GENERAL CATALOGUE

Compressors & Condensing Units

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

cubigel® compressors by HUAYI COMPRESSOR BARCELONA

For every type of application

The most complete range of products

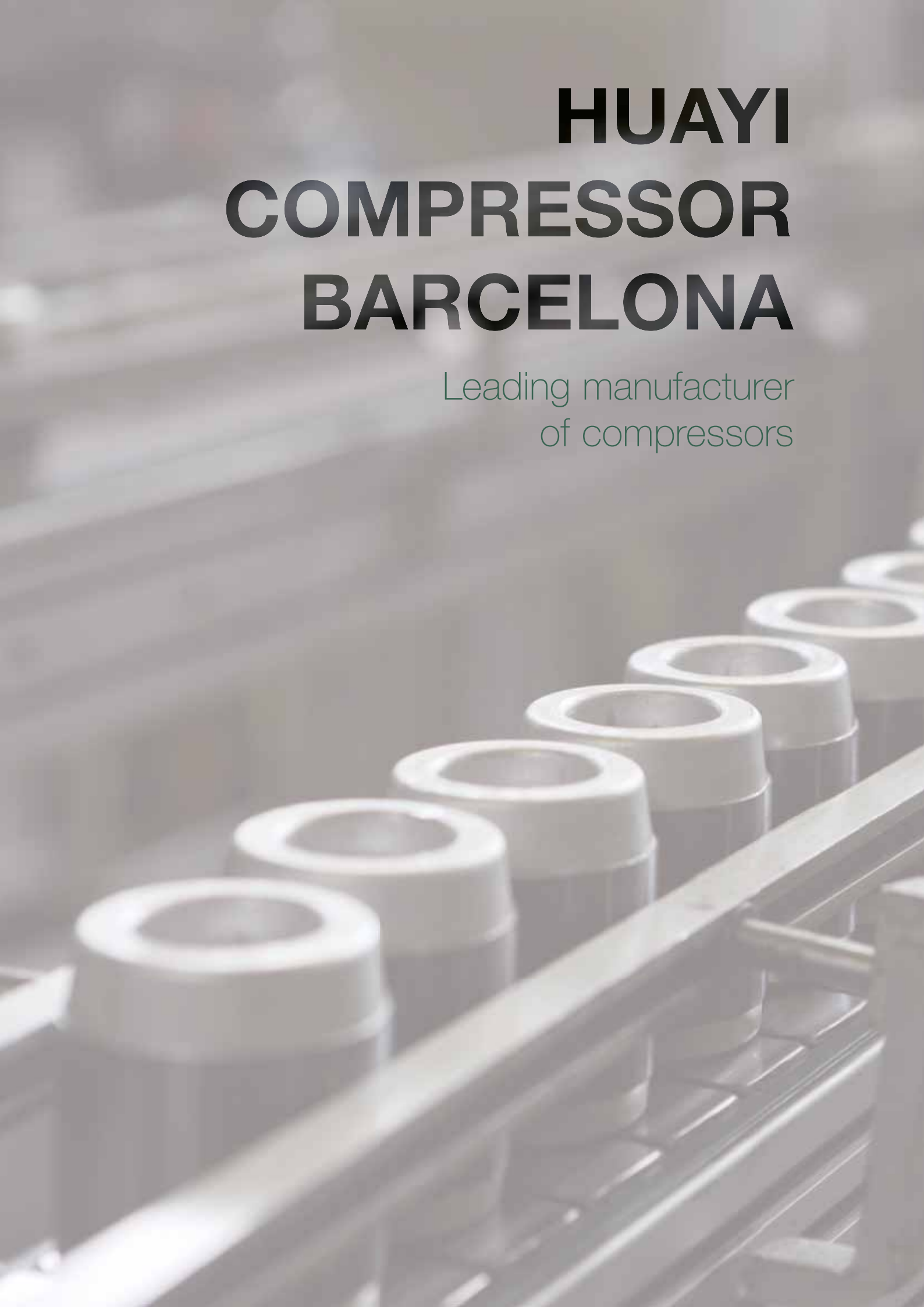
Sustainable Cooling

Natural Refrigerants

Low energy consumption

Worldwide presence

Mobile applications



HUAYI COMPRESSOR BARCELONA

Leading manufacturer
of compressors

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

50 years

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

Index

1. General Information

2. Compressors Catalogue

3. Condensing Units Catalogue

4. Technical Information


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

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

Huayi Compressor Barcelona, S.L.

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

Oriented to develop quality product supported by European production, with more than 100 million compressors produced under the Cubigel Compressors® brand, the company mission has remained the same during its 51 years of experience developing compressors and satisfying the refrigeration market trends of Commercial Refrigeration.

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

The Product

Extended range of compressors

The most complete range of hermetic compressors for every commercial application under the Cubigel Compressor® brand. The offer includes more than 500 different models of compressors from ranges of 2.4 to 34cc, in most refrigerant gases, main voltages and types of applications.

Condensing Units

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

The green cooling ranges

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

Compressors for mobile applications

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

Family of Compressors and Condensing Units

D range

Features:
Very compact design, Low weight, extra silent
Range:
2.40 to 4.03 cc
Refrigerants:
R134a, R290, R600a
Applications:
Water Coolers, Can Coolers, Bottle Coolers, Small Refrigerators and Freezers

U range

Features:
The most efficient, Compact size, Extremely silent, Green Cooling
Range:
5.50 to 10.60 cc
Refrigerants:
R134a, R290, R404A, R600a
Applications:
Ice Cream Freezers, Bottle Coolers, Chest coolers, Freezers, Refrigerated display counters, Display cabinets

L range

Features:
The highest efficient range with propane (R290) & isobutene (R600a)
Range:
4.00 to 10.97 cc
Refrigerants:
R134a, R404A, R600a, R290, R507
Applications:
Household Refrigerators, Bottle Coolers and Freezers, Can Coolers, Chest Freezers, Vending Machines, Ice Cream Freezers, Beer Dispensers, Ice Makers, Soft Drink Dispensers, Heat Pumps Systems

P range

Features:
High Efficiency versions
The highest efficient range with propane (R290) & isobutene (R600a)
Range:
12.00 - 18.00 cc
Refrigerants:
R134a, R404A, R600a, R290, R507
Applications:
Household Refrigerators, Bottle Coolers and Freezers, Can Coolers, Chest Freezers, Vending Machines, Ice Cream Freezers, Beer Dispensers, Ice Makers, Soft Drink Dispensers

X range

Features:
High reliability & efficiency. New design to work under heavy duty operation conditions
Range:
16.00 to 23.00 cc
Refrigerants:
R134a, R404A, R290, R407C, R507
Applications:
Large Freezers (vertical and chest), Blast Freezers, Ice Makers, Vending Machines, Display Cabinets, Display Islands, Soft Drink Dispensers

S range

Features:
Top capacity range, Optimized design to reduce vibration
Range:
18.00 to 34.42 cc
Refrigerants:
R134a, R404A, R407C, R507
Applications:
Large Freezers (vertical and chest), Soft drinks dispensers, Blast Freezers, Air Dryers, Ice Makers, Air Conditioning, Vending Machines, Heat Pumps, Display, Cabinets and Islands

CONDENSING UNITS

Features:
Complete range of Condensing Units from 2.4 to 34 cc
High reliability & top-quality components
Specific customized versions
Designed to work under 43º C tropical conditions
Refrigerants:
R134a, R404A, R290, R407C, R507
Applications:
Suitable for all applications

green cooling

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 10% to 15% lower than a similar application with R404A. The Cubigel Compressors® R290 compressors offer a higher cooling capacity and COP allowing energy-saving consumption with smaller displacement.

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

Variable Speed Compressors

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

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

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

Variable Speed Compressors

Features:
High Efficiency, Flexible Speed Drive
Drop-in Configuration
External Controlling
200-240 V / 50-60Hz
110-127V / 50-60Hz
Models:
GLT99FSN, NPT12FSC, NLT60FSN
Refrigerant:
R290, R134a

DC Compressors for mobile applications

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

The GD30FDC model is the solution for users requiring comfort and reliability while traveling where a DC powered refrigerator is utilized.

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

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

The GD30FDC and GLT80TDC are designed to operate from a low voltage DC power supply to operate silently, efficiently and reliably even up to angles of tilt of 30° / 20° respectively, working with refrigerant R134a.

DC Compressors Range

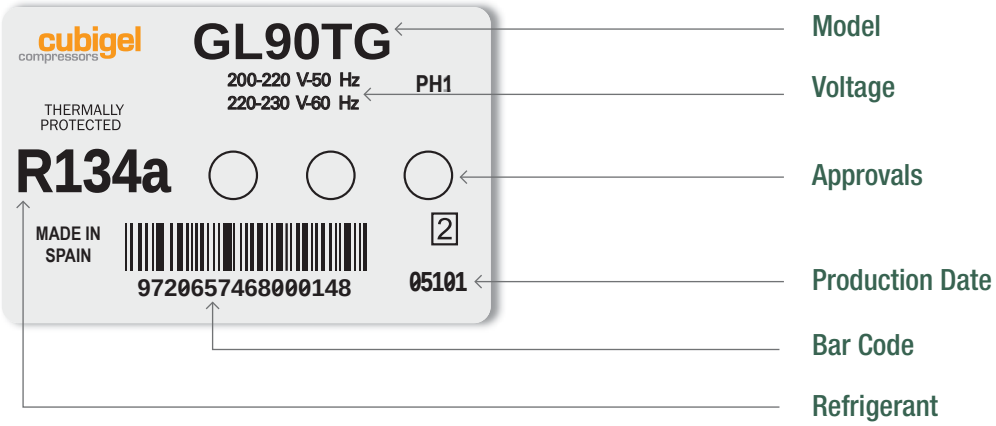
Features:
DC compressors for mobile applications, exceptionally silent
GD30FDC VDE & UL approved
Ready to work under heavy duty operating conditions
12-42V DC / 24-42V DC / 48-56V DC / 100-240 V / 50-60Hz AC
Models:
GD30FDC, GLT80TDC.
Refrigerant:
R134a, R600a

Compressor Ranges Main Characteristics

Compressor ranges - Main characteristics							
Range	Displacement (cm^3)		Cooling capacity (W) [*]				Weight (max) (kg)
			LBP		HMBP		
	min	max	min	max	min	max	
D	2.4	4	47	95	210	360	7
U	5.5	10.6	215	354	325	401	9.90
L	4.5	10.7	110	487	324	1410	11
P	12	18	190	968	1065	2080	13
X	16	23	400	1060	1655	3030	17
S	18	34	1215	1620	2475	5265	23

*All refrigerants / Measured at ASHRAE rating condition 50 Hz

Identification Labels and Approvals



Approvals

Directive compliance declarations

Flammable gases

Compressor Nomenclature

model
G L Y 6 0 R A a

G	L	Y	60	R	A	a

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

Indicates compressor range (overall design).
- **D** = 2.4 - 4.0cm^3
- **U** = 5.5 - 10.6cm^3
- **L** = 4.0 - 10.7cm^3
- **P** = 12.0 - 18.0cm^3
- **X** = 16.0 - 23.0cm^3
- **S** = 18.0 - 34.0cm^3

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

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

Indicates the starting torque, application type and compressor cooling:
- **A** = LBP - LST - S
- **B** = LBP - LST - OC
- **C** = LBP - LST - FAN
- **D** = LBP - HST - S
- **E** = LBP - HST - OC
- **F** = LBP - HST -FAN
- **G** = LBP - LST - S (RSCR only)
- **L** = LBP - HST - Fan (Current Relay)
- **M** = HMBP - LST/HST - S/FAN
- **N** = MBP - 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)
- **U** = AC - LST/HST - FAN
- **Y** = VHBP - HST – Fan

Indicates the rated voltage:
- **A** = 220-240V 50Hz
- **B** = 220-240V 50Hz (old ranges)
- **C** = 100V 50/60Hz (old ranges)
- **D** = 115V 60Hz
- **E** = 115V 60Hz (old ranges)
- **F** = 208-230V 60Hz (old ranges)
- **G** = 200-220V 50Hz/220-230V 60Hz
- **J** = 100V 50/60Hz
- **M** = 115-127V 60Hz
- **L/N** = 200-220V 50Hz or 200-240V 50Hz 220-230V 60Hz (50°C)
- **R** = 115-127V 60Hz (old ranges)
- **T** = 200-220V 50Hz
- **U** = 208-230V 60Hz
- **3** = 3 phase 400-440V 50/60Hz

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

Examples:

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

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

2. In HMBP models of D range, R134a refrigerant (i.e.: GD30MB or GD40MB) it indicates the electrical accessories corresponding to the following situations:

a = static cooling and without starting capacitor
b = fan cooling and without starting capacitor
c = static cooling and with starting capacitor
d = fan cooling and with starting capacitor

Voltage

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

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

Applications

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

Low Back Pressure (LBP) Compressors.
Evaporating temperature range: -35 to -10ºC [-31ºF to +14ºF] (down to -40ºC [-40ºF] for refrigerant R404A).
Rating condition: -25ºC [-13ºF] (CECOMAF) or -23.3ºC [-10ºF] (ASHRAE).

Low-Medium Back Pressure (LMBP) Compressors.
Evaporating temperature range: -35 to -5ºC [-31ºF to +23ºF]
Rating condition: -25ºC [-13ºF] (CECOMAF) or -23.3ºC [-10ºF] (ASHRAE).

Medium Back Pressure (MBP) Compressors.
Evaporating temperature range: -25ºC to 0ºC [-10 ºF to 32ºF]

High Medium Back Pressure (HMBP) Compressors.
Evaporating temperature range: -25 to +10 ºC [-13ºF to +50ºF].
Rating condition: +5ºC [+41ºF] (CECOMAF) or +7.2ºC [+45ºF] (ASHRAE).

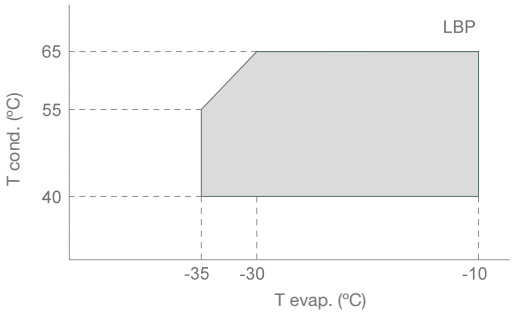
High Back Pressure (HBP) Compressors.
Evaporating temperature range: -15ºC to +10ºC [+5ºF to +50ºF]).
Rating condition: +5ºC [+41ºF] (CECOMAF) or +7.2ºC [+45ºF] (ASHRAE).

Very High Back Pressure (VHBP) Compressors.
Evaporating temperature range 0ºC to +25ºC [+32 to +77ºF] with condensing temperature up to +75ºC [+167ºF].
The rating condition is defined by an internal Cubigel Compressors® standard: Te = +10ºC [+50ºF].

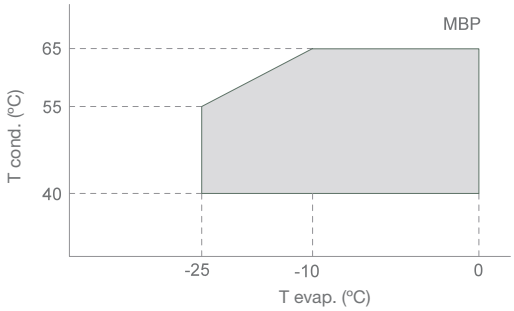
SOA - Safe Operating Area

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.

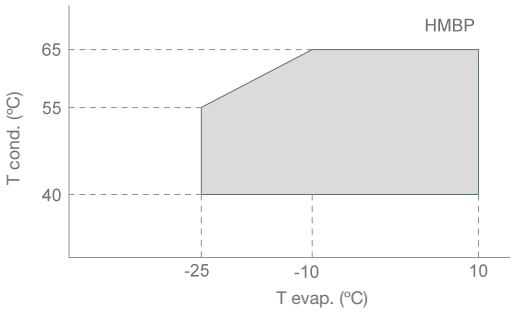
SOA R134a LBP



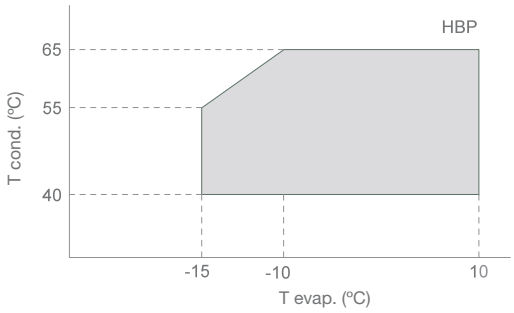
SOA R134a MBP



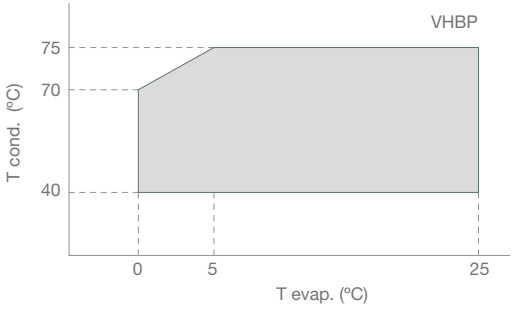
SOA R134a HMBP



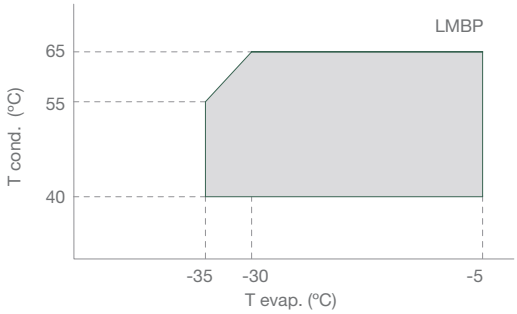
SOA R134a HBP



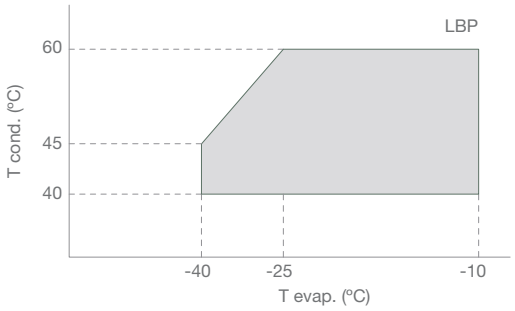
SOA R134a VHBP



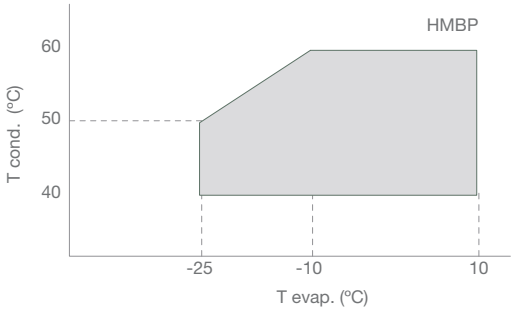
SOA 134a LMBP



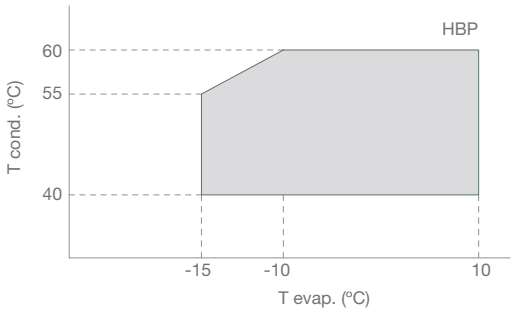
SOA R404A LBP



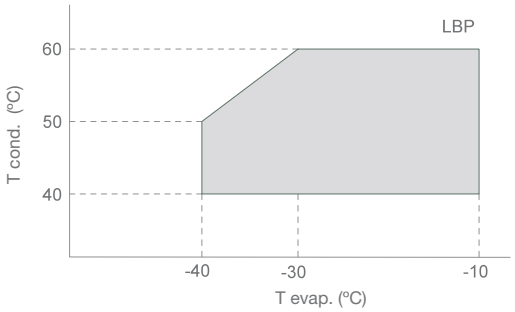
SOA R404A HMBP



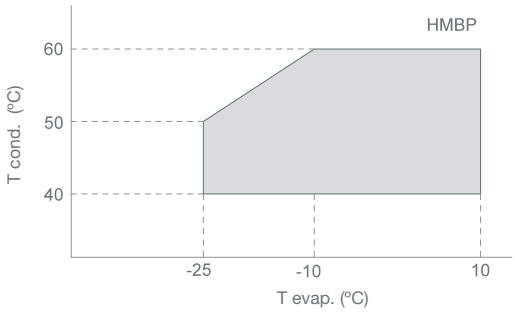
SOA R404A HBP



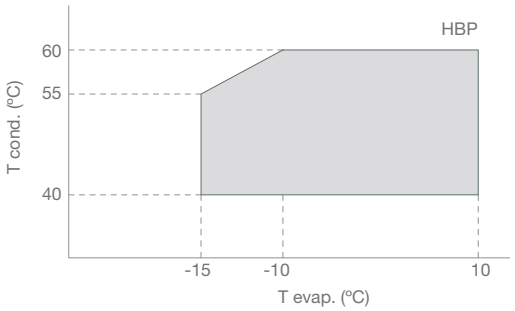
SOA R290 LBP



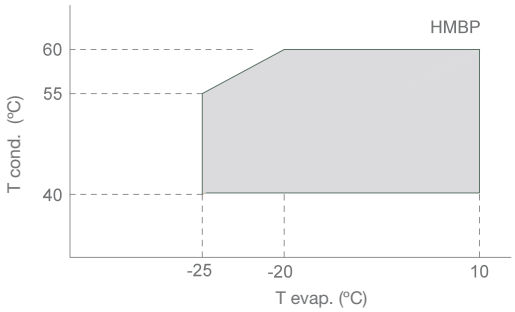
SOA R290 HMBP



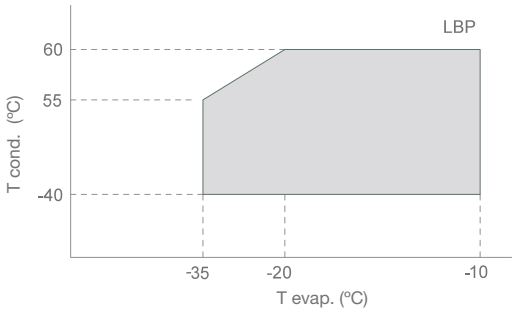
SOA R290 HBP



SOA R600a HMBP



SOA R600a LBP



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 D, L and P ranges.

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

Type of torque

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

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

Compressors Product Summary

Refrigerants

R290
R600a
R134a
R404A
R507

Rated Voltages

220-240V	50Hz	EU
100V	50/60Hz	JAPAN
115-127V	60Hz	USA - Latinamerica
200-240/220-230V	50/60Hz	50Hz unstable net and 60Hz net
200-220/230V	50/60Hz	
400-440V	50/60Hz	3PH

More than 500 MODELS

Application

LBP
HMBP
VHBP

Motor

RSIR
RSCR
CSIR
CSR
CSR + NTC
3PH
DC

Starting Torque

HST
LST

Efficiency

STANDARD
MEDIUM
HIGH
VARIABLE SPEED

Displacement

2.4 cm^3 - 34.42 cm^3

Cooling Capacity

35 kcal/h - 4,100 kcal/h (ASHARE)

Condensing Units

Features, Benefits and Customized versions

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

Features and Benefits

- Complete range from 2.4 to 34 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
- Drain tray

Main specific services

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

Condensing Unit Versions

Version "1"
Basic equipment to be directly connected by soldering to the tubes of the condenser. Applicable to systems with a capillary expansion device.

Version "2"
Equipped with service valves in order to facilitate the connection and installation.

Version "3"
Equipped with service valves and liquid receiver. Applicable to systems with expansion valve.

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

Version "4"
Version "1" additionally equipped with a Schrader valve on the refrigerant charging.

Condensing Unit Designation

model
CMS34TB3M2F

C M S 3 4 T B 3 M 2 F

C = Condensing Unit

MS34TB = Compressor model

1-2-3-4 = Version

M = 38ºC **N** = 43ºC Max. Amb. Temp.

2F (Optional) = Two Fans - **P (Optional in v.3)** = hp/lp pressure switch

Condensing Units Summary

Refrigerants

R290
R600a
R134a
R404A
R507

Rated Voltages

220-240V	50Hz	EU
100V	50/60Hz	JAPAN
115-127V	60Hz	USA - Latinamerica
200-240/220-230V	50/60Hz	50Hz unstable net
200-220/230V	50/60Hz	and 60Hz net
400-440V	50/60Hz	3PH

More than 500
STANDARD MODELS

Standard Versions

1
2
3
3P
4

Application

LBP
HMBP
VHBP

Displacement

2.4 cm^3 - 34.42 cm^3

Cooling Capacity

35 kcal/h - 4,100 kcal/h (ASHARE)

How to read this Catalogue

Compressors

Grouped by Refrigerant type

Grouped by Application type

Grouped by Application type

Voltage

Cooling capacity CECOMAF & ASHRAE

Operative range of evaporating temp

Dimensional drawing reference

R404A (*) | HMBP | HBP • 50 Hz

Indicates Green Cooling models

Indicates New models

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

Condensing Units

Grouped by Refrigerant type: R134a (*)
Grouped by Application type: HMBP | HBP
Grouped by Application type: 50 Hz
Voltage
Cooling capacity CECOMAF & ASHRAE
Operative range of evaporating temp
Dimensional drawing reference

Indicates Green Cooling models

Indicates New models

	MODEL	DISPLACEMENT cm³	POWER hp	MAX. AMBIENCE TEMP.	T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY W Wx 0.86 = kcal/h W x 3.412 = BTU/h Evaporating Temperature °C -25	-15	-5	5	7.2 W	7.2 W inp	7.2 A	10	VERSION "3" DIMENSIONS W x L x H mm	TUBES SUCTION Inch	TUBES COMPRESSION Inch	WEIGHT Kg	DESIGN
	CGD30MB_N	3.08	1/10	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	71	119	191	285	309	168	1.02	341	255x300x200	1/4	1/4	8.7	4A
	CGD36MB_N	3.62	1/10	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	91	147	230	341	369	196	1.00	407	255x300x200	1/4	1/4	8.8	4A
	CGD40MB_N	4.06	1/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	97	156	243	357	385	215	1.00	423	255x300x200	1/4	1/4	9.6	4A
	CGL45PB_N	4.5	1/6	43	T	HMBP	220-240V 50Hz ~1	RSIR	C	108	183	286	416	448	238	1.00	491	320x425x220	3/8	1/4	14.5	3B
	CGL45TB_N	4.5	1/6	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	108	183	286	416	448	238	1.00	491	320x425x220	3/8	1/4	14.5	3B
	CGL45TG_N	4.5	1/6	43	T	HMBP	200-240/220-230V 50/60Hz ~1	CSIR	C-V	109	180	279	407	439	219	1.00	482	320x425x220	3/8	1/4	14.5	3B
	CGLY45RAa_N	4.56	1/6	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	140	208	312	452	490	235	1.00	535	320x425x235	3/8	1/4	16	3B
	CGLY45RAb_N	4.56	1/6	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	140	208	312	452	490	211	0.85	535	320x425x235	3/8	1/4	16	3B
	CGL60PB_N	5.68	1/5	43	T	HMBP	220-240V 50Hz ~1	RSIR	C	130	232	361	520	558	271	1.00	609	320x425x235	3/8	1/4	17	3B
	CGL60TB_N	5.68	1/5	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	130	232	361	520	558	271	1.00	609	320x425x235	3/8	1/4	17	3B
	CGL60TG_N	5.68	1/5	43	T	HMBP	200-240/220-230V 50/60Hz ~1	CSIR	C-V	136	227	366	551	599	271	1.00	662	320x425x235	3/8	1/4	17	3B
	CGLY60RAa_N	5.98	1/5	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	137	251	396	573	616	264	1.00	673	340x425x235	3/8	1/4	17	3B
	CGLY60RAb_N	5.98	1/5	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	137	251	396	573	616	242	0.87	673	340x425x235	3/8	1/4	17	3A
	CGL80PB_N	7.57	1/5	43	T	HMBP	220-240V 50Hz ~1	RSIR	C	166	285	441	636	684	343	2.02	747	340x425x235	3/8	1/4	17	3B
	CGL80TB_N	7.57	1/5	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	166	285	441	636	684	343	2.02	747	340x425x235	3/8	1/4	17	3B
	CGL80TG_N	7.57	1/5	43	T	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	178	300	473	699	755	333	2.02	831	340x425x235	3/8	1/4	17	3B
	CGLY80RAa_N	8.1	1/5	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	219	351	543	795	858	349	2.02	943	340x425x235	3/8	1/4	18.5	3B
	CGLY80RAb_N	8.1	1/5	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	219	351	543	795	858	324	1.20	943	320x425x235	3/8	1/4	18.5	3A
	CGL90PB_N	8.85	1/4	43	T	HMBP	220-240V 50Hz ~1	RSIR	C	203	341	533	780	842	386	2.02	924	340x425x235	3/8	1/4	18.5	3B
	CGL90TB_N	8.85	1/4	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	203	341	533	780	842	386	2.02	924	340x425x235	3/8	1/4	18.5	3B
	CGL90TG_N	8.85	1/4	43	T	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	193	335	529	775	836	382	1.99	917	340x425x235	3/8	1/4	18.5	3B
	CGLY90RAa_N	9.09	1/4	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	215	360	564	827	893	437	2.30	981	350x425x270	3/8	1/4	19.5	3B
	CGLY90RAb_N	9.09	1/4	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	215	360	564	827	893	397	2.01	981	350x425x270	3/8	1/4	19.5	3A
	CGP12PB_N	12.05	3/8	43	T	HMBP	220-240V 50Hz ~1	RSIR	C	251	448	704	1019	1097	604	3.02	1199	350x425x270	3/8	1/4	20	3B
	CGP12TB_N	12.05	3/8	43	T	HBP	220-240V 50Hz ~1	CSIR	C-V	-	448	704	1019	1097	604	3.02	1199	350x425x270	3/8	1/4	20	3B
	CGP12TG_N	12.05	3/8	43	T	HBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	-	412	671	1030	1123	539	2.99	1247	350x425x270	3/8	1/4	20	3B
	CGPY12RAa_N	12.1	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	314	504	768	1104	1188	571	3.02	1300	350x425x270	3/8	3/8	21.5	3B
	CGPY12RAb_N	12.1	3/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	314	504	768	1104	1188	523	2.07	1300	350x425x270	3/8	3/8	21.5	3A
	CGP14PB_N	14.17	3/8	43	T	HMBP	220-240V 50Hz ~1	RSIR	C	292	498	778	1130	1217	668	4.01	1334	350x425x270	3/8	1/4	21.5	3B
	CGP14TB_N	14.17	3/8	43	T	HBP	220-240V 50Hz ~1	CSIR	C-V	-	498	778	1130	1217	668	4.01	1334	350x425x270	3/8	1/4	21.5	3B
	CGP14TG_M	14.17	3/8	38	-	HBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	-	534	820	1184	1275	630	2.99	1395	350x425x270	3/8	1/4	21.5	3B
	CGPY14RAa_N	14.32	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	442	618	867	1190	1270	623	3.56	1378	365x510x300	3/8	3/8	23.5	2D
	CGPY14RAb_N	14.32	3/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	442	618	867	1190	1270	579	3.02	1378	365x510x300	3/8	3/8	23.5	2E

2.

Compressors Catalogue

R134a

R134a (*) LBP • 50 Hz

	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 kcal/h	-23.3 COP	Kg	
	GD24AA	2.44	1/20	LBP	S	220-240V 50Hz ~1	RSIR	P	C	12	22	**34**	**0.51**	85	**41**	**0.68**	5.320	Db
	GD30AA	3.08	1/12	LBP	S	220-240V 50Hz ~1	RSIR	P	C	23	36	**52**	**0.74**	117	**62**	**0.96**	6.170	Dc
	GD30AG	3.08	1/12	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	21	34	**49**	**0.60**	111	**58**	**0.79**	5.970	Dc
	GD36AA	3.62	1/12	LBP	S	220-240V 50Hz ~1	RSIR	P	C	28	43	**61**	**0.76**	136	**72**	**0.99**	6.070	Dc
	GD36AFa	3.62	1/12	LBP	S	200-220/230V 50/60Hz ~1	RSIR	P	C	26	40	**58**	**0.63**	128	**68**	**0.83**	6.270	Dc
	GD36AFb	3.62	1/12	LBP	S	200-220/230V 50/60Hz ~1	CSIR	R	C-V	26	40	**58**	**0.63**	128	**68**	**0.83**	6.300	Dc
	GD40AA	4.06	1/10	LBP	S	220-240V 50Hz ~1	RSIR	P	C	34	50	**70**	**0.77**	155	**82**	**1.00**	6.100	Dd
	GD40AF	4.06	1/10	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	31	47	**66**	**0.67**	147	**78**	**0.88**	6.420	Dd
	GL45AAa	4.56	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	37	57	**81**	**0.81**	184	**96**	**1.06**	7.950	Lb
	GL45AAb	4.56	1/8	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	37	57	**81**	**0.81**	184	**96**	**1.06**	7.950	Lb
	GL45ANa	4.56	1/8	LBP	S	200-240/220-230V 50/60Hz ~1	RSIR	P	C	36	56	**80**	**0.78**	184	**95**	**1.03**	8.380	Lb
	GLY45AAa	4.56	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	46	65	**89**	**1.01**	192	**104**	**1.30**	9.080	Lb
	GLY45AAb	4.56	1/8	LBP	S	220-240V 50Hz ~1	RSCR	P	C	47	66	**90**	**1.05**	193	**105**	**1.36**	9.080	Lb
	GL60AAa	5.98	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	50	75	**107**	**0.85**	239	**126**	**1.10**	8.245	Lb
	GL60AAb	5.98	1/6	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	50	75	**107**	**0.85**	239	**126**	**1.10**	8.290	Lb
	GL60ANa	5.98	1/6	LBP	S	200-240/220-230V 50/60Hz ~1	RSIR	P	C	57	82	**114**	**0.83**	244	**133**	**1.09**	9.220	Lc
	GL60ANb	5.98	1/6	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	82	94	**116**	**0.84**	244	**133**	**1.09**	9.220	Lc
	GL60ANc	5.98	1/6	LBP	S	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	82	94	**116**	**0.84**	244	**133**	**1.09**	9.220	Lc
	GLY60AAa	5.98	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	58	85	**119**	**1.04**	255	**139**	**1.34**	8.920	Lb
	GLY60AAb	5.98	1/6	LBP	S	220-240V 50Hz ~1	RSCR	P	C	59	86	**120**	**1.10**	255	**140**	**1.42**	8.700	Lb
	GL80AAa	8.10	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	68	102	**144**	**0.89**	326	**170**	**1.15**	9.060	Lc
	GL80AAb	8.10	1/5	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	68	102	**144**	**0.89**	326	**170**	**1.15**	9.060	Lc
	GL80ANa	8.10	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	76	107	**148**	**0.83**	331	**174**	**1.09**	9.910	Ld
	GL80ANb	8.10	1/5	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	76	107	**148**	**0.83**	331	**174**	**1.09**	9.910	Ld
	GL80ANc	8.10	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	76	107	**148**	**0.83**	331	**174**	**1.09**	9.910	Ld
	GLY80AAa	8.10	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	92	123	**164**	**1.07**	349	**191**	**1.37**	10.460	Lc
	GLY80AAb	8.10	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	93	124	**165**	**1.13**	351	**192**	**1.45**	10.460	Lc
	GL90AAa	9.09	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	82	120	**165**	**0.90**	351	**193**	**1.15**	9.530	Lc
	GL90AAb	9.09	1/4	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	82	120	**165**	**0.90**	351	**193**	**1.15**	9.530	Lc
	GL90ANa	9.09	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	85	118	**163**	**0.84**	366	**191**	**1.10**	10.310	Ld
	GL90ANb	9.09	1/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	85	118	**163**	**0.84**	366	**191**	**1.10**	10.480	Ld
	GL90ANc	9.09	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	85	118	**163**	**0.84**	366	**191**	**1.10**	10.310	Ld
	GLY90AAa	9.09	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	104	140	**186**	**1.07**	387	**216**	**1.37**	9.520	Ld
	GLY90AAb	9.09	1/4	LBP	S	220-240V 50Hz ~1	RSCR	P	C	104	140	**187**	**1.13**	388	**217**	**1.45**	9.520	Ld
	GL99AAa	9.95	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	83	125	**175**	**0.92**	377	**205**	**1.19**	9.760	Ld
	GL99AAb	9.95	1/4	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	83	125	**175**	**0.92**	377	**205**	**1.19**	9.760	Ld
	GLM12LAa (**)	10.70	1/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	91	137	**192**	**0.93**	414	**225**	**1.20**	10.000	Ld
	GLM12LAb (**)	10.70	1/3	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	91	137	**192**	**0.97**	414	**225**	**1.26**	10.000	Ld
	GPY12AAa	12.10	3/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	128	178	**241**	**0.96**	500	**280**	**1.23**	12.070	Pd
	GPY12AAb	12.10	3/8	LBP	S	220-240V 50Hz ~1	RSCR	P	C	128	178	**241**	**1.04**	500	**280**	**1.33**	12.070	Pd
	GPY12LAa	12.10	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	113	162	**225**	**1.00**	509	**265**	**1.30**	12.780	Pd
	GPY12LAb	12.10	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	113	162	**225**	**1.06**	509	**265**	**1.38**	12.880	Pd
	GP14CB	14.17	3/8	LBP	F	220-240V 50Hz ~1	RSIR	R	C	99	158	**228**	**0.90**	509	**270**	**1.16**	10.240	Pc
	GP14CG	14.17	3/8	LBP	F	200-220/220-230V 50/60Hz ~1	RSIR	R	C	99	158	**228**	**0.83**	509	**270**	**1.08**	11.070	Pc
	GP14FB	14.17	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	99	158	**228**	**0.90**	509	**270**	**1.16**	12.300	Pc

This table continues in the following page

Green Cooling Models

New Models

(*) Or HF01234yf / See design drawing on page 62

R134a: W (A) x 1.18 = kcal/h (B) R134a: W (C) x 1.02 = kcal/h (D) W x 0.86 = kcal /h

R134a: W (E) x 0.85 = kcal/h (F) R134a: W (G) x 0.97 = kcal/h (H)

(**) Under development

R134a (*) LBP • 50 Hz

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 W	-25 COP	-10	-23.3 kcal/h	-23.3 COP		
GP14FC	14.17	3/8	LBP	F	100V 50/60Hz ~1	CSIR	R	C-V	99	158	**228**	**0.73**	509	**270**	**0.95**	13.600	Pd
GP16CB	16.15	3/8	LBP	F	220-240V 50Hz ~1	RSIR	R	C	109	182	**266**	**0.89**	585	**315**	**1.14**	12.700	Pd
GP16FB	16.15	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	109	182	**266**	**0.89**	585	**315**	**1.14**	12.860	Pd
GP16FC	16.15	3/8	LBP	F	100V 50/60Hz ~1	CSIR	R	C-V	109	182	**266**	**0.78**	585	**315**	**1.02**	13.610	Pd
GPY16LAa	16.15	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	151	220	**306**	**1.02**	677	**360**	**1.32**	11.830	Pd
GPY16LAb	16.15	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	151	220	**306**	**1.09**	677	**360**	**1.42**	11.930	Pd
GX21FB	20.72	2/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	151	243	**351**	**0.93**	778	**415**	**1.20**	15.500	Xc

R134a (*) LBP • 60 Hz

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 W	-25 COP	-10	-23.3 kcal/h	-23.3 COP		
GD24ADa	2.44	1/20	LBP	S	115V 60Hz ~1	RSIR	P	C	14	26	**40**	**0.52**	100	**48**	**0.70**	5.590	Db
GD24ADb	2.44	1/20	LBP	S	115V 60Hz ~1	CSIR	R	C-V	14	26	**40**	**0.52**	100	**48**	**0.70**	5.620	Db
GD30AG	3.08	1/12	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	25	39	**57**	**0.67**	130	**68**	**0.88**	5.970	Dc
GD36AD	3.62	1/12	LBP	S	115V 60Hz ~1	RSIR	P	C	30	47	**68**	**0.65**	150	**80**	**0.85**	6.510	Dc
GD36AFa	3.62	1/12	LBP	S	200-220/230V 50/60Hz ~1	RSIR	P	C	30	47	**68**	**0.65**	150	**80**	**0.86**	6.270	Dc
GD36AFb	3.62	1/12	LBP	S	200-220/230V 50/60Hz ~1	CSIR	R	C-V	30	47	**68**	**0.65**	150	**80**	**0.86**	5.900	Dc
GD40AF	4.06	1/10	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	36	54	**77**	**0.70**	172	**91**	**0.91**	6.420	Dd
GL45ADa	4.56	1/8	LBP	S	115V 60Hz ~1	RSIR	P	C	42	65	**95**	**0.80**	215	**112**	**1.05**	8.280	Lb
GL45ADb	4.56	1/8	LBP	S	115V 60Hz ~1	CSIR	R	C-V	42	65	**95**	**0.80**	215	**112**	**1.05**	8.280	Lb
GL45ANa	4.56	1/8	LBP	S	200-240/220-230V 50/60Hz ~1	RSIR	P	C	43	65	**93**	**0.83**	213	**110**	**1.09**	8.380	Lb
GL60ADa	5.98	1/6	LBP	S	115V 60Hz ~1	RSIR	P	C	65	95	**132**	**0.85**	290	**155**	**1.10**	9.480	Lb
GL60ADb	5.98	1/6	LBP	S	115V 60Hz ~1	CSIR	R	C-V	65	95	**132**	**0.85**	290	**155**	**1.10**	9.480	Lb
GL60ANa	5.98	1/6	LBP	S	200-240/220-230V 50/60Hz ~1	RSIR	P	C	95	108	**133**	**0.89**	285	**153**	**1.15**	9.220	Lc
GL60ANb	5.98	1/6	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	95	108	**133**	**0.89**	285	**153**	**1.15**	9.220	Lc
GL60ANc	5.98	1/6	LBP	S	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	95	108	**133**	**0.89**	285	**153**	**1.15**	9.220	Lc
GUY60NRb (**)	6.00	1/5	LMBP	F	115-127V 60Hz ~1	CSIR	R	C	80	113	**158**	**1.15**	362	**185**	**1.49**	9.000	Ub
GUY60NRc (**)	6.00	1/5	LMBP	S	115-127V 60Hz ~1	CSIR	R	C	80	113	**158**	**1.15**	362	**185**	**1.49**	9.000	Ub
GUY70NRb (**)	6.70	1/5	LMBP	F	115-127V 60Hz ~1	CSIR	R	C	86	121	**166**	**1.15**	386	**194**	**1.49**	9.300	Ub
GUY70NRc (**)	6.70	1/5	LMBP	S	115-127V 60Hz ~1	CSIR	R	C	86	121	**166**	**1.15**	386	**194**	**1.49**	9.300	Ub
GL80ADa	8.10	1/5	LBP	S	115V 60Hz ~1	RSIR	P	C	84	122	**171**	**0.87**	384	**201**	**1.13**	9.810	Lc
GL80ADb	8.10	1/5	LBP	S	115V 60Hz ~1	CSIR	R	C-V	84	122	**171**	**0.87**	384	**201**	**1.13**	9.810	Lc
GL80ANa	8.10	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	87	124	**172**	**0.92**	385	**202**	**1.19**	9.910	Ld
GL80ANb	8.10	1/5	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	87	124	**172**	**0.92**	385	**202**	**1.19**	9.910	Ld
GL80ANc	8.10	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	87	124	**172**	**0.92**	385	**202**	**1.19**	9.910	Ld
GUY80NRb (**)	8.10	1/4	LMBP	F	115-127V 60Hz ~1	CSIR	R	C	107	151	**209**	**1.14**	480	**245**	**1.49**	9.600	Ub
GUY80NRc (**)	8.10	1/4	LMBP	S	115-127V 60Hz ~1	CSIR	R	C	107	151	**209**	**1.14**	480	**245**	**1.49**	9.600	Ub
GL90ADa	9.09	1/4	LBP	S	115V 60Hz ~1	RSIR	P	C	97	138	**191**	**0.88**	420	**224**	**1.14**	11.110	Ld
GL90ADb	9.09	1/4	LBP	S	115V 60Hz ~1	CSIR	R	C-V	97	138	**191**	**0.88**	420	**224**	**1.14**	11.110	Ld

This table continues in the following page

Green Cooling Models
New Models

(*) Or HFO1234yf / See design drawing on page 62

R134a: W (A) x 1.18 = kcal/h (B)
R134a: W (C) x 1.02 = kcal/h (D)
W x 0.86 = kcal /h
R134a: W (E) x 0.85 = kcal/h (F)
R134a: W (G) x 0.97 = kcal/h (H)
(**) Under development

R134a (*) LBP • 60 Hz

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 W	-25 COP	-10	-23.3 kcal/h	-23.3 COP		
	GL90ANa	9.09	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	96	134	**185**	**0.93**	421	**218**	**1.20**	10.310	Ld
	GL90ANb	9.09	1/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	96	134	**185**	**0.93**	421	**218**	**1.20**	10.480	Ld
	GL90ANc	9.09	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	96	134	**185**	**0.93**	421	**218**	**1.20**	10.310	Ld
	GL99ADa	9.95	1/4	LBP	S	115V 60Hz ~1	RSIR	P	C	102	148	**205**	**0.89**	439	**240**	**1.15**	11.440	Ld
	GL99ADb	9.95	1/4	LBP	S	115V 60Hz ~1	CSIR	R	C-V	102	148	**205**	**0.89**	439	**240**	**1.15**	11.440	Ld
	GUY11NRb (**)	10.60	3/8	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	133	189	**261**	**1.09**	598	**305**	**1.42**	9.90	Uc
	GLY12NRa	10.7	3/8	LMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	119	173	**239**	**1.03**	512	**280**	**1.34**	11.2	Ld
	GLY12NRb	10.7	3/8	LMBP	F	115-127V 60Hz ~1	CSR	R	C-V	119	173	**239**	**1.09**	512	**280**	**1.42**	11.2	Ld
	GP14CG	14.17	3/8	LBP	F	200-220/220-230V 50/60Hz ~1	RSIR	R	C	113	181	**262**	**0.91**	589	**310**	**1.18**	11.070	Pc
	GP14FC	14.17	3/8	LBP	F	100V 50/60Hz ~1	CSIR	R	C-V	116	185	**267**	**0.83**	596	**316**	**1.08**	13.600	Pd
	GP14FE	14.17	3/8	LBP	F	115V 60Hz ~1	CSIR	R	C-V	116	185	**267**	**0.72**	596	**316**	**0.94**	13.560	Pd
	GP16FC	16.15	3/8	LBP	F	100V 50/60Hz ~1	CSIR	R	C-V	125	209	**306**	**0.88**	672	**362**	**1.14**	13.610	Pd
	GP16FE	16.15	3/8	LBP	F	115V 60Hz ~1	CSIR	R	C-V	125	209	**306**	**0.77**	672	**362**	**1.00**	13.560	Pd

R134a (*) HMBP | HBP • 50 Hz

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 W	5 COP	10	7.2 kcal/h	7.2 COP		
	GD24MBc	2.44	1/14	HBP	S	220-240V 50Hz ~1	CSIR	R	C-V	-	63	**174**	**1.42**	212	**180**	**1.67**	5.710	Db
	GD24MCc (**)	2.44	1/14	HBP	S	100V 50/60Hz ~1	CSIR	R	C-V	-	66	**181**	**1.44**	220	**188**	**1.68**	5.1	Db
	GD30MBa	3.08	1/10	HMBP	S	220-240V 50Hz ~1	RSIR	P	C	49	88	**232**	**1.50**	282	**240**	**1.74**	5.870	Dc
	GD30MBb	3.08	1/10	HMBP	F	220-240V 50Hz ~1	RSIR	P	C	49	88	**232**	**1.50**	282	**240**	**1.74**	5.870	Dc
	GD30MBc	3.08	1/10	HMBP	S	220-240V 50Hz ~1	CSIR	R	C-V	49	88	**232**	**1.50**	282	**240**	**1.74**	5.970	Dc
	GD30MBd	3.08	1/10	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	49	88	**232**	**1.50**	282	**240**	**1.74**	5.970	Dc
	GD36MBa	3.62	1/10	HMBP	S	220-240V 50Hz ~1	RSIR	P	C	53	96	**261**	**1.51**	318	**270**	**1.74**	6.310	Dd
	GD36MBb	3.62	1/10	HMBP	F	220-240V 50Hz ~1	RSIR	P	C	53	96	**261**	**1.51**	318	**270**	**1.74**	6.310	Dd
	GD36MBc	3.62	1/10	HMBP	S	220-240V 50Hz ~1	CSIR	R	C-V	53	96	**261**	**1.51**	318	**270**	**1.74**	6.410	Dd
	GD36MBd	3.62	1/10	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	53	96	**261**	**1.51**	318	**270**	**1.74**	6.700	Dd
	GD40MBa	4.06	1/8	HMBP	S	220-240V 50Hz ~1	RSIR	P	C	63	117	**301**	**1.55**	363	**310**	**1.80**	6.170	Dd
	GD40MBb	4.06	1/8	HMBP	F	220-240V 50Hz ~1	RSIR	P	C	63	117	**301**	**1.55**	363	**310**	**1.80**	6.170	Dd
	GD40MBc	4.06	1/8	HMBP	S	220-240V 50Hz ~1	CSIR	R	C-V	63	117	**301**	**1.55**	363	**310**	**1.80**	6.270	Dd
	GD40MBd	4.06	1/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	63	117	**301**	**1.55**	363	**310**	**1.80**	6.270	Dd
	GD40MGd	4.06	1/8	HBP	F	230V 50/60Hz ~1	CSIR	R	C-V	-	109	**296**	**1.57**	371	**310**	**1.86**	6.700	Dc
	GL45PB	4.50	1/6	HMBP	F	220-240V 50Hz ~1	RSIR	R	C	76	134	**341**	**1.61**	412	**352**	**1.86**	7.873	Lb
	GL45TB	4.50	1/6	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	76	134	**341**	**1.61**	412	**352**	**1.86**	7.895	Lb
	GL45TG	4.50	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	76	134	**341**	**1.67**	412	**352**	**1.95**	9.143	Lb
	GL45MG	4.50	1/6	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	175	**340**	**1.67**	415	**352**	**1.95**	9.370	Lb
	GLY45RAa	4.56	1/6	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	71	139	**373**	**1.93**	452	**385**	**2.25**	8.840	Lb
	GLY45RAb	4.56	1/6	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	71	139	**373**	**2.10**	452	**385**	**2.45**	8.930	Lb
	GL60PB	5.68	1/5	HMBP	F	220-240V 50Hz ~1	RSIR	R	C	95	170	**436**	**1.81**	527	**450**	**2.09**	8.409	Lc

This table continues in the following page

Green Cooling Models
New Models

(*) Or HFO1234yf / See design drawing on page 62
R134a: W (A) x 1.18 = kcal/h (B) R134a: W (C) x 1.02 = kcal/h (D) W x 0.86 = kcal /h
R134a: W (E) x 0.85 = kcal/h (F) R134a: W (G) x 0.97 = kcal/h (H)
(**) Under development

R134a (*) HMBP | HBP • 50 Hz

	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 W	5 COP	10	7.2 kcal/h	7.2 COP		
	GL60TB	5.68	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	95	170	**436**	**1.81**	527	**450**	**2.09**	8.559	Lb
	GL60TC	5.68	1/5	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	95	170	**436**	**1.72**	527	**450**	**2.01**	10.380	Lc
	GL60TG	5.68	1/5	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	95	170	**436**	**1.81**	527	**450**	**2.09**	9.170	Lc
	GL60MG	5.68	1/5	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	206	**427**	**1.70**	530	**445**	**1.99**	9.070	Lb
	GLY60RAa	5.98	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	106	190	**485**	**2.04**	585	**500**	**2.36**	10.470	Lc
	GLY60RAb	5.98	1/5	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	106	190	**485**	**2.24**	585	**500**	**2.60**	10.560	Lc
	GL80PB	7.57	1/5	HMBP	F	220-240V 50Hz ~1	RSIR	R	C	111	212	**553**	**1.81**	667	**570**	**2.10**	8.970	Lc
	GL80TB	7.57	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	111	212	**553**	**1.81**	667	**570**	**2.10**	9.105	Lc
	GL80TC	7.57	1/5	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	111	212	**553**	**1.85**	667	**570**	**2.21**	10.980	Lc
	GL80TG	7.57	1/5	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	111	212	**553**	**1.81**	667	**570**	**2.10**	9.610	Lc
	GL80MG	7.57	1/5	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	286	**576**	**1.78**	714	**600**	**2.10**	9.610	Lc
	GLY80RAa	8.10	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	159	275	**680**	**2.16**	818	**700**	**2.51**	11.060	Lc
	GLY80RAb	8.10	1/5	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	159	275	**680**	**2.33**	818	**700**	**2.71**	10.101	Lc
	GL90PB	8.85	1/4	HMBP	F	220-240V 50Hz ~1	RSIR	R	C	143	259	**660**	**1.90**	796	**680**	**2.20**	9.270	Ld
	GL90TB	8.85	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	143	259	**660**	**1.90**	796	**680**	**2.20**	9.289	Lc
	GL90TC	8.85	1/4	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	143	259	**660**	**1.75**	796	**680**	**2.08**	11.480	Ld
	GL90TG	8.85	1/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	143	259	**660**	**1.80**	796	**680**	**2.08**	9.810	Ld
	GL90MG	8.85	1/4	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	328	**661**	**1.79**	810	**685**	**2.10**	10.610	Ld
	GLY90RAa	9.09	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	169	298	**748**	**2.05**	901	**770**	**2.37**	11.920	Lc
	GLY90RAb	9.09	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	169	298	**748**	**2.25**	901	**770**	**2.61**	12.010	Lc
	GL11TB	9.95	1/3	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	190	330	**817**	**1.92**	981	**840**	**2.23**	10.010	Lc
	GLY12RAa	10.70	3/8	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	349	**867**	**1.97**	1064	**900**	**2.30**	10.300	Ld
	GLY12RAb	10.70	3/8	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	349	**867**	**2.20**	1064	**900**	**2.57**	10.400	Ld
	GLY12RGa	10.60	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	-	349	**867**	**1.87**	1064	**900**	**2.19**	10.500	Ld
	GLY12RGb	10.60	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	-	349	**867**	**1.98**	1064	**900**	**2.32**	10.600	Ld
	GPY12RAa	12.10	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	228	401	**992**	**2.03**	1191	**1020**	**2.35**	13.310	Pd
	GPY12RAb	12.10	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	228	401	**992**	**2.23**	1191	**1020**	**2.58**	13.400	Pd
	GP14PB	14.17	3/8	HMBP	F	220-240V 50Hz ~1	RSIR	R	C	190	373	**998**	**1.76**	1208	**1030**	**2.03**	12.070	Pd
	GP14TB	14.17	3/8	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	190	**877**	**1.66**	1396	**1030**	**2.03**	11.247	Pd
	GP14TG	14.17	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	190	373	**998**	**1.76**	1208	**1030**	**2.03**	11.775	Pd
	GPY14RAa	14.32	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	296	492	**1161**	**1.97**	1386	**1190**	**2.27**	12.330	Pd
	GPY14RAb	14.32	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	296	492	**1161**	**2.16**	1386	**1190**	**2.50**	12.430	Pd
	GP16TB	16.15	3/8	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	476	**1204**	**1.80**	1451	**1240**	**2.09**	12.030	Pd
	GP16TG	16.15	3/8	HBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	-	476	**1204**	**1.81**	1451	**1240**	**2.09**	11.775	Pd
	GPY16RAa	16.15	1/2	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	307	542	**1317**	**2.02**	1574	**1351**	**2.34**	11.935	Pd
	GPY16RAb	16.15	1/2	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	307	542	**1317**	**2.15**	1574	**1351**	**2.50**	11.980	Pd
	GPT16RG	16.15	1/2	HBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	-	552	**1323**	**2.13**	1600	**1364**	**2.50**	12.220	Pd
	GPT18RA	18.00	1/2	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	1215	**1495**	**2.10**	1783	**1525**	**2.38**	12.700	Pd
	GX18TB	18.40	1/2	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	286	539	**1389**	**1.90**	1673	**1430**	**2.20**	15.000	Xc
	GX18TG	18.40	1/2	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	286	539	**1389**	**1.90**	1673	**1430**	**2.20**	15.900	Xc
	GX21TB	20.72	5/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	323	603	**1549**	**1.88**	1866	**1595**	**2.18**	16.220	Xd
	GX23TB	23.20	5/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	368	677	**1729**	**1.88**	2082	**1780**	**2.18**	17.000	Xd
	GX23TG	23.20	5/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	368	677	**1729**	**1.79**	2082	**1780**	**2.08**	17.000	Xd
	GS26T3	25.93	3/4	HMBP	F	400/440V 50/60Hz ~3	3PHASE	-	C-V	265	703	**2070**	**2.19**	2514	**2140**	**2.55**	22.700	Sc
	GS26TB	25.93	3/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	265	703	**2070**	**2.08**	2514	**2140**	**2.42**	22.700	Sc

Green Cooling Models

New Models

(*) Or HFO1234yf / See design drawing on page 62

R134a: W (A) x 1.18 = kcal/h (B) R134a: W (C) x 1.02 = kcal/h (D) W x 0.86 = kcal /h

R134a: W (E) x 0.85 = kcal/h (F) R134a: W (G) x 0.97 = kcal/h (H)

(**) Under development

This table continues in the following page

R134a (*) HMBP | HBP • 50 Hz

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		kcal/h	COP		
GS26TG	25.93	3/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	265	703	**2070**	**2.14**	2514	**2140**	**2.49**	22.700	Sc
GS30TB	29.95	7/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	317	785	**2451**	**2.31**	3019	**2550**	**2.70**	22.700	Sd
GS30TG	29.95	7/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	317	785	**2451**	**2.31**	3019	**2550**	**2.70**	23.000	Sd
GS34TB	34.42	1	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	476	1068	**2850**	**2.26**	3420	**2930**	**2.62**	21.350	Sd

R134a (*) HMBP | HBP • 60 Hz

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		kcal/h	COP		
GD24MEc	2.44	1/14	HBP	S	115V 60Hz ~1	CSIR	R	C-V	-	38	**178**	**1.30**	285	**210**	**1.63**	5.100	Db
GD24MCc (**)	2.44	1/14	HBP	S	100V 50/60Hz ~1	CSIR	R	C-V	-	79	**213**	**1.60**	259	**220**	**1.85**	5.100	Db
GD30MEa	3.08	1/10	HMBP	S	115V 60Hz ~1	RSIR	P	C	57	104	**272**	**1.42**	330	**281**	**1.63**	6.170	Dc
GD30MEb	3.08	1/10	HMBP	F	115V 60Hz ~1	RSIR	P	C	57	104	**272**	**1.42**	330	**281**	**1.63**	6.170	Dc
GD30MEc	3.08	1/10	HMBP	S	115V 60Hz ~1	CSIR	R	C-V	57	104	**272**	**1.42**	330	**281**	**1.63**	6.280	Dc
GD30MEd	3.08	1/10	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	57	104	**272**	**1.41**	330	**281**	**1.63**	6.280	Dc
GD36MEa	3.62	1/10	HMBP	S	115V 60Hz ~1	RSIR	P	C	61	111	**305**	**1.44**	373	**316**	**1.67**	6.310	Dd
GD36MEb	3.62	1/10	HMBP	F	115V 60Hz ~1	RSIR	P	C	61	111	**305**	**1.44**	373	**316**	**1.67**	6.310	Dd
GD36MEc	3.62	1/10	HMBP	S	115V 60Hz ~1	CSIR	R	C-V	61	111	**305**	**1.44**	373	**316**	**1.67**	6.420	Dd
GD36MEd	3.62	1/10	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	61	111	**305**	**1.44**	373	**316**	**1.67**	6.420	Dd
GD40MGd	4.06	1/8	HBP	F	230V 50/60Hz ~1	CSIR	R	C-V	-	134	**346**	**1.60**	435	**363**	**1.86**	6.700	Dc
GD40MEa	4.06	1/8	HMBP	S	115V 60Hz ~1	RSIR	P	C	74	137	**352**	**1.46**	425	**363**	**1.69**	6.390	Dd
GD40MEb	4.06	1/8	HMBP	F	115V 60Hz ~1	RSIR	P	C	74	137	**352**	**1.46**	425	**363**	**1.69**	6.390	Dd
GD40MEc	4.06	1/8	HMBP	S	115V 60Hz ~1	CSIR	R	C-V	74	137	**352**	**1.46**	425	**363**	**1.69**	6.500	Dd
GD40MEd	4.06	1/8	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	74	137	**352**	**1.46**	425	**363**	**1.69**	6.500	Dd
GL45PE	4.50	1/6	HMBP	F	115V 60Hz ~1	RSIR	R	C	89	157	**400**	**1.59**	483	**412**	**1.84**	8.870	Lb
GL45TE	4.50	1/6	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	89	157	**400**	**1.59**	483	**412**	**1.84**	9.180	Lb
GL45TG	4.50	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	89	157	**400**	**1.65**	483	**412**	**1.92**	8.800	Lb
GL45MG	4.50	1/6	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	204	**398**	**1.65**	487	**412**	**1.92**	9.370	Lb
GL60PE	5.68	1/5	HMBP	F	115V 60Hz ~1	RSIR	R	C	111	199	**510**	**1.73**	616	**526**	**2.01**	9.970	Lc
GL60TC	5.68	1/5	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	111	199	**510**	**1.74**	616	**526**	**2.01**	10.380	Lc
GL60TE	5.68	1/5	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	111	199	**510**	**1.73**	616	**526**	**2.01**	10.280	Lc
GL60TG	5.68	1/5	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	111	199	**510**	**1.76**	616	**526**	**2.04**	9.170	Lc
GL60MG	5.68	1/5	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	243	**499**	**1.73**	619	**520**	**2.02**	9.070	Lb
GL80PE	7.57	1/5	HMBP	F	115V 60Hz ~1	RSIR	R	C	130	248	**647**	**1.78**	781	**667**	**2.04**	9.970	Lc
GL80TC	7.57	1/5	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	130	248	**647**	**1.92**	781	**667**	**2.22**	10.980	Lc
GL80TE	7.57	1/5	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	130	248	**647**	**1.78**	781	**667**	**2.04**	10.680	Lc
GL80TG	7.57	1/5	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	130	248	**647**	**1.78**	781	**667**	**2.04**	9.610	Lc
GL80MG	7.57	1/5	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	344	**674**	**1.84**	836	**702**	**2.15**	9.610	Lc
GLY80RDa	8.10	1/5	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	169	299	**775**	**2.02**	939	**800**	**2.34**	10.560	Lc

Green Cooling Models
New Models

(*) Or HFO1234yf / See design drawing on page 62

R134a: W (A) x 1.18 = kcal/h (B) R134a: W (C) x 1.02 = kcal/h (D) W x 0.86 = kcal /h
R134a: W (E) x 0.85 = kcal/h (F) R134a: W (G) x 0.97 = kcal/h (H)
(**) Under development

This table continues in the following page

R134a (*) HMBP | HBP • 60 Hz

	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 W	5 COP	10	7.2 kcal/h	7.2 COP		
	GLY80RDb	8.10	1/5	HMBP	F	115V 60Hz ~1	CSR	R	C-V	169	299	**775**	**2.17**	939	**800**	**2.51**	10.560	Lc
	GL90PE	8.85	1/4	HMBP	F	115V 60Hz ~1	RSIR	R	C	167	303	**773**	**1.78**	932	**796**	**2.06**	11.270	Ld
	GL90TC	8.85	1/4	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	167	303	**773**	**1.82**	932	**796**	**2.10**	11.480	Ld
	GL90TE	8.85	1/4	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	167	303	**773**	**1.78**	932	**796**	**2.06**	9.780	Ld
	GL90TG	8.85	1/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	168	303	**773**	**1.71**	932	**796**	**1.97**	9.810	Ld
	GL90MG	8.85	1/4	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V	-	391	**772**	**1.83**	947	**800**	**2.11**	10.610	Ld
	GLY90RDa	9.09	1/4	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	198	348	**874**	**1.95**	1053	**900**	**2.25**	10.660	Lc
	GLY90RDb	9.09	1/4	HMBP	F	115V 60Hz ~1	CSR	R	C-V	198	348	**874**	**2.10**	1053	**900**	**2.42**	10.760	Lc
	GLY12RGa	10.60	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	-	405	**1007**	**1.90**	1216	**1038**	**2.22**	10.500	Ld
	GLY12RGb	10.60	3/8	HBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	-	405	**1007**	**2.07**	1216	**1038**	**2.40**	10.600	Ld
	GLY12RRa (**)	10.70	3/8	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	228	400	**1005**	**1.90**	1211	**1035**	**2.20**	10.300	Ld
	GLY12RRb (**)	10.70	3/8	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	228	400	**1005**	**2.01**	1211	**1035**	**2.32**	10.400	Ld
	GPY12RDa	12.10	3/8	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	280	480	**1150**	**1.95**	1375	**1180**	**2.25**	12.110	Pd
	GPY12RDb	12.10	3/8	HMBP	F	115V 60Hz ~1	CSR	R	C-V	280	480	**1150**	**2.11**	1375	**1180**	**2.44**	12.210	Pd
	GP14PE	14.17	3/8	HMBP	F	115V 60Hz ~1	RSIR	R	C	222	437	**1168**	**1.76**	1413	**1205**	**2.03**	11.500	Pd
	GP14TE	14.17	3/8	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	222	437	**1168**	**1.76**	1413	**1205**	**2.03**	12.180	Pd
	GP14TG	14.17	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	222	437	**1168**	**1.76**	1413	**1205**	**2.03**	11.775	Pd
	GPY14RDa	14.32	1/2	HBP	F	115V 60Hz ~1	CSIR	R	C-V	-	317	**1234**	**1.78**	2012	**1467**	**2.22**	11.970	Pd
	GPY14RDb	14.32	1/2	HBP	F	115V 60Hz ~1	CSR	R	C-V	-	317	**1234**	**1.89**	2012	**1467**	**2.36**	11.970	Pd
	GP16TE	16.15	3/8	HBP	F	115V 60Hz ~1	CSIR	R	C-V	-	556	**1408**	**1.69**	1697	**1450**	**1.96**	11.980	Pd
	GP16TG	16.15	3/8	HBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	-	556	**1408**	**1.74**	1697	**1450**	**2.00**	11.775	Pd
	GPT16RG	16.15	1/2	HBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	-	650	**1515**	**2.02**	1827	**1560**	**2.33**	12.220	Pd
	GPY16RDa	16.15	1/2	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	349	614	**1518**	**1.88**	1822	**1560**	**2.17**	12.095	Pd
	GPY16RDb	16.15	1/2	HMBP	F	115V 60Hz ~1	CSR	R	C-V	349	614	**1518**	**2.00**	1822	**1560**	**2.31**	12.200	Pd
	GX18TG	18.40	1/2	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	333	630	**1625**	**1.87**	1957	**1673**	**2.17**	15.900	Xc
	GX23TG	23.20	5/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	429	792	**2021**	**1.71**	2433	**2080**	**1.98**	17.000	Xd
	GS26T3	25.93	3/4	HMBP	F	400/440V 50/60Hz ~3	3PHASE	-	C-V	307	824	**2419**	**2.07**	2935	**2500**	**2.40**	22.700	Sc
	GS26TG	25.93	3/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	307	824	**2419**	**2.06**	2935	**2500**	**2.40**	22.700	Sc
	GS30TG	29.95	7/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	370	920	**2865**	**2.23**	3527	**2980**	**2.61**	23.000	Sd
	GS34TF	34.42	1	HMBP	F	220-230V 60Hz ~1	CSR	R	C-V	550	1247	**3327**	**2.17**	3990	**3420**	**2.50**	22.700	Sd

Green Cooling Models
New Models

(*) Or HFO1234yf / See design drawing on page 62
R134a: W (A) x 1.18 = kcal/h (B) R134a: W (C) x 1.02 = kcal/h (D) W x 0.86 = kcal /h
R134a: W (E) x 0.85 = kcal/h (F) R134a: W (G) x 0.97 = kcal/h (H)
(**) Under development

R134a (*) HMBP • 50 | 60 Hz — Variable Speed 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		kcal/h	COP		
	GLT99FSN	9.95	HMBP	F	220-240V 50/60Hz ~1 100-127V 50/60Hz ~1 (**)	ECM	C-V	1800	115	205	**542**	**2.52**	658	**560**	**2.92**	11.2	Lc
								2100	135	242	**630**	**2.60**	764	**651**	**2.98**		
								2400	153	275	**712**	**2.54**	860	**734**	**2.92**		
								3000	188	340	**868**	**2.42**	1046	**894**	**2.77**		
								3600	222	391	**1030**	**2.30**	1253	**1065**	**2.62**		

R134a (*) LBP | MBP | HBP • DC 50 | 60 Hz — Mobile 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			
									-30	-25		-10	+10	-23.3			
										W	COP			kcal/h	COP		
	GD30FDC 12-42V	3.0	LBP MBP HBP	S / F	12-24-42V DC	ECM	C	1500	18	**24**	**0.97**	57	150	**28**	**1.24**	5.4	Db
								2000	25	**34**	**0.98**	82	210	**40**	**1.28**		
								2500	30	**42**	**0.96**	104	264	**50**	**1.26**		
								3000	35	**49**	**0.95**	122	-	**58**	**1.24**		
								3500	39	**54**	**0.94**	136	-	**64**	**1.22**		
	GD30FDC Dual (**)	3.0	LBP MBP HBP	S / F	12-24-42V DC 100-240V 50/60Hz	ECM	C	1500	18	**24**	**0.97**	57	150	**28**	**1.24**	5.5	Db
								2000	25	**34**	**0.98**	82	210	**40**	**1.28**		
								2500	30	**42**	**0.96**	104	-	**50**	**1.26**		
								3000	35	**49**	**0.95**	122	-	**58**	**1.24**		
								3500	39	**54**	**0.94**	-	-	**64**	**1.22**		
	GD30FDC 48-56V (**)	3.0	LBP MBP HBP	S / F	48-56V DC	ECM	C	1500	18	**24**	**0.97**	57	150	**28**	**1.24**	5.4	Db
								2000	25	**34**	**0.98**	82	210	**40**	**1.28**		
								2500	30	**42**	**0.96**	104	264	**50**	**1.26**		
								3000	35	**49**	**0.95**	122	-	**58**	**1.24**		
								3500	39	**54**	**0.94**	136	-	**64**	**1.22**		

Green Cooling Models

(*) Or HFO1234yf / See design drawing on page 62

R134a: W (A) x 1.18 = kcal/h (B) R134a: W (C) x 1.02 = kcal/h (D) W x 0.86 = kcal /h

R134a: W (E) x 0.85 = kcal/h (F) R134a: W (G) x 0.97 = kcal/h (H)

(**) Under development

R134a (*) HMBP • DC

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 ºC							WEIGHT Kg	DESIGN
								Cecomaf (W)					Ashrae			
								-25	-15	+5		+10	+7.2			
										W	COP		kcal/h	COP		
GLT80TDC 24-42V	8.1	HMBP	F	24-42V DC	ECM	C	1500	78	139	**362**	**1.93**	421	**369**	**2.19**	8.4	Lc
							2000	107	190	**487**	**2.06**	565	**497**	**2.34**		
							2500	135	238	**601**	**1.99**	710	**613**	**2.26**		
							3000	161	281	**711**	**1.91**	840	**725**	**2.17**		
							3500	185	320	**818**	**1.82**	962	**834**	**2.07**		

(*) Or HFO1234yf / See design drawing on page 62

R134a: W (A) x 1.18 = kcal/h (B) R134a: W (C) x 1.02 = kcal/h (D) W x 0.86 = kcal /h

R134a: W (E) x 0.85 = kcal/h (F) R134a: W (G) x 0.97 = kcal/h (H)

(**) Under development

	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

	Conditions			
	HCB CECOMAF		HCB ASHRAE	
	MBP (E)	VHBP (G)	MBP (F)	VHBP (H)
Evaporating temperature ºC	-10	25	-10	25
Condensing temperature ºC	55	70	55	70
Liquid temperature ºC	55	70	46	61
Suction temperature ºC	32	32	35	35
Ambient temperature ºC	32	32	35	35

Measurement conversion

R134a

W (A) x 1.18 = kcal/h (B) W (E) x 0.85 = kcal/h (F)

W (C) x 1.02 = kcal/h (D) W (G) x 0.97 = kcal/h (H) S compressor's range can be provided with tube or valve

2.

Compressors Catalogue

R404A/R507

R404A • R507 (*) 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		kcal/h	COP		
		cm³	hp														Kg	
	ML45FB	4.56	1/6	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	52	100	**133**	**0.66**	274	**170**	**0.94**	8.550	Lb
	ML45FG	4.56	1/6	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	52	100	**133**	**0.68**	274	**170**	**0.96**	10.870	Lc
	MLY45LAa	4.56	1/6	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	61	118	**157**	**0.92**	317	**200**	**1.30**	10.620	Lc
	MLY45LAb	4.56	1/6	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	61	118	**157**	**0.98**	317	**200**	**1.38**	10.620	Lc
	MUY45LAa (**)	4.50	1/6	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	67	129	**173**	**1.03**	355	**220**	**1.47**	8.800	Ub
	MUY45LAb (**)	4.50	1/6	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	67	129	**173**	**1.10**	355	**220**	**1.56**	8.800	Ub
	ML60FB	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	69	139	**186**	**0.85**	371	**236**	**1.20**	8.910	Lc
	ML60FG	5.98	1/5	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	69	134	**177**	**0.71**	351	**225**	**1.01**	10.870	Lc
	MLY60LAa	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	86	168	**221**	**0.90**	428	**280**	**1.26**	10.220	Lc
	MLY60LAb	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	86	168	**221**	**0.96**	428	**280**	**1.36**	10.310	Lc
	ML80FB	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	99	189	**251**	**0.77**	505	**319**	**1.09**	9.510	Lc
	ML80FG	8.10	1/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	99	190	**252**	**0.77**	505	**320**	**1.08**	12.200	Ld
	MLY80LAa	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	104	207	**275**	**0.91**	548	**350**	**1.28**	11.110	Ld
	MLY80LAb	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	104	207	**275**	**0.98**	548	**350**	**1.38**	11.210	Ld
	ML90FB	8.86	1/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	104	207	**275**	**0.83**	548	**350**	**1.16**	9.810	Ld
	ML90FG	8.86	1/3	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	104	207	**275**	**0.80**	548	**350**	**1.13**	10.777	Ld
	MLY90LAa	9.09	1/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	121	236	**311**	**0.91**	612	**395**	**1.28**	12.110	Ld
	MLY90LAb	9.09	1/3	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	121	236	**311**	**0.98**	612	**395**	**1.38**	12.210	Ld
	MLY12LAa	10.70	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	113	273	**380**	**0.94**	808	**490**	**1.32**	11.300	Ld
	MLY12LAb	10.70	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	113	273	**380**	**1.00**	808	**490**	**1.41**	11.300	Ld
	MLY12LGa (**)	10.70	3/8	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	113	273	**380**	**0.85**	808	**490**	**1.20**	10.800	Ld
	MLY12LGb (**)	10.70	3/8	LBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	113	273	**380**	**0.92**	808	**490**	**1.30**	10.800	Ld
	MPT12LA	12.10	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	194	347	**451**	**1.01**	873	**570**	**1.42**	12.260	Pd
	MP14FB	14.17	1/2	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	121	304	**421**	**0.79**	877	**540**	**1.12**	12.067	Pd
	MP14FG	14.17	1/2	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	121	304	**421**	**0.79**	877	**540**	**1.12**	12.457	Pd
	MPT14LA	14.32	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	242	419	**534**	**0.99**	984	**670**	**1.38**	12.310	Pd
	MPT16LA	16.15	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	245	462	**605**	**1.00**	1168	**765**	**1.40**	12.503	Pd
	MPT18LA (**)	18.00	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	279	502	**656**	**1.15**	1252	**825**	**1.67**	12.700	Pd
	MX18FBa	18.40	5/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	173	396	**546**	**0.96**	1147	**700**	**1.36**	16.850	Xd
	MX21FBa	20.72	3/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	212	463	**630**	**0.96**	1296	**805**	**1.35**	17.010	Xd
	MX21FG	20.72	3/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	212	463	**630**	**0.96**	1296	**805**	**1.35**	16.200	Xd
	MX23FBa	23.20	7/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	259	534	**718**	**0.96**	1455	**915**	**1.35**	16.700	Xd
	MX23FG	23.20	7/8	LBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	259	534	**718**	**0.95**	1455	**915**	**1.34**	17.800	Xd
	MS26F3	25.93	3/4	LBP	F	400/440V 50/60Hz ~3	3PHASE	-	C-V	173	548	**777**	**0.95**	1626	**1000**	**1.35**	20.800	Sd
	MS26FB	25.93	3/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	182	571	**814**	**0.97**	1737	**1050**	**1.37**	22.600	Sd
	MS26FG	25.93	3/4	LBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	173	548	**777**	**0.95**	1626	**1000**	**1.35**	22.600	Sd
	MS30F3	29.95	7/8	LBP	F	400/440V 50/60Hz ~3	3PHASE	-	C-V	207	655	**931**	**0.93**	1968	**1200**	**1.32**	24.000	Sd
	MS30FB	29.95	7/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	207	656	**932**	**0.95**	1969	**1201**	**1.35**	22.700	Sd
	MS34F3	34.42	1	LBP	F	400/440V 50/60Hz ~3	3PHASE	-	C-V	242	762	**1085**	**0.99**	2311	**1400**	**1.40**	22.900	Sd
	MS34FB	34.42	1	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	242	759	**1083**	**0.95**	2311	**1397**	**1.35**	22.700	Sd

Green Cooling Models
New Models

(*) Or R407B / See design drawing on page 62
R404A: W (A) x 1.29 = kcal/h (B) R404A: W (C) x 1.08 = kcal/h (D) W x 0.86 = kcal /h
(**) Under development

R404A • R507 (*) LBP • 60 Hz

	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			
										-40	-30	-25 W	-25 COP	-10	-23.3 kcal/h	-23.3 COP		
	ML45FG	4.56	1/6	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	61	117	**157**	**0.68**	321	**200**	**0.97**	10.870	Lc
	ML45FR	4.56	1/6	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	61	117	**157**	**0.72**	321	**200**	**1.01**	9.615	Lc
	MLY45LRa (**)	4.56	1/6	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	75	144	**192**	**0.87**	393	**245**	**1.22**	10.300	Lc
	MLY45LRb (**)	4.56	1/6	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	75	144	**192**	**0.93**	393	**245**	**1.30**	10.300	Lc
	ML60FG	5.98	1/5	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	81	157	**207**	**0.70**	411	**263**	**0.99**	10.870	Lc
	ML60FR	5.98	1/5	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	81	157	**207**	**0.72**	411	**263**	**1.01**	9.541	Lc
	MLY60LDa	5.98	1/5	LBP	F	115V 60Hz ~1	CSIR	R	C-V	102	197	**259**	**0.89**	501	**328**	**1.25**	10.460	Lc
	MLY60LDb	5.98	1/5	LBP	F	115V 60Hz ~1	CSR	R	C-V	102	197	**259**	**0.95**	501	**328**	**1.34**	10.560	Lc
	ML80FG	8.10	1/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	117	223	**296**	**0.76**	590	**376**	**1.07**	12.200	Ld
	ML80FR	8.10	1/4	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	117	223	**296**	**0.75**	590	**376**	**1.05**	11.970	Ld
	ML90FG	8.86	1/3	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	121	242	**323**	**0.80**	642	**410**	**1.12**	10.777	Ld
	ML90FR	8.86	1/3	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	121	242	**323**	**0.79**	642	**410**	**1.11**	11.970	Ld
	MLT90CD	9.09	1/3	LBP	F	115V 60Hz ~1	RSCR	P	C	164	290	**382**	**1.03**	770	**485**	**1.45**	11.400	Ld
	MLT90CDc	9.09	1/3	LBP	S	115V 60Hz ~1	CSR	R	C-V	159	284	**373**	**0.99**	750	**474**	**1.40**	11.400	Ld
	MLT90LD	9.09	1/4	LBP	F	115V 60Hz ~1	CSR	R	C-V	159	284	**373**	**0.99**	750	**474**	**1.40**	11.800	Ld
	MLY12LGa (**)	10.70	3/8	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	131	320	**446**	**0.87**	948	**572**	**1.23**	10.800	Ld
	MLY12LGb (**)	10.70	3/8	LBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	131	320	**446**	**0.92**	948	**572**	**1.30**	10.800	Ld
	MLY12LFa	10.70	3/8	LBP	F	208-230V 60Hz ~1	CSIR	R	C-V	131	320	**446**	**0.91**	948	**572**	**1.29**	10.800	Ld
	MLY12LFb	10.70	3/8	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	131	320	**446**	**0.94**	948	**572**	**1.33**	10.800	Ld
	MPT12CD	12.10	3/8	LBP	F	115V 60Hz ~1	RSCR	R	C	225	397	**515**	**1.01**	993	**650**	**1.41**	12.350	Pd
	MPT12LD	12.10	3/8	LBP	F	115V 60Hz ~1	CSR	R	C-V	225	397	**515**	**1.01**	993	**650**	**1.41**	13.500	Pd
	MP14FE	14.17	1/2	LBP	F	115V 60Hz ~1	CSIR	R	C-V	142	355	**493**	**0.77**	1026	**632**	**1.10**	13.670	Pd
	MP14FG	14.17	1/2	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	142	355	**493**	**0.82**	1026	**632**	**1.15**	12.457	Pd
	MPT14LD (**)	14.32	1/2	LBP	F	115V 60Hz ~1	CSR	R	C-V	164	412	**571**	**0.91**	1114	**730**	**1.27**	13.400	Pd
	MPT14LF	14.32	1/2	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	268	472	**610**	**0.95**	1190	**770**	**1.34**	13.400	Pd
	MX21FG	20.72	3/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	247	540	**735**	**0.94**	1515	**940**	**1.32**	16.200	Xd
	MX23FG	23.20	7/8	LBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	303	627	**843**	**0.93**	1711	**1075**	**1.32**	17.800	Xd
	MS26F3	25.93	3/4	LBP	F	400/440V 50/60Hz ~3	3PHASE	-	C-V	202	641	**909**	**0.92**	1902	**1170**	**1.31**	20.800	Sd
	MS26FF	25.93	3/4	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	202	641	**909**	**0.91**	1902	**1170**	**1.30**	22.600	Sd
	MS26FG	25.93	3/4	LBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	202	641	**909**	**0.92**	1902	**1170**	**1.31**	22.600	Sd
	MS30F3	29.95	7/8	LBP	F	400/440V 50/60Hz ~3	3PHASE	-	C-V	242	763	**1086**	**0.94**	2302	**1400**	**1.32**	24.000	Sd
	MS30FF	29.95	7/8	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	242	763	**1086**	**0.92**	2302	**1400**	**1.31**	22.700	Sd
	MS30FG	29.95	7/8	LBP	F	230V 60Hz ~1	CSR	R	C-V	242	763	**1086**	**0.95**	2302	**1400**	**1.36**	22.700	Sd
	MS34F3	34.42	1	LBP	F	400/440V 50/60Hz ~3	3PHASE	-	C-V	277	885	**1263**	**0.96**	2696	**1630**	**1.35**	22.900	Sd

Green Cooling Models
New Models

(*) Or R407B / See design drawing on page 62
R404A: W (A) x 1.29 = kcal/h (B) R404A: W (C) x 1.08 = kcal/h (D) W x 0.86 = kcal /h
(**) Under development

R404A (*) HMBP | HBP • 50 Hz

	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		kcal/h	COP		
	ML40TB	4.05	1/6	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	132	212	**470**	**1.41**	555	**510**	**1.74**	10.570	Lc
	ML40TG	4.05	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	132	212	**470**	**1.41**	555	**510**	**1.74**	9.117	Lc
	ML45TB	4.50	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	150	237	**525**	**1.47**	621	**570**	**1.82**	9.170	Lc
	ML45TG	4.50	1/5	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	150	237	**525**	**1.47**	621	**570**	**1.82**	10.570	Lc
	ML60TB	5.68	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	165	276	**643**	**1.50**	765	**700**	**1.85**	9.855	Lc
	ML60TG	5.68	1/4	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	165	276	**643**	**1.50**	765	**700**	**1.85**	10.570	Lc
	MLY60RAa	5.98	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	210	402	**234**	**1.82**	77	**172**	**2.86**	10.620	Lc
	MLY60RAb	5.98	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	210	398	**271**	**1.94**	135	**218**	**2.82**	10.700	Lc
	ML80TB	7.57	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	225	383	**875**	**1.61**	1034	**950**	**1.99**	9.710	Ld
	ML80TG	7.57	3/8	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	225	383	**875**	**1.61**	1034	**950**	**1.99**	11.810	Ld
	MLY80RAa	8.10	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	280	461	**1049**	**1.84**	1243	**1140**	**2.27**	11.420	Ld
	MLY80RAb	8.10	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	280	461	**1049**	**1.99**	1243	**1140**	**2.46**	11.530	Ld
	ML90TB	8.86	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	280	461	**1049**	**1.61**	1243	**1140**	**1.98**	12.310	Ld
	ML90TG	8.86	3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	280	461	**1049**	**1.61**	1243	**1140**	**1.98**	11.291	Ld
	MLY90RAa	9.09	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	316	509	**1125**	**1.73**	1327	**1220**	**2.13**	11.420	Ld
	MLY90RAb	9.09	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	316	508	**1129**	**1.89**	1333	**1225**	**2.34**	11.530	Ld
	MPT12RA	12.10	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	437	723	**1559**	**1.91**	1823	**1685**	**2.35**	12.300	Pd
	MPT12RG (**)	12.10	3/8	HBP	F	200-240/220-230V 50/60Hz ~1	CSR	R	C-V	-	697	**1503**	**1.91**	1758	**1625**	**2.35**	12.400	Pd
	MPT14RA	14.32	1/2	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	789	**1750**	**1.78**	2068	**1900**	**2.20**	12.370	Pd
	MX16TBa	16.03	7/8	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	814	**1868**	**1.74**	2212	**2030**	**2.15**	16.800	Xd
	MX18TBa	18.40	7/8	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	931	**2144**	**1.76**	2539	**2330**	**2.18**	16.800	Xd
	MX18TG	18.40	7/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	551	932	**2143**	**1.76**	2540	**2330**	**2.18**	17.000	Xd
	MX21TBa	20.72	1	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	620	**2144**	**1.64**	3265	**2620**	**2.15**	16.670	Xd
	MX21TG	20.72	1	HBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	-	810	**2138**	**1.63**	3281	**2620**	**2.15**	17.600	Xd
	MS18T3	18.10	7/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	-	C-V	421	834	**2124**	**1.89**	2543	**2320**	**2.35**	20.000	Sb
	MS22T3	21.75	1	HMBP	F	400/440V 50/60Hz ~3	3PHASE	-	C-V	451	970	**2560**	**1.98**	3072	**2800**	**2.45**	20.000	Sb
	MS22TB	21.75	1	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	451	967	**2550**	**2.02**	3060	**2789**	**2.50**	20.500	Sc
	MS26T3	25.93	1 3/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	-	C-V	671	1289	**3166**	**1.98**	3769	**3450**	**2.45**	18.600	Sd
	MS26TB	25.93	1 3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	671	1288	**3164**	**2.00**	3767	**3448**	**2.46**	22.150	Sd
	MS26TG	25.93	1 3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	671	1289	**3166**	**2.00**	3769	**3450**	**2.46**	23.000	Sd
	MS34T3	34.42	1 5/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	-	C-V	1002	1850	**4205**	**1.79**	4930	**4550**	**2.20**	22.800	Sd
	MS34TB	34.42	1 5/8	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	1850	**4205**	**1.89**	4930	**4550**	**2.30**	22.250	Sd
	MS34TG	34.42	1 5/8	HBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	-	1850	**4205**	**1.89**	4930	**4550**	**2.30**	22.000	Sd

Green Cooling Models
New Models

(*) Or R407B / See design drawing on page 62
R404A: W (A) x 1.29 = kcal/h (B) R404A: W (C) x 1.08 = kcal/h (D) W x 0.86 = kcal /h
(**) Under development

R404A (*) HMBP | HBP • 60 Hz

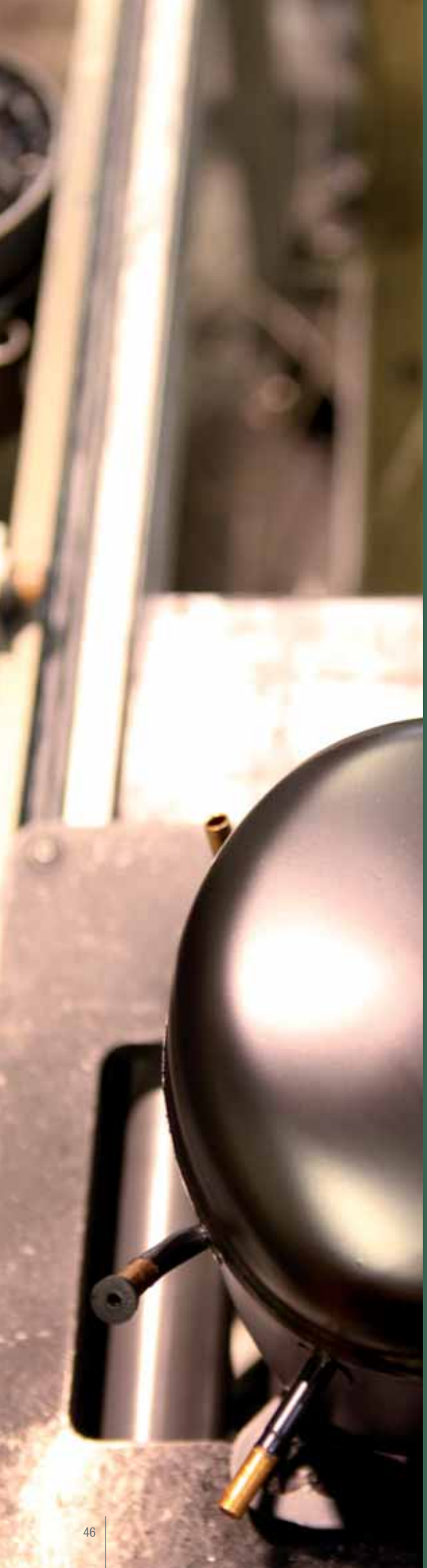
	MODEL	DISPLACEMENT cm³	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C							WEIGHT Kg	DESIGN
										Cecomaf (W)					Ashrae			
										-25	-15	5		10	7.2			
												W	COP		kcal/h	COP		
	ML40TG	4.05	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	155	248	**553**	**1.39**	653	**600**	**1.70**	9.117	Lc
	ML45TG	4.50	1/5	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	176	277	**614**	**1.42**	726	**667**	**1.74**	10.570	Lc
	ML60TG	5.68	1/4	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	193	323	**753**	**1.49**	896	**820**	**1.83**	10.570	Lc
	ML60TR	5.68	1/4	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	193	323	**753**	**1.48**	896	**820**	**1.83**	10.580	Lc
	MLY60RDa	5.98	1/4	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	250	473	**322**	**1.84**	161	**259**	**2.76**	10.620	Lc
	MLY60RDb	5.98	1/4	HMBP	F	115V 60Hz ~1	CSR	R	C-V	250	408	**900**	**1.83**	1059	**975**	**2.27**	10.700	Lc
	ML80TG	7.57	3/8	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	263	448	**1022**	**1.59**	1208	**1110**	**1.96**	11.810	Ld
	MLY80RDa	8.10	3/8	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	329	541	**1224**	**1.75**	1449	**1330**	**2.15**	11.300	Ld
	MLY80RDb	8.10	3/8	HMBP	F	115V 60Hz ~1	CSR	R	C-V	329	541	**1224**	**1.81**	1449	**1330**	**2.22**	11.400	Ld
	ML90TG	8.86	3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	329	539	**1227**	**1.54**	1454	**1334**	**1.89**	11.291	Ld
	MPT12RG (**)	12.10	3/8	HBP	F	200-240/220-230V 50/60Hz ~1	CSR	R	C-V	-	759	**1718**	**1.82**	2035	**1867**	**2.23**	12.400	Pd
	MX18TG	18.40	7/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	644	1090	**2507**	**1.74**	2972	**2726**	**2.15**	17.000	Xd
	MX21TG	20.72	1	HBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	-	940	**2468**	**1.61**	3789	**3025**	**2.12**	17.600	Xd
	MS18T3	18.10	7/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	-	C-V	491	971	**2471**	**1.82**	2959	**2700**	**2.25**	20.000	Sb
	MS22T3	21.75	1	HMBP	F	400/440V 50/60Hz ~3	3PHASE	-	C-V	527	1135	**2995**	**1.94**	3595	**3276**	**2.40**	20.000	Sb
	MS26T3	25.93	1 3/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	-	C-V	785	1508	**3705**	**1.84**	4411	**4037**	**2.25**	18.600	Sd
	MS26TG	25.93	1 3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	785	1508	**3705**	**1.93**	4411	**4037**	**2.37**	23.000	Sd
	MS34T3	34.42	1 5/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	-	C-V	1172	2164	**4916**	**1.71**	5764	**5320**	**2.10**	22.800	Sd
	MS34TG	34.42	1 5/8	HBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	-	1170	**4385**	**1.63**	6578	**5320**	**2.10**	22.000	Sd

Green Cooling Models
New Models

(*) Or R407B / See design drawing on page 62
R404A: W (A) x 1.29 = kcal/h (B) R404A: W (C) x 1.08 = kcal/h (D) W x 0.86 = kcal /h
(**) Under development

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

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



2.

Compressors Catalogue

R290/R600a

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			
									-40	-30	-25 W	-25 COP	-10	-23.3 kcal/h	-23.3 COP	Kg	
ND36AA (**)	3.60	1/10	LBP	S	220-240V 50Hz ~1	RSIR	P	C	44	83	**109**	**0.82**	214	**127**	**1.07**	6.40	Db
NLY45LAa	4.56	1/6	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	62	116	**152**	**1.04**	298	**176**	**1.35**	10.280	Lc
NLY45LAb	4.56	1/6	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	62	116	**152**	**1.11**	298	**176**	**1.44**	10.370	Lc
NUT55CAa	5.50	1/5	LBP	F	220-240V 50Hz ~1	RSIR	P	C	88	152	**196**	**1.27**	382	**227**	**1.64**	9.100	Ub
NUT55CAb	5.50	1/5	LBP	F	220-240V 50Hz ~1	RSCR	P	C	88	152	**196**	**1.39**	382	**227**	**1.80**	9.200	Ub
NLY60CAa	5.98	1/5	LBP	F	220-240V 50Hz ~1	RSIR	P	C	85	152	**198**	**1.03**	389	**230**	**1.33**	10.790	Lc
NLY60CAb	5.98	1/5	LBP	F	220-240V 50Hz ~1	RSCR	P	C	85	152	**198**	**1.10**	389	**230**	**1.42**	10.790	Lc
NLY60LAa	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	85	152	**198**	**1.03**	389	**230**	**1.33**	9.680	Lc
NLY60LAb	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	85	152	**198**	**1.10**	389	**230**	**1.42**	9.770	Lc
NUT60CAa	6.00	1/5	LBP	F	220-240V 50Hz ~1	RSIR	P	C	101	175	**226**	**1.30**	431	**261**	**1.68**	9.200	Ub
NUT60CAb	6.00	1/5	LBP	S/F	220-240V 50Hz ~1	RSCR	P	C	101	175	**226**	**1.41**	431	**261**	**1.82**	9.300	Ub
NUT70CAa	6.70	1/5	LBP	F	220-240V 50Hz ~1	RSIR	P	C	109	195	**250**	**1.30**	463	**288**	**1.68**	9.200	Ub
NUT70CAb	6.70	1/5	LBP	F	220-240V 50Hz ~1	RSCR	P	C	109	195	**250**	**1.39**	463	**288**	**1.80**	9.300	Ub
NLY80LAa	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	113	201	**264**	**1.04**	525	**306**	**1.35**	11.070	Ld
NLY80LAb	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	113	201	**264**	**1.10**	525	**306**	**1.43**	11.180	Ld
NLY90LAa	9.09	1/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	130	236	**307**	**1.06**	591	**355**	**1.37**	10.570	Ld
NLY90LAb	9.09	1/3	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	130	236	**307**	**1.11**	591	**355**	**1.44**	10.680	Ld
NLY12LAa	10.70	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	163	283	**364**	**0.96**	689	**420**	**1.24**	11.200	Ld
NLY12LAb	10.70	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	163	283	**364**	**1.01**	689	**420**	**1.31**	11.300	Ld
NPY12LAa	12.10	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	174	309	**402**	**1.05**	783	**465**	**1.35**	12.300	Pd
NPY12LAb	12.10	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	174	309	**402**	**1.15**	783	**465**	**1.49**	12.300	Pd
NPY14LAa	14.32	1/2	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	217	376	**485**	**1.05**	928	**560**	**1.35**	12.800	Pd
NPY14LAb	14.32	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	217	376	**485**	**1.14**	928	**560**	**1.48**	12.800	Pd
NPT16LA	16.10	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	254	440	**564**	**1.16**	1062	**650**	**1.50**	11.000	Pd
NPT18LA (**)	18.00	5/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	288	510	**646**	**1.16**	1286	**745**	**1.51**	12.700	Pd
NX21FBa	20.72	3/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	267	517	**675**	**1.11**	1275	**780**	**1.44**	17.550	Xd
NX23FBa	23.20	7/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	297	572	**746**	**1.09**	1411	**862**	**1.41**	16.800	Xd

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			
									-40	-30	-25 W	-25 COP	-10	-23.3 kcal/h	-23.3 COP	Kg	
NLY45LRa	4.56	1/6	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	70	133	**177**	**1.00**	364	**207**	**1.30**	10.500	Lc
NLY45LRb	4.56	1/6	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	68	149	**184**	**1.07**	263	**207**	**1.38**	10.300	Lc
NLY60LRa	5.98	1/5	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	106	200	**260**	**1.10**	492	**300**	**1.42**	10.150	Lc
NLY60LRb	5.98	1/5	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	106	200	**260**	**1.18**	492	**300**	**1.53**	10.250	Lc
NLY80LRa	8.10	1/4	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	139	246	**322**	**1.06**	636	**373**	**1.37**	9.620	Lc
NLY80LRb	8.10	1/4	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	139	246	**322**	**1.13**	636	**373**	**1.46**	9.730	Lc
NLY90LRa (**)	9.09	1/3	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	153	275	**359**	**1.05**	704	**417**	**1.36**	11.200	Ld
NLY90LRb (**)	9.09	1/3	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	153	275	**359**	**1.12**	704	**417**	**1.44**	11.200	Ld
NPY12LRa	12.10	1/8	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	200	361	**470**	**1.05**	922	**546**	**1.35**	12.300	Pd
NPY12LRb	12.10	1/8	LBP	F	115-127V 60Hz ~1	CSR	R	C-V	200	361	**470**	**1.12**	922	**546**	**1.44**	12.300	Pd
NPY14LFa (**)	14.32	1/2	LBP	F	208-230V 60Hz ~1	CSIR	R	C-V	257	465	**605**	**1.42**	1187	**702**	**1.83**	12.300	Pd
NPY14LFb (**)	14.32	1/2	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	257	465	**605**	**1.56**	1187	**702**	**2.01**	12.300	Pd

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		kcal/h	COP		
	ND30MBd (**)	3.10	1/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	89	142	**318**	**1.80**	376	**328**	**2.11**	6.400	Dd
	ND36MBd (**)	3.60	1/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	104	167	**374**	**1.67**	442	**385**	**1.95**	6.500	Dd
	NLY45RAa	4.56	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	148	237	**518**	**2.13**	609	**530**	**2.51**	10.220	Lc
	NLY45RAb	4.56	1/5	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	148	237	**518**	**2.34**	609	**530**	**2.75**	10.310	Lc
	NLY60RAa	5.98	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	211	325	**703**	**2.20**	829	**720**	**2.58**	10.990	Lc
	NLY60RAb	5.98	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	211	325	**703**	**2.38**	829	**720**	**2.79**	11.080	Lc
	NLY75RAa	7.57	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	243	390	**862**	**2.25**	1017	**883**	**2.64**	10.000	Ld
	NLY75RAb	7.57	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	243	390	**862**	**2.42**	1017	**883**	**2.84**	10.100	Ld
	NLY80RAa	8.10	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	258	411	**930**	**2.21**	1104	**955**	**2.60**	11.380	Lc
	NLY80RAb	8.10	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	258	411	**930**	**2.38**	1104	**955**	**2.80**	11.490	Lc
	NLY90RAa	9.09	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	306	480	**1054**	**2.18**	1245	**1080**	**2.56**	10.953	Ld
	NLY90RAb	9.09	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	306	480	**1054**	**2.36**	1245	**1080**	**2.78**	11.390	Ld
	NLY12RAa (**)	10.70	1/2	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	354	556	**1220**	**1.99**	1441	**1250**	**2.35**	11.240	Ld
	NLY12RAb (**)	10.70	1/2	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	354	556	**1220**	**2.27**	1441	**1250**	**2.67**	11.340	Ld
	NUY70RAa (**)	6.70	1/3	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	246	377	**820**	**2.37**	967	**840**	**2.76**	10.000	Uc
	NUY70RAb (**)	6.70	1/3	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	246	377	**820**	**2.51**	967	**840**	**2.92**	10.000	Uc
	NPY12RAa	12.10	1/2	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	635	**1460**	**2.08**	1735	**1500**	**2.45**	12.405	Pd
	NPY12RAb	12.10	1/2	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	635	**1460**	**2.28**	1735	**1500**	**2.70**	12.475	Pd
	NPT14RA	14.32	1/2	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	763	**1709**	**2.26**	2085	**1776**	**2.69**	12.227	Pd
	NX21TBa	20.72	7/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	601	973	**2267**	**2.18**	2705	**2334**	**2.55**	17.500	Xd

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		kcal/h	COP		
	NLY45RRa	4.56	1/5	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	180	282	**618**	**2.08**	729	**633**	**2.41**	9.270	Lc
	NLY45RRb	4.56	1/5	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	180	282	**618**	**2.25**	729	**633**	**2.61**	9.380	Lc
	NLY60RRa	5.98	1/5	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	245	385	**827**	**2.11**	971	**845**	**2.43**	9.690	Lc
	NLY60RRb	5.98	1/5	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	245	385	**827**	**2.29**	971	**845**	**2.65**	9.800	Lc
	NLY75RRa	7.57	1/4	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	293	462	**1019**	**2.00**	1203	**1050**	**2.50**	10.800	Ld
	NLY75RRb	7.57	1/4	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	293	462	**1019**	**2.36**	1203	**1050**	**2.77**	10.800	Ld
	NLY80RRa	8.10	1/4	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	314	497	**1098**	**2.12**	1297	**1125**	**2.45**	9.951	Ld
	NLY80RRb	8.10	1/4	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	314	497	**1098**	**2.31**	1297	**1125**	**2.67**	9.980	Ld
	NLY90RRa	9.09	1/3	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	357	562	**1239**	**2.19**	1462	**1269**	**2.56**	11.400	Ld
	NLY90RRb	9.09	1/3	HMBP	F	115-127V 60Hz ~1	CSR	R	C-V	357	562	**1239**	**2.36**	1462	**1269**	**2.76**	11.400	Ld

Green Cooling Models

New Models

(**) Under development / See design drawing on page 62

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

R290 HMBP • 50 | 60 Hz — Variable Speed 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		kcal/h	(W/W)		
	NLT60FSN (*)(**)	5.98	HMBP	F	220-240V 50/60Hz ~1 100-127V 50/60Hz ~1	ECM	C	1800	101	180	**476**	**2.76**	578	**466**	**3.08**	10.8	Lc
								2100	119	214	**557**	**2.79**	675	**545**	**3.12**		
								2400	136	244	**633**	**2.75**	764	**619**	**3.07**		
								3000	171	308	**787**	**2.63**	948	**770**	**2.94**		
								3600	203	358	**941**	**2.55**	1144	**920**	**2.85**		

R290 LBP • 50 | 60 Hz — Variable Speed 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			
									-40	-30	-25		-10	-23.3			
											W	COP		kcal/h	(W/W)		
	NPT12FSC (*)	12.10	LBP	F	220-240V 50/60Hz ~1 100-127V 50/60Hz ~1 (**)	ECM	C	1800	115	196	**257**	**1.18**	521	**300**	**1.52**	12.1	Pc
								2100	134	233	**306**	**1.28**	601	**352**	**1.65**		
								2400	152	268	**349**	**1.26**	680	**405**	**1.63**		
								3000	178	326	**419**	**1.25**	-	**485**	**1.60**		
								3600	216	393	**506**	**1.22**	-	**585**	**1.57**		

Green Cooling Models **(*) Different electronic driver depending on the voltage range. (**) Model under development. Provisional performances/data. / See design drawing on page 62**

	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
R290
W (A) x 1.17 = kcal/h (B)
W (C) x 1.03 = kcal/h (D) S compressor's range can be provided with tube or valve

R600a LBP • 50 Hz

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 W	-25 COP	-10	-23.3 kcal/h	-23.3 COP		
HD40AA	4.06	1/20	LBP	S	220-240V 50Hz ~1	RSIR	P	C	32	36	**44**	**0.67**	94	**50**	**0.86**	5.200	Db
HLY45AAa	4.56	1/12	LBP	S	220-240V 50Hz ~1	RSIR	P	C	23	36	**52**	**0.97**	111	**60**	**1.25**	7.150	Lb
HLY45AAb	4.56	1/12	LBP	S	220-240V 50Hz ~1	RSCR	P	C	24	37	**52**	**1.02**	112	**60**	**1.32**	7.150	Lb
HLY55AAa	5.46	1/9	LBP	S	220-240V 50Hz ~1	RSIR	P	C	28	44	**62**	**1.03**	130	**72**	**1.33**	9.250	Lb
HLY55AAb	5.46	1/9	LBP	S	220-240V 50Hz ~1	RSCR	P	C	29	44	**62**	**1.10**	131	**72**	**1.42**	9.250	Lb
HLY70AAa	6.65	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	41	59	**80**	**1.08**	162	**92**	**1.37**	9.450	Lb
HLY70AAb	6.65	1/8	LBP	S	220-240V 50Hz ~1	RSCR	P	C	40	59	**81**	**1.15**	164	**93**	**1.46**	9.450	Lb
HLY80AAa	8.10	1/7	LBP	S	220-240V 50Hz ~1	RSIR	P	C	54	74	**99**	**1.11**	201	**113**	**1.41**	9.450	Lb
HLY80AAb	8.10	1/7	LBP	S	220-240V 50Hz ~1	RSCR	P	C	54	74	**99**	**1.18**	203	**113**	**1.49**	9.450	Lb
HLY90AAa	9.09	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	67	84	**109**	**1.11**	231	**125**	**1.41**	9.850	Lc
HLY90AAb	9.09	1/6	LBP	S	220-240V 50Hz ~1	RSCR	P	C	65	85	**111**	**1.18**	234	**127**	**1.49**	9.850	Lc
HLY99AAa	9.95	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	69	90	**119**	**1.10**	249	**136**	**1.40**	10.950	Lc
HLY99AAb	9.95	1/6	LBP	S	220-240V 50Hz ~1	RSCR	P	C	67	90	**120**	**1.16**	250	**137**	**1.48**	10.950	Lc
HPY12AAa	12.10	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	79	107	**144**	**1.13**	301	**165**	**1.43**	11.130	Pc
HPY12AAb	12.10	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	79	107	**144**	**1.18**	301	**165**	**1.50**	11.230	Pc
HPY12AGa	12.10	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	79	107	**144**	**1.10**	301	**165**	**1.40**	10.900	Pc
HPY12AGb	12.10	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSCR	P	C	79	107	**144**	**1.10**	301	**165**	**1.40**	10.900	Pd
HPY14AAa	14.32	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	92	124	**166**	**1.13**	345	**190**	**1.43**	11.410	Pc
HPY14AAb	14.32	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	92	124	**166**	**1.19**	345	**190**	**1.50**	11.410	Pc
HPY14AJa	14.32	1/5	LBP	S	100V 50/60Hz ~1	RSIR	P	C	86	116	**157**	**1.01**	336	**180**	**1.28**	10.820	Pd
HPY14AJb	14.32	1/5	LBP	S	100V 50/60Hz ~1	RSCR	P	C	86	116	**157**	**1.07**	336	**180**	**1.35**	10.920	Pd
HPY16AAa	16.15	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	102	136	**181**	**1.14**	381	**208**	**1.44**	10.643	Pc
HPY16AAb	16.15	1/4	LBP	S	220-240V 50Hz ~1	RSCR	P	C	102	136	**181**	**1.19**	381	**208**	**1.51**	10.690	Pc

R600a LBP • 60 Hz

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 W	-25 COP	-10	-23.3 kcal/h	-23.3 COP		
HPY12AGa	12.10	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	92	126	**168**	**1.08**	351	**193**	**1.37**	10.900	Pc
HPY12AGb	12.10	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSCR	P	C	92	126	**168**	**1.08**	351	**193**	**1.37**	10.900	Pd
HPY14AJa	14.32	1/5	LBP	S	100V 50/60Hz ~1	RSIR	P	C	101	139	**187**	**1.06**	393	**215**	**1.34**	10.820	Pd
HPY14AJb	14.32	1/5	LBP	S	100V 50/60Hz ~1	RSCR	P	C	101	139	**187**	**1.12**	393	**215**	**1.41**	10.920	Pd

Green Cooling Models **/ See design drawing on page 62**

W (A) x 1.15 = kcal/h (B) W (C) x 1.02 = kcal/h (D) W x 1.16 = kcal /h

R600a HMBP | HBP • 50 Hz

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		kcal/h	COP	Kg	
HD40MBa	4.06	1/14	HMBP	S	220-240V 50Hz ~1	RSIR	P	C	40	72	**178**	**1.64**	214	**182**	**1.91**	5.920	Dd
HLY55MAa	5.46	1/10	HMBP	S	220-240V 50Hz ~1	RSIR	P	C	48	96	**250**	**2.18**	300	**255**	**2.51**	9.800	Lb
HLY55MAb	5.46	1/10	HMBP	S	220-240V 50Hz ~1	RSCR	P	C	48	96	**250**	**2.31**	300	**255**	**2.67**	9.800	Lb
HUY55MAa	5.50	1/10	HMBP	S	220-240V 50Hz ~1	RSIR	P	C	53	105	**275**	**2.55**	329	**280**	**2.95**	8.950	Ub
HUY55MAb	5.50	1/10	HMBP	S	220-240V 50Hz ~1	RSCR	P	C	53	105	**275**	**2.81**	329	**280**	**3.10**	8.950	Ub
HLY70MAa	6.65	1/8	HMBP	S	220-240V 50Hz ~1	RSIR	P	C	66	121	**307**	**2.17**	370	**314**	**2.50**	8.800	Lb
HLY70MAb	6.65	1/8	HMBP	S	220-240V 50Hz ~1	RSCR	P	C	66	121	**307**	**2.33**	370	**314**	**2.69**	8.890	Lb
HUY70MAa	6.70	1/7	HMBP	S	220-240V 50Hz ~1	RSIR	P	C	80	137	**338**	**2.47**	406	**345**	**2.87**	9.000	Ub
HUY70MAc	6.70	1/7	HMBP	S	220-240V 50Hz ~1	RSCR	P	C	80	137	**338**	**2.80**	406	**345**	**2.99**	9.000	Ub
HLY99RAa	9.95	1/6	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	103	178	**458**	**2.03**	555	**470**	**2.35**	9.430	Lc
HLY99RAb	9.95	1/6	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	103	178	**458**	**2.21**	555	**470**	**2.57**	9.520	Lc
HPY12RAa	12.10	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	135	236	**583**	**2.15**	700	**595**	**2.50**	10.507	Pc
HPY12RAb	12.10	1/5	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	135	236	**583**	**2.32**	700	**595**	**2.70**	10.720	Pc
HPY14RAa	14.32	1/5	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V	-	281	**668**	**2.08**	797	**680**	**2.40**	10.930	Pd
HPY14RAb	14.32	1/5	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	-	281	**668**	**2.26**	797	**680**	**2.61**	11.020	Pd
HPY16RAa	16.15	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	179	310	**755**	**2.12**	904	**770**	**2.45**	11.080	Pd
HPY16RAb	16.15	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	179	310	**755**	**2.29**	904	**770**	**2.64**	11.170	Pd

R600a LBP | MBP | HBP • DC 50 | 60 Hz

Mobile Compressor

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	DESIGN
								Cecomaf (W)					Ashrae		
								-30	-25		-10	+ 10	-23.3		
									W	COP			kcal/h	(W/W)	Kg	
HD36FDC 12-42V (**)	3.6	LBP MBP HBP	S / F	12-24-42V DC	ECM	C	1500	16	**19**	**1.03**	44	112	**22**	**1.26**	5.5	Db
							2000	20	**25**	**1.05**	58	147	**28**	**1.28**		
							2500	26	**31**	**1.06**	72	182	**35**	**1.30**		
							3000	30	**37**	**1.02**	86	216	**42**	**1.24**		
							3500	34	**42**	**1.01**	102	250	**48**	**1.22**		

Green Cooling Models
New Models

(**) Under development / See design drawing on page 62
W (A) x 1.15 = kcal/h (B) W (C) x 1.02 = kcal/h (D) W x 1.16 = kcal /h

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

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

notes

3.

Condensing Units Catalogue

R134a/R404A/ R290/12-42VDC

R134a (*) HMBP | HBP • 50 Hz

	MODEL	DISPLACEMENT cm³	POWER hp	MAX. AMBIENCE TEMP.	T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY W Wx 0.86 = kcal/h W x 3.412 = BTU/h Evaporating Temperature °C								VERSION "3" DIMENSIONS W x L x H mm	TUBES SUCTION Inch	TUBES COMPRESSION Inch	WEIGHT Kg	DESIGN
										-25	-15	-5	5	7.2 W	7.2 W inp	7.2 A	10					
	CGD30MB_N	3.08	1/10	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	71	119	191	285	**309**	**168**	**1.02**	341	255x300x200	1/4	1/4	8.7	4A
	CGD36MB_N	3.62	1/10	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	91	147	230	341	**369**	**196**	**1.00**	407	255x300x200	1/4	1/4	8.8	4A
	CGD40MB_N	4.06	1/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	97	156	243	357	**385**	**215**	**1.00**	423	255x300x200	1/4	1/4	9.6	4A
	CGL45PB_N	4.50	1/6	43	T	HMBP	220-240V 50Hz ~1	RSIR	C	108	183	286	416	**448**	**238**	**1.00**	491	320x425x220	3/8	1/4	14.5	3B
	CGL45TB_N	4.50	1/6	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	108	183	286	416	**448**	**238**	**1.00**	491	320x425x220	3/8	1/4	14.5	3B
	CGL45TG_N	4.50	1/6	43	T	HMBP	200-240/220-230V 50/60Hz ~1	CSIR	C-V	109	180	279	407	**439**	**219**	**1.00**	482	320x425x220	3/8	1/4	14.5	3B
	CGLY45RAa_N	4.56	1/6	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	140	208	312	452	**490**	**235**	**1.00**	535	320x425x235	3/8	1/4	16	3B
	CGLY45RAb_N	4.56	1/6	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	140	208	312	452	**490**	**211**	**0.85**	535	320x425x235	3/8	1/4	16	3B
	CGL60PB_N	5.68	1/5	43	T	HMBP	220-240V 50Hz ~1	RSIR	C	130	232	361	520	**558**	**271**	**1.00**	609	320x425x235	3/8	1/4	17	3B
	CGL60TB_N	5.68	1/5	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	130	232	361	520	**558**	**271**	**1.00**	609	320x425x235	3/8	1/4	17	3B
	CGL60TG_N	5.68	1/5	43	T	HMBP	200-240/220-230V 50/60Hz ~1	CSIR	C-V	136	227	366	551	**599**	**271**	**1.00**	662	320x425x235	3/8	1/4	17	3B
	CGLY60RAa_N	5.98	1/5	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	137	251	396	573	**616**	**264**	**1.00**	673	340x425x235	3/8	1/4	17	3B
	CGLY60RAb_N	5.98	1/5	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	137	251	396	573	**616**	**242**	**0.87**	673	340x425x235	3/8	1/4	17	3A
	CGL80PB_N	7.57	1/5	43	T	HMBP	220-240V 50Hz ~1	RSIR	C	166	285	441	636	**684**	**343**	**2.02**	747	340x425x235	3/8	1/4	17	3B
	CGL80TB_N	7.57	1/5	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	166	285	441	636	**684**	**343**	**2.02**	747	340x425x235	3/8	1/4	17	3B
	CGL80TG_N	7.57	1/5	43	T	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	178	300	473	699	**755**	**333**	**2.02**	831	340x425x235	3/8	1/4	17	3B
	CGLY80RAa_N	8.10	1/5	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	219	351	543	795	**858**	**349**	**2.02**	943	340x425x235	3/8	1/4	18.5	3B
	CGLY80RAb_N	8.10	1/5	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	219	351	543	795	**858**	**324**	**1.20**	943	320x425x235	3/8	1/4	18.5	3A
	CGL90PB_N	8.85	1/4	43	T	HMBP	220-240V 50Hz ~1	RSIR	C	203	341	533	780	**842**	**386**	**2.02**	924	340x425x235	3/8	1/4	18.5	3B
	CGL90TB_N	8.85	1/4	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	203	341	533	780	**842**	**386**	**2.02**	924	340x425x235	3/8	1/4	18.5	3B
	CGL90TG_N	8.85	1/4	43	T	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	193	335	529	775	**836**	**382**	**1.99**	917	340x425x235	3/8	1/4	18.5	3B
	CGLY90RAa_N	9.09	1/4	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	215	360	564	827	**893**	**437**	**2.30**	981	350x425x270	3/8	1/4	19.5	3B
	CGLY90RAb_N	9.09	1/4	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	215	360	564	827	**893**	**397**	**2.01**	981	350x425x270	3/8	1/4	19.5	3A
	CGLY12RAa_N	10.70	3/8	43	T	HBP	220-240V 50Hz ~1	CSIR	C-V	-	422	662	971	**1048**	**527**	**2.43**	1151	350x425x270	3/8	1/4	20.5	3B
	CGLY12RAb_N	10.70	3/8	43	T	HBP	220-240V 50Hz ~1	CSR	C-V	-	422	662	971	**1048**	**472**	**2.71**	1151	350x425x270	3/8	1/4	20.5	3B
	CGLY12RGa_N	10.70	3/8	43	T	HBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	-	422	662	971	**1048**	**568**	**2.30**	1151	350x425x270	3/8	1/4	20.5	3B
	CGLY12RGb_N	10.70	3/8	43	T	HBP	200-220/220-230V 50/60Hz ~1	CSR	C-V	-	422	662	971	**1048**	**526**	**2.33**	1151	350x425x270	3/8	3/8	20.5	3B
	CGPY12RAa_N	12.10	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	314	504	768	1104	**1188**	**571**	**3.02**	1300	350x425x270	3/8	3/8	21.5	3B
	CGPY12RAb_N	12.10	3/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	314	504	768	1104	**1188**	**523**	**2.07**	1300	350x425x270	3/8	3/8	21.5	3A
	CGP14PB_N	14.17	3/8	43	T	HMBP	220-240V 50Hz ~1	RSIR	C	292	498	778	1130	**1217**	**668**	**4.01**	1334	350x425x270	3/8	1/4	21.5	3B
	CGP14TB_N	14.17	3/8	43	T	HBP	220-240V 50Hz ~1	CSIR	C-V	-	498	778	1130	**1217**	**668**	**4.01**	1334	350x425x270	3/8	1/4	21.5	3B
	CGP14TG_M	14.17	3/8	38	-	HBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	-	534	820	1184	**1275**	**630**	**2.99**	1395	350x425x270	3/8	1/4	21.5	3B
	CGPY14RAa_N	14.32	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	442	618	867	1190	**1270**	**623**	**3.56**	1378	365x510x300	3/8	3/8	23.5	2D
	CGPY14RAb_N	14.32	3/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	442	618	867	1190	**1270**	**579**	**3.02**	1378	365x510x300	3/8	3/8	23.5	2E
	CGPY16RAa_N	16.15	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	390	644	964	1350	**1444**	**659**	**3.95**	1568	365x510x300	3/8	3/8	23.5	2D
	CGPY16RAb_N	16.15	3/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	390	644	964	1350	**1444**	**609**	**2.99**	1568	365x510x300	3/8	3/8	23.5	2D
	CGPT16RG_N	16.15	1/2	43	T	HBP	200-220/220-230V 50/60Hz ~1	CSR	C-V	-	673	981	1397	**1503**	**690**	**3.42**	1644	365x510x300	3/8	3/8	23.5	2D
	CGPT18RA_N	18.00	1/2	43	T	HBP	220-240V 50Hz ~1	CSR	C-V	-	731.2	1066	1518	**1633**	**753**	**4.03**	1786	450x480x315	3/8	3/8	29	1E
	CGX18TB_N	18.40	1/2	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	383	674	1050	1510	**1622**	**832**	**5.01**	1771	365x510x300	3/8	3/8	28.5	2C
	CGX18TG_N	18.40	1/2	43	T	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	398	699	1079	1538	**1650**	**758**	**5.01**	1797	365x510x300	3/8	3/8	28.5	2C
	CGX21TB_N	20.72	5/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	450	759	1178	1707	**1838**	**926**	**5.02**	2012	450x480x315	3/8	3/8	33	1E
	CGX23TB_N	23.20	5/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	492	906	1360	1853	**1967**	**1027**	**6.04**	2115	450x480x315	3/8	3/8	33	1E
	CGS26TB_N	25.93	3/4	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	524	989	1542	2182	**2335**	**1125**	**6.01**	2535	425x510x350	5/8	3/8	36	1B
	CGS26TG_M	25.93	3/4	38	-	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	565	1012	1597	2320	**2498**	**1075**	**7.04**	2734	425x530x350	5/8	3/8	36	1B
	CGS30TB_N	29.95	7/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	609	1134	1811	2640	**2843**	**1174**	**6.03**	3112	425x530x350	5/8	3/8	39	1B
	CGS34TB_N	34.42	1	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	686	1283	1992	2813	**3009**	**1358**	**6.03**	3266	425x530x350	5/8	3/8	39	1B
	CGS34TB_N 2F	34.42	1	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	774	1071	1818	3017	**3341**	**1362**	**6.03**	3785	480x650x335	5/8	3/8	41.5	6A

Green Cooling Models

New Models

(*) Or HF01234yf **/ See design drawing on page 64**

R134a (*) HMBP | HBP • 60 Hz

	MODEL	DISPLACEMENT cm³	POWER hp	MAX. AMBIENCE TEMP.	T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY W Wx 0.86 = kcal/h W x 3.412 = BTU/h Evaporating Temperature °C								VERSION "3" DIMENSIONS W x L x H mm	TUBES SUCTION Inch	TUBES COMPRESSION Inch	WEIGHT Kg	DESIGN
										-25	-15	-5	5	7.2 W	7.2 W inp	7.2 A	10					
	CGD40ME_N	4.06	1/8	43	T	HMBP	115V 60Hz ~1	CSIR	C-V	109	187	292	423	**455**	**265**	**3.02**	499	255x300x200	1/4	1/4	9.6	4A
	CGL45TE_N	4.50	1/6	43	T	HMBP	115V 60Hz ~1	CSIR	C-V	135	223	345	501	**540**	**289**	**3.02**	591	320x425x220	3/8	1/4	14.5	3B
	CGL45TG_N	4.50	1/6	43	T	HMBP	200-240/220-230V 50/60Hz ~1	CSIR	C-V	119	207	324	471	**507**	**268**	**1.00**	555	320x425x220	3/8	1/4	14.5	3B
	CGL60TE_N	5.68	1/5	43	T	HMBP	115V 60Hz ~1	CSIR	C-V	157	278	431	616	**661**	**315**	**2.99**	721	320x425x235	3/8	1/4	17	3B
	CGL60TG_N	5.68	1/5	43	T	HMBP	200-240/220-230V 50/60Hz ~1	CSIR	C-V	156	270	427	626	**676**	**341**	**1.00**	742	320x425x235	3/8	1/4	17	3B
	CGL80PE_N	7.57	1/5	43	T	HMBP	115V 60Hz ~1	RSIR	C	213	358	561	822	**887**	**412**	**4.02**	974	340x425x235	3/8	1/4	17	3B
	CGL80TE_N	7.57	1/5	43	T	HMBP	115V 60Hz ~1	CSIR	C-V	213	358	561	822	**887**	**412**	**4.02**	974	340x425x235	3/8	1/4	17	3B
	CGL80TG_N	7.57	1/5	43	T	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	208	355	559	819	**884**	**415**	**2.02**	970	340x425x235	3/8	1/4	17	3B
✓	CGLY80RDa_N	8.10	1/5	43	T	HMBP	115V 60Hz ~1	CSIR	C-V	229	309	615	901	**972**	**433**	**4.49**	1067	340x425x235	3/8	1/4	18.5	3B
✓	CGLY80RDb_N	8.10	1/5	43	T	HMBP	115V 60Hz ~1	CSR	C-V	229	309	615	901	**972**	**402**	**3.68**	1067	340x425x235	3/8	1/4	18.5	3B
	CGL90TE_N	8.85	1/4	43	T	HMBP	115V 60Hz ~1	CSIR	C-V	226	400	624	899	**967**	**489**	**5.01**	1056	340x425x235	3/8	1/4	18.5	3B
	CGL90TG_N	8.85	1/4	43	T	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	231	401	623	896	**963**	**472**	**1.99**	1052	340x425x235	3/8	1/4	18.5	3B
✓	CGLY90RDa_N	9.09	1/4	43	T	HMBP	115V 60Hz ~1	CSIR	C-V	262	455	707	1017	**1093**	**505**	**5.23**	1194	350x425x270	3/8	1/4	19.5	3B
✓	CGLY90RDb_N	9.09	1/4	43	T	HMBP	115V 60Hz ~1	CSR	C-V	262	455	707	1017	**1093**	**469**	**4.35**	1194	350x425x270	3/8	1/4	19.5	3B
✓	CGLY12RGa_N	10.70	3/8	43	T	HBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	-	525	816	1173	**1261**	**592**	**3.16**	1378	350x425x270	3/8	1/4	20.5	3B
✓	CGLY12RGb_N	10.70	3/8	43	T	HBP	200-220/220-230V 50/60Hz ~1	CSR	C-V	-	525	816	1173	**1261**	**548**	**2.49**	1378	350x425x270	3/8	3/8	20.5	3B
	CGP12TE_N	12.05	3/8	43	T	HMBP	115V 60Hz ~1	CSIR	C-V	326	547	843	1213	**1304**	**703**	**7.01**	1425	350x425x270	3/8	1/4	20	3B
✓	CGPY12RDa_N	12.10	3/8	43	T	HMBP	115V 60Hz ~1	CSIR	C-V	358	601	926	1333	**1433**	**663**	**6.85**	1566	350x425x270	3/8	1/4	22.5	3B
✓	CGPY12RDb_N	12.10	3/8	43	T	HMBP	115V 60Hz ~1	CSR	C-V	358	601	926	1333	**1433**	**611**	**5.82**	1566	350x425x270	3/8	1/4	22.5	3B
	CGP14TE_M	14.17	3/8	38	-	HMBP	115V 60Hz ~1	CSIR	C-V	367	616	934	1320	**1415**	**779**	**8.03**	1539	350x425x270	3/8	1/4	21.5	3B
	CGP14TG_M	14.17	3/8	38	-	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	374	620	947	1355	**1456**	**763**	**4.01**	1590	350x425x270	3/8	1/4	21.5	3B
✓	CGPY14RDa_N	14.32	1/2	43	T	HMBP	115V 60Hz ~1	CSIR	C-V	458	759	1159	1658	**1782**	**836**	**7.90**	1946	365x510x300	3/8	3/8	23.5	2D
✓	CGPY14RDb_N	14.32	1/2	43	T	HMBP	115V 60Hz ~1	CSR	C-V	458	759	1159	1658	**1782**	**784**	**7.16**	1946	365x510x300	3/8	3/8	23.5	2D
✓	CGPY16RDa_N	16.15	1/2	43	T	HBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	487	807	1232	1763	**1895**	**901**	**8.15**	2069	365x510x300	3/8	3/8	23.5	2D
✓	CGPY16RDb_N	16.15	1/2	43	T	HBP	200-220/220-230V 50/60Hz ~1	CSR	C-V	487	807	1232	1763	**1895**	**853**	**7.90**	2069	365x510x300	3/8	3/8	23.5	2D
✓	CGPT16RG_N	16.15	1/2	43	T	HBP	200-220/220-230V 50/60Hz ~1	CSR	C-V	-	848	1204	1667	**1783**	**790**	**3.42**	1935	365x510x300	3/8	3/8	23.5	2D
	CGX18TG_N	18.40	1/2	43	T	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	506	881	1324	1835	**1957**	**868**	**5.01**	2116	365x510x300	3/8	3/8	28.5	2C
	CGS26TG_M	25.93	3/4	38	-	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C-V	652	1177	1838	2635	**2828**	**1368**	**7.04**	3084	425x530x350	5/8	3/8	36	1B

R404A HMBP | HBP • 50 Hz

	MODEL	DISPLACEMENT cm³	POWER hp	MAX. AMBIENCE TEMP.	T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY W Wx 0.86 = kcal/h W x 3.412 = BTU/h Evaporating Temperature °C								VERSION "3" DIMENSIONS W x L x H mm	TUBES SUCTION Inch	TUBES COMPRESSION Inch	WEIGHT Kg	DESIGN
										-25	-15	-5	5	7.2 W	7.2 W inp	7.2 A	10					
	CML40TB_N	4.06	1/6	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	199	300	428	583	**621**	**349**	**2.02**	671	320x425x235	3/8	1/4	14.6	3B
	CML45TB_N	4.50	1/5	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	215	328	464	623	**662**	**386**	**2.02**	712	320x425x235	3/8	1/4	14.7	3B
	CML60TB_N	5.68	1/4	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	266	409	579	777	**824**	**479**	**1.99**	886	325x425x235	3/8	1/4	22.5	3B
✓	CMLY60RAa_N	5.98	1/4	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	317	469	668	912	**972**	**486**	**2.15**	1051	345x450x270	3/8	3/8	23	3B
✓	CMLY60RAb_N	5.98	1/4	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	317	469	668	912	**972**	**441**	**2.02**	1051	345x450x270	3/8	3/8	23	3A
	CML80TB_N	7.57	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	408	567	795	1094	**1170**	**572**	**3.02**	1271	345x450x270	3/8	1/4	23.5	3B
	CML80TG_N	7.57	3/8	43	T	HMBP	200-240/220-230V 50/60Hz ~1	CSIR	C-V	344	551	793	1070	**1136**	**574**	**2.99**	1223	345x450x270	3/8	1/4	23.5	3B
✓	CMLY80RAa_N	8.10	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	421	646	914	1226	**1301**	**606**	**2.99**	1399	350x425x270	3/8	3/8	23.9	3B

✓ Green Cooling Models **(*) Or HF01234yf / See design drawing on page 64**

New Models

This table continues in the following page

R404A HMBP | HBP • 50 Hz

	MODEL	DISPLACEMENT cm³	POWER hp	MAX. AMBIENCE TEMP.	T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY W Wx 0.86 = kcal/h W x 3.412 = BTU/h Evaporating Temperature °C								VERSION "3" DIMENSIONS W x L x H mm	TUBES SUCTION Inch	TUBES COMPRESSION Inch	WEIGHT Kg	DESIGN
										-25	-15	-5	5	7.2 W	7.2 W inp	7.2 A	10					
✓	CMLY80RAb_N	8.10	3/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	421	646	914	1226	**1301**	**560**	**2.68**	1399	350x425x270	3/8	3/8	23.9	3A
	CML90TB_N	8.85	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	421	646	914	1226	**1301**	**702**	**2.99**	1399	350x425x270	3/8	3/8	23.9	3B
	CML90TG_N	8.85	3/8	43	T	HMBP	200-220/230V 50/60Hz ~1	CSIR	C-V	412	631	893	1196	**1268**	**689**	**4.02**	1363	350x425x270	3/8	3/8	23.9	3B
✓	CMLY90RAa_N	9.09	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	466	712	1004	1344	**1425**	**720**	**4.02**	1531	365x510x300	3/8	3/8	25	2D
✓	CMLY90RAb_N	9.09	3/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	466	712	1004	1344	**1425**	**660**	**3.05**	1531	365x510x300	3/8	3/8	25	2E
	CMP12TG_N	12.05	1/2	43	T	HMBP	200-220/220-230V 50/60Hz ~1	CSR	C-V	588	898	1300	1797	**1918**	**785**	**4.02**	2080	425x500x350	3/8	3/8	29.5	1D
✓	CMPT12RA_N	12.05	1/2	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	623	958	1386	1916	**2045**	**803**	**3.28**	2218	425x480x350	3/8	3/8	28.9	1F
✓	CMPT14RA_N	14.17	1/2	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	702	1080	1563	2161	**2306**	**967**	**3.94**	2501	425x500x350	3/8	3/8	29.9	1F
	CMX16TBa_M	16.15	5/8	38	-	HMBP	220-240V 50Hz ~1	CSR	C-V	730	1160	1623	2121	**2235**	**1202**	**5.02**	2382	450x480x340	3/8	3/8	30	1C
	CMX16TBa_N	16.15	5/8	43	T	HBP	220-240V 50Hz ~1	CSR	C-V	-	1074	1536	2084	**2216**	**1157**	**5.01**	2390	430x495x350	3/8	3/8	30.5	1C
	CMX18TBa_M	18.4	7/8	38	-	HBP	220-240V 50Hz ~1	CSR	C-V	-	1206	1650	2121	**2228**	**1375**	**6.01**	2367	430x500x350	3/8	3/8	33	1C
	CMX21TBa_N	20.72	1	43	T	HBP	220-240V 50Hz ~1	CSR	C-V	-	1265	1798	2445	**2603**	**1384**	**6.00**	2812	455x500x440	3/8	3/8	36	1C
	CMS18T3_N	18.10	7/8	43	T	HMBP	400/440V 50/60Hz ~3	3 PHASE	C-V	706	1130	1644	2249	**2395**	**1199**	**2.02**	2586	425x530x350	1/2	3/8	36	1A
	CMS22T3_M	21.75	1	38	-	HMBP	400/440V 50/60Hz ~3	3 PHASE	C-V	943	1484	2121	2854	**3028**	**1501**	**1.99**	3256	455x515x440	1/2	3/8	38	1A
	CMS22TB_N	21.75	1	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	859	1354	1975	2720	**2900**	**1292**	**6.03**	3139	455x525x440	1/2	3/8	41.7	1B
	CMS22TB_N2F	21.75	1	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	880	1437	2126	2948	**3146**	**1352**	**6.01**	3408	480x650x335	1/2	3/8	39	6A
	CMS26T3_N	25.93	1 3/8	43	T	HMBP	400/440V 50/60Hz ~3	3 PHASE	C-V	1206	1919	2723	3617	**3826**	**1707**	**3.02**	4099	455x515x440	5/8	3/8	43.2	1A
	CMS26TB_N	25.93	1 3/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	1183	1853	2615	3468	**3668**	**1778**	**8.03**	3930	455x515x440	5/8	3/8	43.7	1B
	CMS26TB_N 2F	25.93	1 3/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	1166	1834	2584	3417	**3611**	**1744**	**8.03**	3864	480x650x335	5/8	3/8	40	6A
	CMS34T3_N	34.42	1 5/8	43	T	HMBP	400/440V 50/60Hz ~3	3 PHASE	C-V	1527	2368	3289	4288	**4519**	**2492**	**4.02**	4818	455x515x440	5/8	3/8	44	1A
	CMS34TB_M	34.42	1 5/8	38	-	HBP	220-240V 50Hz ~1	CSR	C-V	1335	2424	3475	4485	**4702**	**2434**	**12.07**	4976	455x515x440	5/8	3/8	44.5	1B
	CMS34TB_M 2F	34.42	1 5/8	38	-	HBP	220-240V 50Hz ~1	CSR	C-V	1253	2237	3217	4192	**4405**	**2532**	**12.07**	4677	480x650x335	5/8	3/8	41	6A
	CMS34TB_N	34.42	1 5/8	43	T	HBP	220-240V 50Hz ~1	CSR	C-V	1369	2459	3524	4563	**4788**	**2461**	**12.07**	5073	455x515x440	5/8	3/8	44.5	1B

R404A HMBP | HBP • 60 Hz

	MODEL	DISPLACEMENT cm³	POWER hp	MAX. AMBIENCE TEMP.	T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY W Wx 0.86 = kcal/h W x 3.412 = BTU/h Evaporating Temperature °C								VERSION "3" DIMENSIONS W x L x H mm	TUBES SUCTION Inch	TUBES COMPRESSION Inch	WEIGHT Kg	DESIGN
										-25	-15	-5	5	7.2 W	7.2 W inp	7.2 A	10					
	CML80TG_N	7.57	3/8	43	T	HMBP	200-240/220-230V 50/60Hz ~1	CSIR	C-V	420	654	930	1247	**1322**	**721**	**2.99**	1421	345x450x270	3/8	1/4	23.5	3B
	CML90TG_N	8.86	3/8	43	T	HMBP	200-220/230V 50/60Hz ~1	CSIR	C-V	483	745	1040	1367	**1443**	**862**	**4.01**	1542	350x425x270	3/8	3/8	23.9	3B
	CMP12TG_N	12.05	1/2	43	T	HMBP	200-220/220-230V 50/60Hz ~1	CSR	C-V	669	1040	1467	1950	**2064**	**988**	**4.01**	2213	425x500x350	3/8	3/8	29.5	1D
	CMS18T3_N	18.40	7/8	43	T	HMBP	400/440V 50/60Hz ~3	3 PHASE	C-V	778	1293	1859	2476	**2619**	**1496**	**2.02**	2804	425x530x350	1/2	3/8	36	1A
	CMS22T3_M	21.75	1	38	-	HMBP	400/440V 50/60Hz ~3	3 PHASE	C-V	1079	1728	2407	3117	**3277**	**1913**	**3.01**	3483	455x515x440	1/2	3/8	38	1A
	CMS26T3_N	25.93	1 3/8	43	T	HMBP	400/440V 50/60Hz ~3	3 PHASE	C-V	1383	2202	3080	4017	**4231**	**2189**	**3.02**	4508	455x515x440	5/8	3/8	43.2	1A
	CMS34T3_N	34.42	1 5/8	43	T	HMBP	400/440V 50/60Hz ~3	3 PHASE	C-V	1678	2597	3511	4419	**4618**	**3047**	**5.04**	4871	455x515x440	5/8	3/8	44	1A

✓ Green Cooling Models

New Models

/ See design drawing on page 64

R404A LBP • 50 Hz

	MODEL	DISPLACEMENT cm³	POWER hp	MAX. AMBIENCE TEMP.	T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY W Wx 0.86 = kcal/h W x 3.412 = BTU/h Evaporating Temperature °C							VERSION "3" DIMENSIONS W x L x H mm	TUBES SUCTION Inch	TUBES COMPRESSION Inch	WEIGHT Kg	DESIGN
										-40	-30	-23.3 W	-23.3 W inp	-23.3 A	-20	-10					
	CML45FB_N	4.50	1/6	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	95	162	**220**	**225**	**1.0**	253	370	320x425x220	3/8	1/4	14.5	3B
	CMLY45LAa_N	4.56	1/6	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	102	179	**244**	**194**	**0.99**	281	410	320x425x220	3/8	1/4	15.5	3B
	CMLY45LAb_N	4.56	1/6	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	102	179	**244**	**181**	**0.82**	281	410	320x425x220	3/8	1/4	15.5	3A
	CML60FB_N	5.68	1/5	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	122	206	**277**	**268**	**0.99**	316	453	320x425x220	3/8	1/4	16.5	3B
	CMLY60LAa_N	5.98	1/5	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	147	249	**335**	**262**	**1.01**	383	548	320x425x220	3/8	1/4	17	3B
	CMLY60LAb_N	5.98	1/5	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	147	249	**335**	**247**	**0.84**	383	548	320x425x220	3/8	1/4	17	3A
	CML80FB_N	7.57	1/4	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	169	274	**357**	**342**	**1.99**	401	548	320x425x220	3/8	1/4	17.2	3B
	CMLY80LAa_N	8.10	1/4	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	195	310	**419**	**338**	**1.75**	482	709	325x425x235	3/8	1/4	19.2	3B
	CMLY80LAb_N	8.10	1/4	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	195	310	**419**	**338**	**1.54**	482	709	320x425x235	3/8	1/4	19.2	3A
	CML90FB_N	8.86	1/3	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	195	310	**419**	**355**	**1.99**	482	709	325x425x235	3/8	1/4	19.2	3B
	CMLY90LAa_N	9.09	1/4	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	267	370	**477**	**373**	**2.0**	541	779	340x425x245	3/8	1/4	19.2	3B
	CMLY90LAb_N	9.09	1/4	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	267	370	**477**	**373**	**1.87**	541	779	340x425x245	3/8	1/4	19.2	3A
	CMLY12LAb_N	10.70	3/8	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	331	459	**592**	**446**	**2.35**	671	967	340x425x245	3/8	1/4	21.5	3B
	CMLY12LAa_N	10.70	3/8	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	331	459	**592**	**419**	**1.71**	671	967	340x425x245	3/8	1/4	21.5	3B
	CMPT12LA_N	12.10	3/8	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	308	487	**638**	**450**	**1.87**	722	1012	350x425x270	3/8	1/4	20.7	3A
	CMP14FB_N	14.17	1/2	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	267	461	**620**	**567**	**2.87**	707	1006	340x425x245	3/8	1/4	22.3	1F
	CMPT14LA_N	14.32	1/2	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	378	586	**743**	**535**	**1.98**	825	1093	425x340x270	3/8	3/8	23.9	3A
	CMPT16LA_N	16.15	1/2	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	432	669	**848**	**601**	**2.15**	942	1248	350x510x275	3/8	3/8	24.8	2E
	CMX18FBa_N	18.40	5/8	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	349	611	**820**	**639**	**2.97**	933	1313	350x510x275	3/8	3/8	28	2E
	CMX21FBa_N	20.72	3/4	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	544	840	**1062**	**712**	**2.98**	1178	1560	365x510x305	3/8	3/8	29.8	2E
	CMX23FBa_M	23.20	7/8	38	-	LBP	220-240V 50Hz ~1	CSR	C-V	667	973	**1209**	**813**	**3.97**	1334	1750	365x510x305	3/8	3/8	30.3	2A
	CMS26FB_N	25.93	3/4	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	523	1028	**1400**	**883**	**3.97**	1593	2217	425x510x350	1/2	3/8	39	1B
	CMS30FB_N	29.95	7/8	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	617	1132	**1518**	**1120**	**4.96**	1721	2385	425x530x350	5/8	3/8	39	1B
	CMS34F3_N	34.42	1	43	T	LBP	400/440V 50/60Hz ~ 3	3 PHASE	C-V	627	1139	**1535**	**1209**	**1.99**	1746	2448	425x530x350	5/8	3/8	44	1A
	CMS34FB_N	34.42	1	43	T	LBP	220V 50Hz ~1	CSR	C-V	826	1210	**1638**	**1209**	**5.95**	1899	2892	425x530x350	5/8	3/8	39.5	1B
	CMS34FBb_N	34.42	1	43	T	LBP	220V 50Hz ~1	CSR	C-V	826	1210	**1638**	**1209**	**5.95**	1899	2892	425x530x350	5/8	3/8	39.5	1B

R404A LBP • 60 Hz

	MODEL	DISPLACEMENT cm³	POWER hp	MAX. AMBIENCE TEMP.	T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY W Wx 0.86 = kcal/h W x 3.412 = BTU/h Evaporating Temperature °C							VERSION "3" DIMENSIONS W x L x H mm	TUBES SUCTION Inch	TUBES COMPRESSION Inch	WEIGHT Kg	DESIGN
										-40	-30	-23.3 W	-23.3 W inp	-23.3 A	-20	-10					
	CMP14FE_N	14.17	1/2	43	T	LBP	115V 60Hz ~1	CSIR	C - V	335	561	**752**	**739**	**8.97**	859	1229	345x450x270	3/8	1/4	20.8	3B
	CMS34F3_N	34.42	1	43	T	LBP	400/440V 50/60Hz ~3	3 PHASE	C -V	649	1247	**1680**	**1415**	**1.98**	1903	2616	425x530x350	5/8	3/8	44	1A

Green Cooling Models **/ See design drawing on page 64**

New Models

R290 HMBP • 50 Hz

	MODEL	DISPLACEMENT cm³	POWER hp	MAX. AMBIENCE TEMP.	T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY W Wx 0.86 = kcal/h W x 3.412 = BTU/h Evaporating Temperature °C								VERSION "3" DIMENSIONS W x L x H mm	TUBES SUCTION Inch	TUBES COMPRESSION Inch	WEIGHT Kg	DESIGN
										-25	-15	-5	5	7.2 W	7.2 W inp	7.2 A	10					
	CNLY60RAa_N	5.98	1/4	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	259	395	581	819	**878**	**365**	**2.10**	957	340x425x245	3/8	1/4	24	3B
	CNLY60RAb_N	5.98	1/4	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	259	395	581	819	**878**	**335**	**1.85**	957	340x425x245	3/8	1/4	24	3A
	CNLY80RAa_N	8.10	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	343	524	771	1087	**1165**	**512**	**2.32**	1270	325x425x270	3/8	1/4	23.9	3B
	CNLY80RAb_N	8.10	3/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	343	524	771	1087	**1165**	**470**	**1.95**	1270	325x425x270	3/8	1/4	23.9	3A
	CNLY90RAa_N	9.09	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C-V	355	541	797	1123	**1204**	**554**	**2.78**	1312	325x425x270	3/8	1/4	24.2	3B
	CNLY90RAb_N	9.09	3/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C-V	355	541	797	1123	**1204**	**503**	**2.03**	1312	325x425x270	3/8	1/4	24.2	3A
	CNPY12RAb_N	12.10	1/2	43	T	HBP	220-240V 50Hz ~1	CSIR	C-V	-	826	1238	1753	**1880**	**670**	**3.40**	2047	425x480x350	3/8	3/8	28.9	1F
	CNPY12RAa_N	12.10	1/2	43	T	HBP	220-240V 50Hz ~1	CSR	C-V	-	826	1238	1753	**1880**	**608**	**2.70**	2047	425x480x350	3/8	3/8	28.9	1F
	CNPT14RA_N	14.32	1/2	43	T	HBP	220-240V 50Hz ~1	CSR	C-V	-	979	1468	2079	**2229**	**724**	**3.05**	2427	425x340x270	3/8	3/8	23.9	1F
	CNX18TB_M	18.0	7/8	38	-	HMBP	220-240V 50Hz ~1	CSR	C-V	694	1059	1559	2195	**2353**	**982**	**3.99**	2564	430x500x350	3/8	3/8	33	1C

R290 LBP • 50 Hz

	MODEL	DISPLACEMENT cm³	POWER hp	MAX. AMBIENCE TEMP.	T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY W Wx 0.86 = kcal/h W x 3.412 = BTU/h Evaporating Temperature °C							VERSION "3" DIMENSIONS W x L x H mm	TUBES SUCTION Inch	TUBES COMPRESSION Inch	WEIGHT Kg	DESIGN
										-40	-30	-23.3 W	-23.3 W inp	-23.3 A	-20	-10					
	CNLY45LAa_N	4.56	1/6	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	103	175	**238**	**172**	**1.00**	270	383	320x425x220	3/8	1/4	15.5	3B
	CNLY45LAb_N	4.56	1/6	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	103	175	**238**	**160**	**0.87**	270	383	320x425x220	3/8	1/4	15.5	3A
	CNLY60LAa_N	5.98	1/5	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	137	205	**272**	**211**	**1.02**	307	443	320x425x220	3/8	1/4	17	3B
	CNLY60LAb_N	5.98	1/5	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	137	205	**272**	**199**	**0.95**	307	443	320x425x220	3/8	1/4	17	3A
	CNLY80LAa_N	8.10	1/4	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	198	266	**334**	**260**	**2.02**	371	514	320x425x220	3/8	1/4	20	3B
	CNLY80LAb_N	8.10	1/4	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	198	266	**334**	**251**	**1.92**	371	514	320x425x220	3/8	1/4	20	3A
	CNLY90LAa_N	9.09	1/3	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	220	321	**412**	**305**	**2.10**	460	638	340x425x245	3/8	1/4	19.2	3B
	CNLY90LAb_N	9.09	1/3	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	220	321	**412**	**293**	**1.89**	460	638	340x425x245	3/8	1/4	19.2	3A
	CNPY12LAa_N	12.10	3/8	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	273	455	**588**	**425**	**3.02**	634	870	350x425x270	3/8	1/4	23	2D
	CNPY12LAb_N	12.10	3/8	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	273	455	**588**	**414**	**2.98**	634	870	350x425x270	3/8	1/4	23	2E
	CNPY14LAa_N	14.32	1/2	43	T	LBP	220-240V 50Hz ~1	CSIR	C-V	302	502	**654**	**481**	**2.98**	730	986	350x425x270	3/8	1/4	23.5	2D
	CNPY14LAb_N	14.32	1/2	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	302	502	**654**	**465**	**2.35**	730	986	350x425x270	3/8	1/4	23.5	2E
	CNPT16LA_N	16.15	1/2	43	T	LBP	220-240V 50Hz ~1	CSR	C-V	351	583	**759**	**532**	**2.71**	847	1144	350x510x275	3/8	3/8	24.8	2E

Green Cooling Models

New Models

/ See design drawing on page 64

R134a LBP | MBP | HBP 12-42V

	MODEL	DISPLACEMENT	POWER	MAX. AMBIENCE TEMP.	T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	REFRIGERATION CAPACITY W Wx 0.86 = kcal/h W x 3.412 = BTU/h Evaporating Temperature °C									VERSION "3"				DESIGN
																		DIMENSIONS	TUBES			
											-23.3				-15	-5	5	10		SUCTION	COMPRESSION	WEIGHT	
		cm³	hp						rpm	-30	W	W inp	COP	A					W x L x H mm	Inch	Inch	Kg	
	CGD30FDC	3.0	1/10	43	T	LBP / MBP / HBP	12-42V DC	ECM	1500	28	**41**	**27**	**1.52**	2.23	63	102	155	186	167x293x159	5/8" 18 UNF male	5/8" 18 UNF female	8	5A
									2000	38	**52**	**37**	**1.43**	3.08	80	127	185	221					
									2500	44	**61**	**46**	**1.33**	3.84	97	151	215	256					
									3000	50	**72**	**58**	**1.24**	4.85	114	174	-	-					
									3500	56	**85**	**71**	**1.20**	5.93	134	-	-	-					

/ See design drawing on page 64

	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

	Conditions			
	HCB CECOMAF		HCB ASHRAE	
	MBP (E)	VHBP (G)	MBP (F)	VHBP (H)
Evaporating temperature °C	-10	25	-10	25
Condensing temperature °C	55	70	55	70
Liquid temperature °C	55	55	46	61
Suction temperature °C	32	32	35	35
Ambient temperature °C	32	32	35	35

Measurement conversion

R134
W (A) x 1.18 = kcal/h (B)
W (C) x 1.02 = kcal/h (D)
W (E) x 0.85 = kcal/h (F)
W (G) x 0.97 = kcal/h (H)

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

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

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

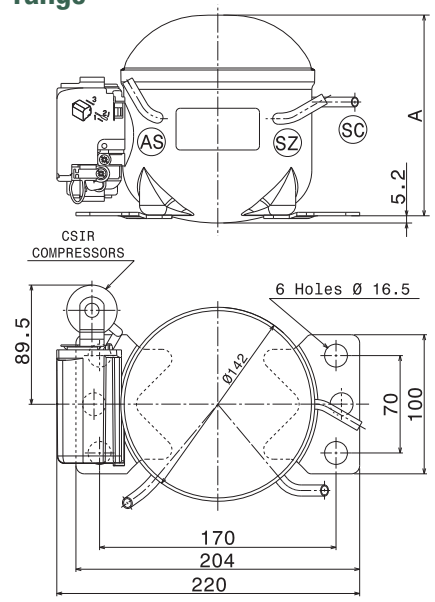
S compressor's range can be provided with tube or valve

4.

Technical Information

Compressor Dimensional Drawings

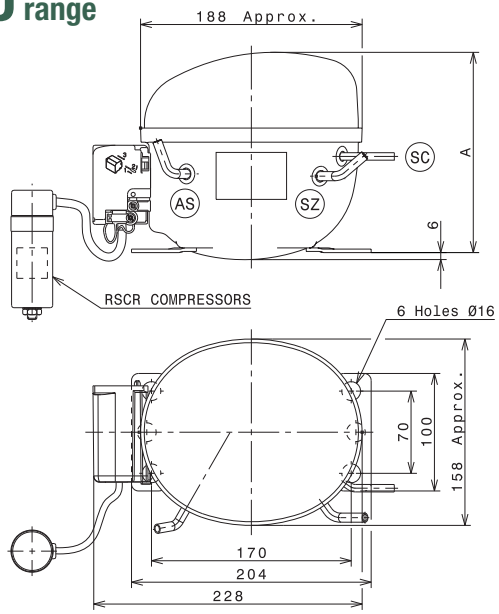
D range



	A (mm)
Db	149.5
Dc	157.5
Dd	162.5

LEGEND	
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

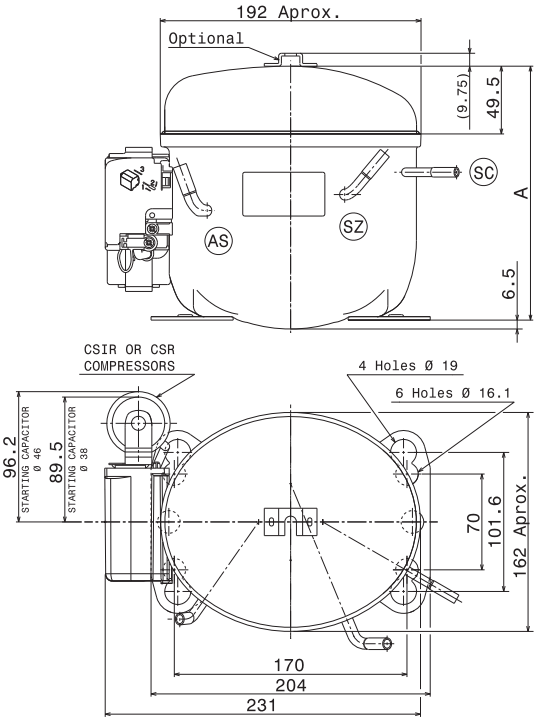
U range



	A (mm)
Ub	173.5
Uc	176.5

LEGEND	
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

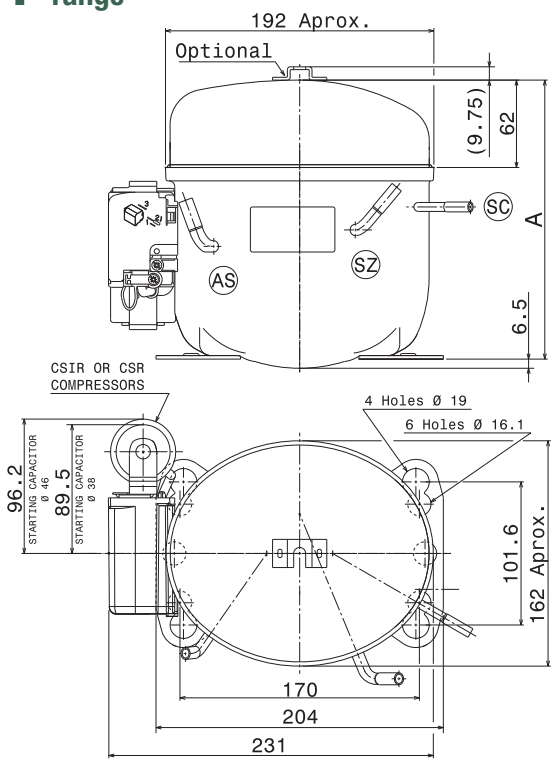
L range



	A (mm)
Lb	175
Lc	185.6
Ld	198

LEGEND	
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

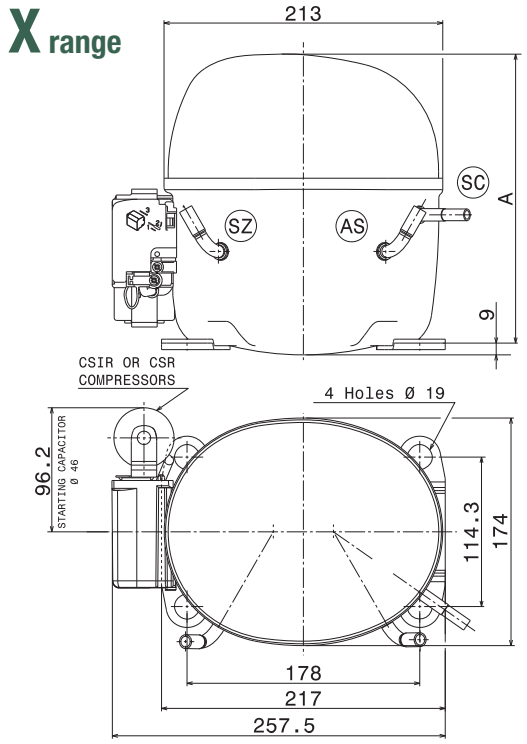
P range



	A (mm)
Pc	198.1
Pd	210.5

LEGEND	
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

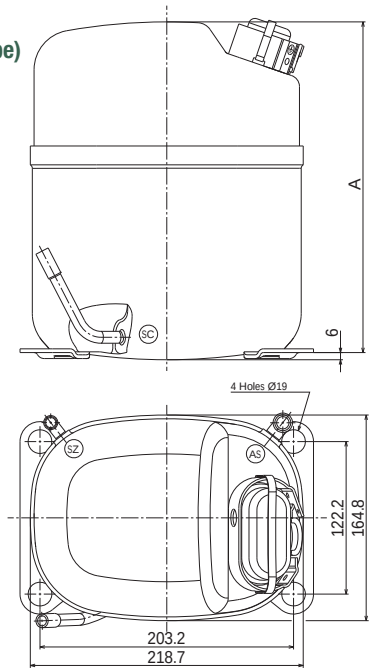
X range



	A (mm)
Xc	215
Xd	221

LEGEND	
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

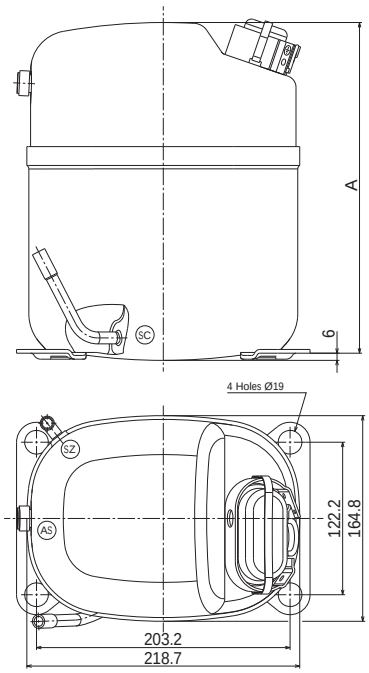
S range (Tube)



	A (mm)
Sb	252
Sc	265
Sd	276

LEGEND (TUBE)	
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

S range (Valve)

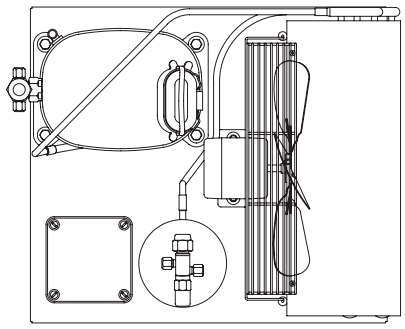


	A (mm)
Sb	252
Sc	265
Sd	276

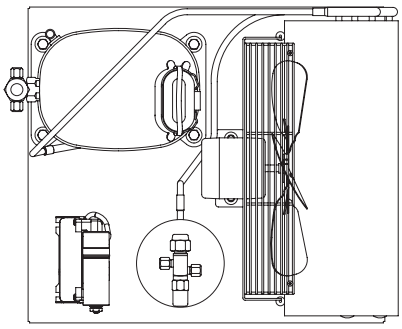
LEGEND (VALVE)	
AS	Valve Service
SC	Discharge
SZ	Service/Suction

Condensing Unit Layouts

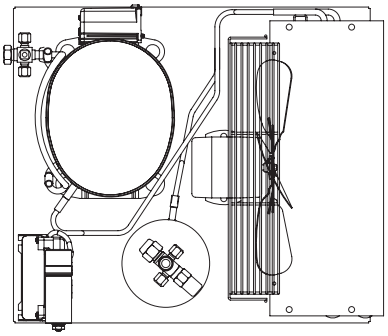
1A



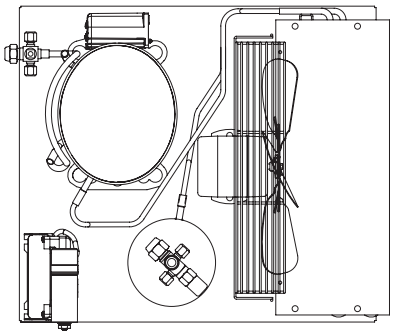
1B



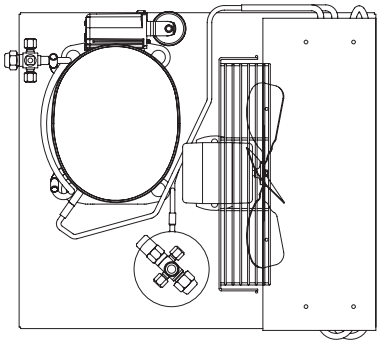
1C



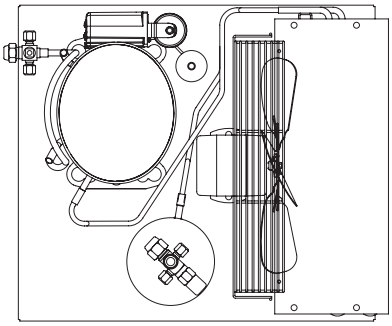
1D



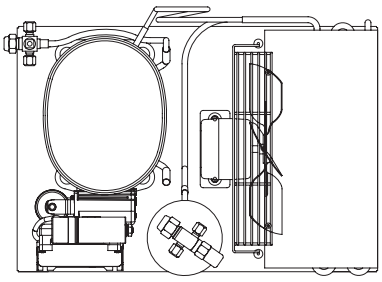
1E



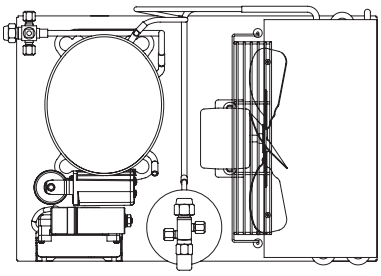
1F



2A



2B



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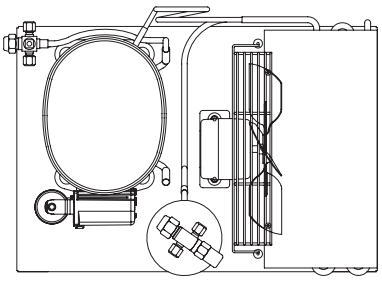
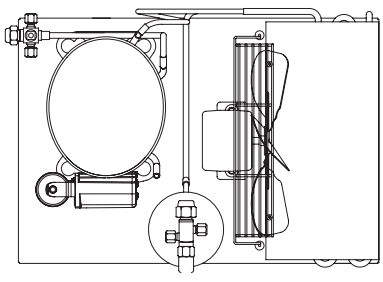


2D



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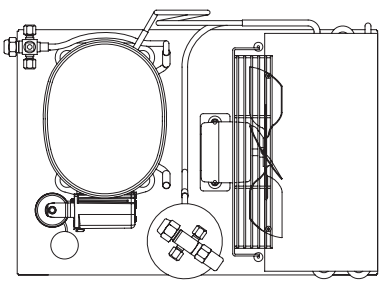
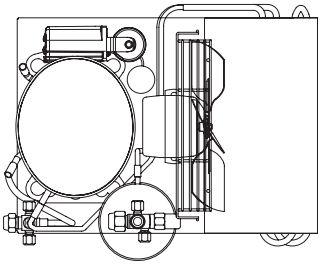
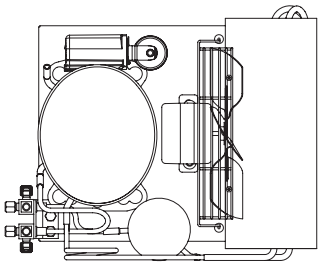


3A



3B



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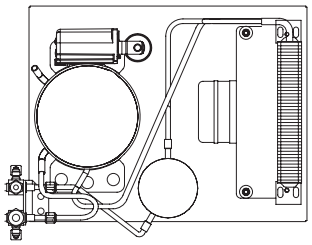
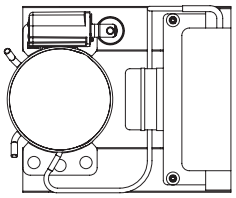
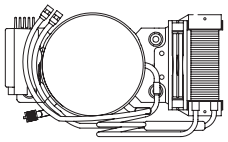


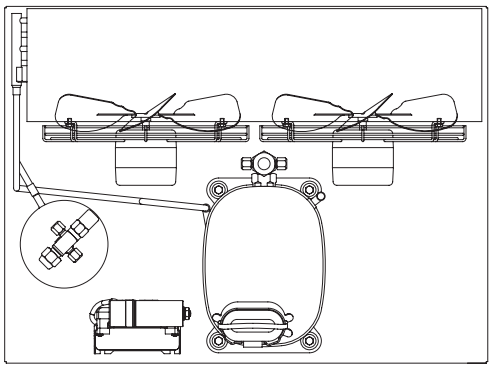
4A



5A



6A



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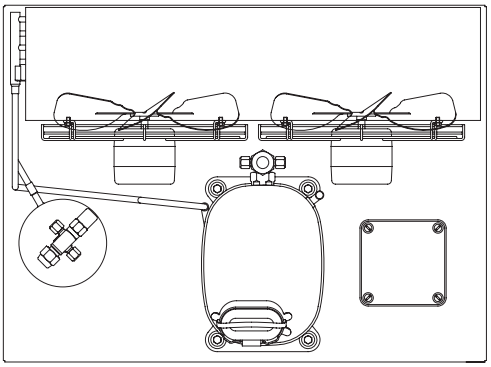
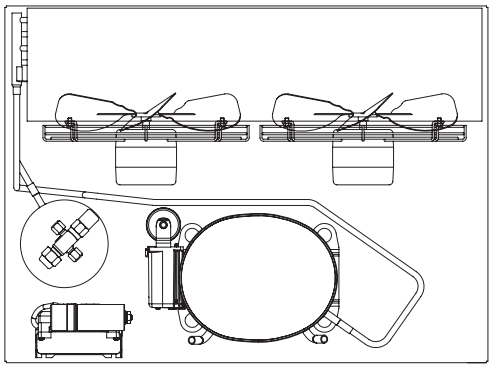


6C



Packaging

Single Box

		Box dimensions (mm)			Pallet dimensions (mm)	
	Range	Length	Width	Height	Length	Width
Compressors	D	257	172	151/166	1010	1010
	U	300	192	180/198	1200	1050
	L & P	300	192	180/198/209/227	1200	1050
	X & P (w/ connecting box)	320	192	235	1050	1050
	X	347	207	242	1050	1050
	S	282	215	376	1010	1010
Condensing Units (CU)	Versions 3A,3B,3C	484	380	260	1200	1050
	Versions 2A,2B,2C,2D,2E	556	442	302	1360	1150
	Versions 1A,1B,1C,1D,1E,1F	577	537	345/440	1160	1100
	Versions 6A,6B	670	500	280	1360	1150
	Versions 6C	670	500	335	1360	1150

Tray

		Tray dimensions (mm)		Pallet dimensions (mm)	
	Range	Length	Width	Length	Width
Compressors	D	1010	1010	1010	1010
	U (TIR)	1120	810	1200	800
	U (Container)	1120	810	1120	800
	L & P	1060	990	1050	1050
	X	1050	1020	1050	1050
	S	1050	1050	1050	1050
CU	Versions 3A,3B,3C	374	290	1200	1050

Quantities by Pallet Compressors

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

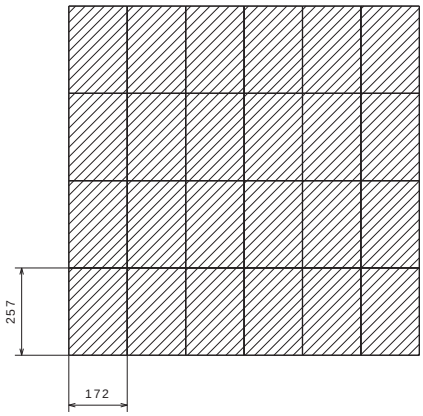
Quantities by Pallet Condensing Units

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

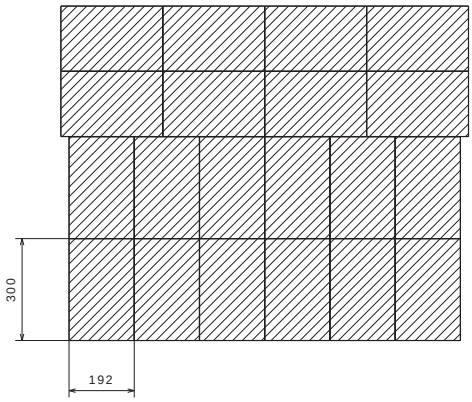
Pallet Product Layout

Single Box Pallet Distribution

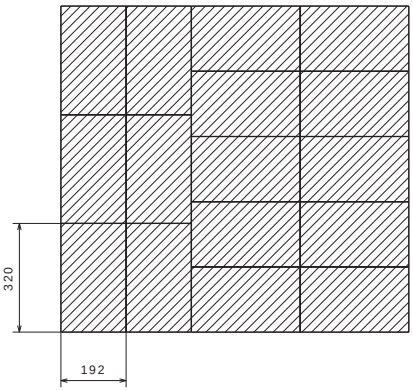
D Range



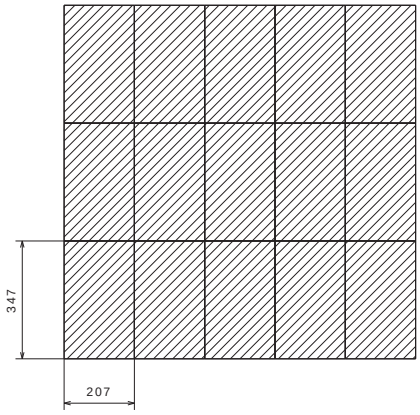
U, L & P Ranges



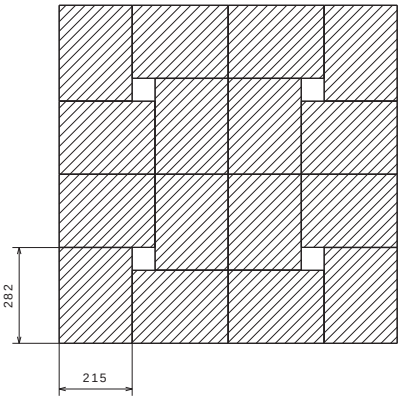
P Range with connecting box and X Range



X Range with connecting box

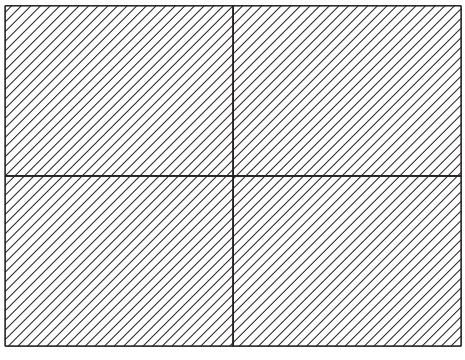


S Range

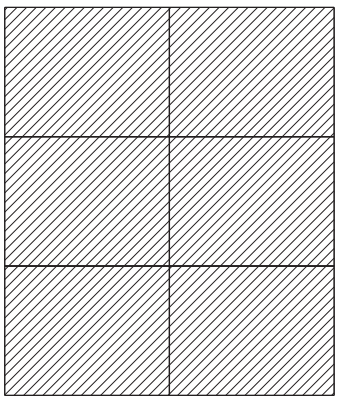


Condensing Units Single Box Pallet Distribution

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

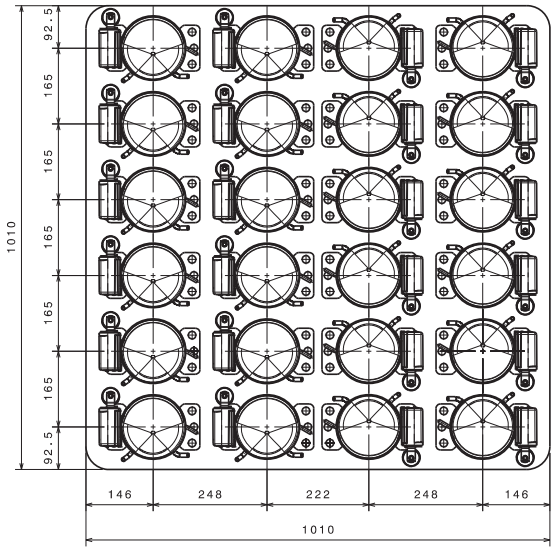


Versions 2A,2B,2C,2D,2E
Versions 3A,3B,3C

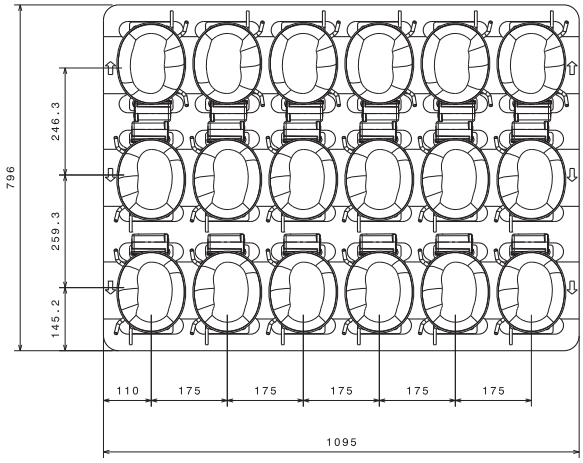


Tray per Pallet

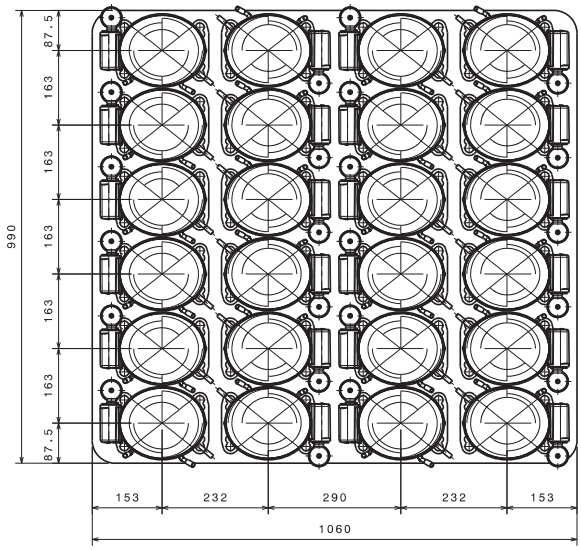
D compressor tray distribution



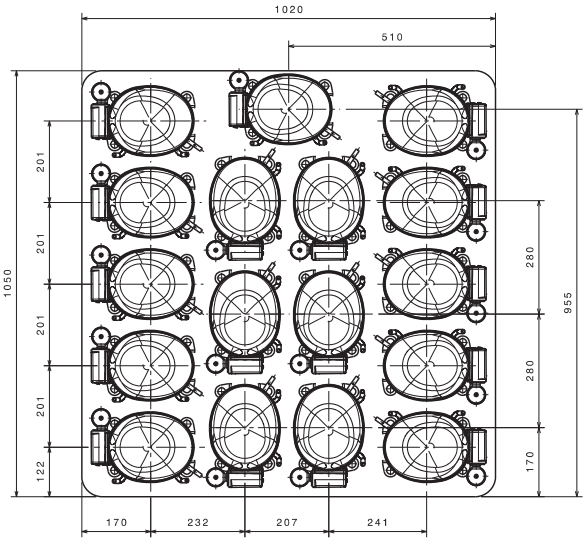
U compressor tray distribution



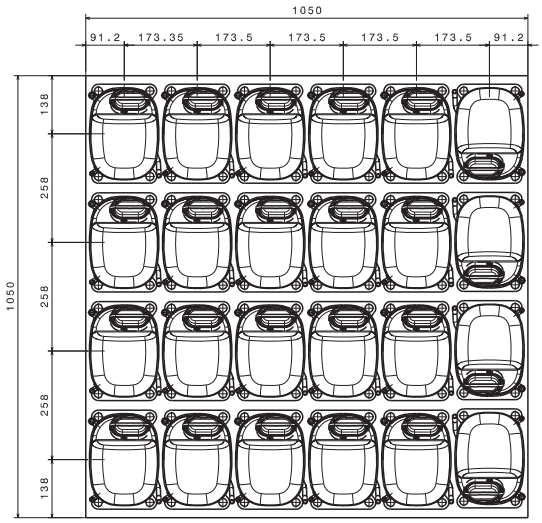
L and P compressor tray distribution



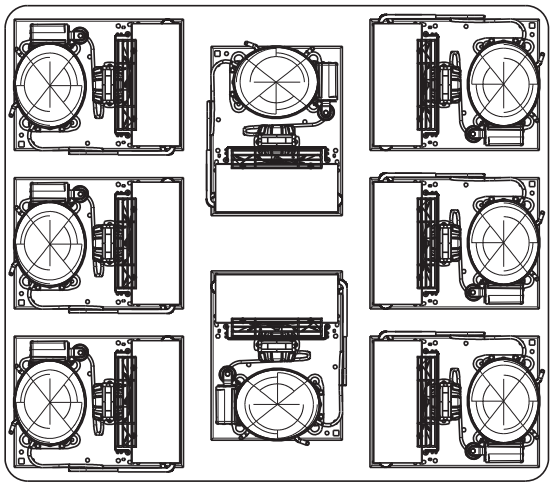
X compressor tray distribution

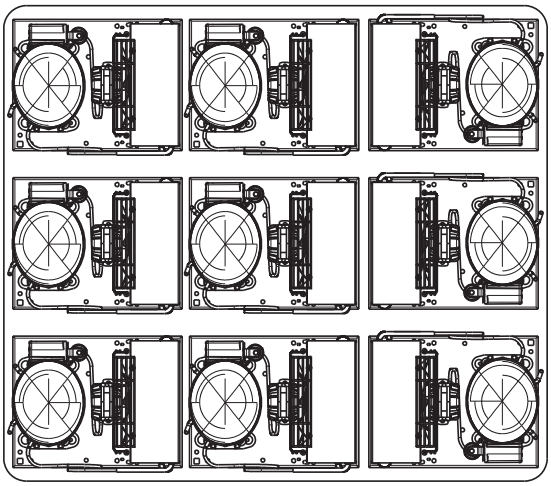


S compressor tray distribution



Condensing Units Pallet Distribution



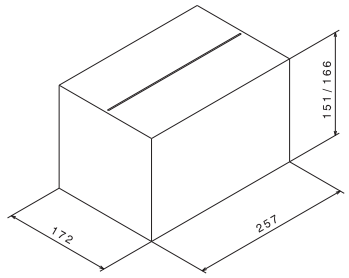


Pallet label

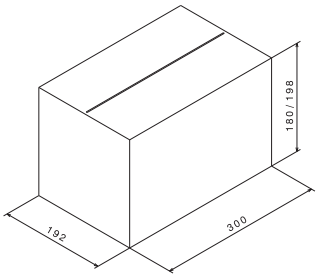
Receiver **CUSTOMER**	Customer **00000**	
Work Order **000000**	Supplier name **HUAYI COMPRESSOR**	
Part Name(P) **000000**		**0000** **A00 / MUELLE** **000000** **DD.MM.YYYY 00:00**
Quantity(Q) **000,000 UN**	Description **COMPRESSOR MODEL**	
Supplier ID(V)	Date **DD/MM/YYYY**	Drawing number
Palet number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

Single Boxes Drawings

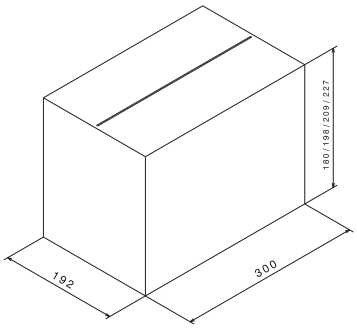
D Range



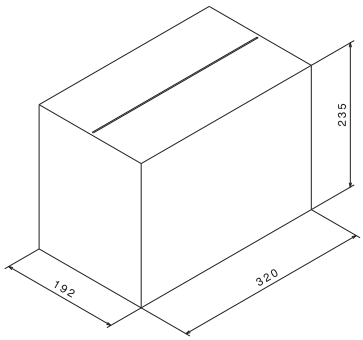
U Range



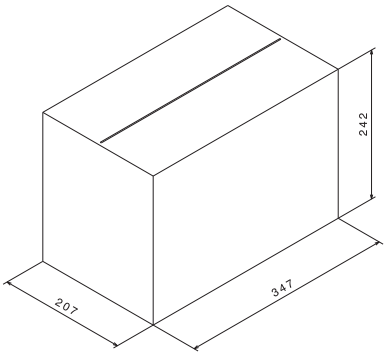
L & P Ranges



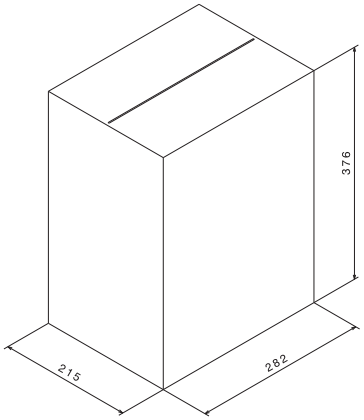
P / X Range



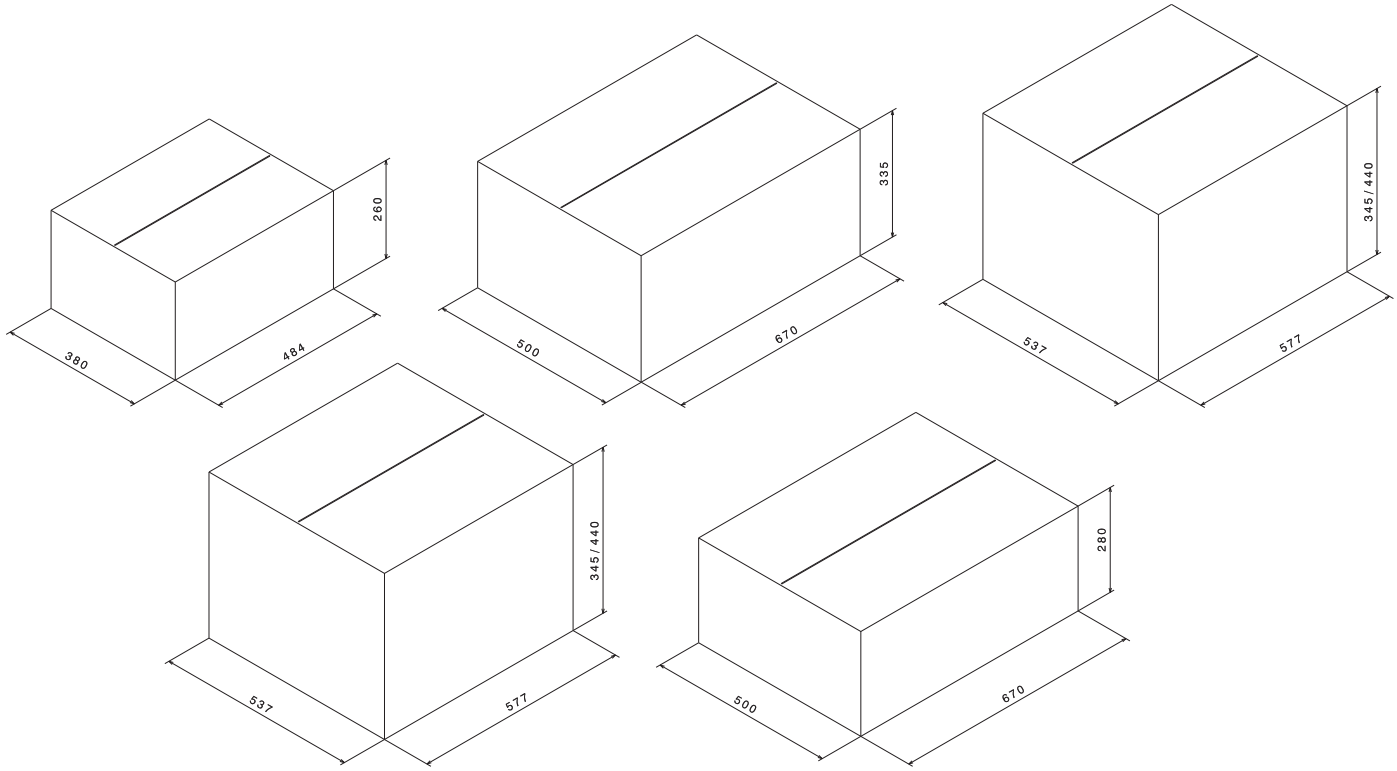
X Range with connecting box

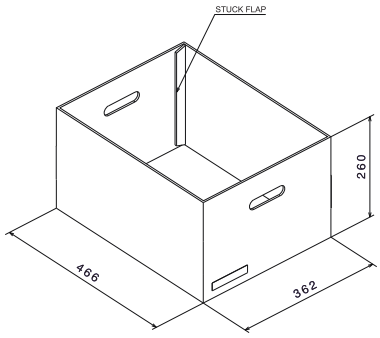


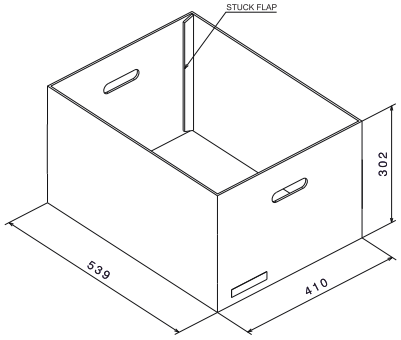
S Range

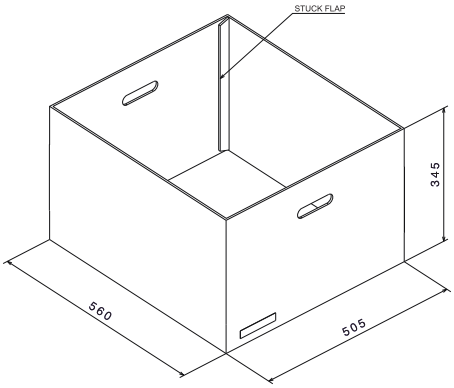


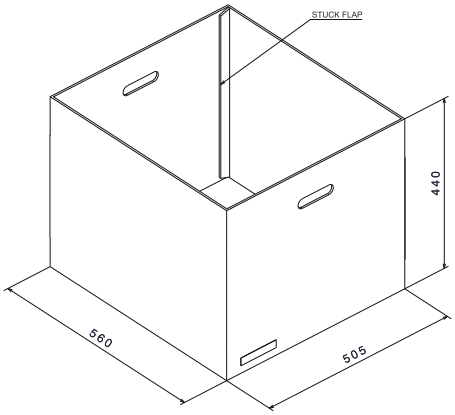
Condensing Units



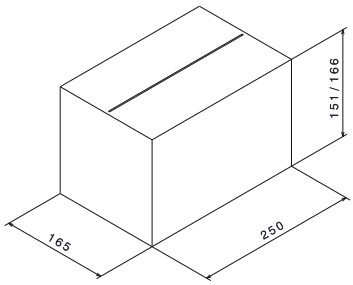




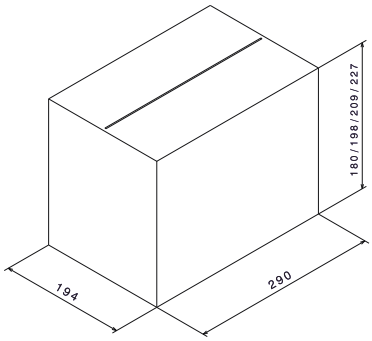




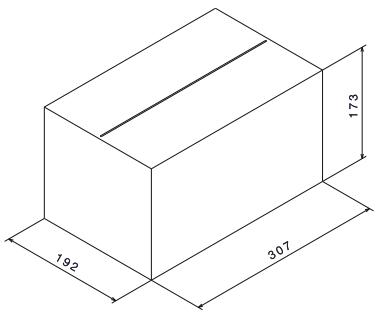
GD30FDC Compressor

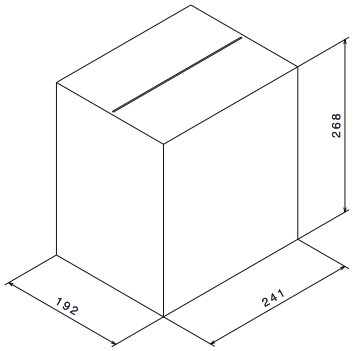


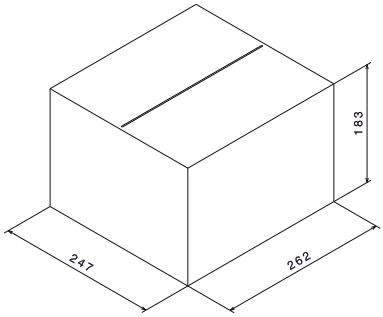
GLT80TDC Compressor



GD30FDC Condensing Units







Fixings

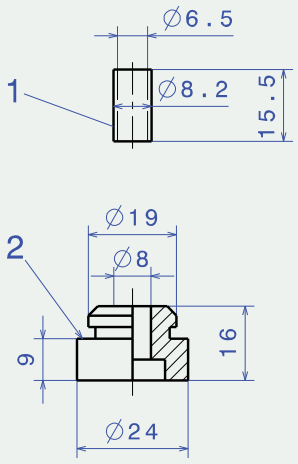
Fixings allow the manufacturer of appliances to fix the compressor to the appliance base, connecting it to the cooling system.

Mounting feet

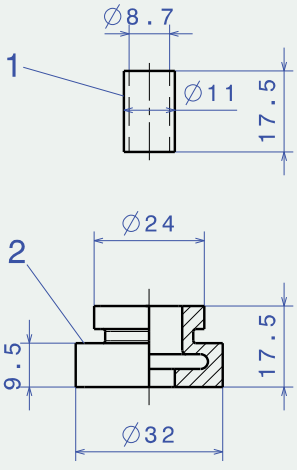
Range	Mounting feet	
D	European type. Set of 4 holes of 16mm DIA with inter-axes: 70x170mm	
U	European type. Set of 4 holes of 16mm DIA with inter-axes: 70x170mm	
L / P	European type Set of 4 holes of 16 mm DIA with inter-axes: 70 x 170 mm	American type Two sets of 4 holes: 1.- Set of 16 mm DIA with inter-axes: 70 x 170 mm 2.- Set of ¾ inch (19 mm) DIA with inter-axes: 4 x 61/2 inch (101.6 x 165 mm)
X	One set of 4 holes of 19 mm (¾ inch) DIA with inter-axes: 114.3 x178 mm (41/2 x 7 inch)	
S	One set of 4 holes of 19 mm (¾ inch) DIA with inter-axes: 122.2 x 200.2 mm (413/16 x 7 7/8 inch)	

Silent Blocks (Mounting accessories)

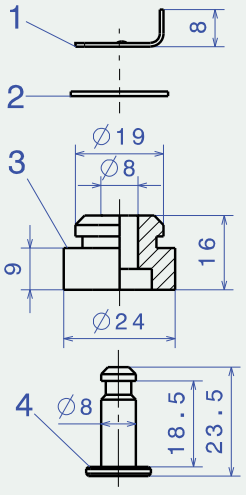
STANDARD
D.16 holds net (170x70)



AMERICAN FEET
D.19 holds net (165x101.6)

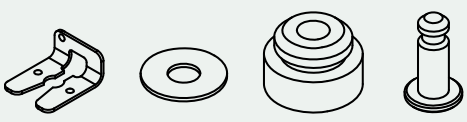


SNAP-ON
D.16 holds net (170x70)

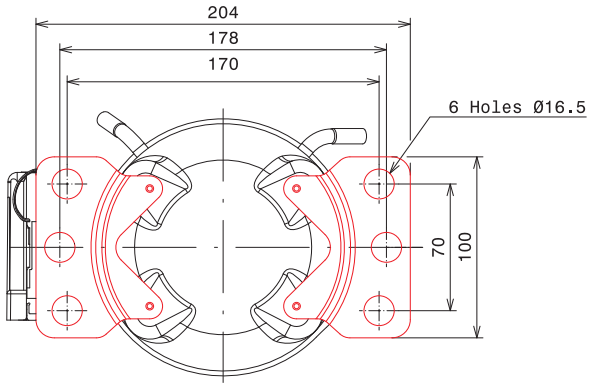


1. Mounting sleeve
2. Silent Block

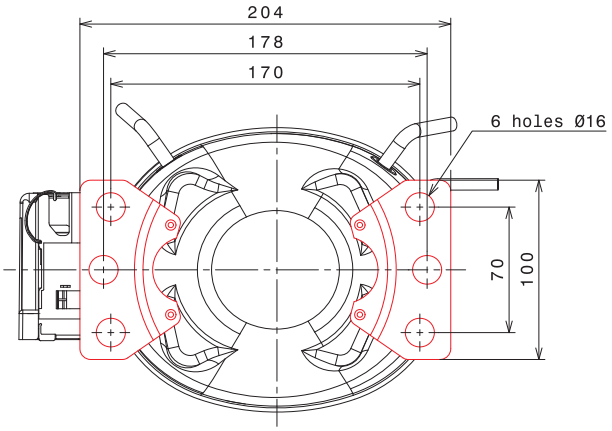
1. Clip
2. Washer
3. Silent Block
4. Axis



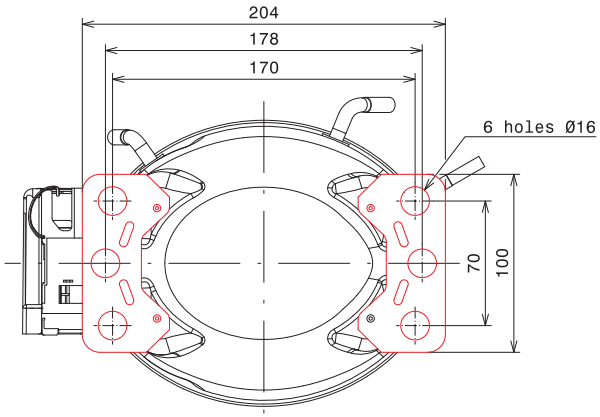
D Range
European mounting feet



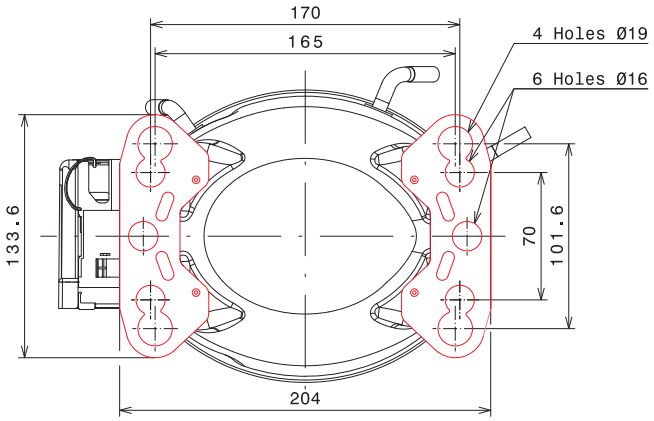
U Range
European mounting feet



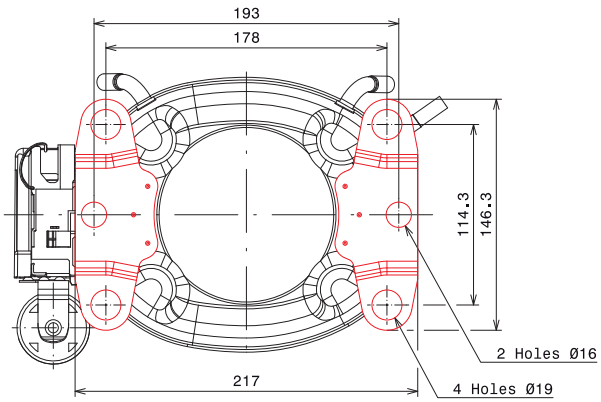
L / P Range
European mounting feet



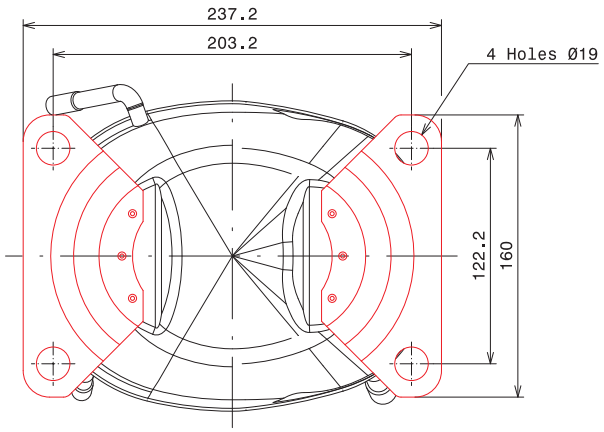
American mounting feet



X Range

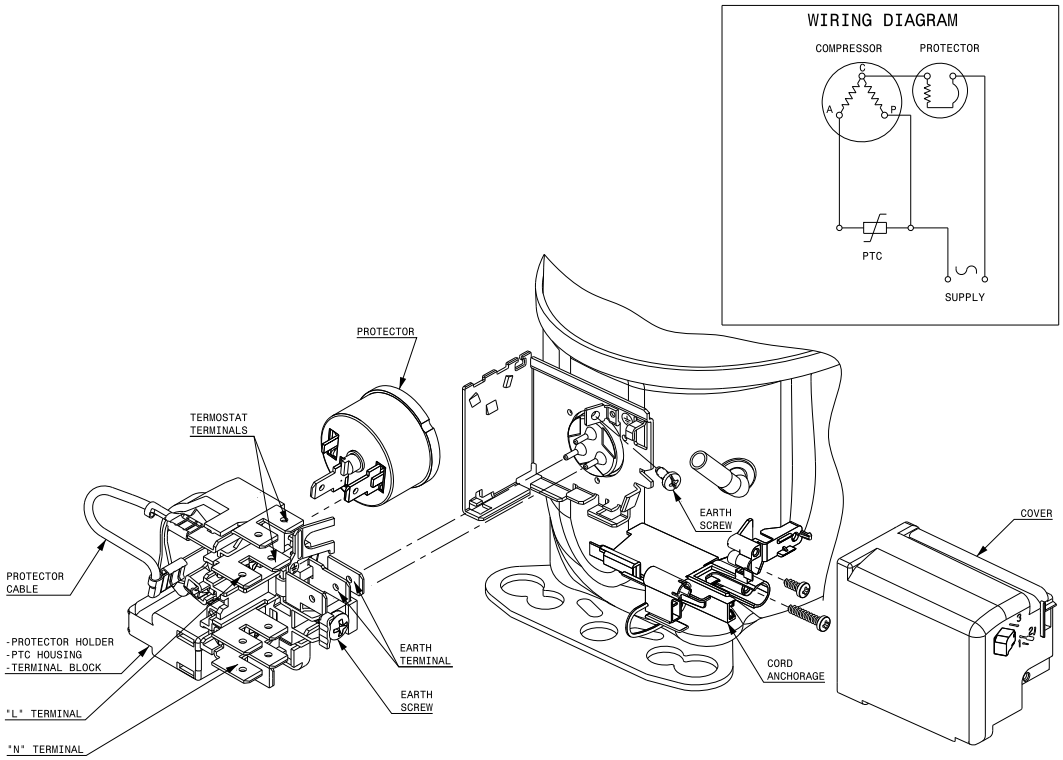


S Range

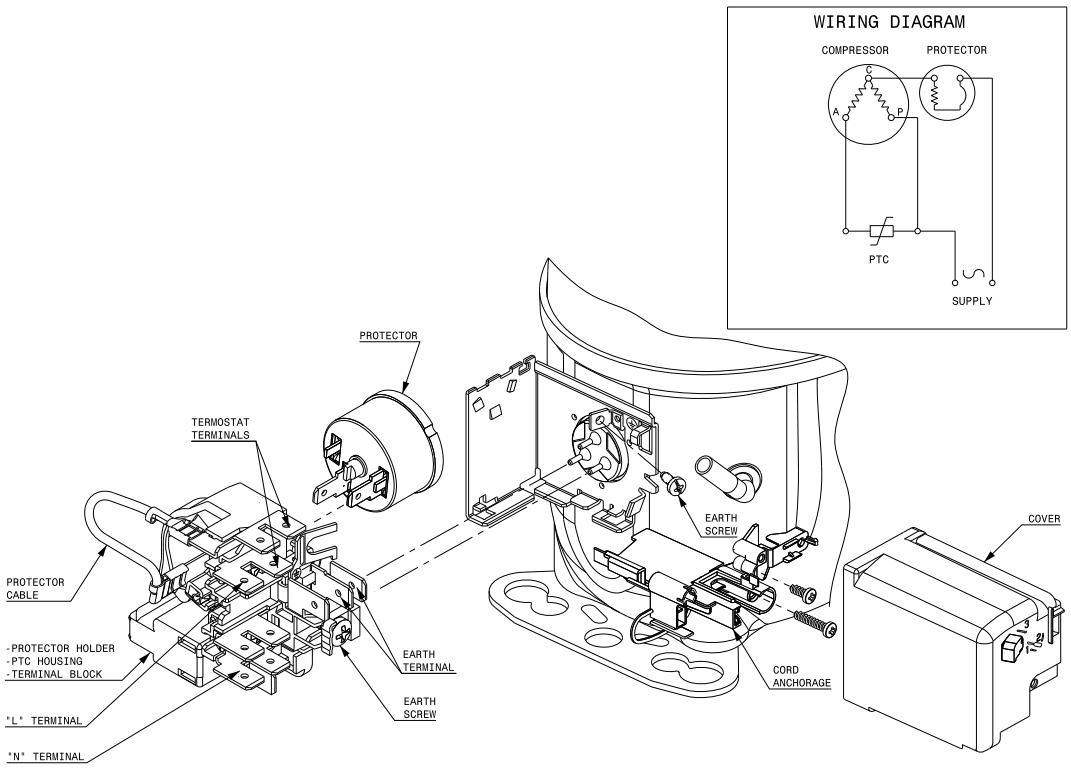


Wiring Diagrams and Electrical Assembly

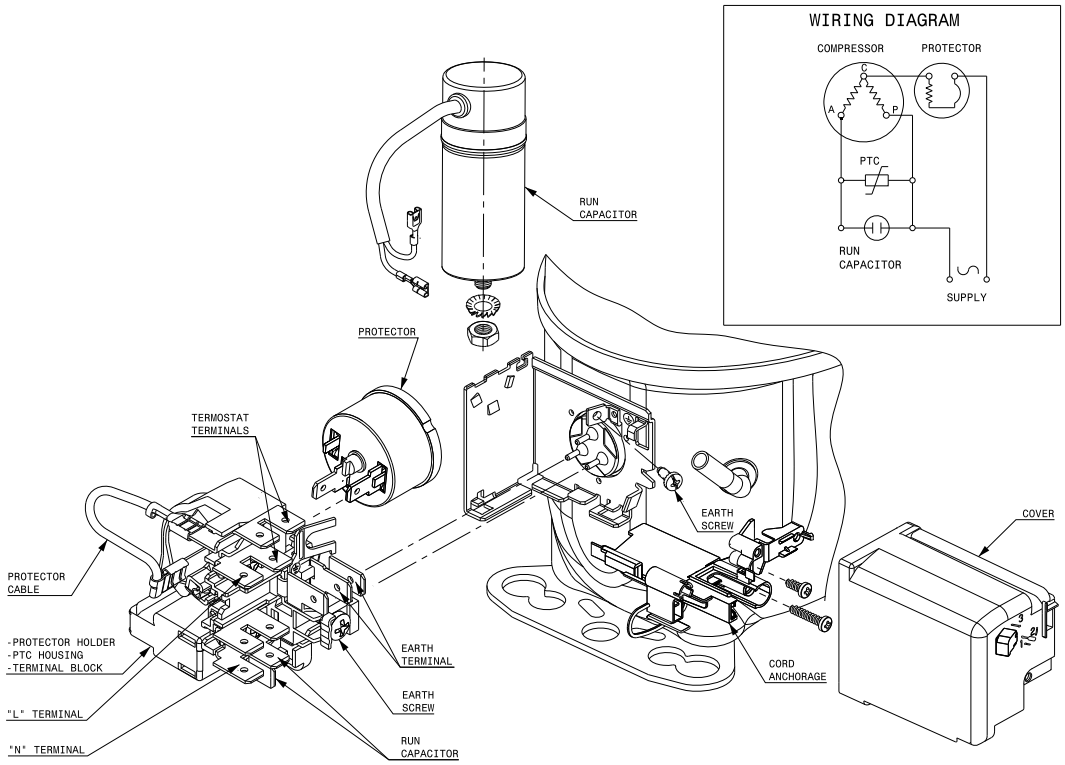
RSIR CONNECTION (PTC)



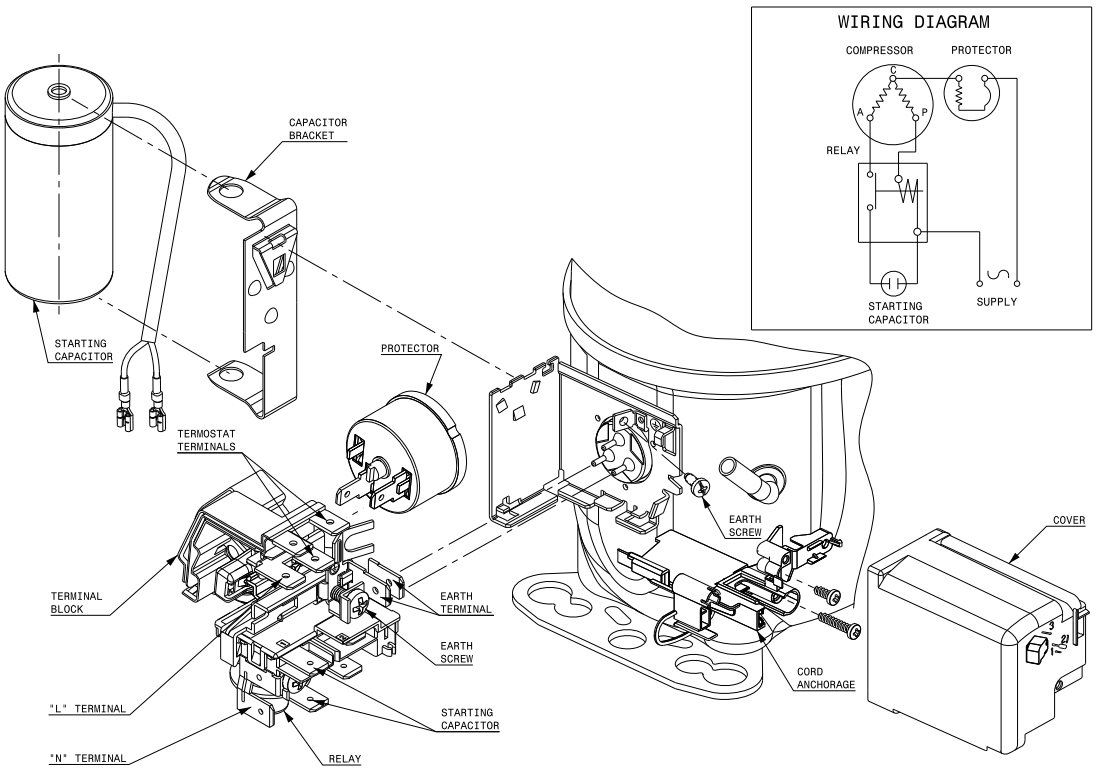
RSIR CONNECTION (RELAY)



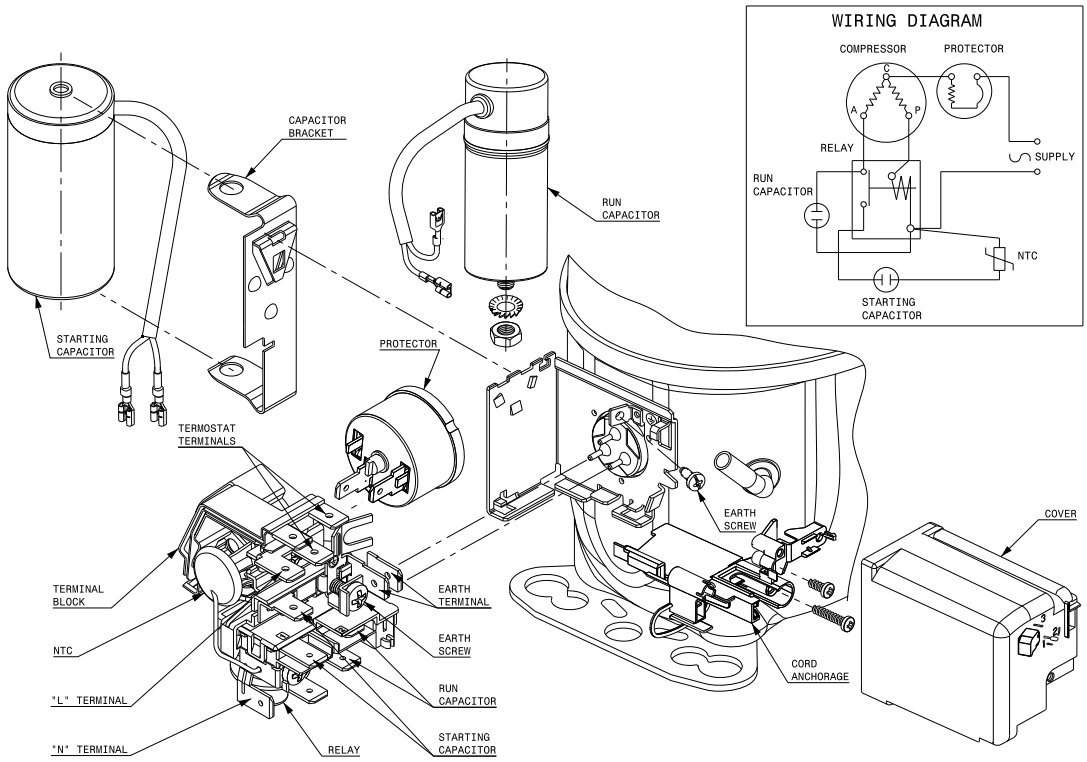
RSCR CONNECTION



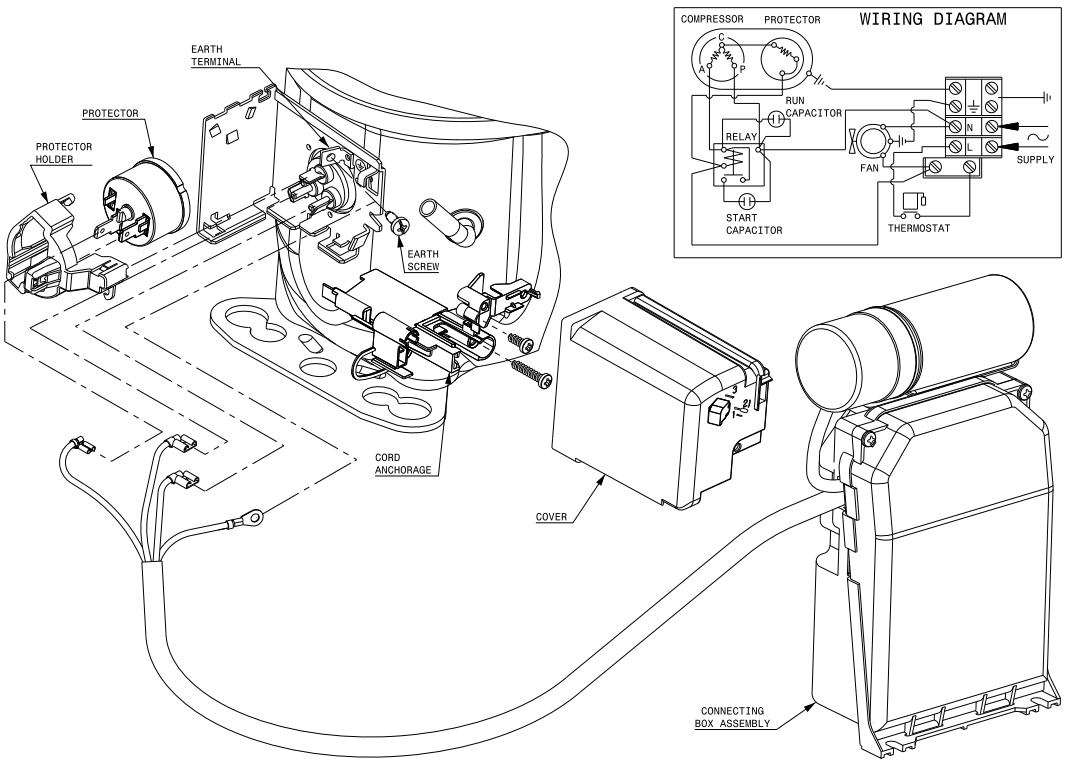
CSIR CONNECTION



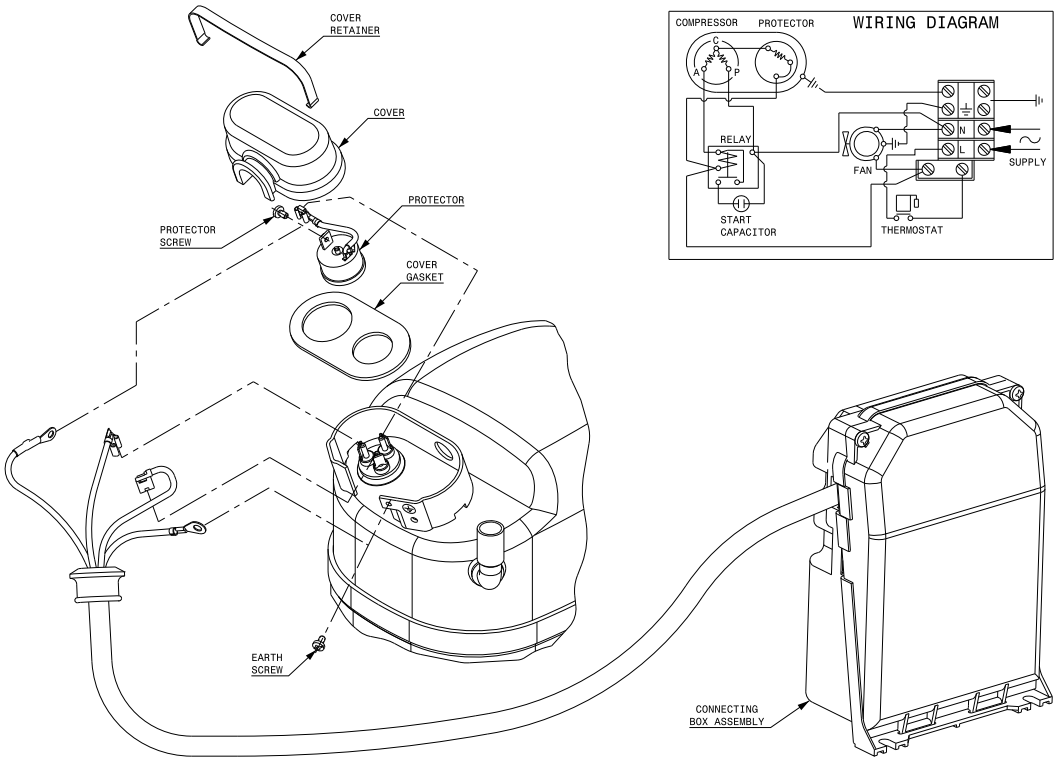
CSR CONNECTION (CURRENT RELAY + NTC)



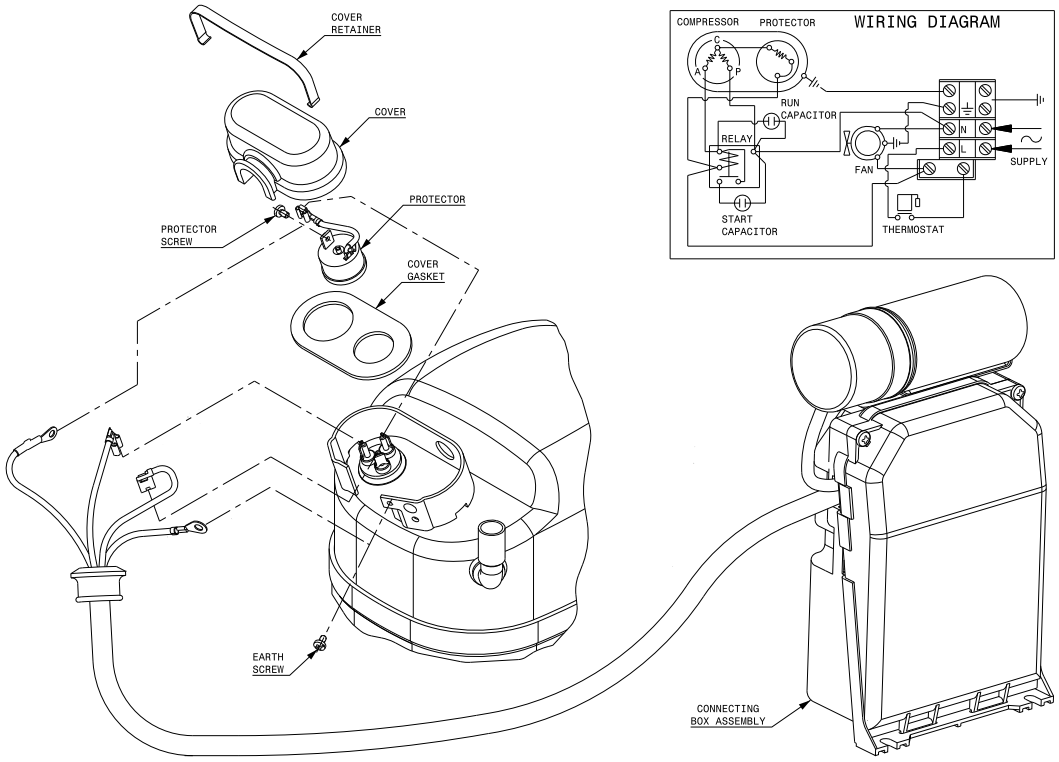
CSR CONNECTION (EXTERNAL CONNECTING BOX) (P, X ranges)



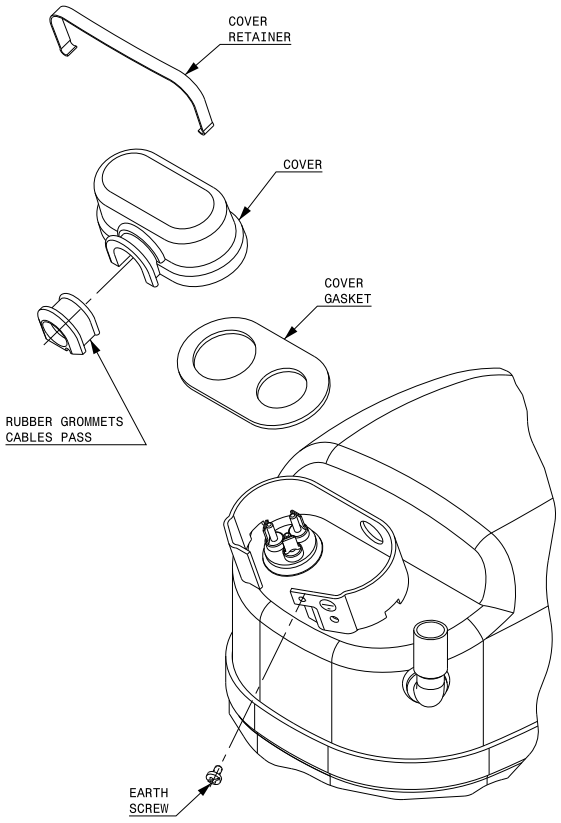
CSIR CONNECTION (EXTERNAL CONNECTING BOX) (S range)

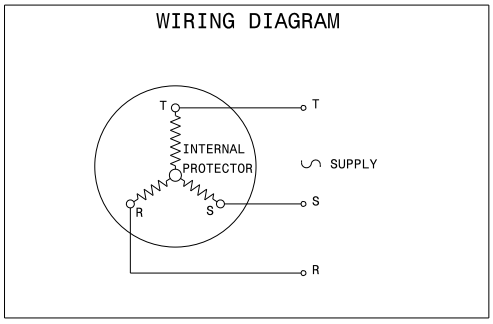


CSR CONNECTION (EXTERNAL CONNECTING BOX) (S range)

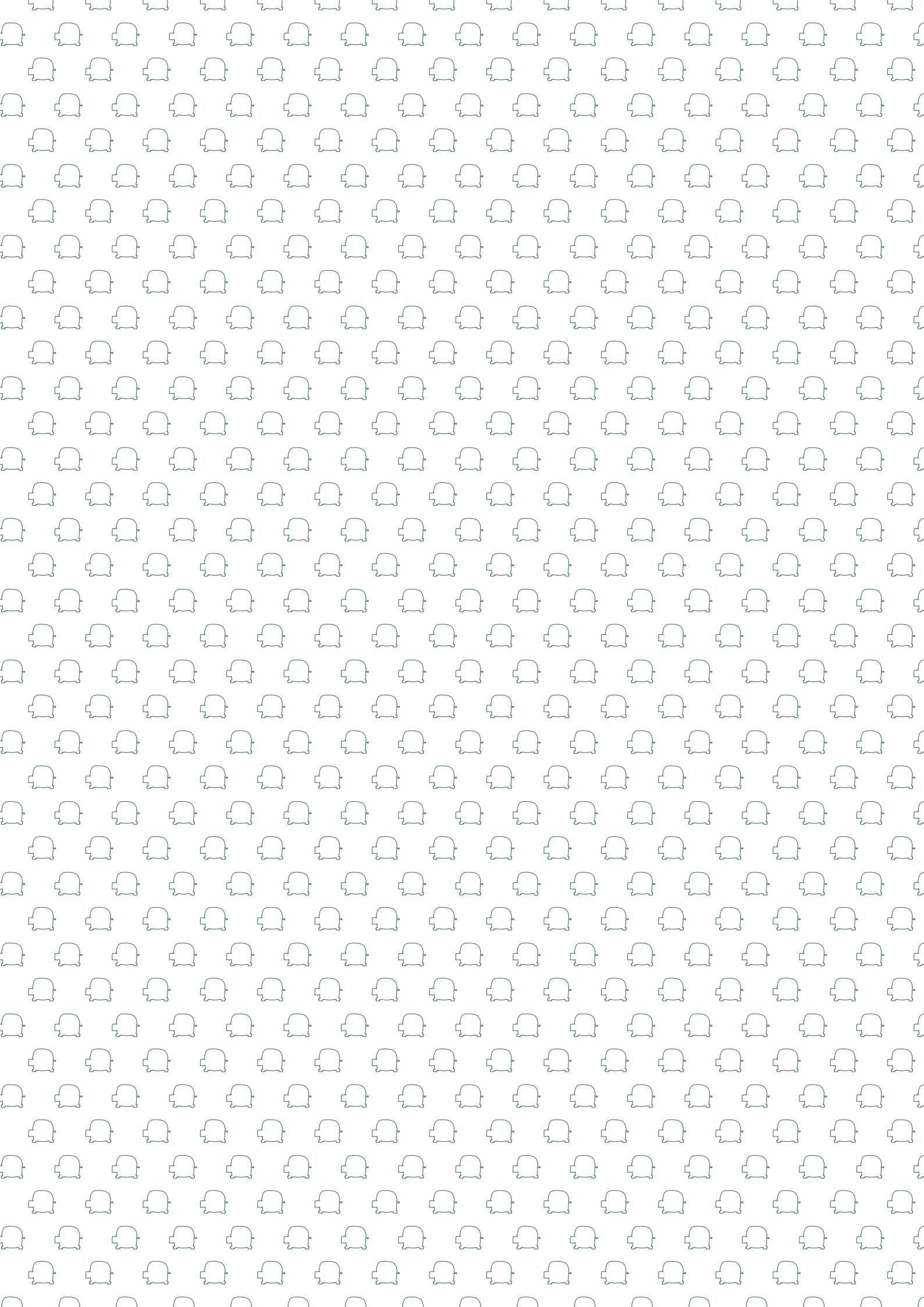


3PH CONNECTION (S range)





notes



HUAYI
COMPRESSOR
BARCELONA

Huayi Compressor Barcelona, S.L.
Antoni Forrellad, 2 · 08192
Sant Quirze del Vallès · BCN · Spain
Phone: +34 93 710 60 08
Fax +34 93 710 69 58

www.huayicompressor.es

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