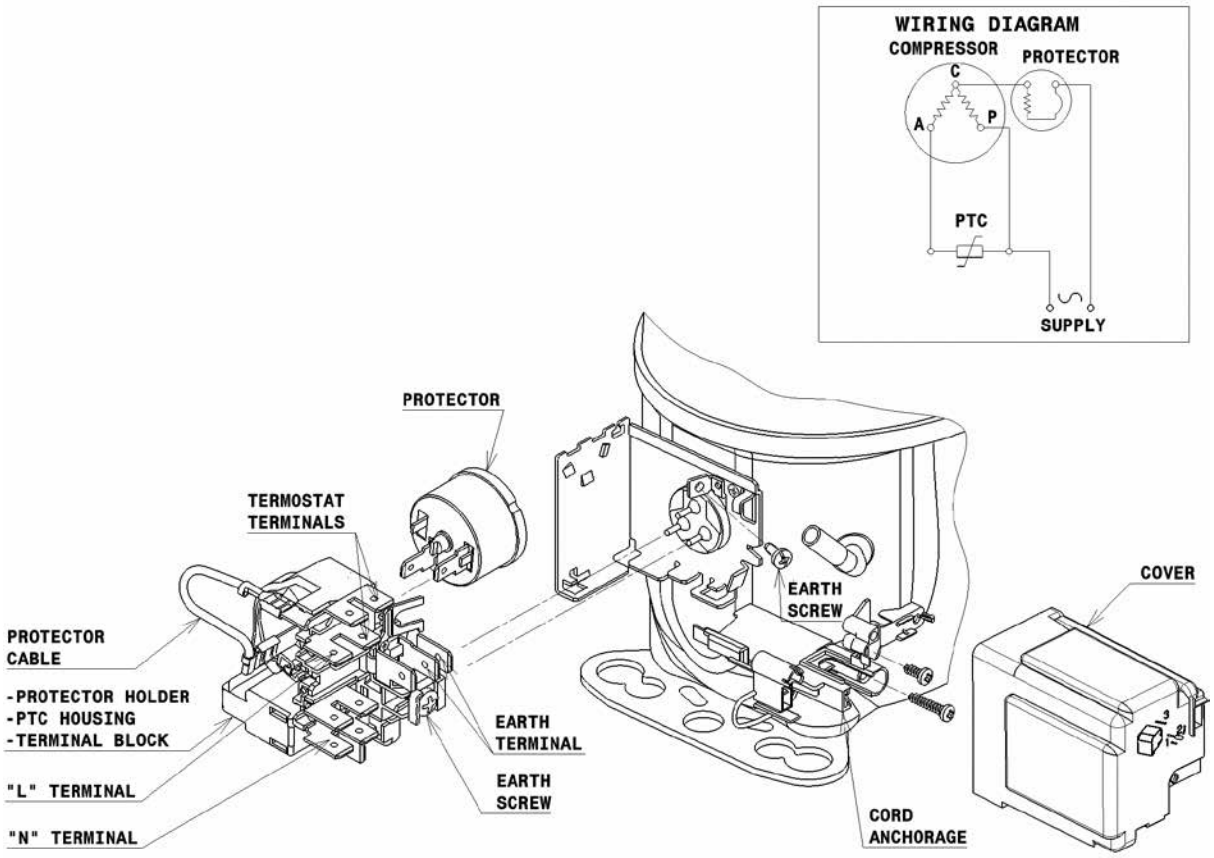
CSIR- RELAY (F, HY, HYE, HYB, HYS, HFY and NUM)



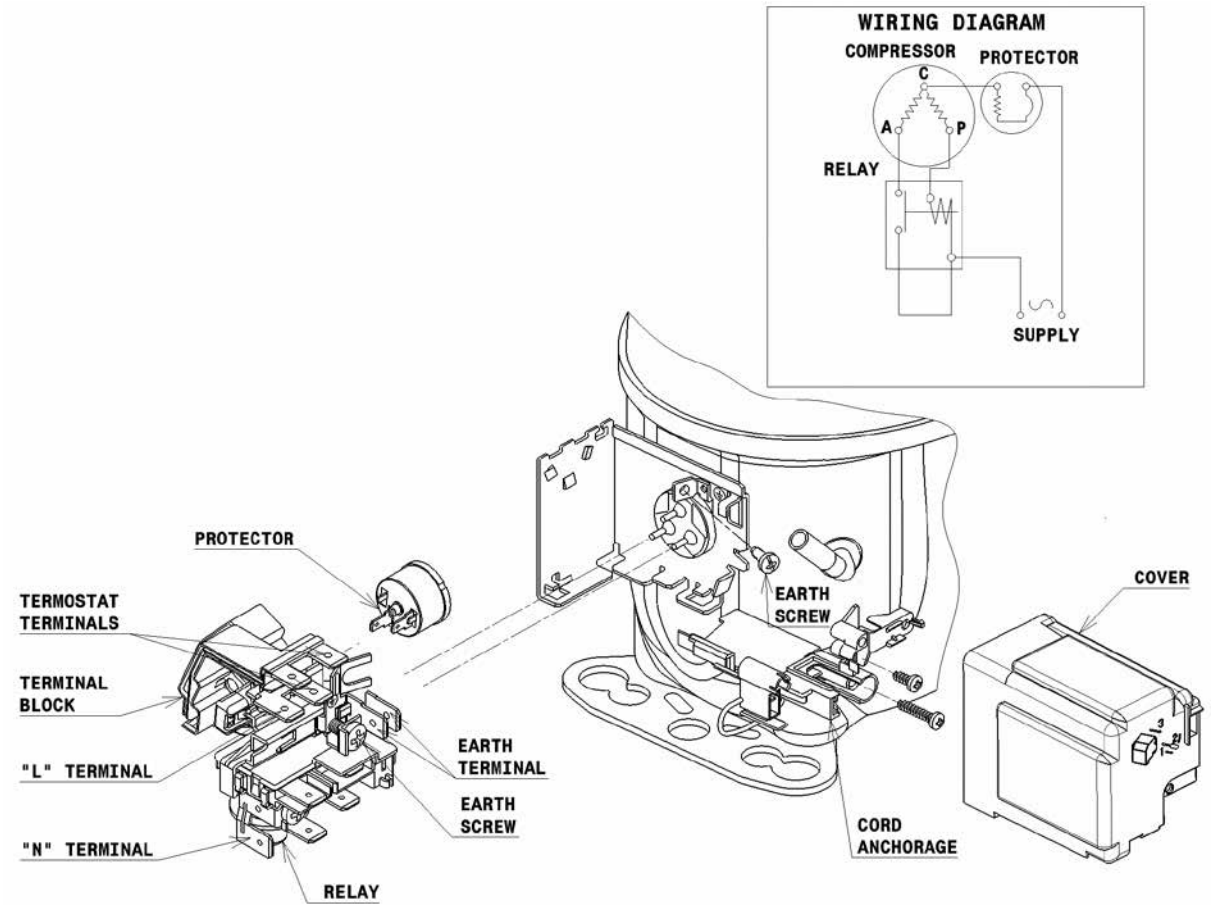
CSR - RELAY (F, HY, HYE, HYB, HYS, HFY and NUM)



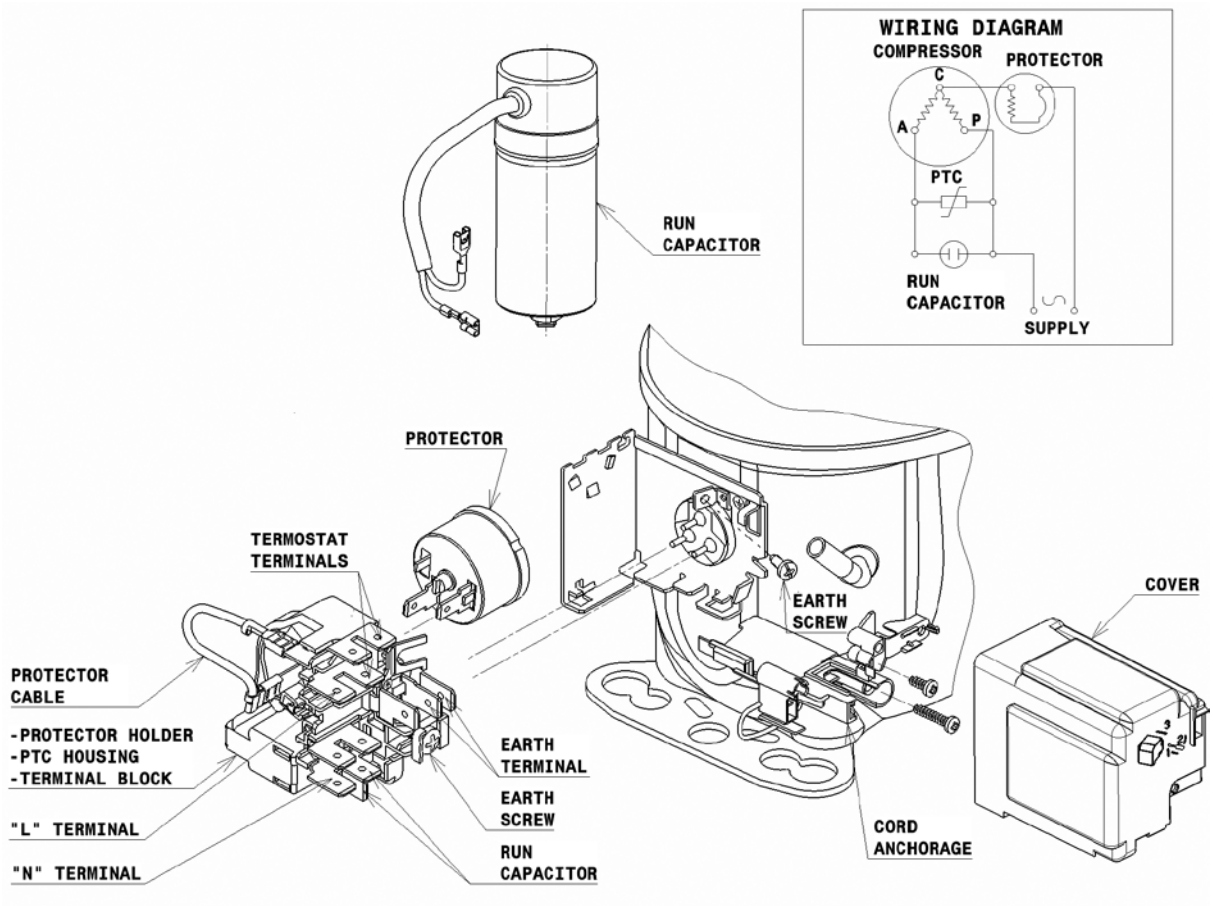
RSIR-PTC (L, U, U+ ,P and P+ ranges)



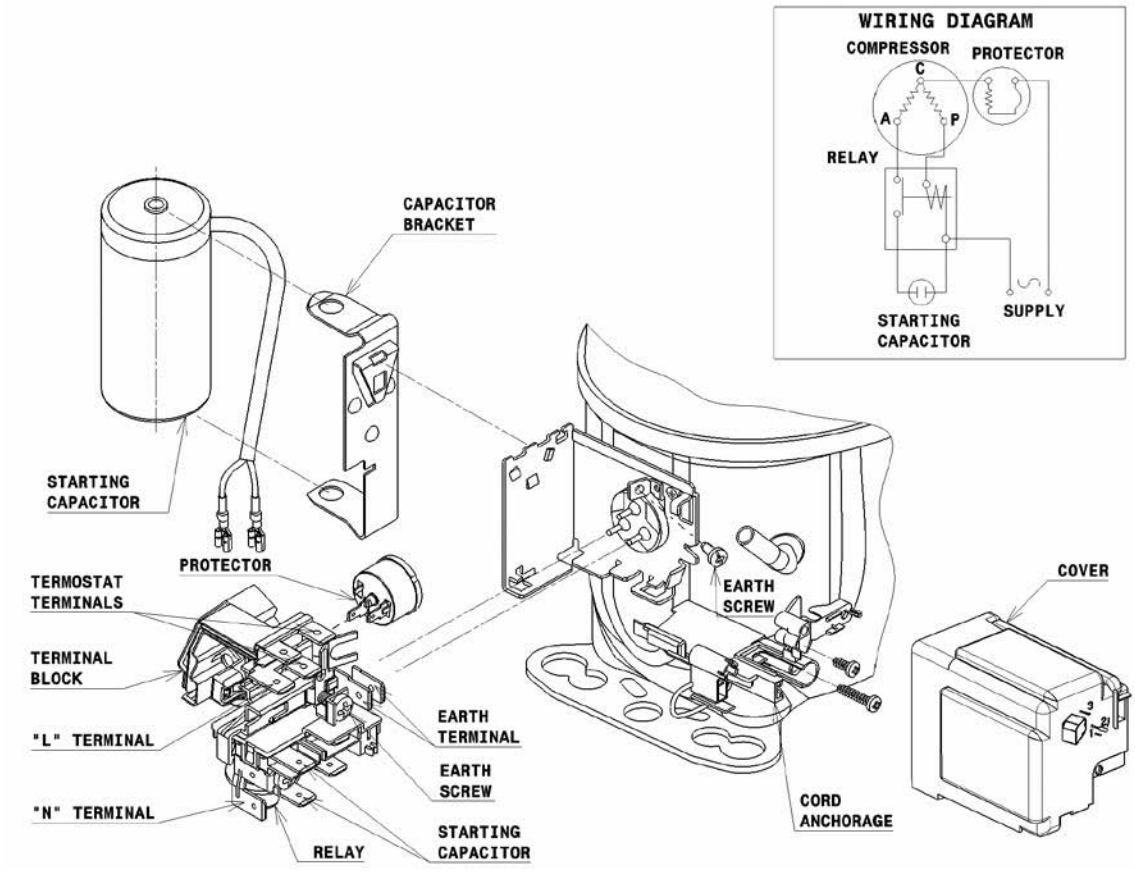
RSIR-Relay (L, U, U+ ,P and P+ ranges)



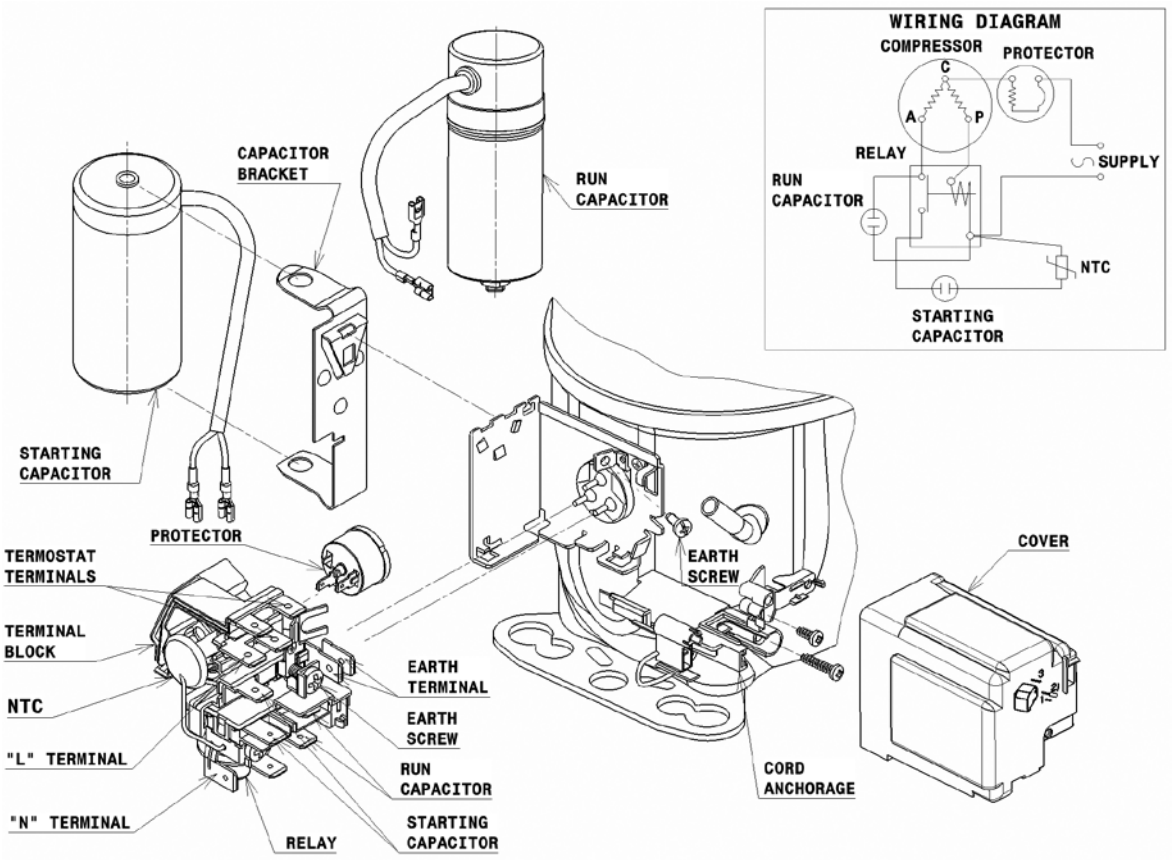
RSCR-PTC (L, U, U+, X+, P and P+ ranges)



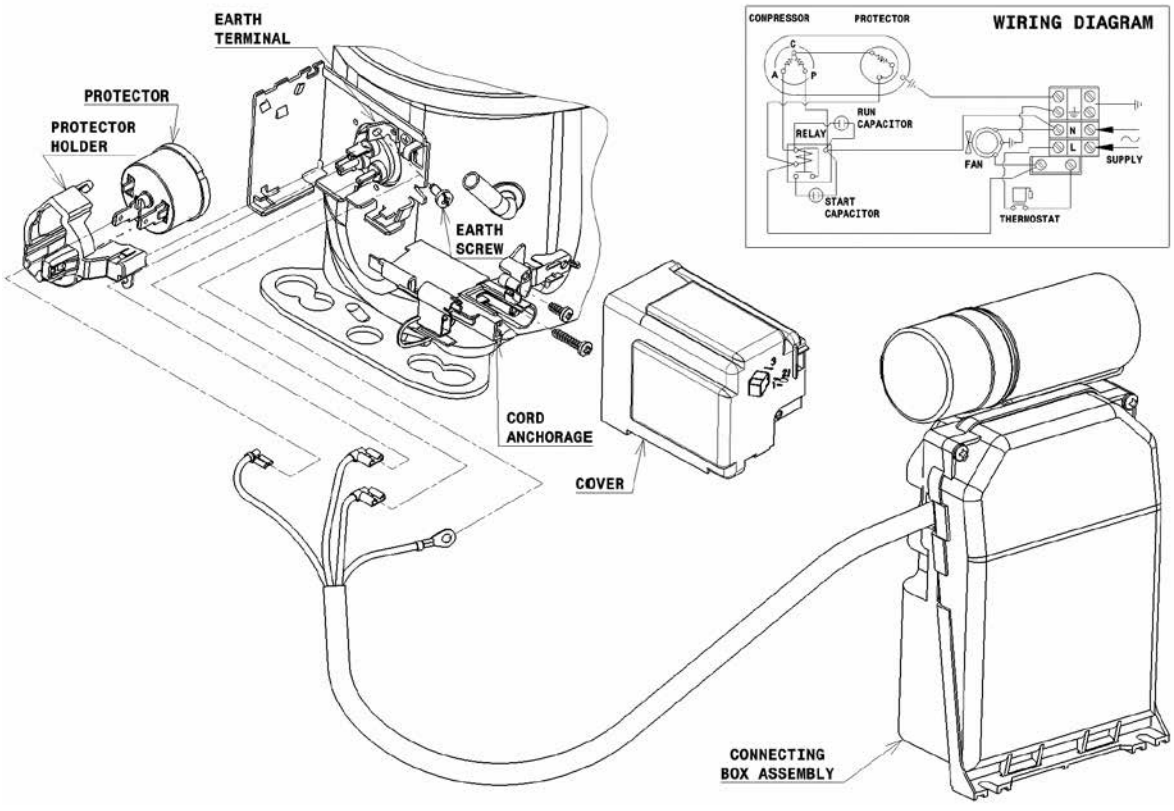
CSIR-RELAY (L, U, U+, X+, P and P+ ranges)



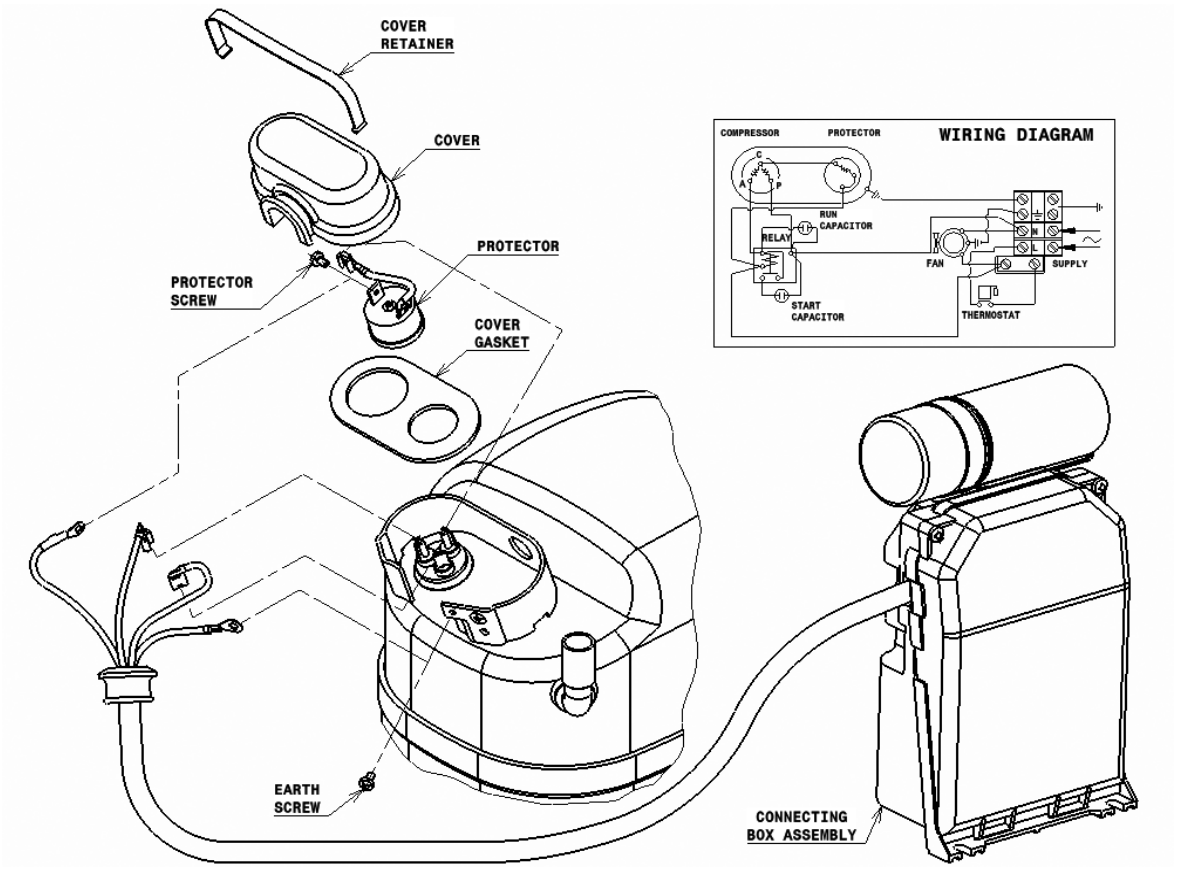
CSR-NTC-RELAY (L, U, U+, P, P+, X and X+ ranges)



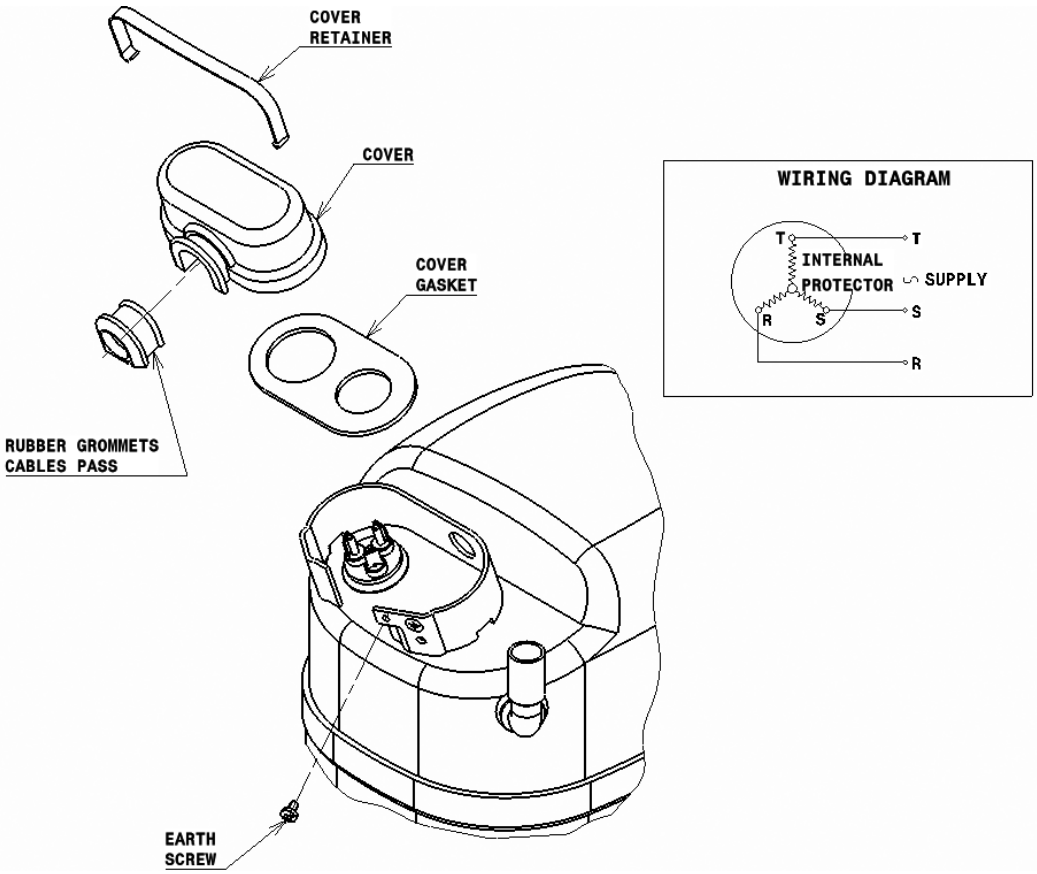
CSR-CAJA-RELAY (P, X and X+ range)



CSR-CAJA-RELAY (S range)



3PH (S range)



Packaging & Logistics

Single Box

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

Tray

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

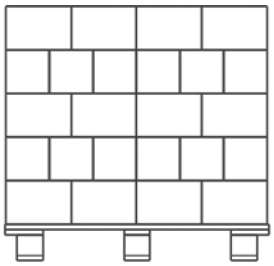
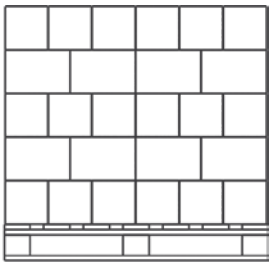
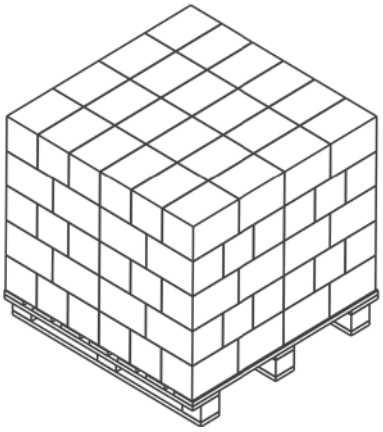
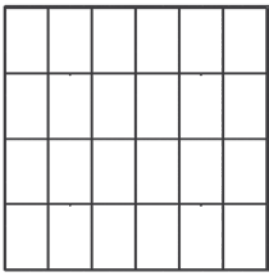
Quantities by Pallet Compressors

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

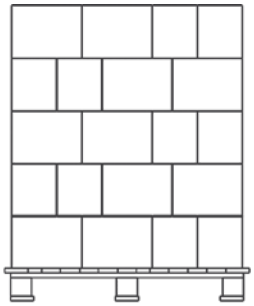
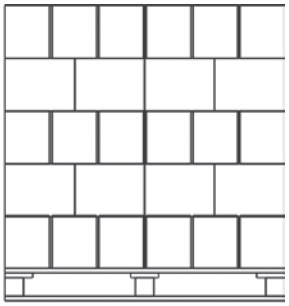
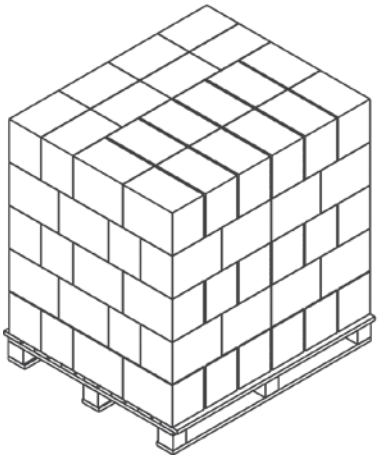
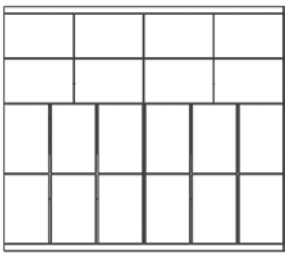
Pallet Product Layout

Single Box Pallet Distribution

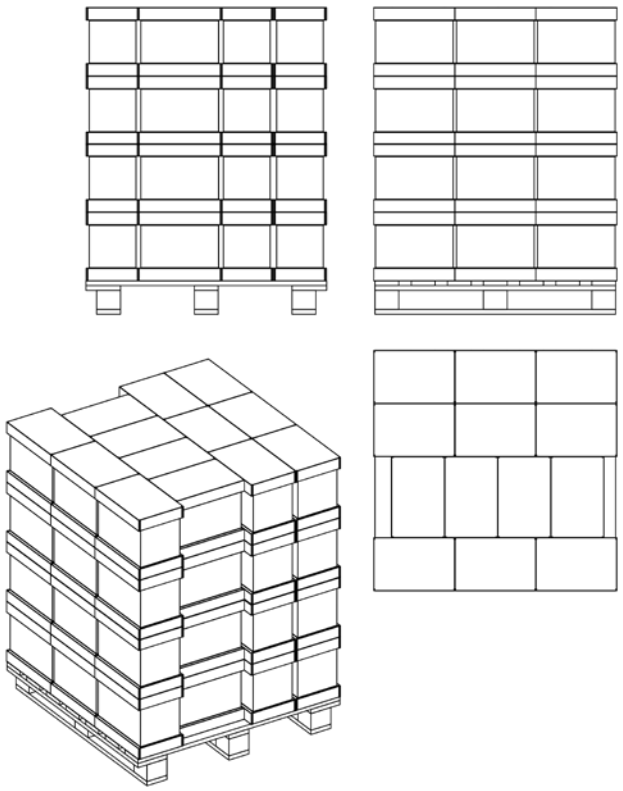
Small L , B , HL & HK

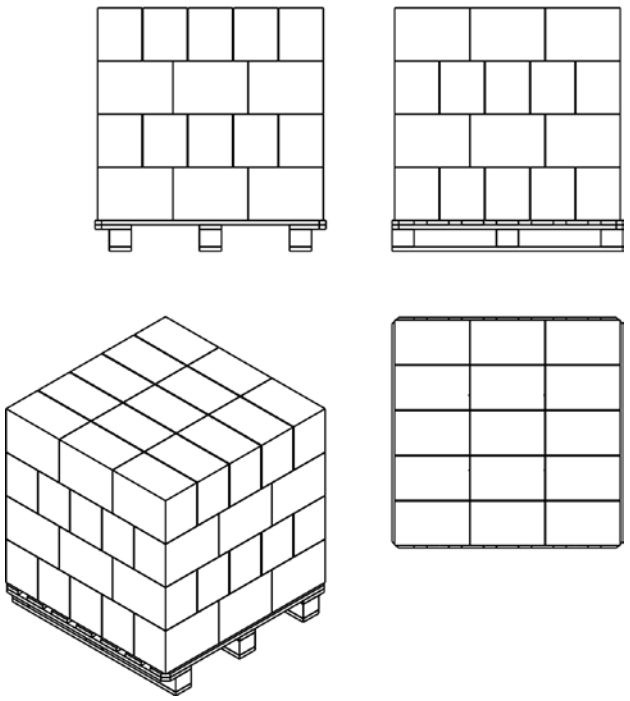
F, U+, L & P Ranges

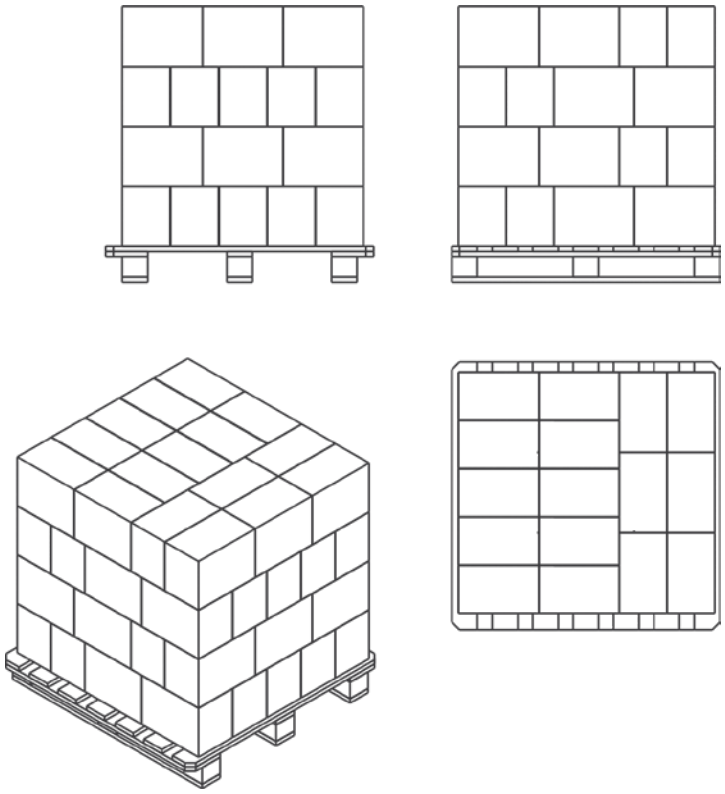
S Range



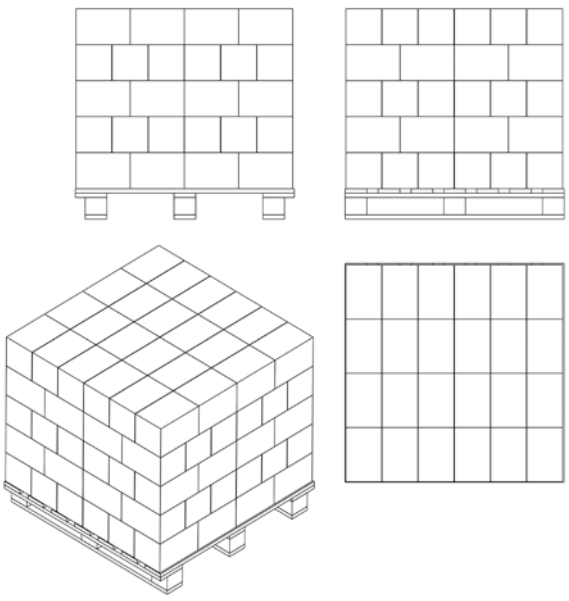
X Range (con caja conex.)



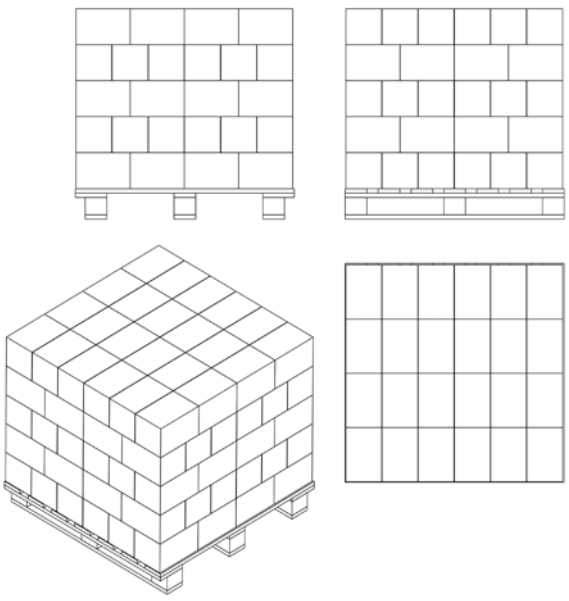
P+ & X Range (without external box)



Single box pallet distribution HY & HYE

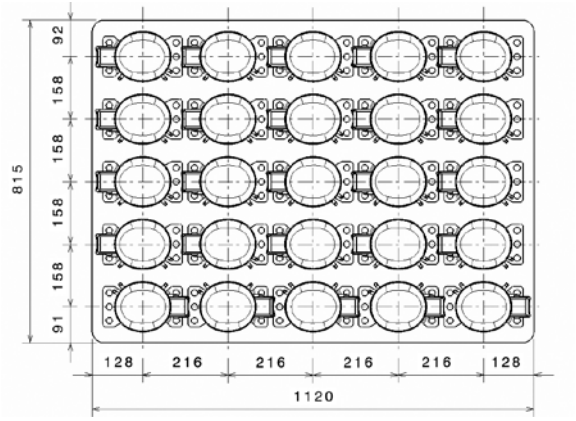


Single box pallet distribution HYB, HYS & HFY

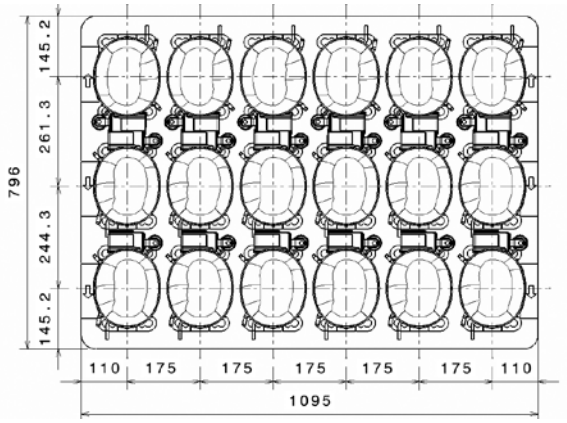


Tray per Pallet

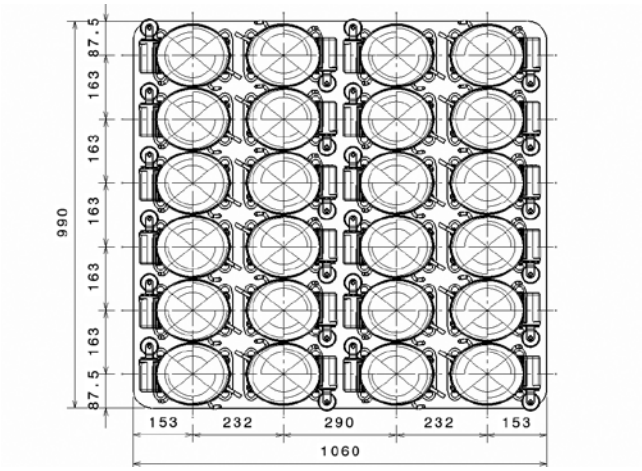
Small L, B, HL,HYB & HK



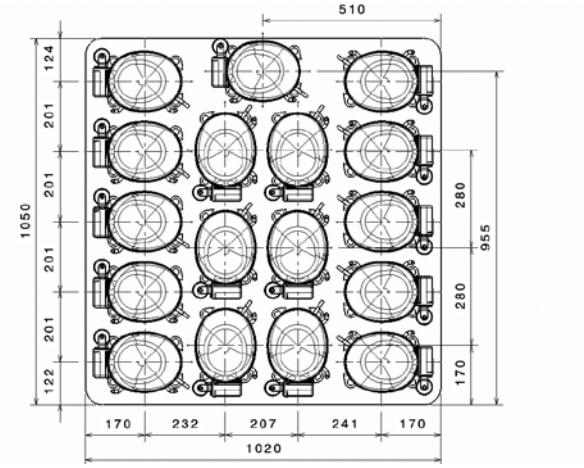
HYS, HYE, HY, HFY, U & U+



L & P



X



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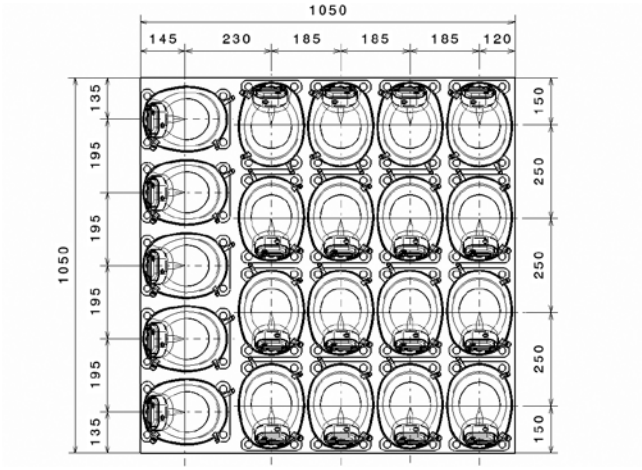
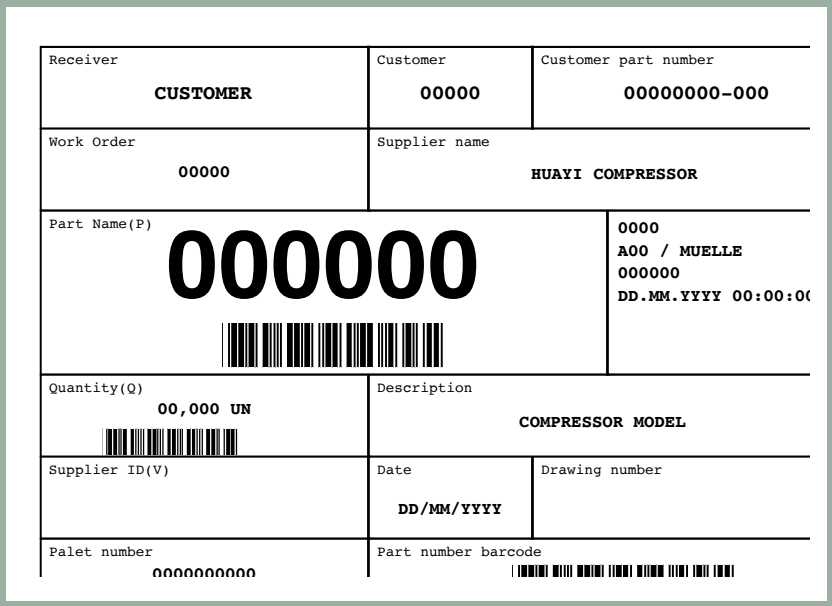
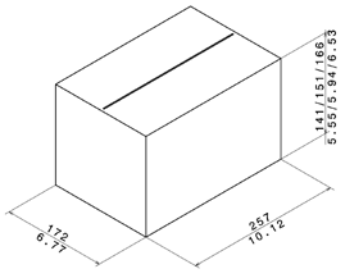


Pallet label

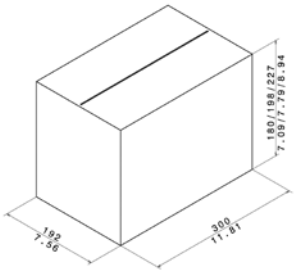


Single Boxes Drawings

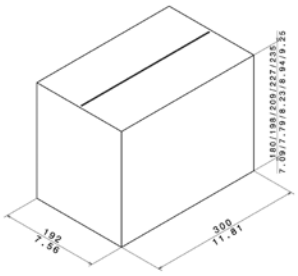
Small L, B, HL & HK



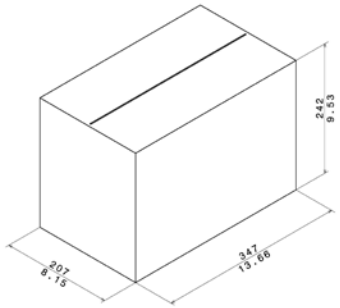
U & U+



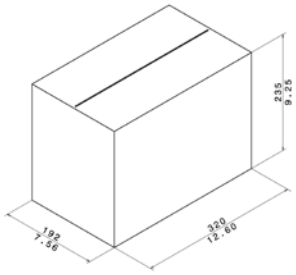
L & P Ranges



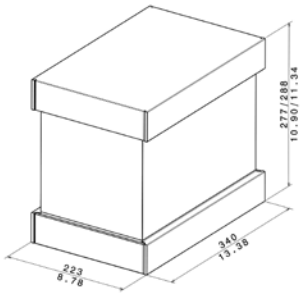
X with electric box



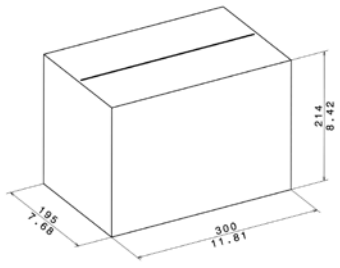
X without electric box



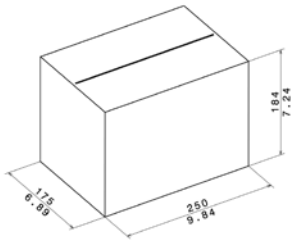
S Range



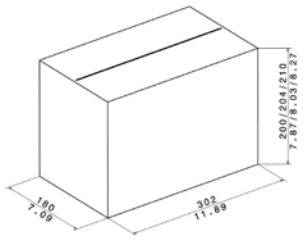
HY



HYB, HYS & HFY



HYE



notes

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