cubigel
compressors

We know
about | COLD

GENERAL CATALOGUE

COMPRESSORS & CONDENSING UNITS

for Commercial Refrigeration
R134a · R404A · R507 · R600a · R290 · R22

Worldwide presence

Sales and distribution

For every application

The most complete range of products

Low energy consumption

Natural Refrigerants

Mobile applications

Cubigel Compressors is a world leading company in manufacturing, sales and distribution of compressors and condensing units for Commercial Refrigeration market.

Cubigel Compressors focuses on a high quality product strategy with the development of a strong R&D, an enhanced know-how and expertise to provide a broad range of solutions to the commercial refrigeration industry.

With an offer of more than 500 different models, compressors ranges go from 2,4cc to 34cc in most refrigerant gases, main voltages and for any type of application. Furthermore, Cubigel Compressors cutting-edge technology offers complete innovative High Efficiency products providing energy reductions of up to 20% as compared to traditional versions, consequently, lower CO_2 emissions.

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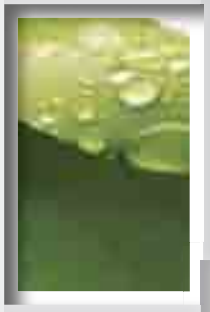
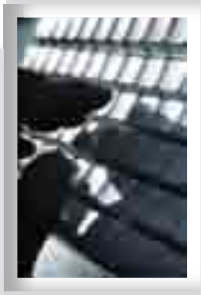
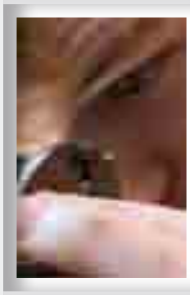






Leadership

Reliability

Innovation

Cutting-edge technology

People

Research and Development

1. General Information

1.1 Cubigel Compressors

Cubigel Compressors, S.A. is an independent company dedicated to design, manufacture, sell and distribute a wide range of compressors and condensing units suitable for the all Commercial Refrigeration market requirements worldwide.

The origins of the company dates from 1962, when the first factory was establish in Spain, since then, the company has grown up and developed a strong know-how in manufacturing compressors while satisfying our customer's needs and requirements with the most advanced products, leading innovation and f exible solutions.

The company focuses on a high quality product strategy with the development of a strong R&D, an enhanced expertise along with efficient production platforms to provide a broad range of solutions to the refrigeration industry.

Proof of this innovation is the High Efficiency ranges that allow the reduction of more than 20% of energy consumption compare to standard models. In addition, Cubigel Compressors strongly worked on the use of Natural Refrigerants as R290 that has no direct effect to global warning, while allowing an extra energy consumption reduction.

Nowadays, Cubigel Compressors sells to commercial refrigeration appliances OEMs worldwide and to a network of 150 distributors in more than 70 countries.

Furthermore, the company has an offer of more than 500 different models, with ranges that go from 2,4cc to 34cc in most refrigerant gases, main voltages and for any type of application. Together with Technical Relations Department and the Sales Force, Cubigel Compressors is constantly involved with clients in order to assist and develop the best solution according to their application specifications.

1.2. Products Overview

1.2.1 Compressors Family

FAMILY	COMPRESSORS	COMPRESSOR DESCRIPTION	
D range		Features: Range: Refrigerants: Applications:	Very compact design, Low weight, extra silent 2.40 to 4.03 cc R134a, R600a Water Coolers, Can Coolers, Bottle Coolers, Small Refrigerators and Freezers
L range		Features: Range: Refrigerants: Applications:	The most efficient high efficiency range with propane (R290) & isobutane (R600a) 4.00 to 9.9 cc R134a, R404A, R600a, R290, R507, R22 Household Refrigerators, Bottle Coolers and Freezers, Can Coolers, Chest Freezers, Vending Machines, Ice Cream Freezers, Beer Dispensers, Ice Makers, Soft drinks dispensers. Heat pumps systems
P range		Features: Range: Refrigerants: Applications:	High Efficiency versions The most efficient high efficiency range with propane (R290) & isobutane (R600a) 12.00 - 16.00 cc R134a, R404A, R600a, R290, R507, R22 Household Refrigerators, Bottle Coolers and Freezers, Can Coolers, Chest Freezers, Vending Machines, Ice Cream Freezers, Beer Dispensers, Ice Makers, Soft drinks dispensers
X range		Features: Ranges: Refrigerants: Applications:	High reliability & efficiency, New design to work under heavy duty operation conditions 16.00 to 23.00 cc R134a, R404A, R290, R407C, R507, R22 Large Freezers (vertical and chest), Blast Freezers, Ice Makers, Vending Machines, Display Cabinets, Display Islands, Soft drinks dispensers
S range		Features: Range: Refrigerants: Applications:	Top capacity range, Optimized design to reduce vibration 18.00 to 34.42 cc R134a, R404A, R407C, R507, R22 Large Freezers (vertical and chest), Soft drinks dispensers, Blast Freezers, Air Dryers, Ice Makers, Air Conditioning, Vending Machines, Heat Pumps, Display, Cabinets and Islands

1.2.2 Condensing Units

Cubigel Compressors provides high quality hermetic condensing units with a wide range of options for most Commercial Refrigeration applications in LBP, HMBP and HBP, most of them being able to work under tropical temperature conditions. The range of condensing unit models covers both standard and customized versions.

Cooling Systems

Features: Complete range of Condensing Units from 2.4 to 34 cc.
High reliability & top quality components.
Specific customized versions. Designed to work under 43ºC tropical conditions
Refrigerants: R134a, R404A, R290, R407C, R507, R22
Applications: Suitable for all applications

Tropicalized Unit

1.2.3 Compressors for mobile aplications DC 12-42V

Cubigel Compressors offers cooling solutions for vehicles of transportation designed to operate from low voltage DC power supply. The 12V DC GD30FDC compressor is the solution for users requiring comfort and reliability during their traveling where a DC powered refrigerator is utilized.

Joining the GD30FDC, Cubigel Compressors launched the GLT80TDC model for LBP, HMBP and A/C with substantially increased cooling capacity and improved efficiency.

Both models offer high performance and are electronically driven, having been specifically designed for mobile DC applications in boats, trucks, private cars, medical appliances in ambulances, cabin truck air conditioners, among others, performing silently, efficiently and reliably, being able to operate under a strong tilt up to 30º. Any standard DC power supply, either batteries or solar cells, 12, 24 and/or 42V, may be used to power up the compressors. In case of supply through batteries, the electronic driver protects them against exhaustion and provides a complete set of self-protecting functions to ensure full reliability under any circumstance.

GD30FDC and GLT80TDC fit fully digital and programmable electronic drivers with communication capabilities and variable speed. Automatic optimization of speed becomes extremely easy: just select Smart Speed® for refrigerators or Sleep Energy Saving for air conditioners, and save energy up to 30% without of any kind of additional electronics.

DC Compressors Range

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

1.2.4. The Green Cooling Ranges

Cubigel Compressors offers the most extensive range of compressors for sustainable refrigeration in terms of energy consumption reduction and the use of natural refrigerants.

The advanced design of the Green Cooling Ranges allows efficiency improvement providing energy consumption reductions up to 30% compared to standard versions; consequently, lower CO2 emissions to the atmosphere. In addition, the use of natural refrigerants as R290 with no direct effect on global warming, increases the compressor's performance, allowing that way an additional reduction of energy consumption.

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

1.2.4.1. High Efficiency Ranges

Cubigel Compressors offers the most extensive compressors of High Efficiency range, including compressors working with R134a, R404A, R290 and R600a.

With the High Efficiency ranges, Cubigel Compressors responds to the Kyoto Protocol requirements regarding the reduction of the greenhouse gases aimed at minimizing the global warming effect of the planet: the High Efficiency models of Cubigel Compressors reduce energy consumption of commercial refrigeration appliances between 10% and 30% with respect to standard ranges that in turn, means an important reduction of fossil fuels consumption.

Most High Efficiency models are equipped with electrical motors, designed with an “optional capacitor” concept, that is, the compressor can work with or without a running capacitor (CSR/CSIR), which reduces the stock of compressors in order to optimize service.



1.2.4.2. 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-CFCs and HFCs refrigerants which have high impact on environment, but also because is more efficient in terms of performance and applications energy consumption.

Cubigel Compressors has strongly and successfully worked on an environmental alternative reducing the energy consumption by using natural refrigerants of no greenhouse effect (R290 and R600a) and offers a full range of compressors for R290 and for R600a.

In particular, 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. Additionally, propane has better dynamic behavior showing a lower increase of energy consumption with increasing ambient temperatures.

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's 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 windings design and the optional running capacitor concept.

1.2.4.3. Variable Speed Compressors

The Variable Speed Compressors are the top efficiency ranges, as they offer the lowest energy consumption by adopting electronically controlled running modes.

As a part of the innovation, Cubigel Compressors’ Variable Speed Compressors offers low energy consumption

Using the same Smart Speed® algorithm with communication capabilities as DC compressors, this compressor automatically achieves the best efficiency for the appliance while dynamically adapting the compressors speed to the needed cooling capacity.

Furthermore, there is also an electronically controlled compressor (FSD) available, which improves COP by 45%.

Variable Speed Compressors are available for R134a with GLT99FSN model and for R290 with NPT12FSC model. With this last model, it’s been obtained a major benefit derived from the use of Natural Refrigerants: A better performance and the no contribution to global warming.

Variable Speed Compressors

Features:	High Efficiency, Exceptionally silent Flexible Speed Drive (FSD) Drop-in configuration External controlling 200-240 V / 50-60Hz
Refrigerant:	R290, R134a

1.3. Compressors

1.3.1. Product Range

The Cubigel Compressor production includes models with displacement (or swept volume, maximum volume of the cylinder) between 2,4 cm^3 and 34 cm^3. This range is divided based on a specific mechanical design and using the most optimized, for the range, shape of motor laminations (Table 1).

Table 1 . COMMERCIAL REFRIGERATION COMPRESSOR RANGE

D	L	P	X	S
				

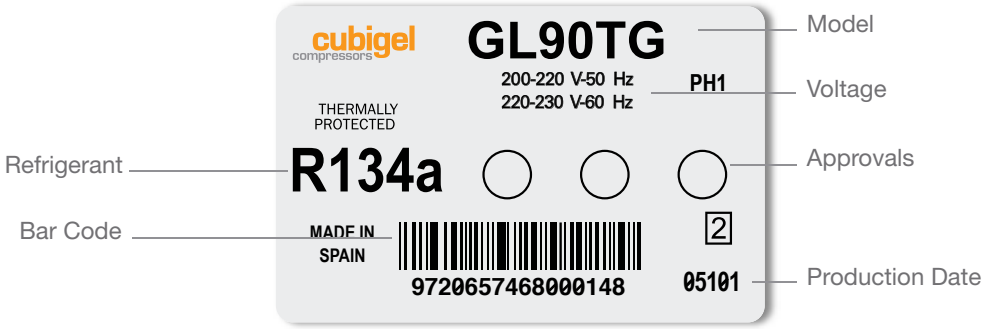
Table 2 shows the ranges denomination, their respective displacements as well as the cooling capacity coverage. Type of mechanism and maximum weight among the range are also listed.

Table 2 . 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
L	4.5	9.9	110	460	324	1410	11
P	12	16	190	775	1065	2080	13
X	16	23	400	1060	1655	3030	17
S	18	34	1215	1620	2475	5265	23

NOTE: *All refrigerants / Measured at ASHRAE rating condition 50 Hz

1.3.2 Identification Labels



APPROVALS

DIRECTIVE COMPLIANCE DECLARATIONS

FLAMMABLE GASES

NOTE: Approvals depend on the compressor model

1.3.3 Compressor Nomenclature

Cubigel Compressors models identification and designation

model 〉 **G L Y 6 0 R A a**

G L Y 60 R A a

Indicates refrigerant. Not appearing in case of ranges for R22

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

Indicates compressor range (overall design).

D = 2,4 - 4cm³
L = 4,0 - 9,9cm³
P = 12 - 16cm³
X = 16 - 23cm³
S = 18 - 34cm³

Indicates energy efficiency level. Not appearing in case of ranges for R22 and for 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 / L ranges 10 times the approx. displacement in cm³/rev (GL80 AF -> approx 8 cm³/rev)
P / X / S ranges The approx. displacement in cm³/rev (MX21TG -> approx 21 cm³/rev)

Indicates the starting torque, application type and compressor cooling:

A = LBP - LST - S
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 (50ºC)
R = 115-127V 60Hz (old ranges)
T = 200-220V 50Hz
U = 208-230V 60Hz
3 = 3 phase 400-440V 50/60Hz

In case of old ranges R22, this character indicates refrigerant and constructive variations.

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 in the compressor label but it is used for ordering, invoicing and Cubigel internal processes

Examples.

1.- In high efficiency compressors (“Y” series, i.e.: GPY12LA or MLY80RD), the letters “a” or “b” may indicate the electrical connection type corresponding with 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

1.3.4 Voltage

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

Table 3 shows the different voltage versions of Cubigel Compressors production, rating values and operative voltage ranges.

Table 3 . 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 or L or N	200- 220/220-230 V 50/60 Hz [**]	170-242/187-253 V 50/60 Hz
M or R	115-127 V 60 Hz	98-140 V 60 Hz
T	200-220 V 50 Hz	187-242 V 50 Hz
U	208-230 V 60 Hz	177-253 V 60 Hz
3	400/440 V 50/60 Hz 3ph	340-440/374-484 V 50/60 Hz

[*] See # Compressor Nomeclature

[**] Some models are 200-220/230 V 50/60 Hz. Consult Model Technical Data Sheet at www.cubigel.com

1.3.5 Applications

Compressor classification per application

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

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

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

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

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

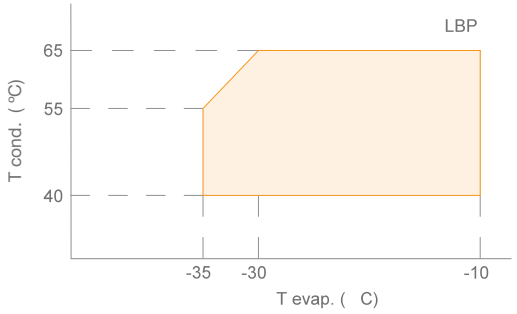
Very High Back Pressure (VHBP) Compressors.
Evaporating temperature range 0 ºC to +25 ºC [+32 to +77 ºF] with condensing temperature up to +75 ºC [+167 ºF]. The rating condition is defined by an internal Cubigel Compressors standard: T_e = +10 ºC [+50 ºF].

Air Conditioning (AC) Compressors.
Evaporating temperature range: -10 ºC to +10 ºC [+14 ºF to +50 ºF]. Rating condition: +5 ºC [+41 ºF] (CECOMAF) or +7.2 ºC [+45 ºF] (ASHRAE).

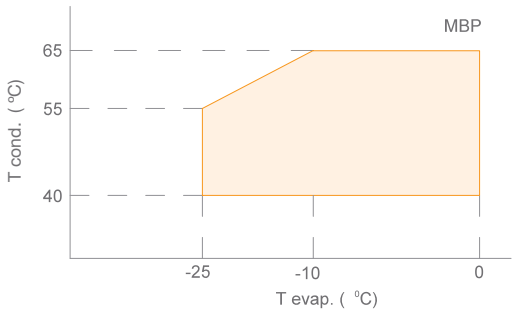
1.3.6 SOA - Safe Operating Area

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

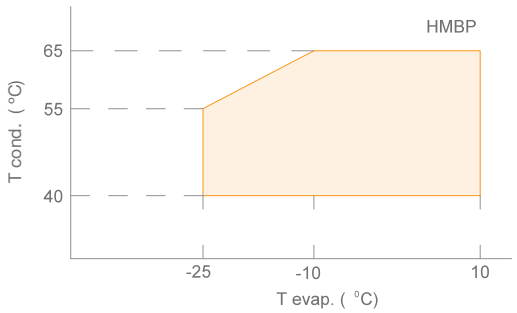
SOA R134a LBP



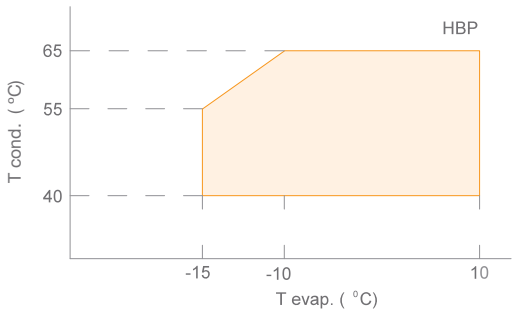
SOA R134a MBP



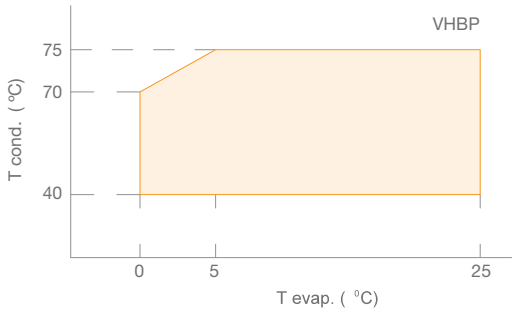
SOA R134a HMBP



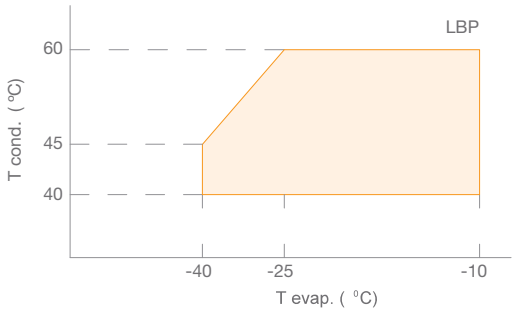
SOA R134a HBP



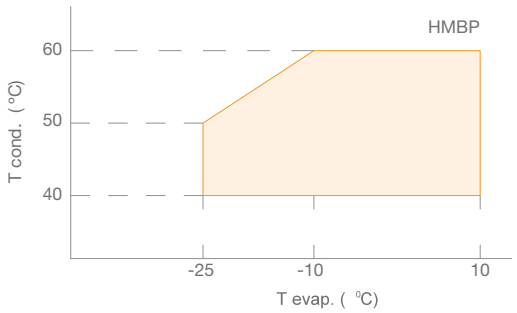
SOA R134a VHBP



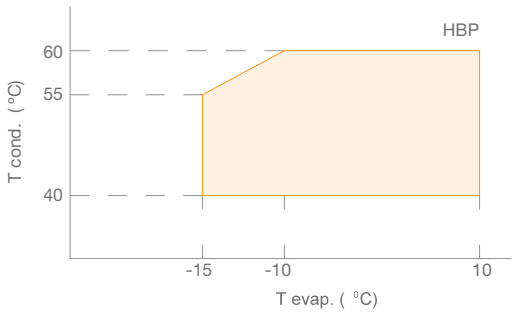
SOA R404A LBP



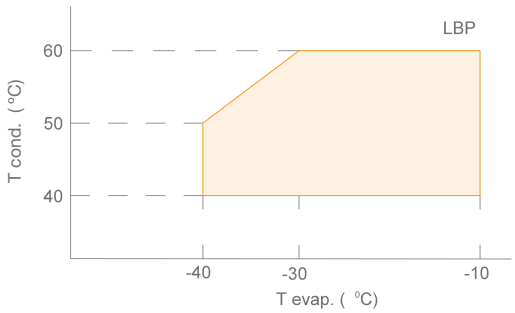
SOA R404A HMBP



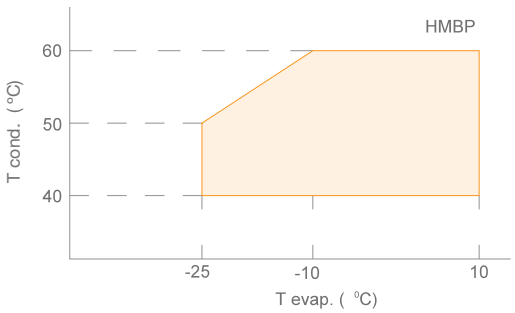
SOA R404A HBP



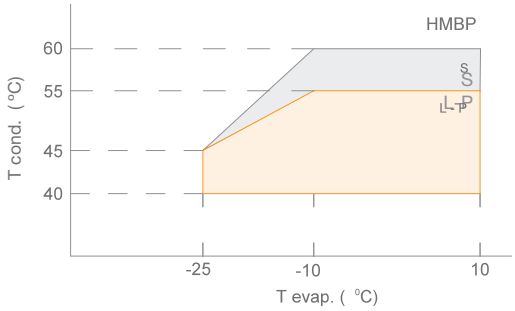
SOA R290 LBP



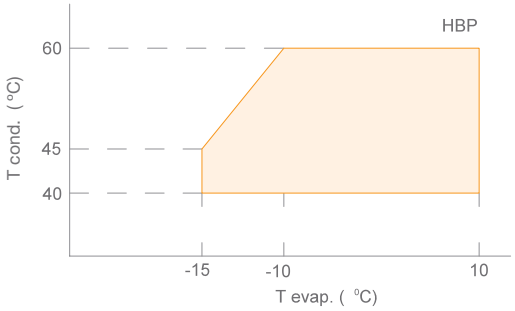
SOA R290 HMBP



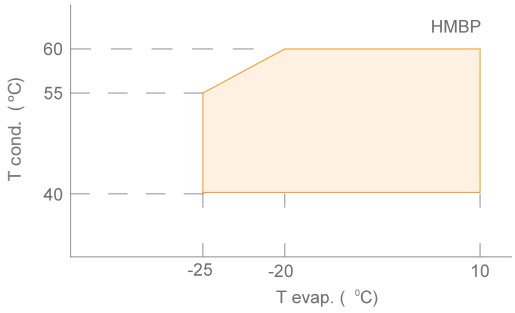
SOA R22 HMBP



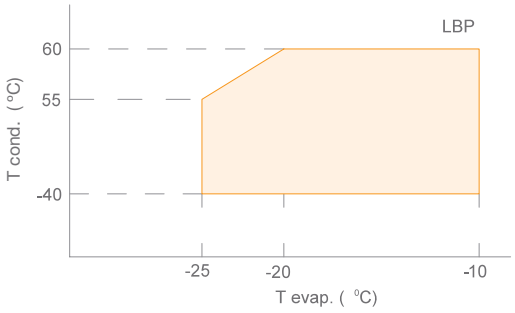
SOA R22 HBP



SOA R600a HMBP



SOA R600a LBP



1.3.7 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)

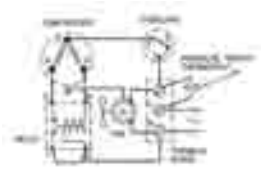
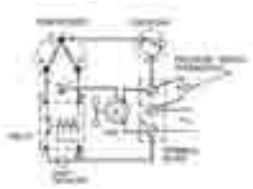
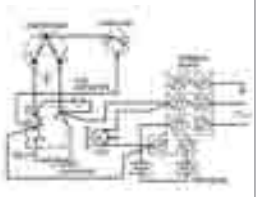
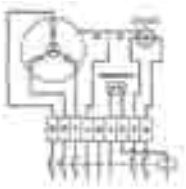
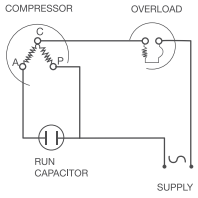
• PSC (Phase-Split Capacitor)
LST motor (comparatively the lowest among the different types). With running capacitor.
Auxiliary winding remains connected after start up. Mostly used in air conditioning requiring powerful, cheap motor.

• 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 motors in compressors with comparatively large displacements.

Table 4 . SINGLE PHASE MOTOR CLASSIFICATION

Capacitor type		Starting			
		NO (LST)		YES (HST)	
		Motor type	Starting device	Motor type	Starting device
Running	NO	**RSIR**	Intensity relay or PTC	**CSIR**	Intensity relay
	YES	**RSCR**	PTC	**CSR**	L and P ranges: Intensity relay
		PSC	No one		X and S ranges: Potential relay

1.3.8 Wiring Diagrams

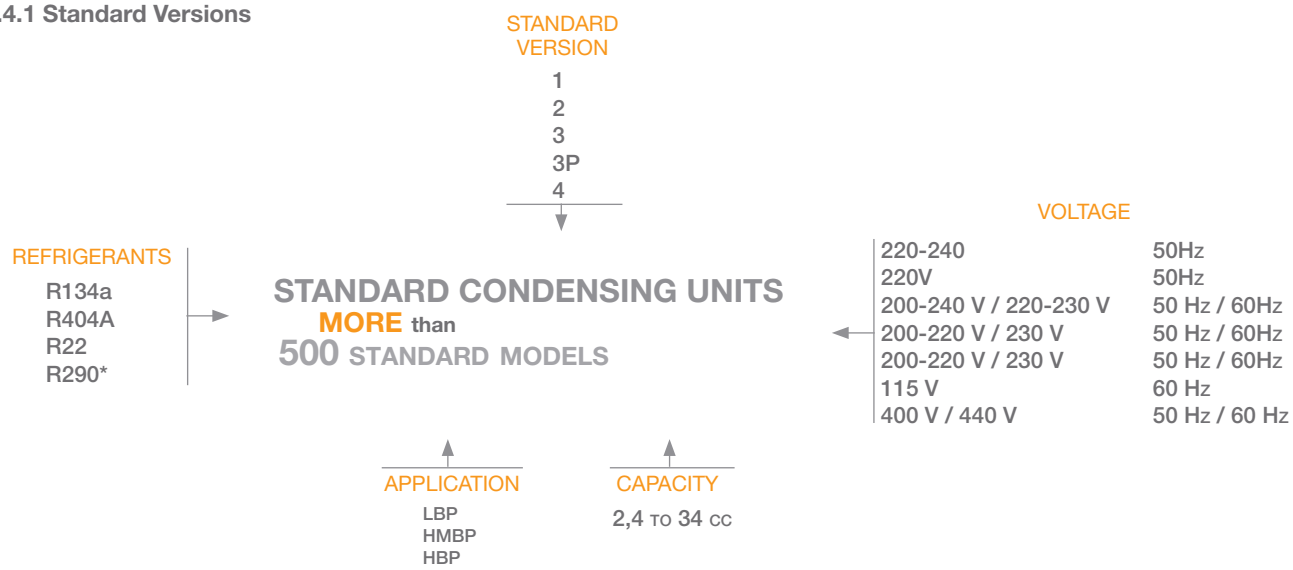
RSIR	CSIR	CSR	3PH	PSC
			3Phase 	

1.3.9 Product Summary

NOTE: * R134a compressors compatible with R12

1.4 Condensing Units

1.4.1 Standard Versions



NOTE: *Under Development

1.4.2 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	Main specific components	Main specific services
• 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	• 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	• Units UL approved on request • Certified laboratory facilities at customer disposal • Quick prototype building • Quick quotation system

1.5 DC Compressors and Condensing Units

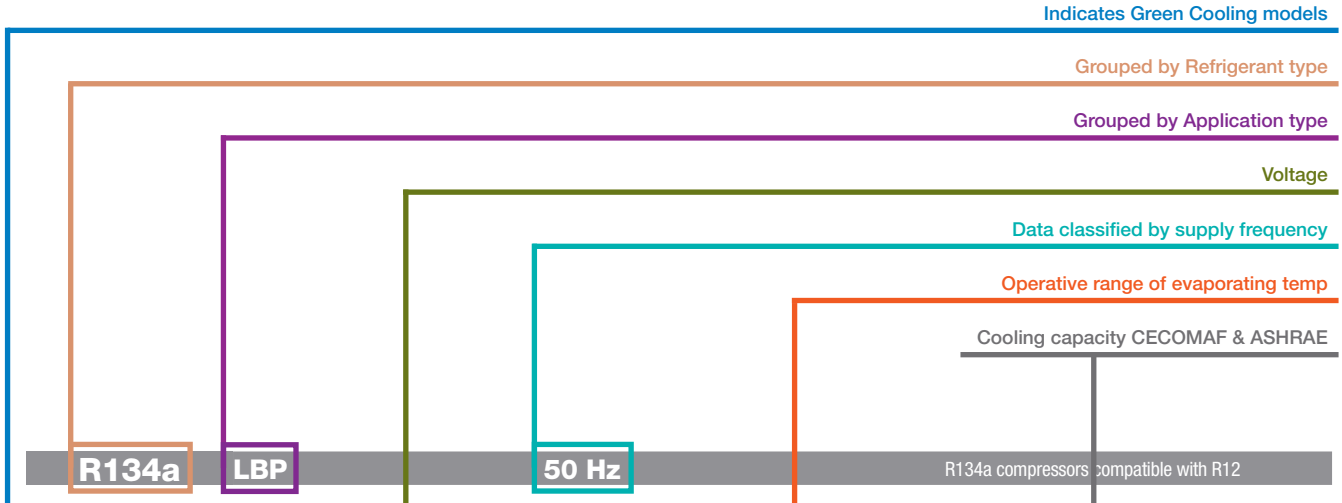
GD30FDC and GLT80TDC are the compressors for mobile applications, which are designed to operate from a low voltage DC power supply to operate silently, efficiently and reliably even up to angles of tilt of 30º, and works with the environmentally friendly refrigerant R134a.

Each unit is supplied with a dedicated electronic driver, which features all the protections against battery exhaustion and compressors motor and driver damage. The driver automatically adjusts itself to the voltage of the power supply.

GD30FDC / GLT80TDC are designed for capillary tube expansion:

Power supply: 12-42V. For GLT80TDC 12V maximun speed at LBP/HMBP 3000/2000 rpm respectively
Evaporation temperature range: -30ºC to +10ºC.
Condensation temperature range: up to 65ºC.
Pull-down peak: 70ºC.
Ambient temperature range: -10 to 55ºC (65ºC at starting).

1.6 How to read this Catalogue



	MODEL	DISPLACEMENT	POWER	APPLICATION	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					-23,3			
										-35	-30	W	COP	10	Kcal/h	COP	Kg	
	GL80AAb	7.38	1/5	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	68	102	144	0.89	326	170	1.15	9.9	Lc
	GL80AF	7.38	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	75	107	148	0.83	331	174	1.09	10.5	Ld
	GL80AN	7.38	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	75	107	148	0.83	331	174	1.09	10.6	Ld
	GL80AN.	7.38	1/5	LBP	OC	200-220/220-230V 50/60Hz ~1	RSIR	P	C	76	107	148	0.83	331	174	1.09	10.7	Ld
	GLY90AAa	9.09	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	104	140	186	1.07	387	216	1.37	10.4	Ld
	GLY90AAb	9.09	1/4	LBP	S	220-240V 50Hz ~1	RSCR	P	C	103	140	187	1.13	388	217	1.45	10.4	Ld
	GL90AA	8.1	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	82	119	165	0.9	351	193	1.15	10.2	Lc
	GL90AAb	8.1	1/4	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	82	119	165	0.9	351	193	1.15	10.2	Lc
	GL90AF	8.1	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	85	118	163	0.84	366	191	1.1	10.8	Ld
	GL90AN	8.1	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	85	118	163	0.84	366	191	1.1	10.8	Ld
	GL90AN.	8.1	1/4	LBP	OC	200-220/220-230V 50/60Hz ~1	RSIR	P	C	85	118	163	0.84	366	191	1.1	10.9	Ld
	GL99AAa	9.09	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	83	125	175	0.92	377	205	1.19	11	Ld
	GL99AAb	9.09	1/4	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	83	125	175	0.92	377	205	1.19	11	Ld
	GL99AL	9.09	1/4	LBP	S	200-220/230V 50/60Hz ~1	RSCR	P	C	91	130	180	0.94	382	210	1.22	11.3	Ld
	GPM12BA	12.1	3/8	LBP	OC	220-240V 50Hz ~1	RSIR	R	C	128	178	241	0.94	500	280	1.21	11.5	Pc
	GPM12CA	12.1	3/8	LBP	F	220-240V 50Hz ~1	RSIR	R	C	128	178	241	0.94	500	280	1.21	11.5	Pc
	GPY12AAa	12.1	3/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	128	178	241	0.96	500	280	1.23	11.5	Pd
	GPY12AAb	12.1	3/8	LBP	S	220-240V 50Hz ~1	RSCR	P	C	128	178	241	1.04	500	280	1.33	11.5	Pd
	GPY12LAa	12.1	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	113	162	225	1.0	509	265	1.3	12.1	Pd
	GPY12LAb	12.1	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	113	162	225	1.06	509	265	1.38	12.1	Pd
	GP12AB	12.05	1/3	LBP	S	220-240V 50Hz ~1	RSIR	R	C	83	132	190	0.88	424	225	1.14	11.5	Pc
	GP12BB	12.05	1/3	LBP	OC	220-240V 50Hz ~1	RSIR	R	C	83	132	190	0.88	424	225	1.14	11.5	Pc
	GP12CB	12.05	1/3	LBP	F	220-240V 50Hz ~1	RSIR	R	C	83	132	190	0.88	424	225	1.14	11.5	Pc
	GP12FB	12.05	1/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	83	132	190	0.88	424	225	1.14	11.5	Pc
	GP14BB	14.17	3/8	LBP	OC	220-240V 50Hz ~1	RSIR	R	C	99	158	228	0.9	509	270	1.16	11.5	Pc
	GP14CB	14.17	3/8	LBP	F	220-240V 50Hz ~1	RSIR	R	C	99	158	228	0.9	509	270	1.16	11.5	Pc
	GP14FB	14.17	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	99	158	228	0.9	509	270	1.16	11.5	Pc
	GP14EB	14.17	3/8	LBP	OC	220-240V 50Hz ~1	CSIR	R	C-V	99	158	228	0.9	509	270	1.16	11.5	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	11.5	Pc
	GP16BB	16.15	3/8	LBP	OC	220-240V 50Hz ~1	RSIR	R	C	109	182	266	0.89	585	315	1.14	12	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	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	Pd
	GX18FB	18.4	3/7	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	123	199	291	0.91	660	345	1.18	15.1	Xc
	GX21FB	20.72	2/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	151	243	351	0.93	778	415	1.2	15.7	Xc

R134a

2. Compressors Catalogue

R134a LBP 50 Hz

R134a compressors compatible with R12

GREEN COOLING RANGES

MODEL	DISPLACEMENT cm³	POWER hp	APPLICATION	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			-23,3			
									-35	-30	W	COP	-10	kcal/h	COP		
GLY35AAa	3.68	1/10	LBP	S	220-240V 50Hz ~1	RSIR	P	C	33	47	**66**	**0.94**	151	**78**	**1.23**	9.0	Lb
GLY35AAb	3.68	1/10	LBP	S	220-240V 50Hz ~1	RSCR	P	C	32	47	**67**	**0.99**	153	**79**	**1.29**	9.0	Lb
GLY40AAa	4.02	1/9	LBP	S	220-240V 50Hz ~1	RSIR	P	C	35	53	**75**	**0.96**	169	**89**	**1.25**	9.1	Lb
GLY40AAb	4.02	1/9	LBP	S	220-240V 50Hz ~1	RSCR	P	C	36	54	**76**	**1.00**	171	**90**	**1.31**	9.1	Lb
GLY45AAa	4.56	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	47	65	**89**	**1.01**	192	**104**	**1.3**	9.2	Lb
GLY45AAb	4.56	1/8	LBP	S	220-240V 50Hz ~1	RSCR	P	C	48	66	**90**	**1.05**	193	**105**	**1.36**	9.2	Lb
GLY55AAa	5.46	1/7	LBP	S	220-240V 50Hz ~1	RSIR	P	C	53	78	**108**	**1.03**	238	**127**	**1.33**	9.2	Lb
GLY55AAb	5.46	1/7	LBP	S	220-240V 50Hz ~1	RSCR	P	C	54	78	**109**	**1.09**	239	**128**	**1.40**	9.2	Lb
GLY60AAa	5.98	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	58	85	**119**	**1.03**	255	**139**	**1.34**	9.3	Lb
GLY60AAb	5.98	1/6	LBP	S	220-240V 50Hz ~1	RSCR	P	C	58	86	**120**	**1.10**	256	**140**	**1.42**	9.3	Lb
GLY70AAa	6.65	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	70	96	**132**	**1.05**	288	**154**	**1.36**	9.8	Lb
GLY70AAb	6.65	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	71	97	**133**	**1.12**	289	**155**	**1.44**	9.8	Lb
GLY75AAa	7.38	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	74	107	**147**	**1.06**	311	**172**	**1.36**	10.0	Lc
GLY75AAb	7.38	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	76	108	**147**	**1.12**	312	**172**	**1.44**	10.0	Lc
GLY80AAa	8.10	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	92	123	**164**	**1.07**	349	**191**	**1.37**	10.0	Lc
GLY80AAb	8.10	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	93	124	**165**	**1.13**	351	**192**	**1.45**	10.0	Lc
GLY90AAa	9.09	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	104	140	**186**	**1.07**	387	**216**	**1.37**	10.4	Ld
GLY90AAb	9.09	1/4	LBP	S	220-240V 50Hz ~1	RSCR	P	C	103	140	**187**	**1.13**	388	**217**	**1.45**	10.4	Ld
GPM10AA	10.18	1/4	LBP	S	220-240V 50Hz ~1	RSIR	R	C	95	136	**188**	**0.94**	405	**220**	**1.22**	11.5	Pc
GPM12BA	12.10	3/8	LBP	OC	220-240V 50Hz ~1	RSIR	R	C	128	178	**241**	**0.94**	500	**280**	**1.21**	11.5	Pc
GPM12CA	12.10	3/8	LBP	F	220-240V 50Hz ~1	RSIR	R	C	128	178	**241**	**0.94**	500	**280**	**1.21**	11.5	Pc
GPY12AAa	12.10	3/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	128	178	**241**	**0.96**	500	**280**	**1.23**	11.5	Pd
GPY12AAb	12.10	3/8	LBP	S	220-240V 50Hz ~1	RSCR	P	C	128	178	**241**	**1.04**	500	**280**	**1.33**	11.5	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**	12.1	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**	12.1	Pd

R134a LBP 60 Hz

R134a compressors compatible with R12

GREEN COOLING RANGES

MODEL	DISPLACEMENT cm³	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FRECUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY | °C COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C							WEIGHT Kg	DESIGN
									Cecomaf (W)					Ashrae			
											-25			-23,3			
									-35	-30	W	COP	-10	kcal/h	COP		
GLY40ADa	4.02	1/9	LBP	S	115V 60Hz ~1	RSIR	P	C	46	65	**91**	**0.97**	208	107	1.26	9.0	Lb
GLY40ADb	4.02	1/9	LBP	S	115V 60Hz ~1	RSCR	P	C	46	65	**91**	**1.02**	208	107	1.32	9.0	Lb
GLY50ADa	5.12	1/7	LBP	S	115V 60Hz ~1	RSIR	P	C	56	83	**117**	**1.02**	259	138	1.33	9.5	Lc
GLY50ADb	5.12	1/7	LBP	S	115V 60Hz ~1	RSCR	P	C	56	83	**117**	**1.06**	259	138	1.38	9.5	Lc

Green Cooling Models

R134a: W (A) x 1.05 = kcal/h (B)

R134a: W (C) x 0.94 = kcal/h (D)

W x 0.86 = kcal /h

R134a HMBP | HBP 50 Hz

R134a compressors compatible with R12

GREEN COOLING RANGES

	MODEL	DISPLACEMENT cm³	POWER hp	APPLICATION	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			
												5			7,2			
										-25	-15	W	COP	10	kcal/h	COP		
	GLY60RAa	5.98	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	106	191	**486**	**2.06**	586	**500**	**2.36**	9.9	Lc
	GLY60RAb	5.98	1/5	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	106	191	**486**	**2.25**	586	**500**	**2.6**	9.9	Lc
	GLY80RAa	8.10	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	159	275	**681**	**2.17**	819	**700**	**2.5**	10.4	Lc
	GLY80RAb	8.10	1/5	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	159	275	**681**	**2.35**	819	**700**	**2.71**	10.4	Lc
	GLY90RAa	9.09	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	169	298	**748**	**2.06**	901	**770**	**2.37**	11.3	Lc
	GLY90RAb	9.09	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	169	298	**748**	**2.27**	901	**770**	**2.61**	11.3	Lc
	GPY12RAa	12.10	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	228	401	**993**	**2.05**	1192	**1020**	**2.35**	12.6	Pd
	GPY12RAb	12.10	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	228	401	**993**	**2.24**	1192	**1020**	**2.58**	12.6	Pd
	GPY14RAa	14.32	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	296	492	**1161**	**1.98**	1386	**1190**	**2.27**	12.6	Pd
	GPY14RAb	14.32	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	296	492	**1161**	**2.18**	1386	**1190**	**2.5**	12.6	Pd
	GPY16RAa	16.15	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	287	512	**1248**	**2.20**	1490	**1351**	**2.31**	12.8	Pd
	GPY16RAb	16.15	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	287	512	**1248**	**2.20**	1490	**1351**	**2.50**	12.8	Pd

R134a HMBP | HBP 60 Hz

R134a compressors compatible with R12

GREEN COOLING RANGES

	MODEL	DISPLACEMENT cm³	POWER hp	APPLICATION	CPR COOLING	VOLTAGE FRECUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY | °C COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C							WEIGHT Kg	DESIGN
										Cecomaf (W)					Ashrae			
												5			7,2			
										-25	-15	W	COP	10	kcal/h	COP		
	GLY80RDa	8.10	1/5	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	169	299	**776**	**2.03**	939	**800**	**2.34**	10.3	Lc
	GLY80RDb	8.10	1/5	HMBP	F	115V 60Hz ~1	CSR	R	C-V	169	299	**776**	**2.18**	939	**800**	**2.51**	10.5	Lc
	GLY90RDa	9.09	1/4	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	198	348	**875**	**1.96**	1053	**900**	**2.25**	10.6	Lc
	GLY90RDb	9.09	1/4	HMBP	F	115V 60Hz ~1	CSR	R	C-V	198	348	**875**	**2.11**	1053	**900**	**2.42**	10.6	Lc
	GPY12RDa	12.10	3/8	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	281	480	**1151**	**1.96**	1375	**1180**	**2.25**	12.3	Pd
	GPY12RDb	12.10	3/8	HMBP	F	115V 60Hz ~1	CSR	R	C-V	281	480	**1151**	**2.12**	1375	**1180**	**2.44**	12.3	Pd
	GPY14RDa	14.32	1/2	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	318	516	**1411**	**1.91**	1739	**1467**	**2.22**	12.8	Pd
	GPY14RDb	14.32	1/2	HMBP	F	115V 60Hz ~1	CSR	R	C-V	318	516	**1411**	**2.04**	1739	**1467**	**2.36**	12.8	Pd
	GPY16RDa	16.15	1/2	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	349	614	**1519**	**1.89**	1822	**1560**	**2.17**	12.8	Pd
	GPY16RDb	16.15	1/2	HMBP	F	115V 60Hz ~1	CSR	R	C-V	349	614	**1519**	**2.01**	1822	**1560**	**2.31**	12.8	Pd

Green Cooling Models

R134a: W (A) x 1.05 = kcal/h (B)

R134a: W (C) x 0.94 = kcal/h (D)

W x 0.86 = kcal /h

	MODEL	DISPLACEMENT	POWER	APPLICATION	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			-23,3			
		cm^3	hp							-35	-30	W	COP	-10	kcal/h	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**	5.3	Db
	GD30AA	3.08	1/12	LBP	S	220-240V 50Hz ~1	RSIR	P	C	23	36	**52**	**0.74**	117	**62**	**0.96**	5.8	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**	5.8	Dj
	GD36AA	3.62	1/12	LBP	S	220-240V 50Hz ~1	RSIR	P	C	28	43	**61**	**0.76**	136	**72**	**0.99**	5.9	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**	5.9	Dj
	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**	5.9	Ds
	GD40AA	4.06	1/10	LBP	S	220-240V 50Hz ~1	RSIR	P	C	34	50	**70**	**0.77**	155	**82**	**1.00**	6.7	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**	6.8	Dd
	GLY35AAa	3.68	1/10	LBP	S	220-240V 50Hz ~1	RSIR	P	C	33	47	**66**	**0.94**	151	**78**	**1.23**	9.0	Lb
	GLY35AAb	3.68	1/10	LBP	S	220-240V 50Hz ~1	RSCR	P	C	32	47	**67**	**0.99**	153	**79**	**1.29**	9.0	Lb
	GLY40AAa	4.02	1/9	LBP	S	220-240V 50Hz ~1	RSIR	P	C	35	53	**75**	**0.96**	169	**89**	**1.25**	9.1	Lb
	GLY40AAb	4.02	1/9	LBP	S	220-240V 50Hz ~1	RSCR	P	C	36	54	**76**	**1.00**	171	**90**	**1.31**	9.1	Lb
	GLY45AAa	4.56	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	47	65	**89**	**1.01**	192	**104**	**1.30**	9.2	Lb
	GLY45AAb	4.56	1/8	LBP	S	220-240V 50Hz ~1	RSCR	P	C	48	66	**90**	**1.05**	193	**105**	**1.36**	9.2	Lb
	GL45AAa	4.56	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	37	57	**81**	**0.81**	184	**96**	**1.06**	8.3	Lb
	GL45AAb	4.56	1/8	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	37	57	**81**	**0.81**	184	**96**	**1.06**	8.3	Lb
	GL45AF	4.56	1/8	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	36	56	**80**	**0.74**	184	**95**	**0.97**	9.0	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**	9.0	Lb
	GL50AA	5.11	1/7	LBP	S	220-240V 50Hz ~1	RSIR	P	C	42	63	**91**	**0.83**	205	**107**	**1.08**	8.9	Lb
	GLY55AAa	5.46	1/7	LBP	S	220-240V 50Hz ~1	RSIR	P	C	53	78	**108**	**1.03**	238	**127**	**1.33**	9.2	Lb
	GLY55AAb	5.46	1/7	LBP	S	220-240V 50Hz ~1	RSCR	P	C	54	78	**109**	**1.09**	239	**128**	**1.40**	9.2	Lb
	GLY60AAa	5.98	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	58	85	**119**	**1.03**	255	**139**	**1.34**	9.3	Lb
	GLY60AAb	5.98	1/6	LBP	S	220-240V 50Hz ~1	RSCR	P	C	58	86	**120**	**1.10**	256	**140**	**1.42**	9.3	Lb
	GL60AAa	5.46	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	50	75	**107**	**0.85**	239	**126**	**1.10**	9.1	Lb
	GL60AAb	5.46	1/6	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	50	75	**107**	**0.85**	239	**126**	**1.10**	9.1	Lb
	GL60AF	5.46	1/6	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	57	81	**113**	**0.82**	245	**132**	**1.07**	9.1	Lb
	GL60ANa	5.46	1/6	LBP	S	200-240/220-230V 50/60Hz ~1	RSIR	P	C	57	82	**114**	**0.83**	244	**133**	**1.09**	9.9	Lc
	GL60ANb	5.46	1/6	LBP	F	200-240/220-230V 50/60Hz ~ 1	CSIR	R	C-V	57	82	**114**	**0.83**	244	**133**	**1.09**	9.9	Lc
	GL60ANc	5.46	1/6	LBP	S	200-240/220-230V 50/60Hz ~ 1	CSIR	R	C-V	57	82	**114**	**0.83**	244	**133**	**1.09**	9.9	Lc
	GL60ANd	5.46	1/6	LBP	OC	200-240/220-230V 50/60Hz ~1	RSIR	P	C	57	82	**114**	**0.83**	244	**133**	**1.09**	10.0	Lc
	GLY70AAa	6.65	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	70	96	**132**	**1.05**	288	**154**	**1.36**	9.8	Lb
	GLY70AAb	6.65	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	71	97	**133**	**1.12**	289	**155**	**1.44**	9.8	Lb
	GL70AAa	5.98	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	58	86	**121**	**0.87**	268	**142**	**1.12**	9.6	Lc
	GL70ANa	5.98	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	70	95	**129**	**0.83**	278	**151**	**1.08**	10.1	Lc
	GL70ANb	5.98	1/5	LBP	F	200-220/220-230V 50/60Hz ~ 1	CSIR	R	C-V	70	95	**129**	**0.83**	278	**151**	**1.08**	10.1	Lc
	GL70ANc	5.98	1/5	LBP	S	200-220/220-230V 50/60Hz ~ 1	CSIR	R	C-V	70	95	**129**	**0.83**	278	**151**	**1.08**	10.1	Lc
	GL70ANd	5.98	1/5	LBP	OC	200-220/220-230V 50/60Hz ~1	RSIR	P	C	70	96	**129**	**0.83**	278	**151**	**1.08**	10.4	Ld
	GLY75AAa	7.38	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	74	107	**147**	**1.06**	311	**172**	**1.36**	10.0	Lc
	GLY75AAb	7.38	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	76	108	**147**	**1.12**	312	**172**	**1.44**	10.0	Lc
	GL75AA	6.65	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	68	95	**132**	**0.91**	296	**155**	**1.18**	9.9	Lc
	GLY80AAa	8.10	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	92	123	**164**	**1.07**	349	**191**	**1.37**	10.0	Lc
	GLY80AAb	8.10	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	93	124	**165**	**1.13**	351	**192**	**1.45**	10.0	Lc
	GL80AAa	7.38	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	68	102	**144**	**0.89**	326	**170**	**1.15**	9.9	Lc

This table continues in the following page

High Efficiency Models

R134a: W (A) x 1.05 = kcal/h (B)

R134a: W (C) x 0.94 = kcal/h (D)

W x 0.86 = kcal /h

	MODEL	DISPLACEMENT	POWER	APPLICATION	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			-23,3			
		cm³	hp							-35	-30	W	COP	-10	kcal/h	COP	Kg	
	GL80AAb	7.38	1/5	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	68	102	**144**	**0.89**	326	**170**	**1.15**	9.9	Lc
	GL80AF	7.38	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	75	107	**148**	**0.83**	331	**174**	**1.09**	10.5	Ld
	GL80ANa	7.38	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	75	107	**148**	**0.83**	331	**174**	**1.09**	10.6	Ld
	GL80ANb	7.38	1/5	LBP	F	200-220/220-230V 50/60Hz ~ 1	CSIR	R	C-V	75	107	**148**	**0.83**	331	**174**	**1.09**	10.6	Ld
	GL80ANc	7.38	1/5	LBP	S	200-220/220-230V 50/60Hz ~ 1	CSIR	R	C-V	75	107	**148**	**0.83**	331	**174**	**1.09**	10.6	Ld
	GL80ANd	7.38	1/5	LBP	OC	200-220/220-230V 50/60Hz ~1	RSIR	P	C	76	107	**148**	**0.83**	331	**174**	**1.09**	10.7	Ld
	GLY90AAa	9.09	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	104	140	**186**	**1.07**	387	**216**	**1.37**	10.4	Ld
	GLY90AAb	9.09	1/4	LBP	S	220-240V 50Hz ~1	RSCR	P	C	103	140	**187**	**1.13**	388	**217**	**1.45**	10.4	Ld
	GL90AAa	8.10	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	82	119	**165**	**0.90**	351	**193**	**1.15**	10.2	Lc
	GL90AAb	8.10	1/4	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	82	119	**165**	**0.90**	351	**193**	**1.15**	10.2	Lc
	GL90AF	8.10	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	85	118	**163**	**0.84**	366	**191**	**1.10**	10.8	Ld
	GL90ANa	8.10	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	85	118	**163**	**0.84**	366	**191**	**1.10**	10.8	Ld
	GL90ANb	8.10	1/4	LBP	F	200-220/220-230V 50/60Hz ~ 1	CSIR	R	C-V	85	118	**163**	**0.84**	366	**191**	**1.10**	10.8	Ld
	GL90ANc	8.10	1/4	LBP	S	200-220/220-230V 50/60Hz ~ 1	CSIR	R	C-V	85	118	**163**	**0.84**	366	**191**	**1.10**	10.8	Ld
	GL90ANd	8.10	1/4	LBP	OC	200-220/220-230V 50/60Hz ~1	RSIR	P	C	85	118	**163**	**0.84**	366	**191**	**1.10**	10.9	Ld
	GL99AAa	9.09	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	83	125	**175**	**0.92**	377	**205**	**1.19**	11.0	Ld
	GL99AAb	9.09	1/4	LBP	S	220-240V 50Hz ~1	CSIR	R	C-V	83	125	**175**	**0.92**	377	**205**	**1.19**	11.0	Ld
	GL99AL	9.09	1/4	LBP	S	200-220/230V 50/60Hz ~1	RSCR	P	C	91	130	**180**	**0.94**	382	**210**	**1.22**	11.3	Ld
	GPM12BA	12.10	3/8	LBP	OC	220-240V 50Hz ~1	RSIR	R	C	128	178	**241**	**0.94**	500	**280**	**1.21**	11.5	Pc
	GPM12CA	12.10	3/8	LBP	F	220-240V 50Hz ~1	RSIR	R	C	128	178	**241**	**0.94**	500	**280**	**1.21**	11.5	Pc
	GPY12AAa	12.10	3/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	128	178	**241**	**0.96**	500	**280**	**1.23**	11.5	Pd
	GPY12AAb	12.10	3/8	LBP	S	220-240V 50Hz ~1	RSCR	P	C	128	178	**241**	**1.04**	500	**280**	**1.33**	11.5	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**	12.1	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**	12.1	Pd
	GP12AB	12.05	1/3	LBP	S	220-240V 50Hz ~1	RSIR	R	C	83	132	**190**	**0.88**	424	**225**	**1.14**	11.5	Pc
	GP12BB	12.05	1/3	LBP	OC	220-240V 50Hz ~1	RSIR	R	C	83	132	**190**	**0.88**	424	**225**	**1.14**	11.5	Pc
	GP12CB	12.05	1/3	LBP	F	220-240V 50Hz ~1	RSIR	R	C	83	132	**190**	**0.88**	424	**225**	**1.14**	11.5	Pc
	GP12FB	12.05	1/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	83	132	**190**	**0.88**	424	**225**	**1.14**	11.5	Pc
	GP14BB	14.17	3/8	LBP	OC	220-240V 50Hz ~1	RSIR	R	C	99	158	**228**	**0.90**	509	**270**	**1.16**	11.5	Pc
	GP14CB	14.17	3/8	LBP	F	220-240V 50Hz ~1	RSIR	R	C	99	158	**228**	**0.90**	509	**270**	**1.16**	11.5	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**	11.5	Pc
	GP14EB	14.17	3/8	LBP	OC	220-240V 50Hz ~1	CSIR	R	C-V	99	158	**228**	**0.90**	509	**270**	**1.16**	11.5	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**	11.5	Pc
	GP16BB	16.15	3/8	LBP	OC	220-240V 50Hz ~1	RSIR	R	C	109	182	**266**	**0.89**	585	**315**	**1.14**	12.0	Pd
	GP16CB	16.15	3/8	LBP	F	220-240V 50Hz ~1	RSIR	R	C	109	182	**266**	**0.89**	585	**315**	**1.14**	12.0	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**	12.0	Pd
	GX18FB	18.40	3/7	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	123	199	**291**	**0.91**	660	**345**	**1.18**	15.1	Xc
	GX21FB	20.72	2/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	151	243	**351**	**0.93**	778	**415**	**1.20**	15.7	Xc

High Efficiency Models

R134a: W (A) x 1.05 = kcal/h (B)

R134a: W (C) x 0.94 = kcal/h (D)

W x 0.86 = kcal /h

	MODEL	DISPLACEMENT	POWER	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY							WEIGHT	DESIGN
										COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C								
										Cecomaf (W)					Ashrae			
												-25			-23,3			
		cm³	hp							-35	-30	W	COP	-10	kcal/h	COP	Kg	
	GD24ADa	2.44	1/20	LBP	S	115V 60Hz ~1	RSIR	P	C	14	26	**40**	**0.52**	100	**48**	**0.70**	5.1	Db
	GD24ADb	2.44	1/20	LBP	S	115V 60Hz ~1	CSIR	R	C-V	14	26	**40**	**0.52**	100	**48**	**0.70**	5.1	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**	5.8	Dj
	GD36AD	3.62	1/12	LBP	S	115V 60Hz ~1	RSIR	P	C	30	47	**68**	**0.65**	150	**80**	**0.85**	6.1	Dj
	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**	5.9	Dj
	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**	5.9	Ds
	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**	6.8	Dd
	GLY40ADa	4.02	1/9	LBP	S	115V 60Hz ~1	RSIR	P	C	46	65	**91**	**0.97**	208	**107**	**1.26**	9.0	Lb
	GLY40ADb	4.02	1/9	LBP	S	115V 60Hz ~1	RSCR	P	C	46	65	**91**	**1.02**	208	**107**	**1.32**	9.0	Lb
	GL45ADa	4.56	1/8	LBP	S	115V 60Hz ~1	RSIR	P	C	41	65	**95**	**0.80**	215	**112**	**1.05**	8.1	Lb
	GL45ADb	4.56	1/8	LBP	S	115V 60Hz ~1	CSIR	R	C-V	41	65	**95**	**0.80**	215	**112**	**1.05**	8.1	Lb
	GL45AF	4.56	1/8	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	42	65	**94**	**0.76**	215	**111**	**0.99**	9.0	Lb
	GL45ANa	4.56	1/8	LBP	S	200-240/220-230V 50/60Hz ~1	RSIR	P	C	44	65	**93**	**0.83**	213	**110**	**1.09**	9.0	Lb
	GLY50ADa	5.12	1/7	LBP	S	115V 60Hz ~1	RSIR	P	C	56	83	**117**	**1.02**	259	**138**	**1.33**	9.5	Lc
	GLY50ADb	5.12	1/7	LBP	S	115V 60Hz ~1	RSCR	P	C	56	83	**117**	**1.06**	259	**138**	**1.38**	9.5	Lc
	GL60ADa	5.46	1/6	LBP	S	115V 60Hz ~1	RSIR	P	C	65	95	**132**	**0.85**	290	**155**	**1.10**	9.1	Lb
	GL60ADb	5.46	1/6	LBP	S	115V 60Hz ~1	CSIR	R	C-V	65	95	**132**	**0.85**	290	**155**	**1.10**	9.1	Lb
	GL60AF	5.46	1/6	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	66	95	**131**	**0.81**	287	**154**	**1.05**	9.1	Lb
	GL60ANa	5.46	1/6	LBP	S	200-240/220-230V 50/60Hz ~1	RSIR	P	C	68	95	**131**	**0.88**	285	**153**	**1.15**	9.9	Lc
	GL60ANb	5.46	1/6	LBP	F	200-240/220-230V 50/60Hz ~ 1	CSIR	R	C-V	68	95	**131**	**0.88**	285	**153**	**1.15**	9.9	Lc
	GL60ANc	5.46	1/6	LBP	S	200-240/220-230V 50/60Hz ~ 1	CSIR	R	C-V	68	95	**131**	**0.88**	285	**153**	**1.15**	9.9	Lc
	GL60ANd	5.46	1/6	LBP	OC	200-240/220-230V 50/60Hz ~1	RSIR	P	C	68	95	**131**	**0.88**	285	**153**	**1.15**	10.0	Lc
	GL60BK	5.46	1/6	LBP	OC	115V 60Hz ~1	RSCR	P	C	66	95	**132**	**0.84**	290	**155**	**1.10**	10.0	Lc
	GL70ADa	5.98	1/5	LBP	S	115V 60Hz ~1	RSIR	P	C	79	109	**148**	**0.86**	322	**173**	**1.12**	9.6	Lc
	GL70ADb	5.98	1/5	LBP	S	115V 60Hz ~1	CSIR	R	C-V	79	109	**148**	**0.86**	322	**173**	**1.12**	9.6	Lb
	GL70ANa	5.98	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	81	111	**150**	**0.90**	323	**175**	**1.17**	10.1	Lc
	GL70ANb	5.98	1/5	LBP	F	200-220/220-230V 50/60Hz ~ 1	CSIR	R	C-V	81	111	**150**	**0.90**	323	**175**	**1.17**	10.1	Lc
	GL70ANc	5.98	1/5	LBP	S	200-220/220-230V 50/60Hz ~ 1	CSIR	R	C-V	81	111	**150**	**0.90**	323	**175**	**1.17**	10.1	Lc
	GL70ANd	5.98	1/5	LBP	OC	200-220/220-230V 50/60Hz ~1	RSIR	P	C	80	110	**150**	**0.90**	323	**175**	**1.17**	10.4	Ld
	GL80ADa	7.38	1/5	LBP	S	115V 60Hz ~1	RSIR	P	C	84	122	**171**	**0.87**	384	**201**	**1.13**	9.8	Lc
	GL80ADb	7.38	1/5	LBP	S	115V 60Hz ~1	CSIR	R	C-V	84	122	**171**	**0.87**	384	**201**	**1.13**	9.8	Lc
	GL80AF	7.38	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	87	124	**172**	**0.92**	385	**202**	**1.19**	10.5	Ld
	GL80ANa	7.38	1/5	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	87	124	**172**	**0.92**	385	**202**	**1.19**	10.6	Ld
	GL80ANb	7.38	1/5	LBP	F	200-220/220-230V 50/60Hz ~ 1	CSIR	R	C-V	87	124	**172**	**0.92**	385	**202**	**1.19**	10.6	Ld
	GL80ANc	7.38	1/5	LBP	S	200-220/220-230V 50/60Hz ~ 1	CSIR	R	C-V	87	124	**172**	**0.92**	385	**202**	**1.19**	10.6	Ld
	GL80ANd	7.38	1/5	LBP	OC	200-220/220-230V 50/60Hz ~1	RSIR	P	C	87	124	**172**	**0.92**	385	**202**	**1.19**	10.7	Ld
	GL80BK	7.38	1/5	LBP	OC	115V 60Hz ~1	RSCR	P	C	79	119	**169**	**0.85**	382	**200**	**1.11**	11.1	Ld
	GL90ADa	8.10	1/4	LBP	S	115V 60Hz ~1	RSIR	P	C	97	138	**191**	**0.88**	421	**224**	**1.14**	10.5	Ld
	GL90ADb	8.10	1/4	LBP	S	115V 60Hz ~1	CSIR	R	C-V	97	138	**191**	**0.88**	421	**224**	**1.14**	10.5	Ld
	GL90AF	8.10	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	97	134	**185**	**0.93**	421	**218**	**1.20**	10.8	Ld
	GL90ANa	8.10	1/4	LBP	S	200-220/220-230V 50/60Hz ~1	RSIR	P	C	97	134	**185**	**0.93**	421	**218**	**1.20**	10.8	Ld
	GL90ANb	8.10	1/4	LBP	F	200-220/220-230V 50/60Hz ~ 1	CSIR	R	C-V	97	134	**185**	**0.93**	421	**218**	**1.20**	10.8	Ld
	GL90ANc	8.10	1/4	LBP	S	200-220/220-230V 50/60Hz ~ 1	CSIR	R	C-V	97	134	**185**	**0.93**	421	**218**	**1.20**	10.8	Ld
	GL90ANd	8.10	1/4	LBP	OC	200-220/220-230V 50/60Hz ~1	RSIR	P	C	96	134	**185**	**0.93**	421	**218**	**1.20**	10.9	Ld

This table continues in the following page

High Efficiency Models

R134a: W (A) x 1.05 = kcal/h (B)

R134a: W (C) x 0.94 = kcal/h (D)

W x 0.86 = kcal /h

R134a LBP 60 Hz

R134a compressors compatible with R12

MODEL	DISPLACEMENT	POWER	APPLICATION	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			-23,3			
	cm³	hp							-35	-30	W	COP	-10	kcal/h	COP	Kg	
GL90BK	8.10	1/4	LBP	OC	115V 60Hz ~1	RSCR	P	C	96	140	**193**	**0.90**	410	**226**	**1.17**	11.1	Ld
GL99AD	9.09	1/4	LBP	OC	115V 60Hz ~1	RSIR	P	C	102	148	**204**	**0.93**	435	**239**	**1.21**	10.9	Ld
GL99ADb	9.09	1/4	LBP	S	115V 60Hz ~1	CSIR	R	C-V	102	148	**205**	**0.89**	439	**240**	**1.15**	10.8	Ld
GL99AL	9.09	1/4	LBP	S	200-220/230V 50/60Hz ~1	RSCR	P	C	103	148	**204**	**0.93**	435	**239**	**1.21**	11.3	Ld
GL99BL	9.09	1/4	LBP	OC	200-220/220-230V 50/60Hz ~1	RSCR	P	C	102	148	**204**	**0.93**	435	**239**	**1.21**	11.3	Ld
GP14FE	14.17	3/8	LBP	F	115V 60Hz ~1	CSIR	R	C-V	116	185	**267**	**0.72**	596	**316**	**0.94**	12.9	Pd
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**	11.5	Pc
GP16FE	16.15	3/8	LBP	F	115V 60Hz ~1	CSIR	R	C-V	125	209	**306**	**0.77**	672	**362**	**1.00**	12.9	Pd

R134a HMBP | HBP 50 Hz

R134a compressors compatible with R12

MODEL	DISPLACEMENT	POWER	APPLICATION	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			
											5			7,2			
	cm³	hp							-25	-15	W	COP	10	kcal/h	COP	Kg	
GD24MBc	2.44	1/14	HBP	S	220-240V 50Hz ~1	CSIR	R	C-V		64	**174**	**1.43**	212	**180**	**1.67**	5.1	Db
GD30MBa	3.08	1/10	HMBP	S	220-240V 50Hz ~1	RSIR	P	C	49	88	**233**	**1.52**	282	**240**	**1.74**	5.8	Dc
GD30MBb	3.08	1/10	HMBP	F	220-240V 50Hz ~1	RSIR	P	C	49	88	**233**	**1.52**	282	**240**	**1.74**	5.8	Dc
GD30MBc	3.08	1/10	HMBP	S	220-240V 50Hz ~1	CSIR	R	C-V	49	88	**233**	**1.52**	282	**240**	**1.74**	5.8	Dv
GD30MBd	3.08	1/10	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	49	88	**233**	**1.52**	282	**240**	**1.74**	5.8	Dv
GD36MBa	3.62	1/10	HMBP	S	220-240V 50Hz ~1	RSIR	P	C	53	96	**261**	**1.52**	318	**270**	**1.74**	6.7	Dd
GD36MBb	3.62	1/10	HMBP	F	220-240V 50Hz ~1	RSIR	P	C	53	96	**261**	**1.52**	318	**270**	**1.74**	6.7	Dd
GD36MBc	3.62	1/10	HMBP	S	220-240V 50Hz ~1	CSIR	R	C-V	53	96	**261**	**1.52**	318	**270**	**1.74**	6.7	Dd
GD36MBd	3.62	1/10	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	53	96	**261**	**1.52**	318	**270**	**1.74**	6.7	Dd
GD40MBa	4.06	1/8	HMBP	S	220-240V 50Hz ~1	RSIR	P	C	64	117	**301**	**1.56**	363	**310**	**1.80**	6.7	Dd
GD40MBb	4.06	1/8	HMBP	F	220-240V 50Hz ~1	RSIR	P	C	64	117	**301**	**1.56**	363	**310**	**1.80**	6.7	Dd
GD40MBc	4.06	1/8	HMBP	S	220-240V 50Hz ~1	CSIR	R	C-V	64	117	**301**	**1.56**	363	**310**	**1.80**	6.7	Dd
GD40MBd	4.06	1/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	64	117	**301**	**1.56**	363	**310**	**1.80**	6.7	Dd
GL35TG	3.68	1/9	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	57	107	**272**	**1.68**	328	**280**	**1.95**	8.4	Lb
GL35MG	3.68	1/9	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V		103	**250**	**1.35**	308	**260**	**1.59**	8.4	Lb
GL40TG	4.05	1/8	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	64	119	**302**	**1.75**	362	**310**	**2.03**	8.4	Lb
GL40MG	4.05	1/8	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V		110	**292**	**1.47**	364	**305**	**1.73**	8.4	Lb
GL45PB	4.50	1/6	HMBP	F	220-240V 50Hz ~1	RSIR	R	C	76	134	**342**	**1.62**	413	**352**	**1.86**	8.4	Lb
GL45TB	4.50	1/6	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	76	134	**342**	**1.62**	413	**352**	**1.86**	8.4	Lb
GL45TG	4.50	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	76	134	**342**	**1.68**	413	**352**	**1.95**	8.8	Lb
GL45MG	4.50	1/6	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V		133	**342**	**1.69**	412	**352**	**1.95**	8.8	Lb
GLY60RAa	5.98	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	106	191	**486**	**2.06**	586	**500**	**2.36**	9.9	Lc
GLY60RAb	5.98	1/5	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	106	191	**486**	**2.25**	586	**500**	**2.60**	9.9	Lc
GL60PB	5.68	1/5	HMBP	F	220-240V 50Hz ~1	RSIR	R	C	95	170	**437**	**1.82**	528	**450**	**2.09**	9.5	Lc
GL60TB	5.68	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	95	170	**437**	**1.82**	528	**450**	**2.09**	9.5	Lb
GL60TG	5.68	1/5	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	95	170	**437**	**1.82**	528	**450**	**2.09**	9.9	Lc

This table continues in the following page

High Efficiency Models

R134a: W (A) x 1.05 = kcal/h (B)

R134a: W (C) x 0.94 = kcal/h (D)

W x 0.86 = kcal /h

	MODEL	DISPLACEMENT cm³	POWER hp	APPLICATION	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			
												5			7,2			
										-25	-15	W	COP	10	kcal/h	COP	Kg	
	GL60MG	5.68	1/5	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V		155	429	1.71	526	445	1.99	9.9	Lb
	GL60RG	5.68	1/5	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	95	170	437	2.03	528	450	2.33	9.9	Lc
	GL60TC	5.68	1/5	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	95	170	437	1.73	528	450	2.01	9.8	Lc
	GLY80RAa	8.10	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	159	275	681	2.17	819	700	2.50	10.4	Lc
	GLY80RAb	8.10	1/5	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	159	275	681	2.35	819	700	2.71	10.4	Lc
	GL80TB	7.57	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	111	212	554	1.83	668	570	2.10	9.5	Lc
	GL80PB	7.57	1/5	HMBP	F	220-240V 50Hz ~1	RSIR	R	C	111	212	554	1.83	668	570	2.10	9.5	Lc
	GL80TG	7.57	1/5	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	111	212	554	1.83	668	570	2.10	10.1	Lc
	GL80MG	7.57	1/5	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V		220	579	1.80	709	600	2.11	10.1	Lb
	GL80TC	7.57	1/5	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	111	212	554	1.87	668	570	2.21	10.4	Lc
	GLY90RAa	9.09	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	169	298	748	2.06	901	770	2.37	11.3	Lc
	GLY90RAb	9.09	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	169	298	748	2.27	901	770	2.61	11.3	Lc
	GL90PB	8.85	1/4	HMBP	F	220-240V 50Hz ~1	RSIR	R	C	143	259	661	1.91	796	680	2.20	10.8	Ld
	GL90TB	8.85	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	143	259	661	1.91	796	680	2.20	10.8	Lc
	GL90TG	8.85	1/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	143	259	661	1.81	796	680	2.08	10.8	Ld
	GL90MG	8.85	1/4	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V		242	665	1.81	803	685	2.10	10.0	Ld
	GL90RG	8.85	1/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	143	259	661	2.02	796	680	2.33	10.9	Ld
	GL90TC	8.85	1/4	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	143	259	661	1.76	796	680	2.08	10.9	Ld
	GPY12RAa	12.10	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	228	401	993	2.05	1192	1020	2.35	12.6	Pd
	GPY12RAb	12.10	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	228	401	993	2.24	1192	1020	2.58	12.6	Pd
	GP12PB	12.05	3/8	HMBP	F	220-240V 50Hz ~1	RSIR	R	C	169	338	893	1.80	1077	920	2.06	11.2	Pc
	GP12TB	12.05	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	169	338	893	1.80	1077	920	2.06	11.2	Pc
	GP12TG	12.05	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	169	338	893	1.77	1077	920	2.02	11.2	Pc
	GP12RG	12.05	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	169	338	893	2.06	1077	920	2.35	11.2	Pc
	GPY14RAa	14.32	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	296	492	1161	1.98	1386	1190	2.27	12.6	Pd
	GPY14RAb	14.32	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	296	492	1161	2.18	1386	1190	2.50	12.6	Pd
	GP14PB	14.17	3/8	HMBP	F	220-240V 50Hz ~1	RSIR	R	C	191	373	999	1.77	1209	1030	2.03	11.5	Pd
	GP14TB	14.17	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	191	373	999	1.77	1209	1030	2.03	11.5	Pd
	GP14TG	14.17	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	191	373	999	1.77	1209	1030	2.03	12.9	Pd
	GPY16RAa	16.15	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	287	512	1248	2.20	1490	1351	2.31	12.8	Pd
	GPY16RAb	16.15	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	287	512	1248	2.20	1490	1351	2.50	12.8	Pd
	GP16TB	16.15	3/8	HBP	F	220-240V 50Hz ~1	CSIR	R	C-V		476	1205	1.81	1452	1240	2.09	13.1	Pd
	GP16TG	16.15	3/8	HBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V		476	1205	1.82	1452	1240	2.09	12.9	Pd
	GX18TB	18.40	1/2	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	286	539	1390	1.91	1674	1430	2.20	16.0	Xc
	GX18TG	18.40	1/2	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	286	539	1390	1.91	1674	1430	2.20	16.1	Xc
	GX21TB	20.72	5/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	323	603	1550	1.90	1867	1595	2.18	17.0	Xd
	GX23TB	23.20	5/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	368	678	1730	1.89	2083	1780	2.18	17.0	Xd
	GX23TG	23.20	5/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	368	678	1730	1.80	2083	1780	2.08	17.0	Xd
	GS26TB	25.93	3/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	265	703	2071	2.09	2515	2140	2.42	22.7	Sc
	GS26TG	25.93	3/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	265	703	2071	2.15	2515	2140	2.49	20.6	Sc
	GS26T3	25.93	3/4	HMBP	F	400/440V 50/60Hz ~3	3PHASE	R	C-V	265	703	2071	2.21	2515	2140	2.55	22.7	Sc
	GS30TB	29.95	7/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	318	786	2452	2.33	3020	2550	2.70	22.7	Sd
	GS30TG	29.95	7/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	318	786	2452	2.33	3020	2550	2.70	23.0	Sd
	GS34TB	34.42	1	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	476	1068	2852	2.28	3422	2931	2.62	22.7	Sd
	GS34TBb	34.42	1	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	476	1068	2852	2.28	3422	2931	2.62	22.7	Sd

High Efficiency Models

R134a: W (A) x 1.05 = kcal/h (B)

R134a: W (C) x 0.94 = kcal/h (D)

W x 0.86 = kcal /h

	MODEL	DISPLACEMENT	POWER	APPLICATION	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			
												5			7,2			
		cm³	hp							-25	-15	W	COP	10	kcal/h	COP	Kg	
	GD24MEa	2.44	1/14	HMBP	S	115V 60Hz ~1	RSIR	P	C	38	75	**203**	**1.41**	247	**210**	**1.63**	5.1	Db
	GD24MEc	2.44	1/14	HMBP	S	115V 60Hz ~1	CSIR	R	C-V	38	75	**203**	**1.41**	247	**210**	**1.63**	5.1	Db
	GD30MEa	3.08	1/10	HMBP	S	115V 60Hz ~1	RSIR	P	C	57	104	**272**	**1.43**	330	**281**	**1.63**	5.8	Dj
	GD30MEb	3.08	1/10	HMBP	F	115V 60Hz ~1	RSIR	P	C	57	104	**272**	**1.43**	330	**281**	**1.63**	5.8	Dj
	GD30MEc	3.08	1/10	HMBP	S	115V 60Hz ~1	CSIR	R	C-V	57	104	**272**	**1.43**	330	**281**	**1.63**	5.8	Ds
	GD30MEd	3.08	1/10	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	57	104	**272**	**1.43**	330	**281**	**1.63**	5.8	Ds
	GD36MEa	3.62	1/10	HMBP	S	115V 60Hz ~1	RSIR	P	C	61	111	**305**	**1.45**	373	**316**	**1.67**	6.7	Dd
	GD36MEb	3.62	1/10	HMBP	F	115V 60Hz ~1	RSIR	P	C	61	111	**305**	**1.45**	373	**316**	**1.67**	6.7	Dd
	GD36MEc	3.62	1/10	HMBP	S	115V 60Hz ~1	CSIR	R	C-V	61	111	**305**	**1.45**	373	**316**	**1.67**	6.7	Dd
	GD36MEd	3.62	1/10	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	61	111	**305**	**1.45**	373	**316**	**1.67**	6.7	Dd
	GD40MEa	4.06	1/8	HMBP	S	115V 60Hz ~1	RSIR	P	C	74	137	**353**	**1.47**	425	**363**	**1.69**	6.7	Dd
	GD40MEb	4.06	1/8	HMBP	F	115V 60Hz ~1	RSIR	P	C	74	137	**353**	**1.47**	425	**363**	**1.69**	6.7	Dd
	GD40MEc	4.06	1/8	HMBP	S	115V 60Hz ~1	CSIR	R	C-V	74	137	**353**	**1.47**	425	**363**	**1.69**	6.7	Dd
	GD40MEd	4.06	1/8	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	74	137	**353**	**1.47**	425	**363**	**1.69**	6.7	Dd
	GL35TG	3.68	1/9	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	67	125	**318**	**1.66**	382	**327**	**1.92**	8.4	Lb
	GL35MG	3.68	1/9	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V		120	**293**	**1.52**	362	**305**	**1.77**	8.4	Lb
	GL40TG	4.05	1/8	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	74	139	**353**	**1.73**	424	**363**	**2.00**	8.4	Lb
	GL40MG	4.05	1/8	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V		130	**342**	**1.62**	426	**357**	**1.89**	8.4	Lb
	GL45PE	4.50	1/6	HMBP	F	115V 60Hz ~1	RSIR	R	C	89	157	**400**	**1.60**	483	**412**	**1.84**	8.4	Lb
	GL45TE	4.50	1/6	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	89	157	**400**	**1.60**	483	**412**	**1.84**	8.6	Lb
	GL45TG	4.50	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	89	157	**400**	**1.66**	483	**412**	**1.92**	8.8	Lb
	GL45MG	4.50	1/6	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V		157	**400**	**1.66**	483	**412**	**1.92**	8.8	Lb
	GL60PE	5.68	1/5	HMBP	F	115V 60Hz ~1	RSIR	R	C	111	199	**511**	**1.75**	616	**526**	**2.01**	9.5	Lc
	GL60TE	5.68	1/5	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	111	199	**511**	**1.75**	616	**526**	**2.01**	9.7	Lc
	GL60TG	5.68	1/5	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	111	199	**511**	**1.77**	616	**526**	**2.04**	9.9	Lc
	GL60MG	5.68	1/5	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V		185	**501**	**1.74**	615	**520**	**2.02**	9.9	Lb
	GL60RG	5.68	1/5	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	111	199	**511**	**1.96**	616	**526**	**2.27**	9.9	Lc
	GL60TC	5.68	1/5	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	111	199	**511**	**1.75**	616	**526**	**2.01**	9.8	Lc
✓	GLY80RDa	8.10	1/5	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	169	299	**776**	**2.03**	939	**800**	**2.34**	10.3	Lc
✓	GLY80RDb	8.10	1/5	HMBP	F	115V 60Hz ~1	CSR	R	C-V	169	299	**776**	**2.18**	939	**800**	**2.51**	10.5	Lc
	GL80PE	7.57	1/5	HMBP	F	115V 60Hz ~1	RSIR	R	C	130	249	**648**	**1.79**	781	**667**	**2.04**	9.5	Lc
	GL80TE	7.57	1/5	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	130	249	**648**	**1.79**	781	**667**	**2.04**	10.1	Lc
	GL80TG	7.57	1/5	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	130	249	**648**	**1.79**	781	**667**	**2.04**	10.1	Lc
	GL80MG	7.57	1/5	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V		276	**677**	**1.86**	830	**702**	**2.15**	10.1	Lb
	GL80TC	7.57	1/5	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	130	249	**648**	**1.93**	781	**667**	**2.22**	10.4	Lc
✓	GLY90RDa	9.09	1/4	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	198	348	**875**	**1.96**	1053	**900**	**2.25**	10.6	Lc
✓	GLY90RDb	9.09	1/4	HMBP	F	115V 60Hz ~1	CSR	R	C-V	198	348	**875**	**2.11**	1053	**900**	**2.42**	10.6	Lc
	GL90PE	8.85	1/4	HMBP	F	115V 60Hz ~1	RSIR	R	C	167	303	**773**	**1.79**	932	**796**	**2.06**	10.8	Ld
	GL90TE	8.85	1/4	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	167	303	**773**	**1.79**	932	**796**	**2.06**	10.8	Ld
	GL90TG	8.85	1/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	168	303	**773**	**1.72**	932	**796**	**1.97**	10.8	Ld
	GL90MG	8.85	1/4	HBP	S	230V 50/60Hz ~1	CSIR	R	C-V		300	**775**	**1.84**	940	**800**	**2.11**	10.0	Ld
	GL90RG	8.85	1/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	167	303	**773**	**2.01**	932	**796**	**2.31**	10.9	Ld
	GL90TC	8.85	1/4	HMBP	F	100V 50/60Hz ~1	CSIR	R	C-V	167	303	**773**	**1.83**	932	**796**	**2.10**	10.9	Ld
✓	GPY12RDa	12.10	3/8	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	281	480	**1151**	**1.96**	1375	**1180**	**2.25**	12.3	Pd

This table continues in the following page

✓ High Efficiency Models

R134a: W (A) x 1.05 = kcal/h (B)

R134a: W (C) x 0.94 = kcal/h (D)

W x 0.86 = kcal /h

R134a HMBP | HBP 60 Hz

R134a compressors compatible with R12

	MODEL	DISPLACEMENT	POWER	APPLICATION	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			
												5			7,2			
		cm³	hp							-25	-15	W	COP	10	kcal/h	COP	Kg	
	GPY12RDb	12.10	3/8	HMBP	F	115V 60Hz ~1	CSR	R	C-V	281	480	**1151**	**2.12**	1375	**1180**	**2.44**	12.3	Pd
	GP12PE	12.05	3/8	HMBP	F	115V 60Hz ~1	RSIR	R	C	198	395	**1045**	**1.83**	1260	**1076**	**2.10**	11.2	Pc
	GP12TE	12.05	3/8	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	198	395	**1045**	**1.83**	1260	**1076**	**2.10**	11.2	Pc
	GP12TG	12.05	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	198	395	**1045**	**1.69**	1260	**1076**	**1.93**	11.2	Pc
	GP12RG	12.05	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	198	395	**1045**	**1.96**	1260	**1076**	**2.25**	11.2	Pc
	GPY14RDa	14.32	1/2	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	318	516	**1411**	**1.91**	1739	**1467**	**2.22**	12.8	Pd
	GPY14RDb	14.32	1/2	HMBP	F	115V 60Hz ~1	CSR	R	C-V	318	516	**1411**	**2.04**	1739	**1467**	**2.36**	12.8	Pd
	GP14PE	14.17	3/8	HMBP	F	115V 60Hz ~1	RSIR	R	C	222	437	**1168**	**1.78**	1414	**1205**	**2.03**	11.5	Pd
	GP14TE	14.17	3/8	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	222	437	**1168**	**1.78**	1414	**1205**	**2.03**	11.5	Pd
	GP14TG	14.17	3/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	222	437	**1168**	**1.78**	1414	**1205**	**2.03**	12.9	Pd
	GPY16RDa	16.15	1/2	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	349	614	**1519**	**1.89**	1822	**1560**	**2.17**	12.8	Pd
	GPY16RDb	16.15	1/2	HMBP	F	115V 60Hz ~1	CSR	R	C-V	349	614	**1519**	**2.01**	1822	**1560**	**2.31**	12.8	Pd
	GP16TE	16.15	3/8	HBP	F	115V 60Hz ~1	CSIR	R	C-V		557	**1409**	**1.71**	1698	**1450**	**1.96**	12.9	Pd
	GP16TR	16.15	3/8	HBP	F	115-127V 60Hz ~1	CSIR	R	C-V		557	**1409**	**1.74**	1698	**1450**	**2.01**	12.9	Pd
	GP16TG	16.15	3/8	HBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V		557	**1409**	**1.75**	1698	**1450**	**2.00**	12.9	Pd
	GX18TG	18.40	1/2	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	334	630	**1626**	**1.89**	1958	**1673**	**2.17**	16.1	Xc
	GX23TG	23.20	5/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	429	792	**2022**	**1.73**	2434	**2080**	**1.98**	17.0	Xd
	GS26TG	25.93	3/4	HMBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	307	824	**2421**	**2.08**	2936	**2500**	**2.40**	20.6	Sc
	GS26T3	25.93	3/4	HMBP	F	400/440V 50/60Hz ~3	3PHASE	R	C-V	307	824	**2421**	**2.09**	2936	**2500**	**2.40**	22.7	Sc
	GS30TG	29.95	7/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	371	921	**2867**	**2.24**	3528	**2981**	**2.61**	23.0	Sd
	GS34TF	34.42	1	HMBP	F	220-230V 60Hz ~1	CSR	R	C-V	551	1248	**3329**	**2.18**	3992	**3421**	**2.50**	22.7	Sd

R134a MBP 50 Hz

	MODEL	DISPLACEMENT	POWER	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY I °C COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C					WEIGHT	DESIGN
		cm³	hp							-25	-20	-10	-5	0	Kg	
	GD24NBa	2.44	1/14	MBP	S	220-240V 50Hz ~1	RSIR	P	C	33	51	86	111	153	5.1	Db

R134a MBP 60 Hz

	MODEL	DISPLACEMENT	POWER	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY I °C COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C					WEIGHT	DESIGN
		cm³	hp							-25	-20	-10	-5	0	Kg	
	GD24NEa	2.44	1/14	MBP	S	115V 60Hz ~1	RSIR	P	C	38	59	101	130	180	5.1	Db
	GD30NEa	3.08	1/10	MBP	S	115V 60Hz ~1	RSIR	P	C	57	85	137	175	241	5.8	Dj
	GD40NEa	4.06	1/8	MBP	S	115V 60Hz ~1	RSIR	P	C	74	111	180	230	316	6.7	Dd

High Efficiency Models

R134a: W (A) x 1.05 = kcal/h (B)

R134a: W (C) x 0.94 = kcal/h (D)

W x 0.86 = kcal /h

R134a VHBP 50 Hz

MODEL	DISPLACEMENT cm³	POWER hp	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY I °C COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C 0	5	10	20	25	WEIGHT Kg	DESIGN
GL45YG	4.50	1/6	VHBP	S	230V 50/60Hz ~1	CSIR	R	C-V	331	412	512	765	919	9.8	Lb
GP12YG	12.05	3/8	VHBP	S	230V 50/60Hz ~1	CSIR	R	C-V	925	1155	1430	2115	2524	12.7	Pd
GP14YB	14.17	3/8	VHBP	S	220-240V 50Hz ~1	RSCR	P	C	977	1189	1454	2138	2599	13.5	Pd
GP16YB	16.15	1/2	VHBP	S	220-240V 50Hz ~1	RSCR	P	C	660	832	1035	1531	1825	12.8	Pd
GP16YGb	16.15	1/2	VHBP	S	230V 50/60Hz ~1	CSR	R	C-V	1053	1297	1593	2340	2791	12.9	Pd

R134a VHBP 60 Hz

MODEL	DISPLACEMENT cm³	POWER hp	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY I °C COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C 0	5	10	20	25	WEIGHT Kg	DESIGN
GL45YG	4.50	1/6	VHBP	S	230V 50/60Hz ~1	CSIR	R	C-V	285	356	442	659	791	9.8	Lb
GP12YG	12.05	3/8	VHBP	S	230V 50/60Hz ~1	CSIR	R	C-V	791	986	1221	1710	2163	12.7	Pd
GP16YGb	16.15	1/2	VHBP	S	230V 50/60Hz ~1	CSR	R	C-V	1053	1297	1593	2340	2791	12.9	Pd

R134a LBP | MBP | HBP 12-42V DC

MODEL	DISPLACEMENT cm³	POWER hp	APPLICATION	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 -30	-23,3	-15	-10	-5	5	10	WEIGHT Kg	DESIGN
GLT80TDC	8.1	-	LBP I MBP I HBP	F	12-24V DC	ECM	-	C-V	120	172	276	361	462	712	862	8.4	Lc
GD30FDC	3.0	-	LBP I MBP I HBP	S-F	12-42V DC	ECM	-	C-V	37	58	97	129	168	270	-	5.4	Db
GD30FDC Dual	3.0	-	LBP I MBP I HBP	S-F	12-42V DC	ECM	-	C-V	37	58	97	129	168	270	-	5.4	Db

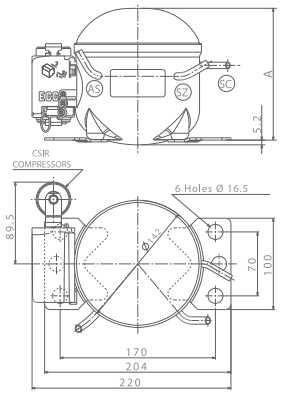
R134a: W (A) x 1.05 = kcal/h (B) R134a: W (C) x 0.94 = kcal/h (D) W x 0.86 = kcal /h

Testing cycle conditions	CECOMAF		ASHRAE	
	LBP (A)	HMBP (C)	LBP (B)	HMBP (D)
Condensing temperature	55		55	55
Liquid temperature	55		32	46
Suction temperature	32		32	35
Ambient temperature	32		32	35

F	OC	S	C	V	P	R
Fan cooled	Oil cooler	Static	Capillar and tube	Expansion valve	PTC	Relay

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

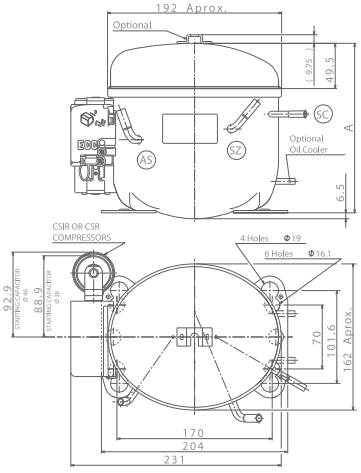
D Range



	A (mm)
Db	149.5
Dc	157.5
Dd	162.5

	LEGEND
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

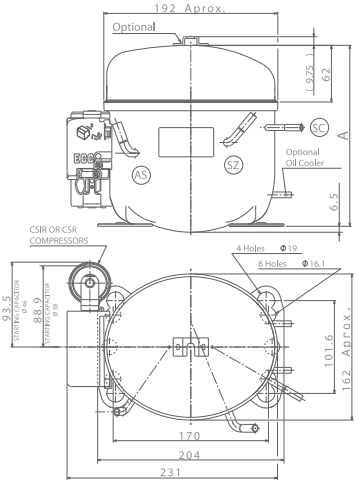
L Range



	A (mm)
Lb	175
Lc	185.6
Ld	198

	LEGEND
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

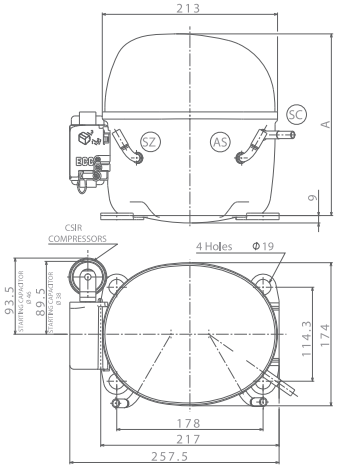
P Range



	A (mm)
Pc	198.1
Pd	210.5

	LEGEND
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

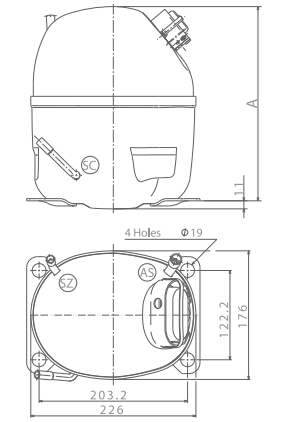
X Range



	A (mm)
Xc	215
Xd	221

	LEGEND
AS	Suction
SC	Discharge
SZ	Service

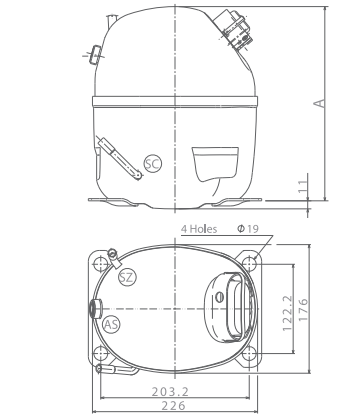
S Range (Tube)



	A (mm)
Sc	265
Sd	276

TUBE	LEGEND
AS	Suction
SC	Discharge
SZ	Service

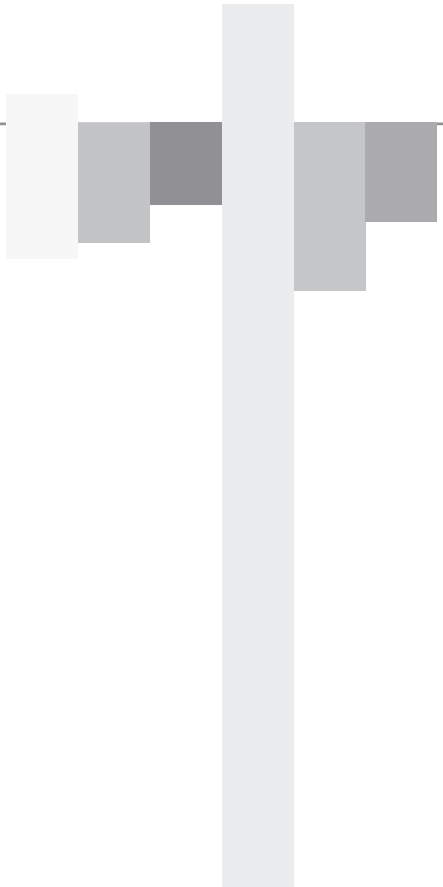
S Range (Valve)



	A (mm)
Sc	265
Sd	276

TUBE	LEGEND
AS	Valve serv.
SC	Discharge
SZ	Service

notes



R404A /R507

2. Compressors Catalogue

R404A | R507 (*) LBP 50 Hz

GREEN COOLING RANGES

MODEL	DISPLACEMENT cm³	POWER hp	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY I °C COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C							WEIGHT Kg	DESIGN
									Cecomaf (W)					Ashrae			
											-25			-23,3			
									-40	-30	W	COP	-10	kcal/h	COP		
MLY40AAa	4.02	1/7	LBP	S	220-240V 50Hz ~1	RSIR	P	C	45	95	**130**	**0.89**	271	**166**	**1.25**	10.1	Lb
MLY40AAb	4.02	1/7	LBP	S	220-240V 50Hz ~1	RSCR	P	C	45	95	**130**	**0.94**	271	**166**	**1.32**	10.1	Lb
MLY45LAa	4.56	1/6	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	61	118	**158**	**0.92**	318	**200**	**1.30**	10.0	Lc
MLY45LAb	4.56	1/6	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	61	118	**158**	**0.98**	318	**200**	**1.38**	10.0	Lc
MLY50AAa	5.11	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	65	131	**174**	**0.88**	344	**220**	**1.23**	10.5	Lb
MLY50AAb	5.11	1/6	LBP	S	220-240V 50Hz ~1	RSCR	P	C	65	131	**174**	**0.93**	344	**220**	**1.31**	10.5	Lb
MLY60LAa	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	87	169	**222**	**0.90**	430	**280**	**1.26**	10.3	Lc
MLY60LAb	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	87	169	**222**	**0.97**	430	**280**	**1.36**	10.3	Lc
MLY80LAa	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	104	208	**276**	**0.91**	550	**350**	**1.28**	10.9	Ld
MLY80LAb	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	104	208	**276**	**0.98**	550	**350**	**1.38**	10.9	Ld
MLY90LAa	9.09	1/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	121	236	**313**	**0.91**	614	**395**	**1.28**	11.4	Ld
MLY90LAb	9.09	1/3	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	121	236	**313**	**0.98**	614	**395**	**1.38**	11.4	Ld
MPT12LA	12.10	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	194	348	**453**	**1.01**	876	**570**	**1.42**	13.0	Pd
MPT14LA	14.32	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	243	420	**535**	**0.99**	988	**670**	**1.38**	13.4	Pd

R404A | R507 (*) LBP 60 Hz

GREEN COOLING RANGES

MODEL	DISPLACEMENT cm³	POWER hp	APPLICATION	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			-23,3			
									-40	-30	W	COP	-10	kcal/h	COP		
MLT50AD	5.11	1/5	LBP	S	115V 60Hz ~1	RSCR	P	C	75	155	**210**	**1.01**	438	**268**	**1.42**	10.4	Lc
MLT50ADb	5.11	1/5	LBP	F	115V 60Hz ~1	CSR	R	C	75	155	**210**	**1.01**	438	**268**	**1.42**	10.4	Lc
MLT50ADc	5.11	1/5	LBP	S	115V 60Hz ~1	CSR	R	C-V	75	155	**210**	**1.01**	438	**268**	**1.42**	10.4	Lc
MLT50LD	5.11	1/5	LBP	F	115V 60Hz ~1	CSR	R	C-V	75	155	**210**	**1.01**	438	**268**	**1.42**	10.4	Lc
MLY60LDa	5.98	1/5	LBP	F	115V 60Hz ~1	CSIR	R	C-V	102	198	**260**	**0.89**	503	**328**	**1.25**	10.3	Lc
MLY60LDb	5.98	1/5	LBP	F	115V 60Hz ~1	CSR	R	C-V	102	198	**260**	**0.95**	503	**328**	**1.34**	10.3	Lc
MLT90LD	9.09	1/4	LBP	F	115V 60Hz ~1	CSR	R	C-V	160	285	**375**	**0.99**	753	**474**	**1.40**	11.0	Ld
MLT90CD	9.09	1/3	LBP	F	115V 60Hz ~1	RSCR	P	C	165	291	**383**	**1.03**	773	**485**	**1.45**	11.0	Ld
MLT90CDb	9.09	1/3	LBP	F	115V 60Hz ~1	CSR	R	C-V	160	285	**375**	**0.99**	753	**474**	**1.40**	11.0	Ld
MLT90CDc	9.09	1/3	LBP	S	115V 60Hz ~1	CSR	R	C-V	160	285	**375**	**0.99**	753	**474**	**1.40**	11.0	Ld
MPT12LD	12.10	3/8	LBP	F	115V 60Hz ~1	CSR	R	C-V	226	398	**516**	**1.01**	996	**650**	**1.41**	12.7	Pd
MPT12CD	12.10	3/8	LBP	F	115V 60Hz ~1	RSCR	P	C	226	398	**516**	**1.01**	996	**650**	**1.41**	12.7	Pd
MPT12CDb	12.10	3/8	LBP	F	115V 60Hz ~1	CSR	R	C-V	226	398	**516**	**1.01**	996	**650**	**1.41**	12.7	Pd

Green Cooling Models

(*) Or R407B R404A: W (A) x 1.17 = kcal/h (B) W x 0.86 = kcal /h R404A: W (C) x 1.02 = kcal/h (D)

R404A | R507 (*) HMBP | HBP 50 Hz

GREEN COOLING RANGES

	MODEL	DISPLACEMENT cm³	POWER hp	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY I °C COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C							WEIGHT Kg	DESIGN
										Cecomaf (W)					Ashrae			
												5			7,2			
										-25	-15	W	COP	10	kcal/h	COP		
	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
	MLY80RAa	8.10	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	282	463	**1055**	**1.86**	1250	**1140**	**2.27**	11.4	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**	11.4	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

R404A | R507 (*) HMBP | HBP 60 Hz

GREEN COOLING RANGES

	MODEL	DISPLACEMENT cm³	POWER hp	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY I °C COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C							WEIGHT Kg	DESIGN
										Cecomaf (W)					Ashrae			
												5			7,2			
										-25	-15	W	COP	10	kcal/h	COP		
	MLY60RDa	5.98	1/4	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	252	411	**905**	**1.73**	1065	**975**	**2.10**	10.7	Lc
	MLY60RDb	5.98	1/4	HMBP	F	115V 60Hz ~1	CSR	R	C-V	252	411	**905**	**1.86**	1065	**975**	**2.27**	10.7	Lc
	MLY80RDa	8.10	3/8	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	330	543	**1232**	**1.77**	1457	**1330**	**2.15**	11.2	Ld
	MLY80RDb	8.10	3/8	HMBP	F	115V 60Hz ~1	CSR	R	C-V	330	543	**1232**	**1.83**	1457	**1330**	**2.22**	11.2	Ld

Green Cooling Models

(*) Or R407B R404A: W (A) x 1.17 = kcal/h (B) W x 0.86 = kcal /h R404A: W (C) x 1.02 = kcal/h (D)

R404A | R507 (*) LBP 50 Hz

	MODEL	DISPLACEMENT	POWER	APPLICATION	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			-23,3			
		cm³	hp							-40	-30	W	COP	-10	kcal/h	COP	Kg	
✓	MLY40AAa	4.02	1/7	LBP	S	220-240V 50Hz ~1	RSIR	P	C	45	95	**130**	**0.89**	271	**166**	**1.25**	10.1	Lb
✓	MLY40AAb	4.02	1/7	LBP	S	220-240V 50Hz ~1	RSCR	P	C	45	95	**130**	**0.94**	271	**166**	**1.32**	10.1	Lb
✓	MLY45LAa	4.56	1/6	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	61	118	**158**	**0.92**	318	**200**	**1.3**	10.0	Lc
✓	MLY45LAb	4.56	1/6	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	61	118	**158**	**0.98**	318	**200**	**1.38**	10.0	Lc
	ML45FB	4.56	1/6	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	52	100	**134**	**0.66**	275	**170**	**0.94**	9.9	Lc
	ML45FG	4.56	1/6	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	52	100	**134**	**0.68**	275	**170**	**0.96**	10.3	Lc
✓	MLY50AAa	5.11	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	65	131	**174**	**0.88**	344	**220**	**1.23**	10.5	Lb
✓	MLY50AAb	5.11	1/6	LBP	S	220-240V 50Hz ~1	RSCR	P	C	65	131	**174**	**0.93**	344	**220**	**1.31**	10.5	Lb
✓	MLY60LAa	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	87	169	**222**	**0.9**	430	**280**	**1.26**	10.3	Lc
✓	MLY60LAb	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	87	169	**222**	**0.97**	430	**280**	**1.36**	10.3	Lc
	ML60FB	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	69	134	**178**	**0.71**	352	**225**	**1.01**	10.2	Lc
	ML60FG	5.98	1/5	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	69	134	**178**	**0.71**	352	**225**	**1.01**	10.3	Lc
✓	MLY80LAa	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	104	208	**276**	**0.91**	550	**350**	**1.28**	10.9	Ld
✓	MLY80LAb	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	104	208	**276**	**0.98**	550	**350**	**1.38**	10.9	Ld
	ML80FB	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	100	190	**253**	**0.78**	507	**320**	**1.09**	10.9	Lc
	ML80FG	8.10	1/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	100	190	**253**	**0.77**	507	**320**	**1.08**	11.3	Ld
✓	MLY90LAa	9.09	1/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	121	236	**313**	**0.91**	614	**395**	**1.28**	11.4	Ld
✓	MLY90LAb	9.09	1/3	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	121	236	**313**	**0.98**	614	**395**	**1.38**	11.4	Ld
	ML90FB	8.86	1/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	104	208	**276**	**0.83**	550	**350**	**1.16**	11.0	Ld
	ML90FG	8.86	1/3	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	104	208	**276**	**0.8**	550	**350**	**1.13**	11.3	Ld
✓	MPT12LA	12.10	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	194	348	**453**	**1.01**	876	**570**	**1.42**	13.0	Pd
	MP12FB	12.05	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	104	252	**351**	**0.83**	747	**450**	**1.16**	12.0	Pd
	MP12FG	12.05	3/8	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	104	252	**351**	**0.82**	747	**450**	**1.16**	12.7	Pd
✓	MPT14LA	14.32	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	243	420	**535**	**0.99**	988	**670**	**1.38**	13.4	Pd
	MP14FB	14.17	1/2	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	121	304	**422**	**0.8**	880	**540**	**1.12**	13.9	Pd
	MP14FG	14.17	1/2	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	121	304	**422**	**0.8**	880	**540**	**1.12**	13.0	Pd
	MX18FB	18.40	5/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	174	397	**548**	**0.96**	1151	**700**	**1.36**	17.3	Xd
	MX18FB**	18.40	5/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	174	397	**548**	**0.86**	1151	**700**	**1.15**	17.3	Xd
	MX21FB	20.72	3/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	213	464	**632**	**0.96**	1301	**805**	**1.35**	17.5	Xd
	MX21FB**	20.72	3/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	213	464	**632**	**0.85**	1301	**805**	**1.13**	17.5	Xd
	MX21FG	20.72	3/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	213	464	**632**	**0.96**	1301	**805**	**1.35**	17.5	Xd
	MX23FB	23.20	7/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	260	536	**720**	**0.96**	1460	**915**	**1.35**	17.5	Xd
	MX23FG	23.20	7/8	LBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	260	536	**720**	**0.95**	1460	**915**	**1.34**	17.8	Xd
	MS26FB	25.93	3/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	182	572	**816**	**0.97**	1744	**1050**	**1.37**	22.6	Sd
	MS26FG	25.93	3/4	LBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	174	550	**779**	**0.96**	1632	**1000**	**1.35**	22.6	Sd
	MS26F3	25.93	3/4	LBP	F	400/440V 50/60Hz ~3	3PHASE	R	C-V	174	550	**779**	**0.96**	1632	**1000**	**1.35**	20.5	Sd
	MS30FB	29.95	7/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	208	657	**935**	**0.95**	1977	**1201**	**1.35**	22.7	Sd
	MS30FBc	29.95	7/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	208	657	**935**	**0.95**	1977	**1201**	**1.35**	22.7	Sd
	MS30F3	29.95	7/8	LBP	F	400/440V 50/60Hz ~3	3PHASE	R	C-V	208	657	**934**	**0.93**	1976	**1200**	**1.32**	22.7	Sd
	MS34FB	34.42	1	LBP	F	220V 50Hz ~1	CSR	R	C-V	243	764	**1089**	**0.96**	2319	**1400**	**1.35**	22.7	Sd
	MS34FBb	34.42	1	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	243	764	**1089**	**0.96**	2319	**1400**	**1.35**	22.7	Sd
	MS34F3	34.42	1	LBP	F	400/440V 50/60Hz ~3	3PHASE	R	C-V	243	764	**1089**	**1.0**	2319	**1400**	**1.4**	20.5	Sd

** Under developement

✓ High Efficiency Models

(*) Or R407B R404A: W (A) x 1.17 = kcal/h (B) W x 0.86 = kcal /h R404A: W (C) x 1.02 = kcal/h (D)

R404A | R507 (*) LBP 60 Hz

	MODEL	DISPLACEMENT	POWER	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY I °C COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C							WEIGHT	DESIGN
										Cecomaf (W)					Ashrae			
												-25			-23,3			
		cm³	hp							-40	-30	W	COP	-10	kcal/h	COP	Kg	
	ML45FR	4.56	1/6	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	61	118	**157**	**0.72**	322	**200**	**1.01**	10.3	Lc
	ML45FG	4.56	1/6	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	61	118	**157**	**0.69**	322	**200**	**0.97**	10.3	Lc
	MLT50AD	5.11	1/5	LBP	S	115V 60Hz ~1	RSCR	P	C	75	155	**210**	**1.01**	438	**268**	**1.42**	10.4	Lc
	MLT50ADb	5.11	1/5	LBP	F	115V 60Hz ~1	CSR	R	C	75	155	**210**	**1.01**	438	**268**	**1.42**	10.4	Lc
	MLT50ADc	5.11	1/5	LBP	S	115V 60Hz ~1	CSR	R	C-V	75	155	**210**	**1.01**	438	**268**	**1.42**	10.4	Lc
	MLT50LD	5.11	1/5	LBP	F	115V 60Hz ~1	CSR	R	C-V	75	155	**210**	**1.01**	438	**268**	**1.42**	10.4	Lc
	MLY60LDa	5.98	1/5	LBP	F	115V 60Hz ~1	CSIR	R	C-V	102	198	**260**	**0.89**	503	**328**	**1.25**	10.3	Lc
	MLY60LDb	5.98	1/5	LBP	F	115V 60Hz ~1	CSR	R	C-V	102	198	**260**	**0.95**	503	**328**	**1.34**	10.3	Lc
	ML60FR	5.98	1/5	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	82	157	**208**	**0.72**	412	**263**	**1.01**	10.3	Lc
	ML60FG	5.98	1/5	LBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	82	157	**208**	**0.70**	412	**263**	**0.99**	10.3	Lc
	ML80FR	8.10	1/4	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	117	224	**297**	**0.75**	593	**376**	**1.05**	11.3	Ld
	ML80FG	8.10	1/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	117	224	**297**	**0.76**	593	**376**	**1.07**	11.3	Ld
	MLT90LD	9.09	1/4	LBP	F	115V 60Hz ~1	CSR	R	C-V	160	285	**375**	**0.99**	753	**474**	**1.40**	11.0	Ld
	MLT90CD	9.09	1/3	LBP	F	115V 60Hz ~1	RSCR	P	C	165	291	**383**	**1.03**	773	**485**	**1.45**	11.0	Ld
	MLT90CDb	9.09	1/3	LBP	F	115V 60Hz ~1	CSR	R	C-V	160	285	**375**	**0.99**	753	**474**	**1.40**	11.0	Ld
	MLT90CDc	9.09	1/3	LBP	S	115V 60Hz ~1	CSR	R	C-V	160	285	**375**	**0.99**	753	**474**	**1.40**	11.0	Ld
	ML90FR	8.86	1/3	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	121	243	**324**	**0.79**	644	**410**	**1.11**	11.3	Ld
	ML90FG	8.86	1/3	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	121	243	**324**	**0.80**	644	**410**	**1.12**	11.3	Ld
	MPT12LD	12.10	3/8	LBP	F	115V 60Hz ~1	CSR	R	C-V	226	398	**516**	**1.01**	996	**650**	**1.41**	12.7	Pd
	MPT12CD	12.10	3/8	LBP	F	115V 60Hz ~1	RSCR	P	C	226	398	**516**	**1.01**	996	**650**	**1.41**	12.7	Pd
	MPT12CDb	12.10	3/8	LBP	F	115V 60Hz ~1	CSR	R	C-V	226	398	**516**	**1.01**	996	**650**	**1.41**	12.7	Pd
	MP12FR	12.05	3/8	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	121	295	**411**	**0.81**	874	**527**	**1.15**	12.7	Pd
	MP12FG	12.05	3/8	LBP	F	200-220/220-230V 50/60Hz ~1	CSIR	R	C-V	121	295	**411**	**0.85**	874	**527**	**1.19**	12.7	Pd
	MP14FE	14.17	1/2	LBP	F	115V 60Hz ~1	CSIR	R	C-V	142	356	**494**	**0.77**	1030	**632**	**1.10**	13.0	Pd
	MP14FG	14.17	1/2	LBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	142	356	**494**	**0.82**	1030	**632**	**1.15**	13.0	Pd
	MX16FR	16.03	1/2	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	182	411	**564**	**0.84**	1177	**720**	**1.18**	16.5	Xc
	MX21FG	20.72	3/4	LBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	248	542	**738**	**0.94**	1520	**940**	**1.32**	17.5	Xd
	MX23FE	23.20	7/8	LBP	F	115V 60Hz ~1	CSR	R	C-V	299	607	**812**	**0.83**	1632	**1030**	**1.16**	17.5	Xd
	MX23FG	23.20	7/8	LBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	304	628	**846**	**0.94**	1718	**1075**	**1.32**	17.8	Xd
	MS26FF	25.93	3/4	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	203	643	**912**	**0.92**	1910	**1170**	**1.30**	22.6	Sd
	MS26FG	25.93	3/4	LBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	203	643	**912**	**0.92**	1910	**1170**	**1.31**	22.6	Sd
	MS26F3	25.93	3/4	LBP	F	400/440V 50/60Hz ~3	3PHASE	R	C-V	203	643	**912**	**0.92**	1910	**1170**	**1.31**	20.5	Sd
	MS30FF	29.95	7/8	LBP	F	208-230V 60Hz ~1	CSR	R	C-V	243	765	**1090**	**0.93**	2311	**1400**	**1.31**	22.7	Sd
	MS30FG	29.95	7/8	LBP	F	230V 60Hz ~1	CSR	R	C-V	243	765	**1090**	**0.96**	2311	**1400**	**1.36**	22.7	Sd
	MS30F3	29.95	7/8	LBP	F	400/440V 50/60Hz ~3	3PHASE	R	C-V	243	765	**1090**	**0.94**	2311	**1400**	**1.32**	22.7	Sd
	MS34FF	34.42	1	LBP	F	208V 60Hz ~1	CSR	R	C-V	273	839	**1221**	**0.91**	2749	**1580**	**1.30**	22.9	Sd
	MS34F3	34.42	1	LBP	F	400/440V 50/60Hz ~3	3PHASE	R	C-V	278	887	**1267**	**0.96**	2706	**1630**	**1.35**	20.5	Sd

High Efficiency Models

(*) Or R407B

R404A: W (A) x 1.17 = kcal/h (B)

W x 0.86 = kcal /h

R404A: W (C) x 1.02 = kcal/h (D)

R404A HMBP | HBP 50 Hz

	MODEL	DISPLACEMENT	POWER	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY I °C COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C							WEIGHT	DESIGN
										Cecomaf (W)					Ashrae			
												5			7,2			
		cm^3	hp							-25	-15	W	COP	10	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**	11.4	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**	11.4	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
	MP12RB	12.05	1/2	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	373	634	**1463**	**1.89**	1732	**1580**	**2.30**	13.5	Pd
	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
	MP14RB	14.17	1/2	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	463	765	**1674**	**1.76**	1963	**1800**	**2.14**	13.5	Pd
	MX16TB	16.03	3/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	484	818	**1880**	**1.76**	2225	**2030**	**2.15**	16.8	Xc
	MX18TB	18.40	7/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	554	937	**2157**	**1.78**	2554	**2330**	**2.18**	17.2	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**	17.3	Xd
	MX21TB	20.72	1	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	625	1052	**2425**	**1.77**	2873	**2620**	**2.15**	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**	17.5	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	Sc
	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	Sc
	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**	23.0	Sd
	MS34TB	34.42	1 5/8	HBP	F	220-240V 50Hz ~1	CSR	R	C-V	1012	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**	21.0	Sd

High Efficiency Models

(*) Or R407B R404A: W (A) x 1.17 = kcal/h (B) W x 0.86 = kcal /h R404A: W (C) x 1.02 = kcal/h (D)

R404A HMBP | HBP 60 Hz

	MODEL	DISPLACEMENT	POWER	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY I °C COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C							WEIGHT	DESIGN
										Cecomaf (W)					Ashrae			
												5			7,2			
		cm³	hp							-25	-15	W	COP	10	kcal/h	COP	Kg	
	ML40TG	4.05	1/6	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	156	250	**556**	**1.41**	657	**600**	**1.70**	10.0	Lc
	ML45TG	4.50	1/5	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	177	279	**618**	**1.44**	731	**667**	**1.74**	10.0	Lc
	MLY60RDa	5.98	1/4	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	252	411	**905**	**1.73**	1065	**975**	**2.10**	10.7	Lc
	MLY60RDb	5.98	1/4	HMBP	F	115V 60Hz ~1	CSR	R	C-V	252	411	**905**	**1.86**	1065	**975**	**2.27**	10.7	Lc
	ML60TR	5.68	1/4	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	194	325	**758**	**1.50**	901	**820**	**1.83**	10.0	Lc
	ML60TG	5.68	1/4	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	194	325	**758**	**1.51**	901	**820**	**1.83**	10.0	Lc
	MLY80RDa	8.10	3/8	HMBP	F	115V 60Hz ~1	CSIR	R	C-V	330	543	**1232**	**1.77**	1457	**1330**	**2.15**	11.2	Ld
	MLY80RDb	8.10	3/8	HMBP	F	115V 60Hz ~1	CSR	R	C-V	330	543	**1232**	**1.83**	1457	**1330**	**2.22**	11.2	Ld
	ML80TG	7.57	3/8	HMBP	F	200-240/220-230V 50/60Hz ~1	CSIR	R	C-V	265	451	**1029**	**1.61**	1215	**1110**	**1.96**	11.2	Ld
	ML90TG	8.86	3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	330	542	**1235**	**1.56**	1463	**1334**	**1.89**	12.7	Ld
	MP12TG	12.05	1/2	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	433	741	**1713**	**1.81**	2028	**1850**	**2.20**	13.5	Pd
	MX18TE	18.40	7/8	HMBP	F	115V 60Hz ~1	CSR	R	C-V	648	1095	**2523**	**1.64**	2989	**2726**	**2.00**	17.2	Xd
	MX18TG	18.40	7/8	HMBP	F	200-220/220-230V 50/60Hz ~1	CSR	R	C-V	648	1095	**2523**	**1.76**	2989	**2726**	**2.15**	17.3	Xd
	MX21TG	20.72	1	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	730	1217	**2799**	**1.74**	3318	**3026**	**2.12**	17.5	Xd
	MS18T3	18.10	7/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	R	C-V	494	976	**2487**	**1.85**	2976	**2700**	**2.25**	20.0	Sc
	MS22T3	21.75	1	HMBP	F	400/440V 50/60Hz ~3	3PHASE	R	C-V	530	1140	**3014**	**1.97**	3615	**3277**	**2.40**	20.0	Sc
	MS26T3	25.93	1 3/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	R	C-V	790	1516	**3729**	**1.86**	4436	**4038**	**2.25**	23.0	Sd
	MS26TG	25.93	1 3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	790	1516	**3729**	**1.96**	4436	**4038**	**2.37**	23.0	Sd
	MS34T3	34.42	1 5/8	HMBP	F	400/440V 50/60Hz ~3	3PHASE	R	C-V	1179	2176	**4948**	**1.73**	5797	**5321**	**2.10**	21.0	Sd

High Efficiency Models

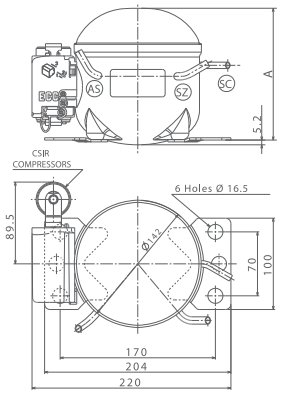
(*) Or R407B R404A: W (A) x 1.17 = kcal/h (B) W x 0.86 = kcal /h R404A: W (C) x 1.02 = kcal/h (D)

Testing cycle conditions	CECOMAF		ASHRAE	
	LBP (A)	HMBP (C)	LBP (B)	HMBP (D)
Condensing temperature	55		55	55
Liquid temperature	55		32	46
Suction temperature	32		32	35
Ambient temperature	32		32	35

F	OC	S	C	V	P	R
Fan cooled	Oil cooler	Static	Capillar and tube	Expansion valve	PTC	Relay

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

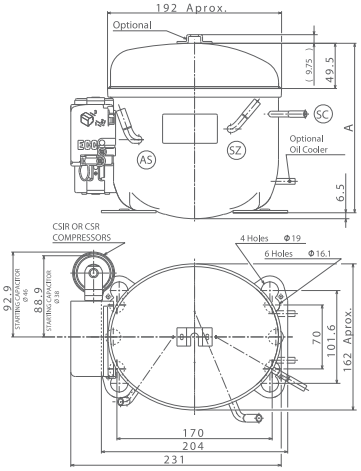
D Range



	A (mm)
Db	149.5
Dc	157.5
Dd	162.5

	LEGEND
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

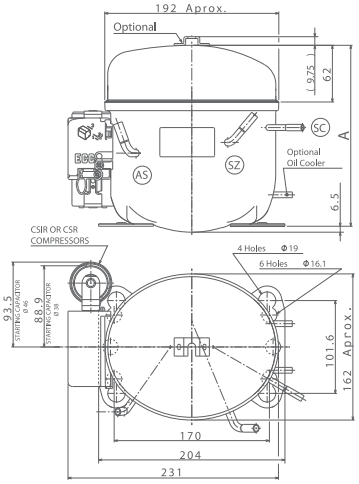
L Range



	A (mm)
Lb	175
Lc	185.6
Ld	198

	LEGEND
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

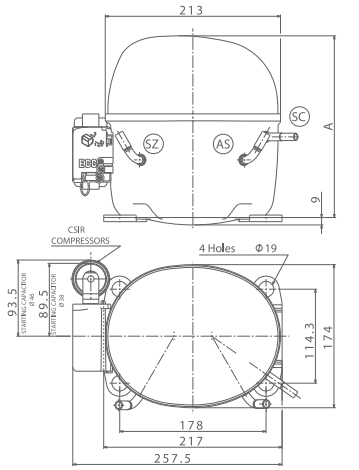
P Range



	A (mm)
Pc	198.1
Pd	210.5

	LEGEND
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

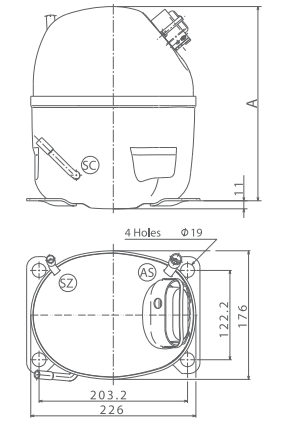
X Range



	A (mm)
Xc	215
Xd	221

	LEGEND
AS	Suction
SC	Discharge
SZ	Service

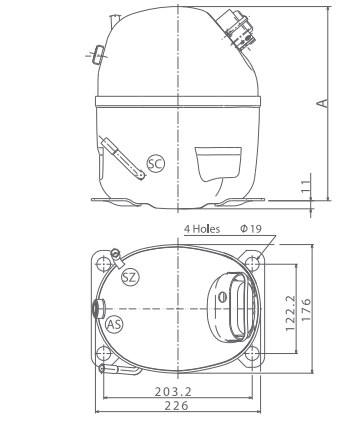
S Range (Tube)



	A (mm)
Sc	265
Sd	276

TUBE	
	LEGEND
AS	Suction
SC	Discharge
SZ	Service

S Range (Valve)



	A (mm)
Sc	265
Sd	276

TUBE	
	LEGEND
AS	Valve serv.
SC	Discharge
SZ	Service

notes

R290 / R600a

2. Compressors Catalogue

green cooling

R290 LBP 50 Hz

GREEN COOLING RANGES

	MODEL	DISPLACEMENT cm³	POWER hp	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY I °C COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C							WEIGHT Kg	DESIGN
										Cecomaf (W)					Ashrae			
												-25			-23,3			
										-40	-35	W	COP	-10	kcal/h	COP		
✓	NLY45LAa	4.56	1/6	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	62	85	**151**	**1.04**	298	**176**	**1.35**	10.3	Lc
✓	NLY45LAb	4.56	1/6	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	62	85	**151**	**1.11**	298	**176**	**1.44**	10.3	Lc
✓	NLY60LAa	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	85	114	**198**	**1.02**	388	**230**	**1.33**	10.3	Lc
✓	NLY60LAb	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	85	114	**198**	**1.09**	388	**230**	**1.42**	10.3	Lc
✓	NLY60CAa	5.98	1/5	LBP	F	220-240V 50Hz ~1	RSIR	P	C	85	114	**198**	**1.02**	388	**230**	**1.33**	10.3	Lc
✓	NLY60CAb	5.98	1/5	LBP	F	220-240V 50Hz ~1	RSCR	P	C	85	114	**198**	**1.09**	388	**230**	**1.42**	10.3	Lc
	NL60FB	5.98	1/5	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	80	101	**172**	**0.84**	346	**200**	**1.10**	10.2	Lc
✓	NLY80LAa	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	113	150	**263**	**1.04**	524	**306**	**1.35**	10.9	Ld
✓	NLY80LAb	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	113	150	**263**	**1.10**	524	**306**	**1.43**	10.9	Ld
	NL80FB	8.10	1/4	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	103	134	**232**	**0.85**	468	**270**	**1.10**	10.9	Lc
✓	NLY90LAa	9.09	1/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	130	177	**306**	**1.05**	590	**355**	**1.37**	11.1	Ld
✓	NLY90LAb	9.09	1/3	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	130	177	**306**	**1.11**	590	**355**	**1.44**	11.1	Ld
	NL90FB	8.85	1/3	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	113	143	**248**	**0.88**	515	**290**	**1.14**	11.0	Ld
✓	NPY12LAa	12.10	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	174	232	**401**	**1.04**	781	**465**	**1.35**	12.3	Pd
✓	NPY12LAb	12.10	3/8	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	174	232	**401**	**1.15**	781	**465**	**1.49**	12.3	Pd
	NP12FB	12.05	3/8	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	132	181	**333**	**0.91**	692	**390**	**1.19**	12.0	Pd
✓	NPY14LAa	14.32	1/2	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	216	286	**484**	**1.05**	926	**560**	**1.35**	12.9	Pd
✓	NPY14LAb	14.32	1/2	LBP	F	220-240V 50Hz ~1	CSR	R	C-V	216	286	**484**	**1.14**	926	**560**	**1.48**	12.9	Pd
	NP14FB	14.17	1/2	LBP	F	220-240V 50Hz ~1	CSIR	R	C-V	155	211	**385**	**0.91**	795	**450**	**1.19**	13.0	Pd

R290 LBP 60 Hz

GREEN COOLING RANGES

	MODEL	DISPLACEMENT cm³	POWER hp	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY I °C COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C							WEIGHT Kg	DESIGN
										Cecomaf (W)					Ashrae			
												-25			-23,3			
										-40	-30	W	COP	-10	kcal/h	COP		
	NL45FR	4.56	1/6	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	71	95	**164**	**0.85**	318	**190**	**1.10**	10.3	Lc
	NL60FR	5.98	1/5	LBP	F	115-127V 60Hz ~1	CSIR	R	C-V	94	120	**202**	**0.88**	402	**235**	**1.14**	10.2	Lc

✓ Green Cooling Models

R600a: W (A) x 1.05 = kcal/h (B) R290: W (A) x 1.16 = kcal/h (B) R290: W (C) x 0.98 = kcal/h (D) W x 1.16 = kcal /h

R290 HMBP 50 Hz

GREEN COOLING RANGES

	MODEL	DISPLACEMENT cm³	POWER hp	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY I °C COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C							WEIGHT Kg	DESIGN
										Cecomaf (W)					Ashrae			
												5			7,2			
										-25	-15	W	COP	10	kcal/h	COP		
	NL40TBa	4.05	1/5	HMBP	F	220-240V 50Hz ~1	RSIR	R	C-V	121	194	**434**	**1.88**	513	**445**	**2.20**	9.5	Lc
	NL40TBb	4.05	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	121	194	**434**	**1.88**	513	**445**	**2.20**	9.5	Lc
	NLY45RAa	4.56	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	148	237	**518**	**2.15**	609	**530**	**2.51**	10.2	Lc
	NLY45RAb	4.56	1/5	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	148	237	**518**	**2.35**	609	**530**	**2.75**	10.2	Lc
	NL45TB	4.50	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	132	211	**473**	**1.88**	561	**486**	**2.20**	9.5	Lc
	NLY60RAa	5.98	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	211	324	**703**	**2.21**	829	**720**	**2.58**	10.4	Lc
	NLY60RAb	5.98	1/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	211	324	**703**	**2.40**	829	**720**	**2.79**	10.4	Lc
	NL60TBa	5.68	1/4	HMBP	F	220-240V 50Hz ~1	RSIR	R	C-V	169	274	**606**	**2.05**	713	**620**	**2.40**	9.5	Lc
	NL60TBb	5.68	1/4	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	169	274	**606**	**2.05**	713	**620**	**2.40**	9.5	Lc
	NLY80RAa	8.10	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	258	411	**929**	**2.22**	1103	**955**	**2.60**	11.4	Lc
	NLY80RAb	8.10	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	258	411	**929**	**2.39**	1103	**955**	**2.80**	11.4	Lc
	NL80TB	7.57	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	206	359	**806**	**2.05**	948	**825**	**2.40**	10.0	Ld
	NLY90RAa	9.09	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	306	480	**1054**	**2.20**	1244	**1080**	**2.56**	11.4	Ld
	NLY90RAb	9.09	3/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	306	480	**1054**	**2.38**	1244	**1080**	**2.78**	11.4	Ld
	NL90TB	8.85	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	242	391	**921**	**2.08**	1102	**950**	**2.42**	10.6	Ld
	NP12TB	12.05	1/2	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	316	537	**1272**	**2.34**	1517	**1310**	**2.72**	12.3	Pd
	NP14TB	14.17	1/2	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	401	661	**1509**	**2.29**	1789	**1550**	**2.67**	13.5	Pd

R290 HMBP 60 Hz

GREEN COOLING RANGES

	MODEL	DISPLACEMENT cm³	POWER hp	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY I °C COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature °C							WEIGHT Kg	DESIGN
										Cecomaf (W)					Ashrae			
												5			7,2			
										-25	-15	W	COP	10	kcal/h	COP		
	NL60TR	5.68	1/4	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	196	319	**721**	**1.92**	854	**740**	**2.24**	9.5	Lc

Green Cooling Models

R600a: W (A) x 1.05 = kcal/h (B) R290: W (A) x 1.16 = kcal/h (B) R290: W (C) x 0.98 = kcal/h (D) W x 1.16 = kcal /h

R600a LBP 50 Hz

GREEN COOLING RANGES

MODEL	DISPLACEMENT cm³	POWER hp	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY I °C — COP in W/W, 1 W = 0,864 kcal/h = 3,415 BTU/h, Evaporating Temperature °C — Cecomaf (W) -35	-40	-25 W	-25 COP	-10	Ashrae -23,3 kcal/h	Ashrae -23,3 COP	WEIGHT Kg	DESIGN
HLY45AAa	4.56	1/12	LBP	S	220-240V 50Hz ~1	RSIR	P	C	23	36	**52**	**0.97**	111	**60**	**1.25**	8.2	Lb
HLY45AAb	4.56	1/12	LBP	S	220-240V 50Hz ~1	RSCR	P	C	23	36	**52**	**1.02**	112	**60**	**1.32**	8.2	Lb
HLY55AAa	5.46	1/9	LBP	S	220-240V 50Hz ~1	RSIR	P	C	28	44	**62**	**1.03**	130	**72**	**1.33**	8.9	Lb
HLY55AAb	5.46	1/9	LBP	S	220-240V 50Hz ~1	RSCR	P	C	28	44	**62**	**1.1**	131	**72**	**1.42**	8.9	Lb
HLY70AAa	6.65	1/8	LBP	S	220-240V 50Hz ~1	RSIR	P	C	42	59	**80**	**1.08**	162	**92**	**1.37**	9.0	Lb
HLY70AAb	6.65	1/8	LBP	S	220-240V 50Hz ~1	RSCR	P	C	41	59	**81**	**1.15**	163	**93**	**1.46**	9.0	Lb
HLY75AAa	7.38	1/7	LBP	S	220-240V 50Hz ~1	RSIR	P	C	47	66	**89**	**1.10**	183	**102**	**1.40**	9.1	Lb
HLY75AAb	7.38	1/7	LBP	S	220-240V 50Hz ~1	RSCR	P	C	48	66	**89**	**1.16**	184	**102**	**1.48**	9.1	Lb
HLY80AAa	8.10	1/7	LBP	S	220-240V 50Hz ~1	RSIR	P	C	53	74	**99**	**1.11**	201	**113**	**1.41**	9.1	Lb
HLY80AAb	8.10	1/7	LBP	S	220-240V 50Hz ~1	RSCR	P	C	54	74	**99**	**1.17**	203	**113**	**1.49**	9.1	Lb
HLY90AAa	9.09	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	67	84	**109**	**1.11**	230	**125**	**1.41**	9.5	Lc
HLY90AAb	9.09	1/6	LBP	S	220-240V 50Hz ~1	RSCR	P	C	65	84	**111**	**1.17**	233	**127**	**1.49**	9.5	Lc
HLY99AAa	9.95	1/6	LBP	S	220-240V 50Hz ~1	RSIR	P	C	69	90	**119**	**1.10**	248	**136**	**1.40**	9.6	Lc
HLY99AAb	9.95	1/6	LBP	S	220-240V 50Hz ~1	RSCR	P	C	67	90	**119**	**1.16**	249	**137**	**1.48**	9.6	Lc
HPY12AAa	12.10	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	78	107	**144**	**1.12**	300	**165**	**1.43**	10.7	Pc
HPY12AAb	12.10	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	78	107	**144**	**1.18**	300	**165**	**1.50**	10.7	Pd
HPY14AAa	14.32	1/5	LBP	S	220-240V 50Hz ~1	RSIR	P	C	92	124	**166**	**1.13**	344	**190**	**1.43**	11.0	Pc
HPY14AAb	14.32	1/5	LBP	S	220-240V 50Hz ~1	RSCR	P	C	92	124	**166**	**1.18**	344	**190**	**1.50**	11.0	Pd
HPY16AAa	16.15	1/4	LBP	S	220-240V 50Hz ~1	RSIR	P	C	101	136	**181**	**1.13**	380	**208**	**1.44**	11.2	Pc
HPY16AAb	16.15	1/4	LBP	S	220-240V 50Hz ~1	RSCR	P	C	101	136	**181**	**1.19**	380	**208**	**1.51**	11.2	Pd

R600a HMBP 50 Hz

GREEN COOLING RANGES

MODEL	DISPLACEMENT cm³	POWER hp	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY I °C — COP in W/W, 1 W = 0,864 kcal/h = 3,415 BTU/h, Evaporating Temperature °C — Cecomaf (W) -25	-15	5 W	5 COP	10	Ashrae 7,2 kcal/h	Ashrae 7,2 COP	WEIGHT Kg	DESIGN
HD40MBa	4.06	1/14	HMBP	S	220-240V 50Hz ~1	RSIR	P	C	40	72	**178**	**1.65**	214	**182**	**1.91**	6.0	Dd
HLY55MAa	5.46	1/10	HMBP	S	220-240V 50Hz ~1	RSIR	P	C	48	96	**250**	**2.20**	300	**255**	**2.51**	9.4	Lb
HLY55MAb	5.46	1/10	HMBP	S	220-240V 50Hz ~1	RSCR	P	C	48	96	**250**	**2.32**	300	**255**	**2.67**	9.4	Lb
HLY70MAa	6.65	1/8	HMBP	S	220-240V 50Hz ~1	RSIR	P	C	66	120	**307**	**2.18**	370	**314**	**2.50**	8.4	Lb
HLY70MAb	6.65	1/8	HMBP	S	220-240V 50Hz ~1	RSCR	P	C	66	120	**307**	**2.34**	370	**314**	**2.69**	8.4	Lb

Green Cooling Models

R600a: W (A) x 1.05 = kcal/h (B)

R290: W (A) x 1.16 = kcal/h (B)

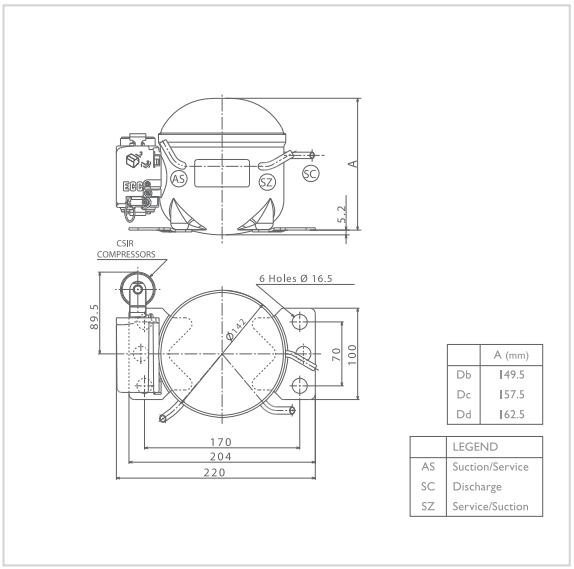
R290: W (C) x 0.98 = kcal/h (D)

W x 1.16 = kcal /h

Testing cycle conditions	CECOMAF		ASHRAE	
	LBP (A)	HMBP (C)	LBP (B)	HMBP (D)
Condensing temperature	55		55	55
Liquid temperature	55		32	46
Suction temperature	32		32	35
Ambient temperature	32		32	35

F	OC	S	C	V	P	R
Fan cooled	Oil cooler	Static	Capillar and tube	Expansion valve	PTC	Relay

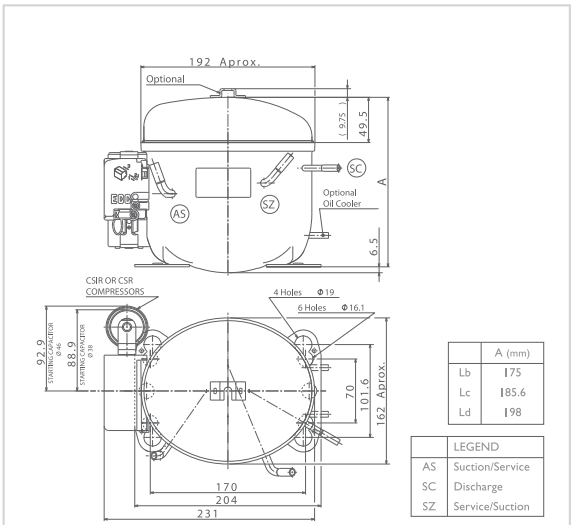
D Range



	A (mm)
Db	149.5
Dc	157.5
Dd	162.5

	LEGEND
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

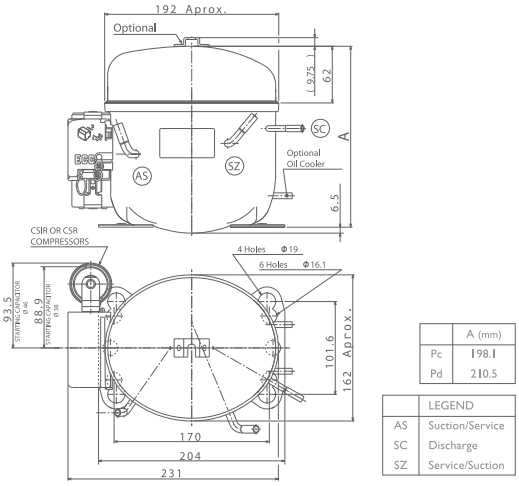
L Range



	A (mm)
Lb	175
Lc	185.6
Ld	198

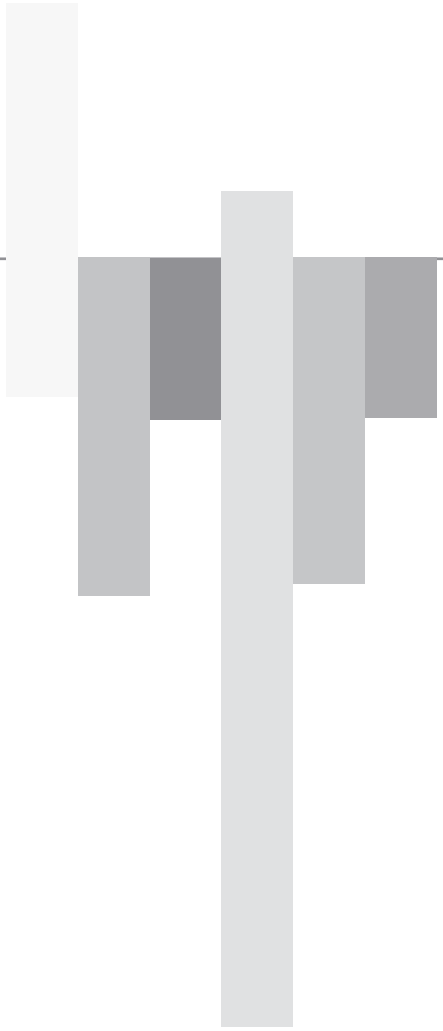
	LEGEND
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

P Range



	A (mm)
Pc	198.1
Pd	210.5

	LEGEND
AS	Suction/Service
SC	Discharge
SZ	Service/Suction



R22

2. Compressors Catalogue

R22 HMBP | HBP 50 Hz

MODEL	DISPLACEMENT	POWER	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY I ºC COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature ºC							WEIGHT	DESIGN
									Cecomaf (W)					Ashrae			
											5			7,2			
	cm³	hp							-20	-15	W	COP	10	kcal/h	COP	Kg	
L40TNa	4.05	1/6	HMBP	F	220-240V 50Hz ~1	RSIR	R	C	150	195	**458**	**1.68**	545	**460**	**1.91**	9.5	Lc
L40TNb	4.05	1/6	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	150	195	**458**	**1.68**	545	**460**	**1.91**	9.5	Lc
L40TN	4.05	1/6	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	150	195	**458**	**1.70**	545	**460**	**1.91**	9.5	Lc
L45TN	4.50	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	157	206	**497**	**1.68**	593	**500**	**1.91**	9.5	Lc
L45TN	4.50	1/5	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	170	217	**516**	**1.72**	619	**520**	**1.95**	9.5	Lc
L57TNa	5.68	1/5	HMBP	F	220-240V 50Hz ~1	RSIR	R	C	194	255	**612**	**1.72**	729	**615**	**1.93**	9.5	Lc
L57TNb	5.68	1/5	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	194	255	**612**	**1.72**	729	**615**	**1.93**	9.5	Lc
L57TN	5.68	1/5	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	203	262	**626**	**1.76**	748	**630**	**1.98**	9.5	Lc
L76TN	7.57	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	269	348	**816**	**1.72**	971	**820**	**1.95**	10.0	Ld
L76TN	7.57	3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	273	348	**833**	**1.80**	1000	**840**	**2.04**	10.0	Ld
L88TN	8.86	3/8	HMBP	F	220-240V 50Hz ~1	CSIR	R	C-V	323	416	**975**	**1.74**	1161	**980**	**1.97**	10.6	Ld
L88TN	8.86	3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	323	416	**975**	**1.75**	1161	**980**	**1.97**	10.6	Ld
P12TN	12.05	1/2	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	412	537	**1312**	**2.00**	1574	**1323**	**2.26**	12.3	Pd
X16TN	16.03	5/8	HBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	565	765	**1785**	**2.04**	2094	**1782**	**2.30**	17.8	Xd
X18TN	18.40	3/4	HBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	662	895	**2079**	**2.11**	2438	**2075**	**2.40**	17.8	Xd
S18TN	18.10	3/4	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	555	755	**2022**	**2.16**	2454	**2050**	**2.46**	21.8	Sc
S18TN	18.10	3/4	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	555	755	**2022**	**2.09**	2454	**2050**	**2.38**	21.8	Sc
S22TN	21.77	7/8	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	646	890	**2460**	**2.28**	3001	**2500**	**2.60**	22.7	Sc
S26TN	25.93	1	HMBP	F	220-240V 50Hz ~1	CSR	R	C-V	857	1183	**3027**	**2.20**	3623	**3051**	**2.50**	22.7	Sd

R22 HMBP | HBP 60 Hz

MODEL	DISPLACEMENT	POWER	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY I ºC COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature ºC							WEIGHT	DESIGN
									Cecomaf (W)					Ashrae			
											5			7,2			
	cm³	hp							-20	-15	W	COP	10	kcal/h	COP	Kg	
L40TN	4.05	1/6	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	180	233	**550**	**1.67**	654	**552**	**1.89**	9.5	Lc
L45TN	4.50	1/5	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	204	260	**619**	**1.69**	742	**624**	**1.91**	9.5	Lc
L57TN	5.68	1/5	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	243	315	**751**	**1.70**	898	**756**	**1.91**	9.5	Lc
L76TN	7.57	3/8	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	327	418	**1000**	**1.79**	1200	**1008**	**2.02**	10.2	Ld
L76TN	7.57	3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	327	418	**1000**	**1.79**	1200	**1008**	**2.02**	10.0	Ld
L88TN	8.86	3/8	HMBP	F	115-127V 60Hz ~1	CSIR	R	C-V	387	499	**1170**	**1.69**	1394	**1176**	**1.90**	10.6	Ld
L88TN	8.86	3/8	HMBP	F	200-220/230V 50/60Hz ~1	CSIR	R	C-V	387	499	**1170**	**1.69**	1394	**1176**	**1.90**	10.6	Ld
P12TN	12.05	1/2	HMBP	F	115V 60Hz ~1	CSR	R	C-V	494	644	**1575**	**1.94**	1890	**1588**	**2.20**	12.0	Pd
P12TN	12.05	1/2	HBP	F	115-127V 60Hz ~1	CSR	R	C-V	645	377	**1394**	**1.82**	2169	**1588**	**2.20**	12.0	Pd
P12TN	12.05	1/2	HMBP	F	230V 60Hz ~1	CSR	R	C-V	494	644	**1575**	**1.95**	1890	**1588**	**2.23**	12.3	Pd
X16TN	16.03	5/8	HBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	668	905	**2085**	**2.0**	2437	**2078**	**2.25**	17.8	Xd
X18TN	18.40	3/4	HBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	786	1056	**2426**	**2.12**	2840	**2420**	**2.41**	17.8	Xd
S18TN	18.10	3/4	HMBP	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	666	906	**2426**	**2.01**	2945	**2460**	**2.29**	21.8	Sc
S26TN	25.93	1	HMBP	F	230V 60Hz ~1	CSR	R	C-V	1028	1419	**3633**	**2.12**	4348	**3661**	**2.36**	22.7	Sd

R22: W (C) x 0.94 = kcal/h (D) W x 0.86 = kcal /h

R22 SPECIAL 60 Hz

MODEL	DISPLACEMENT	POWER	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY I ºC COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature ºC							WEIGHT	DESIGN
									Cecomaf (W)					Ashrae			
											5			7,2			
	cm³	hp							-20	-15	W	COP	10	kcal/h	COP	Kg	
RL90TE	9.09	3/8	HMBP	F	100/115V 50/60Hz ~1	CSIR	R	C	527	666	**1470**	**1.72**	1732	**1470**	**1.93**	10.8	Ld
RL90TG	9.09	3/8	HMBP	F	220-240V 50/60Hz ~1	CSIR	R	C	527	666	**1470**	**1.93**	1732	**1470**	**2.16**	10.8	Ld

R22 AC 50 Hz

MODEL	DISPLACEMENT	POWER	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY I ºC COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature ºC							WEIGHT	DESIGN
									Cecomaf (W)					Ashrae			
											5			7,2			
	cm³	hp							-10	-5	W	COP	10	kcal/h	COP	Kg	
S22UNa	21.77	1	AC	F	220-240V 50Hz ~1	CSR	R	C-V	1088	1475	**2397**	**2.06**	2932	**2440**	**2.36**	20.5	Sc
S22UNa	21.77	1	AC	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	1088	1475	**2397**	**2.11**	2932	**2440**	**2.43**	20.5	Sc
S22UNb	21.77	1	AC	F	220-240V 50Hz ~1	PSC	R	C	1088	1475	**2397**	**2.06**	2932	**2440**	**2.36**	20.5	Sc
S22UNb	21.77	1	AC	F	200-220/230V 50/60Hz ~1	PSC	R	C	1088	1475	**2397**	**2.11**	2932	**2440**	**2.43**	20.5	Sc
S26UNa	26.16	1 1/4	AC	F	220-240V 50Hz ~1	CSR	R	C-V	1551	2005	**3128**	**2.21**	3796	**3172**	**2.54**	20.5	Sc
S26UNa	26.16	1 1/4	AC	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	1551	2005	**3128**	**2.18**	3796	**3172**	**2.49**	20.5	Sc
S26UNb	26.16	1 1/4	AC	F	220-240V 50Hz ~1	PSC	R	C	1551	2005	**3128**	**2.21**	3796	**3172**	**2.54**	20.5	Sc
S26UNb	26.16	1 1/4	AC	F	200-220/230V 50/60Hz ~1	PSC	R	C	1551	2005	**3128**	**2.18**	3796	**3172**	**2.49**	20.5	Sc
S30UNa	29.95	1 3/8	AC	F	220-240V 50Hz ~1	CSR	R	C-V	1751	2207	**3474**	**2.20**	4284	**3546**	**2.54**	22.7	Sd
S30UNb	29.95	1 3/8	AC	F	220-240V 50Hz ~1	PSC	R	C	1751	2207	**3474**	**2.20**	4284	**3546**	**2.54**	22.7	Sd
S34UNa	34.42	1 5/8	AC	F	220-240V 50Hz ~1	CSR	R	C-V	2231	2771	**4160**	**2.15**	5009	**4201**	**2.44**	22.7	Sd
S34UNb	34.42	1 5/8	AC	F	220-240V 50Hz ~1	PSC	R	C	2231	2771	**4160**	**2.15**	5009	**4201**	**2.44**	22.7	Sd

R22 AC 60 Hz

MODEL	DISPLACEMENT	POWER	APPLICATION	COOLING	VOLTAGE FREQUENCY	MOTOR	STARTING	EXPANSION	REFRIGERATION CAPACITY I ºC COP in W/W 1 W = 0,864 kcal/h = 3,415 BTU/h Evaporating Temperature ºC							WEIGHT	DESIGN
									Cecomaf (W)					Ashrae			
											5			7,2			
	cm³	hp							-10	-5	W	COP	10	kcal/h	COP	Kg	
S19UNa	18.64	7/8	AC	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	1099	1493	**2475**	**2.2**	3062	**2532**	**2.54**	20.4	Sc
S19UNb	18.64	7/8	AC	F	200-220/230V 50/60Hz ~1	PSC	R	C	1099	1493	**2475**	**2.2**	3062	**2532**	**2.54**	20.4	Sc
S22UNa	21.77	1	AC	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	1306	1770	**2877**	**2.11**	3518	**2929**	**2.42**	20.5	Sc
S22UNb	21.77	1	AC	F	200-220/230V 50/60Hz ~1	PSC	R	C	1306	1770	**2877**	**2.11**	3518	**2929**	**2.42**	20.5	Sc
S24UNa	23.95	1 1/8	AC	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	1623	2165	**3387**	**2.23**	4068	**3421**	**2.52**	20.5	Sc
S24UNb	23.95	1 1/8	AC	F	200-220/230V 50/60Hz ~1	PSC	R	C	1623	2165	**3387**	**2.23**	4068	**3421**	**2.52**	20.5	Sc
S26UNa	26.16	1 1/4	AC	F	208-230V 60Hz ~1	CSR	R	C-V	1860	2401	**3750**	**2.16**	4557	**3805**	**2.46**	20.5	Sc
S26UNa	26.16	1 1/4	AC	F	200-220/230V 50/60Hz ~1	CSR	R	C-V	1862	2407	**3753**	**2.21**	4553	**3805**	**2.53**	20.5	Sc
S26UNb	26.16	1 1/4	AC	F	208-230V 60Hz ~1	PSC	R	C	1860	2401	**3750**	**2.16**	4557	**3805**	**2.46**	20.5	Sc
S26UNb	26.16	1 1/4	AC	F	200-220/230V 50/60Hz ~1	PSC	R	C	1862	2407	**3753**	**2.21**	4553	**3805**	**2.53**	20.5	Sc

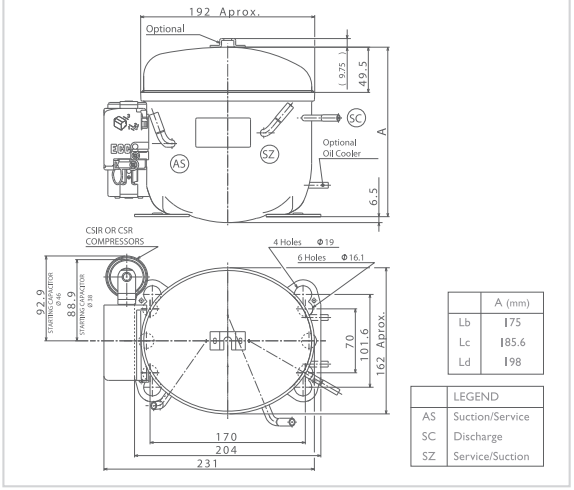
R22: W (C) x 0.94 = kcal/h (D) W x 0.86 = kcal /h

Testing cycle conditions	CECOMAF		ASHRAE	
	LBP (A)	HMBP (C)	LBP (B)	HMBP (D)
Condensing temperature	55		55	55
Liquid temperature	55		32	46
Suction temperature	32		32	35

F	OC	S	C	V	P	R
Fan cooled	Oil cooler	Static	Capillar and tube	Expansion valve	PTC	Relay

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

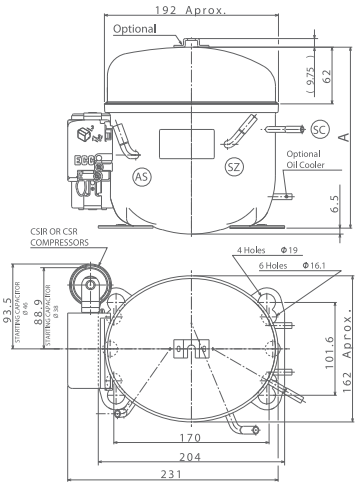
L Range



	A (mm)
Lb	175
Lc	185.6
Ld	198

	LEGEND
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

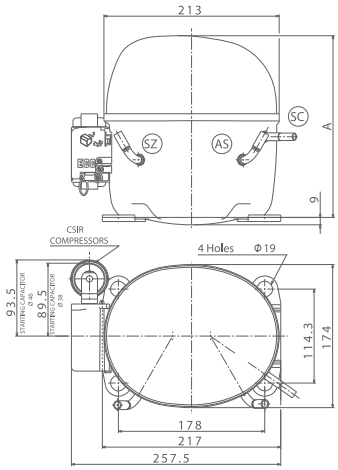
P Range



	A (mm)
Pc	198.1
Pd	210.5

	LEGEND
AS	Suction/Service
SC	Discharge
SZ	Service/Suction

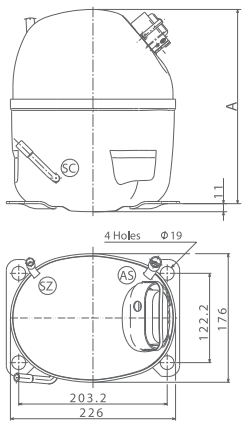
X Range



	A (mm)
Xc	215
Xd	221

	LEGEND
AS	Suction
SC	Discharge
SZ	Service

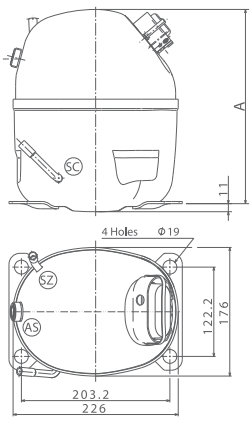
S Range (Tube)



	A (mm)
Sc	265
Sd	276

TUBE	LEGEND
AS	Suction
SC	Discharge
SZ	Service

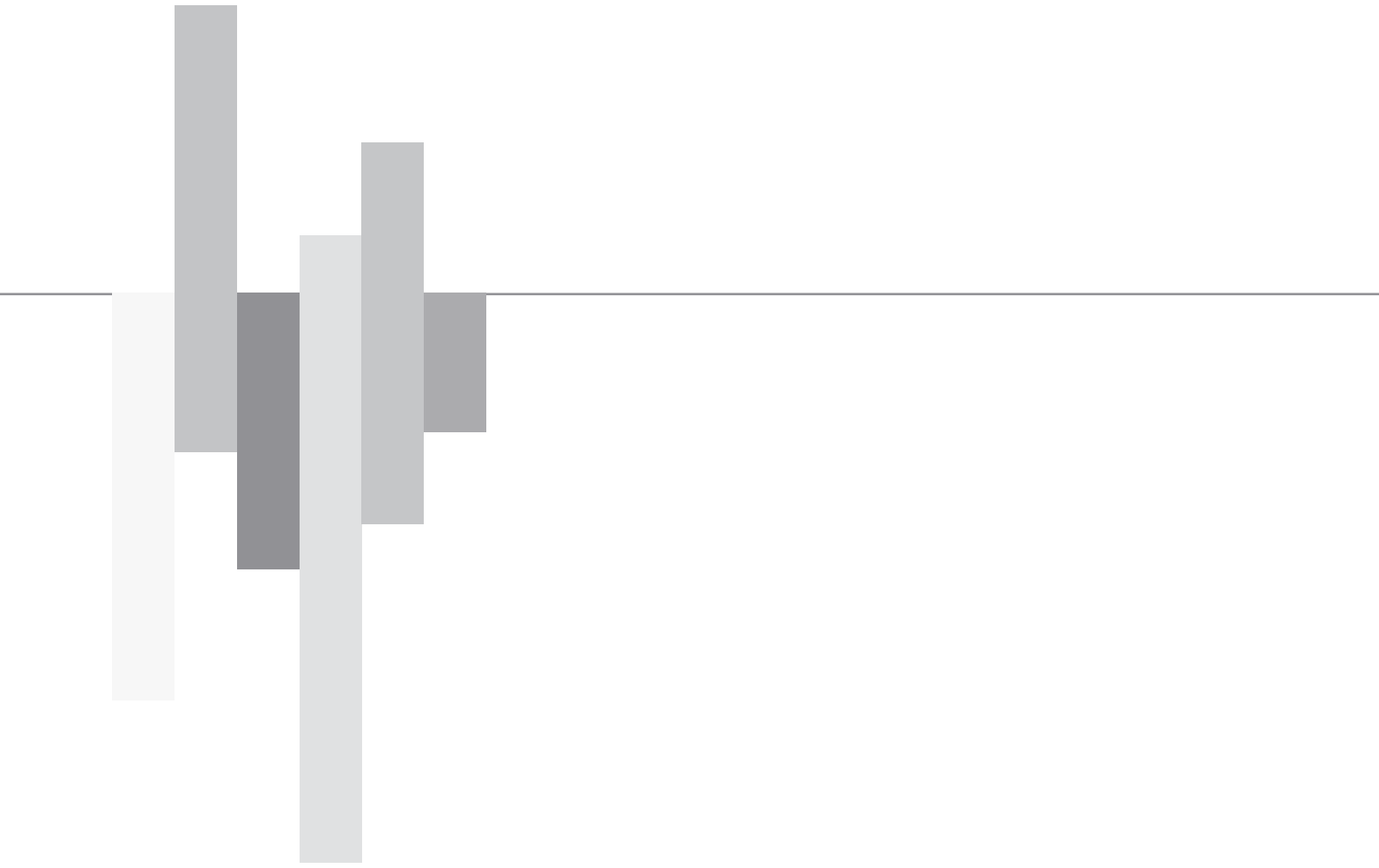
S Range (Valve)



	A (mm)
Sc	265
Sd	276

TUBE	LEGEND
AS	Valve serv.
SC	Discharge
SZ	Service

notes



CU

3. Condensing Units Catalogue

MODEL	DISPLACEMENT	POWER	MAX. AMBIENCE TEMP.	T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY W WX 0.86 = KCAL/H W X 3.412 = BTU/H EVAPORATING TEMPERATURE °C								VERSION "3"				DESIGN
													7,2				DIMENSIONS	TUBES			
																		SUCTION	COMPRESSION	WEIGHT	
	cm^3	hp							-25	-15	-5	5	**W**	**W inp**	A	10	W x L x H mm	Inch	Inch	Kg	
CGD30MB_N	3.0	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	3.0	1/10	43	T	HMBP	220-240V 50Hz ~1	CSIR	C - V	91	147	230	341	**369**	**196**	1,09	407	255x300x200	1/4	1/4	8,8	4A
CGD40MB_N	4.0	1/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C - V	97	156	243	357	**385**	**215**	1,16	423	255x300x200	1/4	1/4	9,6	4A
CGL45PB_N	4.0	1/6	43	T	HMBP	220-240V 50Hz ~1	RSIR	C	108	183	286	416	**448**	**238**	1,11	491	320x425x220	3/8	1/4	14,5	3B
CGL45TB_N	4.0	1/6	43	T	HMBP	220-240V 50Hz ~1	CSIR	C - V	108	183	286	416	**448**	**238**	1,11	491	320x425x220	3/8	1/4	14,5	3B
CGL45TG_N	4.0	1/6	43	T	HMBP	200-240/220-230V 50/60Hz ~1	CSIR	C - V	109	180	279	407	**439**	**219**	1,1	482	320x425x220	3/8	1/4	14,5	3B
CGL60PB_N	5.0	1/5	43	T	HMBP	220-240V 50Hz ~1	RSIR	C	130	232	361	520	**558**	**271**	1,25	609	320x425x235	3/8	1/4	17	3B
CGL60TB_N	5.0	1/5	43	T	HMBP	220-240V 50Hz ~1	CSIR	C - V	130	232	361	520	**558**	**271**	1,25	609	320x425x235	3/8	1/4	17	3B
CGL60TG_N	5.0	1/5	43	T	HMBP	200-240/220-230V 50/60Hz ~1	CSIR	C - V	136	227	366	551	**599**	**271**	1,24	662	320x425x235	3/8	1/4	17	3B
CGL80PB_N	7.0	1/5	43	T	HMBP	220-240V 50Hz ~1	RSIR	C	166	285	441	636	**684**	**343**	1,85	747	340x425x235	3/8	1/4	17	3B
CGL80TB_N	7.0	1/5	43	T	HMBP	220-240V 50Hz ~1	CSIR	C - V	166	285	441	636	**684**	**343**	1,85	747	340x425x235	3/8	1/4	17	3B
CGL80TG_N	7.0	1/5	43	T	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C - V	178	300	473	699	**755**	**333**	1,83	831	340x425x235	3/8	1/4	17	3B
CGL90PB_N	8.0	1/4	43	T	HMBP	220-240V 50Hz ~1	RSIR	C	203	341	533	780	**842**	**386**	1,95	924	340x425x235	3/8	1/4	18,5	3B
CGL90TB_N	8.0	1/4	43	T	HMBP	220-240V 50Hz ~1	CSIR	C - V	203	341	533	780	**842**	**386**	1,95	924	340x425x235	3/8	1/4	18,5	3B
CGL90TG_N	8.0	1/4	43	T	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C - V	193	335	529	775	**836**	**382**	1,94	917	340x425x235	3/8	1/4	18,5	3B
CGP12PB_N	12.0	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	12.0	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C - V	251	448	704	1019	**1097**	**604**	3.02	1199	350x425x270	3/8	1/4	20	3B
CGP12TG_N	12.0	3/8	43	T	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C - V	251	412	671	1030	**1123**	**539**	2.99	1247	350x425x270	3/8	1/4	20	3B
CGP14PB_N	14.0	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	14.0	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C - V	292	498	778	1130	**1217**	**668**	4.01	1334	350x425x270	3/8	1/4	21,5	3B
CGP14TG_M	14.0	3/8	38	-	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C - V	325	530	820	1184	**1275**	**630**	3.92	1395	350x425x270	3/8	1/4	21,5	3B
CGP16TB_N	16	3/8	43	T	HBP	220-240V 50Hz ~1	CSIR	C - V	-	595	890	1270	**1340**	**710**	4,52	1495	365x510x300	3/8	3/8	23	2D
CGPY16RA_N	16.15	3/8	43	T	HBMP	220-240V 50Hz ~1	CSIR	C - V	390	641	945	1360	**1435**	**656**	3,95	1565	365x510x300	3/8	3/8	23,5	2D
CGX18TB_N	18.0	1/2	43	T	HMBP	220-240V 50Hz ~1	CSIR	C - V	385	675	1050	1510	**1622**	**829**	5.13	1771	365x510x300	3/8	3/8	28,5	2C
CGX21TB_N	20.0	5/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C - V	450	759	1178	1707	**1838**	**926**	5.74	2012	450x480x315	3/8	3/8	33	1E
CGX23TB_N	23.0	5/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C - V	492	906	1360	1853	**1967**	**1027**	6.12	2115	450x480x315	3/8	3/8	33	1E
CGS26TB_N	25.0	3/4	43	T	HMBP	220-240V 50Hz ~1	CSIR	C - V	524	989	1542	2182	**2335**	**1125**	6.85	2535	425x510x350	5/8	3/8	36	1B
CGS26TG_M	25.0	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	29.0	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	34.0	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_N2F	34.0	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

R134a HMBP | HBP 60 Hz

MODEL	DISPLACEMENT	POWER	MAX. AMBIENCE TEMP.	T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY W WX 0.86 = KCAL/H W X 3.412 = BTU/H EVAPORATING TEMPERATURE °C								VERSION "3"				DESIGN
													7,2				DIMENSIONS	TUBES			
																		SUCTION	COMPRESSION	WEIGHT	
	cm³	hp							-25	-15	-5	5	W	W inp	A	10	W x L x H mm	Inch	Inch	Kg	
CGD40ME_N	4.0	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	4.0	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	4.0	1/6	43	T	HMBP	200-240/220-230V 50/60Hz ~1	CSIR	C - V	119	207	324	471	507	268	1,45	555	320x425x220	3/8	1/4	14,5	3B
CGL60TE_N	5.0	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	5.0	1/5	43	T	HMBP	200-240/220-230V 50/60Hz ~1	CSIR	C - V	156	270	427	626	676	341	1,56	742	320x425x235	3/8	1/4	17	3B
CGL80PE_N	7.0	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	7.0	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	7.0	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
CGL90TE_N	8.0	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	8.0	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
CGP12TE_N	12.0	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
CGP12TG_N	12.0	3/8	43	T	HMBP	200-220/220-230V 50/60Hz ~1	CSIR	C - V	306	532	827	1190	1279	668	2.99	1397	350x425x270	3/8	1/4	20	3B
CGP14TE_M	14.0	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	14.0	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
CGS26TG_M	25.0	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	POWER	MAX. AMBIENCE TEMP.	T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY W WX 0.86 = KCAL/H W X 3.412 = BTU/H EVAPORATING TEMPERATURE °C								VERSION "3"				DESIGN
													7,2				DIMENSIONS	TUBES			
																		SUCTION	COMPRESSION	WEIGHT	
	cm³	hp							-25	-15	-5	5	W	W inp	A	10	W x L x H mm	Inch	Inch	Kg	
CML40TB_N	4.0	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	4.0	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	5.0	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
CML80TB_N	7.0	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	7.0	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
CML90TB_N	8.0	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	8.0	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	3A
CMP12TB_N	12.0	1/2	43	T	HMBP	220-240V 50Hz ~1	CSR	C - V	581	898	1281	1728	**1835**	**863**	4.01	1976	425x480x350	3/8	3/8	29,8	1F
CMP12TG_N	12.0	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
CMP14TB_N	14.0	1/2	43	T	HMBP	220-240V 50Hz ~1	CSR	C - V	613	972	1389	1863	**1975**	**1003**	4.01	2122	425x500x350	3/8	3/8	29,9	1F
CMX16TB_M	16.0	5/8	38	-	HMBP	220-240V 50Hz ~1	CSR	C - V	730	1160	1623	2121	**2235**	**1202**	5.01	2382	450x480x340	3/8	3/8	30	1C
CMX16TB_N	16.0	5/8	43	T	HMBP	220-240V 50Hz ~1	CSR	C - V	740	1180	1655	2168	**2260**	**1225**	5,08	2480	430x495x350	3/8	3/8	30,5	1C
CMX18TB_M	18.0	7/8	38	-	HMBP	220-240V 50Hz ~1	CSR	C - V	790	1206	1690	2170	**2280**	**1375**	6.01	2450	430x500x350	3/8	3/8	33	1C
CMX21TB_N	20.0	1	43	T	HMBP	220-240V 50Hz ~1	CSR	C - V	847	1265	1798	2445	**2603**	**1384**	6.00	2812	455x500x440	3/8	3/8	36	1C
CMS22TB_N	21.0	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	42	1B
CMS22TB_N2F	21.0	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
CMS18T3_N	18.0	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	21.0	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
CMS26T3_N	25.0	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	25.0	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_N2F	25.0	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	34.0	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	34.0	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_N	34.0	1 5/8	43	T	HBP	220-240V 50Hz ~1	CSR	C - V	1345	2460	3520	4550	**4780**	**2440**	12,10	5170	455x515x440	5/8	3/8	44,5	1B
CMS34TB_M2F	34.0	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

R404A HMBP | HBP 60 Hz

MODEL	DISPLACEMENT	POWER	MAX. AMBIENCE TEMP.	T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY W WX 0.86 = KCAL/H W X 3.412 = BTU/H EVAPORATING TEMPERATURE °C								VERSION "3"				DESIGN
													7,2				DIMENSIONS	TUBES			
																		SUCTION	COMPRESSION	WEIGHT	
	cm³	hp							-25	-15	-5	5	W	W inp	A	10	W x L x H mm	Inch	Inch	Kg	
CML80TG_N	7.0	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	8.0	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	12.0	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	18.0	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	21.0	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	25.0	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	34.0	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

R404A LBP 50 Hz

MODEL	DISPLACEMENT	POWER	MAX. AMBIENCE TEMP.	T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY W WX 0.86 = KCAL/H W X 3.412 = BTU/H EVAPORATING TEMPERATURE °C							VERSION "3"				DESIGN
											-23,3					DIMENSIONS	TUBES			
	cm³	hp							-40	-30	W	W inp	A	-20	-10	W x L x H mm	SUCTION Inch	COMPRESSION Inch	WEIGHT Kg	
CML45FB_N	4.0	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
CML60FB_N	5.0	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
CML80FB_N	8.0	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
CML90FB_N	8.0	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
CMLY80LA_N	8.0	1/4	43	T	LBP	220-240V 50Hz ~1	CSR	C - V	199	313	**422**	**325**	1,85	486	715	325x425x235	3/8	1/4	19,2	3B
CMLY90LA_N	9.0	1/4	43	T	LBP	220-240V 50Hz~1	CSR	C - V	264	357	**480**	**382**	1,96	545	780	340x425x245	3/8	1/4	19,2	3B
CMP12FB_N	12.0	3/8	43	T	LBP	220-240V 50Hz ~1	CSIR	C - V	263	437	**585**	**467**	1.99	670	953	340x425x245	3/8	1/4	22,3	3B
CMP14FB_N	14.0	1/2	43	T	LBP	220-240V 50Hz ~1	CSIR	C - V	280	475	**630**	**567**	2.98	735	1010	340x425x245	3/8	1/4	22,3	3B
CMPT12LA_N	12.0	3/8	43	T	LBP	220-240V 50Hz ~1	CSR	C - V	310	510	**620**	**455**	2,2	715	980	340x425x245	3/8	1/4	22,3	3A
CMPT14LA_N	14.0	1/2	43	T	LBP	220-240V 50Hz~1	CSR	C - V	380	640	**750**	**537**	2.61	820	1095	425x340x270	3/8	3/8	23	3A
CMX18FB_N	18.0	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	2A
CMX21FB_N	20.0	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	2A
CMX23FB_M	23.0	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	25.0	3/4	43	T	LBP	220-240V 50Hz ~1	CSR	C - V	369	986	**1399**	**883**	3.97	1602	2217	425x510x350	1/2	3/8	39	1B
CMS30FB_N	29.0	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	34.0	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	34.0	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	34.0	1	43	T	LBP	220-240V 50Hz ~1	CSR	C - V	826	1210	**1638**	**1209**	5.95	1899	2892	425x530x350	5/8	3/8	39,5	6A

R404A LBP 60 Hz

MODEL	DISPLACEMENT	POWER	MAX. AMBIENCE TEMP.	T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY W WX 0.86 = KCAL/H W X 3.412 = BTU/H EVAPORATING TEMPERATURE °C							VERSION "3"				DESIGN
											-23,3					DIMENSIONS	TUBES			
	cm³	hp							-40	-30	W	W inp	A	-20	-10	W x L x H mm	SUCTION Inch	COMPRESSION Inch	WEIGHT Kg	
CMP14FE_N	14.0	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	34.0	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

R22 HMBP 50 Hz

MODEL	DISPLACEMENT	POWER	MAX. AMBIENCE TEMP.	T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY W WX 0.86 = KCAL/H W X 3.412 = BTU/H EVAPORATING TEMPERATURE °C								VERSION "3" DIMENSIONS	TUBES SUCTION	TUBES COMPRESSION	WEIGHT	DESIGN
													7,2				W x L x H				
	cm³	hp							-25	-15	-5	5	W	W inp	A	10	mm	Inch	Inch	Kg	
CL40TN_M	4.0	1/6	38	-	HMBP	220-240V 50Hz ~1	CSIR	C - V	164	260	396	570	613	296	1.0	671	325x425x235	3/8	1/4	21	3B
CL45TN_M	4.0	1/5	38	-	HMBP	220-240V 50Hz ~1	CSIR	C - V	171	280	427	610	655	325	1.0	716	325x425x235	3/8	1/4	21	3B
CL57TN_M	5.0	1/4	38	-	HMBP	220-240V 50Hz ~1	CSIR	C - V	205	341	519	739	793	394	2.02	865	325x425x235	3/8	1/4	22	3B
CL76TN_M	7.0	3/8	38	-	HMBP	220-240V 50Hz ~1	CSIR	C - V	326	469	689	986	1062	522	3.02	1163	340x425x270	3/8	1/4	23	3B
CL88TN_M	8.0	3/8	38	-	HMBP	220-240V 50Hz ~1	CSIR	C - V	348	544	816	1163	1250	620	2.99	1365	350x425x270	3/8	3/8	24	3B
CP12TN_M	12.0	1/2	38	-	HMBP	220-240V 50Hz ~1	CSR	C - V	422	709	1101	1597	1721	714	3.02	1885	355x510x300	3/8	3/8	27	2B
CX18TN_M	18,0	3/4	38	-	HBP	200-220V 50Hz ~1	CSR	C - V	-	1045	1560	2172	2305	1080	5,1	2491	450x530x340	3/8	3/8	40	1C
CS22TN_M	21.0	7/8	38	-	HMBP	220-240V 50Hz ~1	CSR	C - V	692	1255	1906	2644	2818	1226	6.03	3046	425x530x350	5/8	3/8	44	1B
CS26TN_M	25.0	1	38	-	HMBP	220-240V 50Hz ~1	CSR	C - V	934	1531	2210	2969	3147	1667	8.02	3379	430x530x350	5/8	3/8	44	1B

R290 HMBP 50 Hz

MODEL	DISPLACEMENT	POWER	MAX. AMBIENCE TEMP.	T = TROPICALIZED	APPLICATION	VOLTAGE FREQUENCY	MOTOR	EXPANSION	REFRIGERATION CAPACITY W WX 0.86 = KCAL/H W X 3.412 = BTU/H EVAPORATING TEMPERATURE °C								VERSION "3" DIMENSIONS	TUBES SUCTION	TUBES COMPRESSION	WEIGHT	DESIGN
													7,2				W x L x H				
	cm³	hp							-25	-15	-5	5	W	W inp	A	10	mm	Inch	Inch	Kg	
CNL90TB_N	9.0	3/8	43	T	HMBP	220-240V 50Hz ~1	CSIR	C - V	330	473	688	963	1047	553	2.21	1148	350x425x270	3/8	3/8	24	3B

R134a 12-42V$_{DC}$ LBP / MBP / HBP

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" DIMENSIONS	TUBES SUCTION	TUBES COMPRESSION	WEIGHT	DESIGN
										-23,3							W x L x H				
	cm³	hp						rpm	-30	W	W inp	A	-15	-5	5	10	mm	Inch	Inch	Kg	
CGD30FDC	3.0	1/10	43	T	LBP / MBP / HBP	12 - 42 V DC	12V DC	1500	28	41	27	2,23	63	102	155	186	170x265x170	5/8" 18 UNF male	5/8" 18 UNF female	8	5A
								2167	40	55	40	3,31	87	135	195	233					
								2833	48	68	54	4,53	108	166	-	-					
								3500	56	85	71	5,93	134	-	-	-					

1a | DESIGNATION

C	+	MS34TB	+	1 2 3 4	+	M= 38°C N= 43°C	+	(2F)	+	(P)	=	CMS34TB3M2F CGS26TB3NP CML90FB2N
Condensing Unit		Compressores Model name		Version (see table Ib)		Max. Amb. Temp.		Two Fans (Optional)		hp/lp pres-sostate (Optional in v.3)		Some Examples

1b | VERSION

VERSION "1"	VERSION "2"	VERSION "3"	VERSION "3P"	VERSION "4"
Basic equipment to be directly connected by soldering, to the tubes of the condenser. Applicable to systems with capillary expansion device.	Equipped with service valves in order to facilitate the connection and installation.	Equipped with service valves and liquid receiver. Applicable to systems with expansion valve.	Version "3" additionally equipped with a hp/lp pressostate.	Version "I" additionally equipped with a schrader valve on the refrigerant charging.

Optional accessories upon request: Sight Glass and Filter-Dryer

Sight Glass	Filter Dryer	Pressure Control	Schrader Valve	Service Valve
				

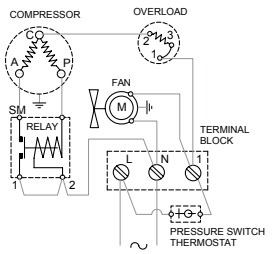
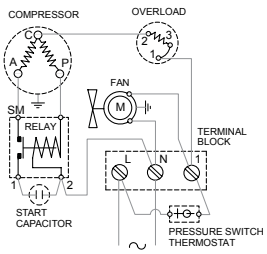
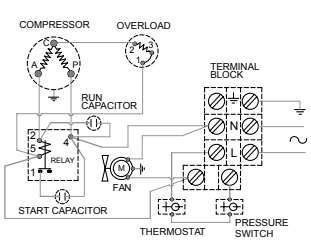
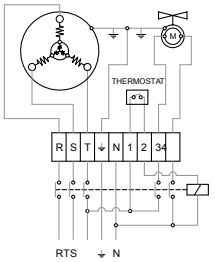
2 | TEST CONDITIONS

	HMBP I HBP	LBP
Ambient and return gas temperature	35 °C	32 °C
Liquid temperature entering expansion valve	Subcooles to condenser limits	
Testing voltage equals the lowest value of the rated voltage range		

3 | RATING CONDITIONS

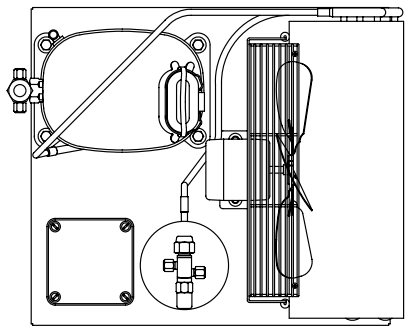
	HMBP I HBP	LBP
Evaporating Temperature	7.2 °C	-23.3 °C

4 | WIRING DIAGRAMS

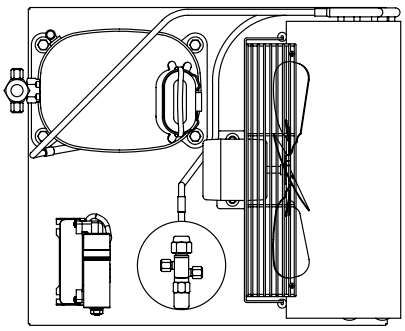
RSIR	CSIR	CSR	3PH
			

For any further information about Condensing Unit, please enter **cubigel.com** for available data sheet

1A



1B



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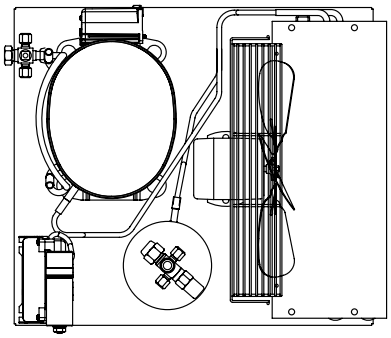

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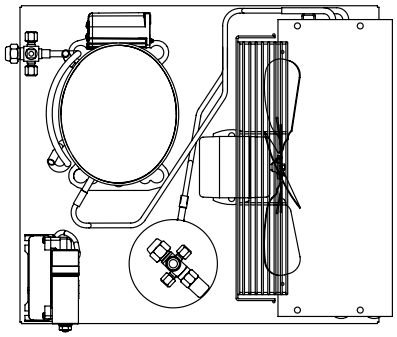

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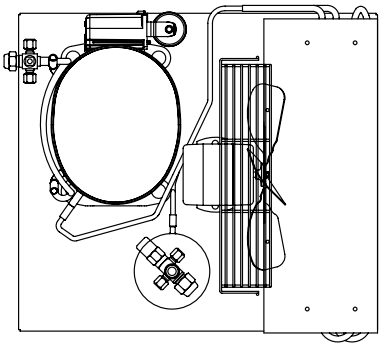

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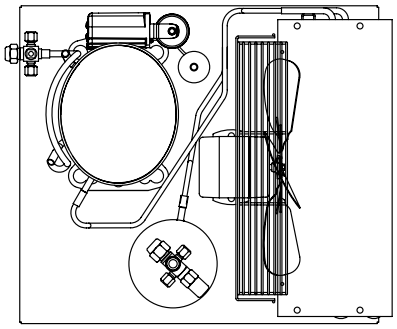
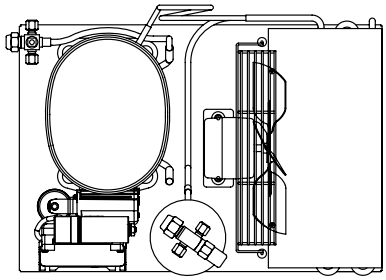
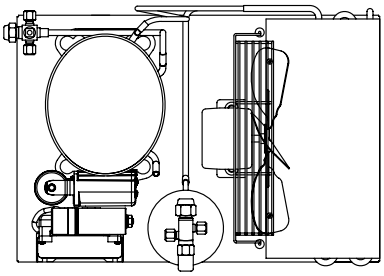


2A



2B



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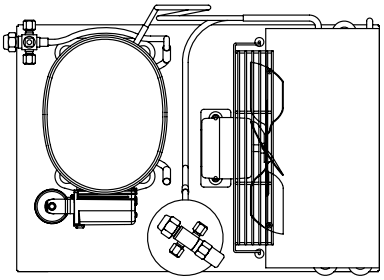

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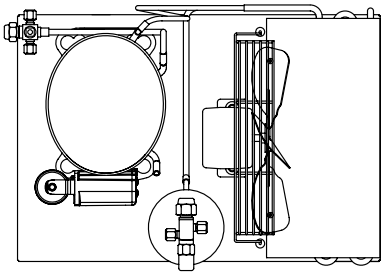

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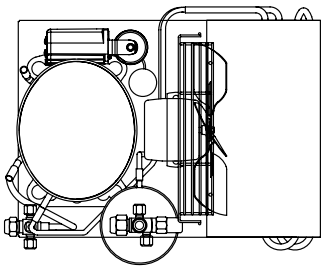

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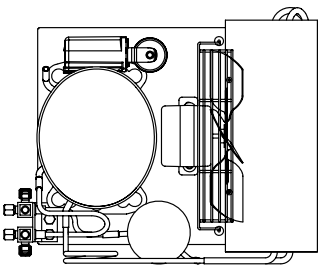

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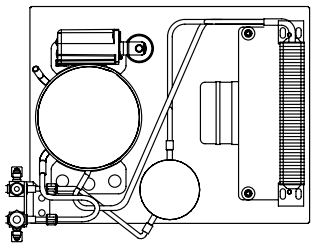

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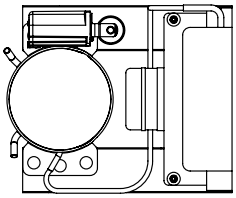

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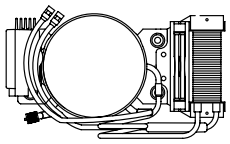

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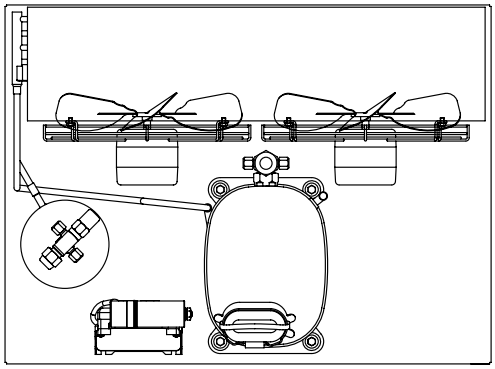

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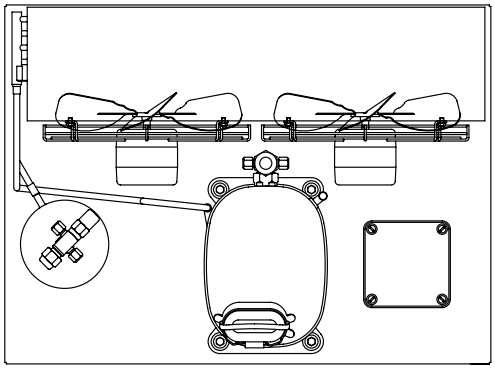

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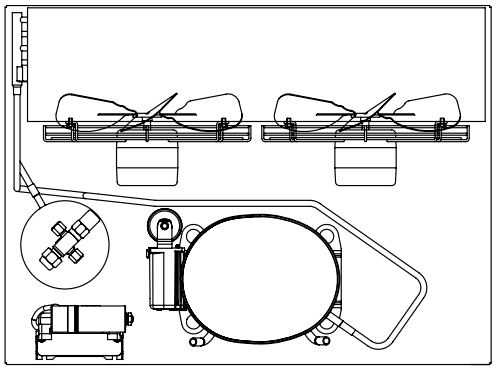

notes

notes

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