

Embraco Compressors Portfolio

Asia Pacific



think ahead

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Nidec

Table of Contents

04	About Nidec Global Appliance
05	Digital Tools
07	Nomenclature
09	Application Guide
21	Technical Information
30	Compressors 100V 50/60Hz
38	Compressors 115V 60Hz
48	Compressors 200-220V 50Hz 230V 60Hz
54	Compressors 208-230V 60Hz
62	Compressors 220-240V 50Hz
76	Compressors 220-240V 50-60Hz
80	Compressors Tri Phase
86	Variable-Speed Compressors
99	Operation Envelope Per Family
100	Electrical Configuration
117	Recommendations



We are Nidec Global Appliance

A global partner for home and commercial refrigeration industries

With over 9,700 employees and 14 units across 9 countries, Nidec Global Appliance manufactures and commercializes solutions for commercial and residential appliances. Its portfolio includes Embraco's complete range of solutions for the refrigeration industry, Nidec motors for residential washing machines, dryers and dishwashers, and FIR motors and pumps for food service, commercial washing machines and medical applications. Nidec Global Appliance is a platform of ACIM (Appliance, Commercial and Industrial Motors), a business unit of Nidec Corporation.

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Over 50 years
raising the bar
of refrigeration

think ahead

Since 1971 Embraco has been responsible for shaping refrigeration market trends by bringing solutions beyond the compressor for the residential and commercial cold chain. A pioneer in fostering the development of variable speed and the use of natural refrigerants over the years, the brand delivers innovation driven by the Think Ahead positioning, which means focusing on the future's needs to transform the refrigeration segment and make its customers' lives easier. Embraco counts on a broad and competitive portfolio for food service, food retail, merchandisers, and medical applications, including complete, synchronized and integrated solutions, which combines efficiency and data intelligence.



Home Appliances
Products for residential freezers, refrigerators and mini-fridges.



Commercial Appliances
Compressors and cooling solutions for commercial applications, such as bottle coolers, chest freezers, reach-ins, ice machines, medical refrigerators, etc.



Aftermarket
Parts distribution, replacement and retail focused on retail owners, installers and contractors.

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Digital Tools



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toolboxapp



Available in all countries and in more than 10 languages, the Embraco Tool Box has 7 functionalities which help refrigeration professionals on their daily routine. **Download the App now for Android and iOS systems.**

Find inside:

- Cross-reference
- Product catalogue
- Distributor locator
- Unit converter
- Refrigerant slider
- Refrigeration club
- Troubleshooting



PSS

Product Software Selector

Choose the best solution for your business at Embraco's official portfolio platform. **Access:** products.embraco.com



Embraco website in 11 languages
www.embraco.com

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FIXED-SPEED COMPRESSOR

EM



Bottle coolers, ice cream freezers, household replacement, water coolers and vending machines. Up to 1/2 HP.

EG



Household replacement and light commercial applications, horizontal freezers, reach ins, vending machines. Up to 1/3+ HP.

EH



Professional kitchens, bottle coolers, under counters, professional reach Ins. 1/2 HP to 3/4 HP.

F



Light commercial applications, horizontal freezers, reach ins, vending machines. Up to 1/2 HP.

NE



Frozen food islands, professional kitchen upright coolers and freezers, display cases, ultra low temperature freezers. 1/2 to 1 HP.

NJ



Air curtain reach ins, ice machines, cold rooms, blast chillers. 1 to 2 HP.

NT



Professional kitchens upright coolers and freezers, air curtain reach ins, beer dispensers, ice machines, cold room, ultra low temperature freezers. 3/4 to 1 1/2 HP.

VARIABLE-SPEED COMPRESSOR

VEM
VEH



Refrigerators and freezers, wine cooler, beverage coolers, chest freezer, medical cooler. Up to 1 HP.

VNE



Reach Ins, medical and general professional kitchens. 1/2 to 1 HP.

VEG



Refrigerators and freezers, wine cooler, beverage coolers, chest freezer, medical cooler. Up to 1/3+ HP.

VES



Refrigerators and freezers, wine cooler, beverage coolers, chest freezer, medical cooler. Up to 1/3+ HP.

FMX



Refrigerators and freezers, wine cooler, beverage coolers, chest freezer, medical cooler. Up to 1/4 HP.

FMF



Upright reach ins, beer dispenser, frozen food islands, ultra low temperature freezers. Up to 1 HP.

FMS



Bottle coolers, under counter, horizontal freezers, household refrigerators. Up to 1 HP.

Nomenclature Brazil Line

EM

EM | S | 70 | H | H | R

COMPRESSOR FAMILY
EM

PRODUCT GENERATION
☐ - Standard Generation
I - 1st Generation
T - 2nd Generation
U - 3rd Generation
Y - 4th Generation
Z - 5th Generation
X - 6th Generation

MECHANICAL KIT
S - Standard mechanical kit
☐ - Not standard

COMPRESSOR CAPACITY
In Btu/h - 60Hz - ASHRAE
Checkpoint divided by 10

REFRIGERANT CODE
☐ - Blends
C - R600a
H - R134a
U - R290
L - R1234yf

EFFICIENCY LEVEL
N - Standard efficiency (LBP)
J - Intermediate efficiency (LBP)
E - Efficiency improved 1st generation (LBP)
S - Efficiency improved 2nd generation (LBP)
H - Standard efficiency (L/M/HBP)
D - Standard efficiency (HBP)
B - Standard efficiency (M/HBP)
L - Efficiency improved 2nd generation (LBP)

ELECTRICAL COMPONENT	
P - PTC + run. cap. (optional)	LST
R - Relay	
C - PTC + start. cap. (mandatory)	
X - Relay + cap. part. (mandatory)	
	HST

F

F | F | U | S | 130 | H | A | X

COMPRESSOR FAMILY
F/EG

ELECTRICAL SYSTEM
F - Relay/Overload protector
Start capacitor (optional)

PRODUCT GENERATION
☐ - Standard efficiency
I - Improved efficiency 1st generation
U - Improved efficiency 2nd generation (for commercial refrigeration)

STANDARD PLATFORM

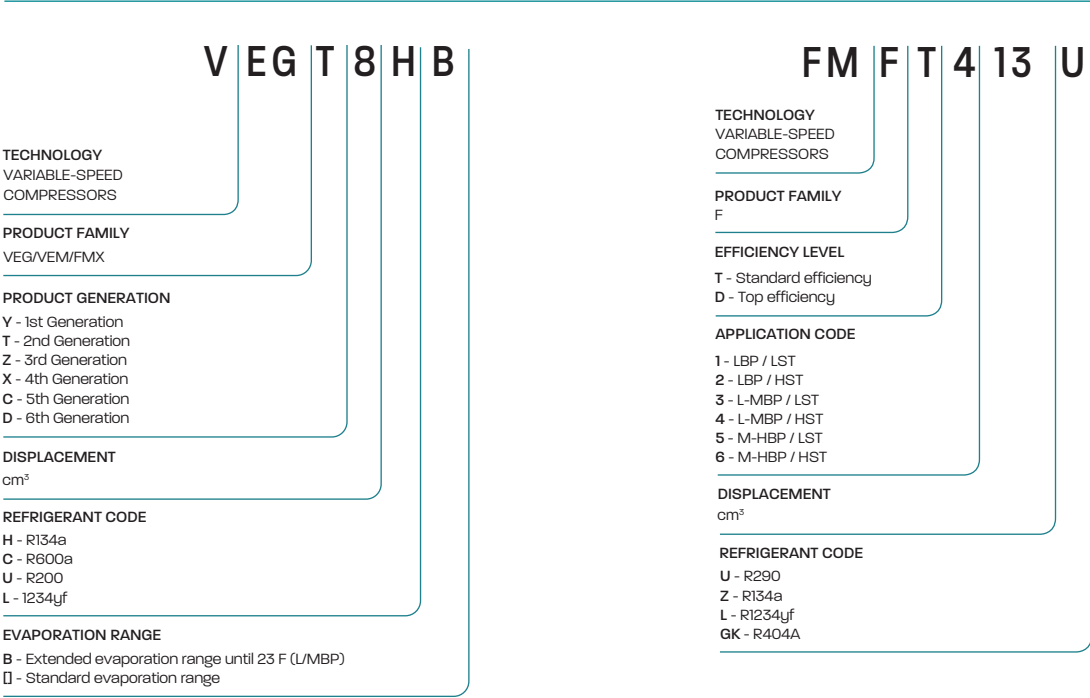
COMPRESSOR CAPACITY
Approximate capacity in Btu/h - 60 Hz
ASHRAE - Checkpoint divided by 10
(for compressor FG, FFU and FFC)

REFRIGERANT CODE
H - R134a
U - R290
L - R1234yf

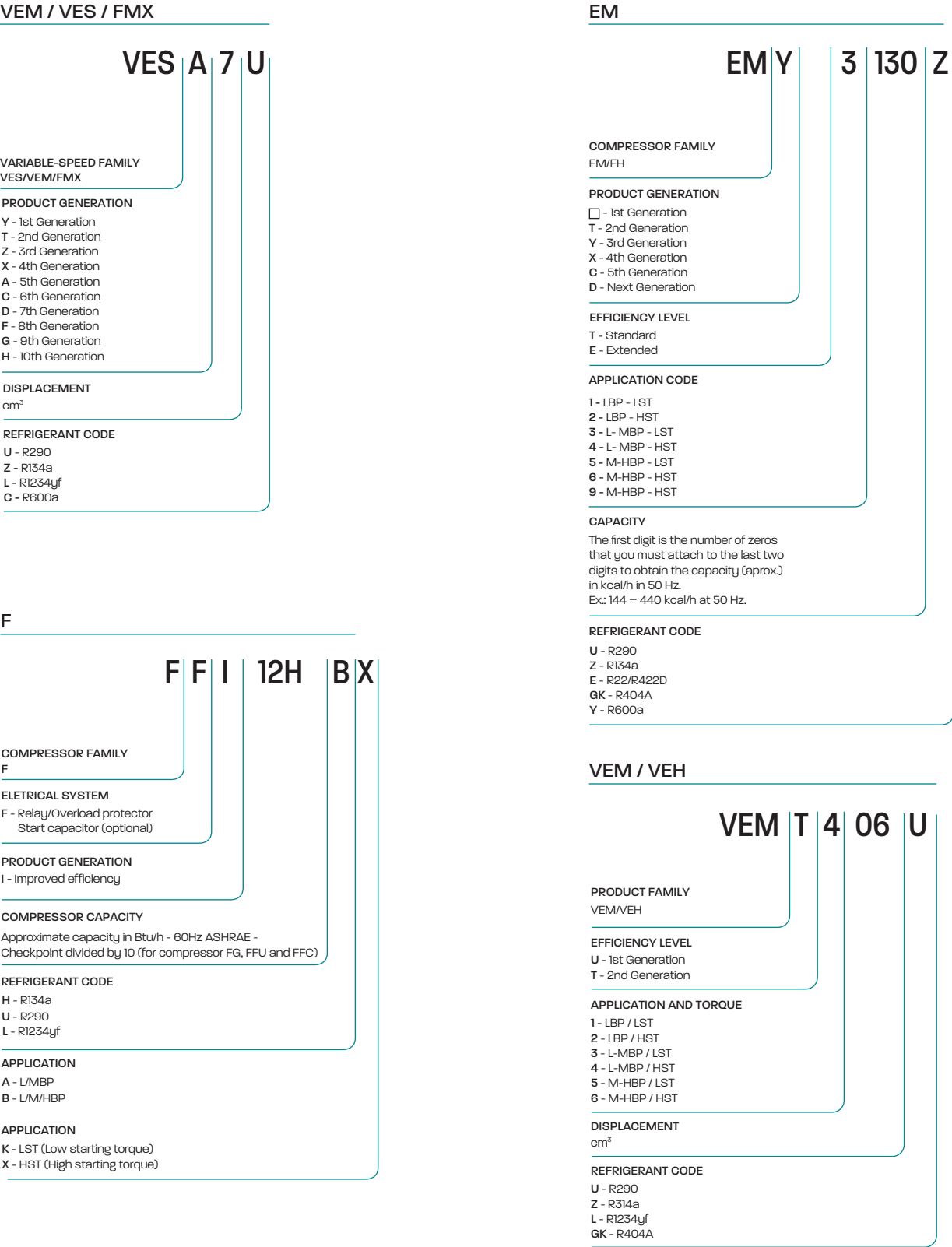
APPLICATION
A - L/MBP
B - L/M/HBP

STARTING TORQUE
K - LST (Low starting torque)
X - HST (High starting torque)

Nomenclature Brazil Line

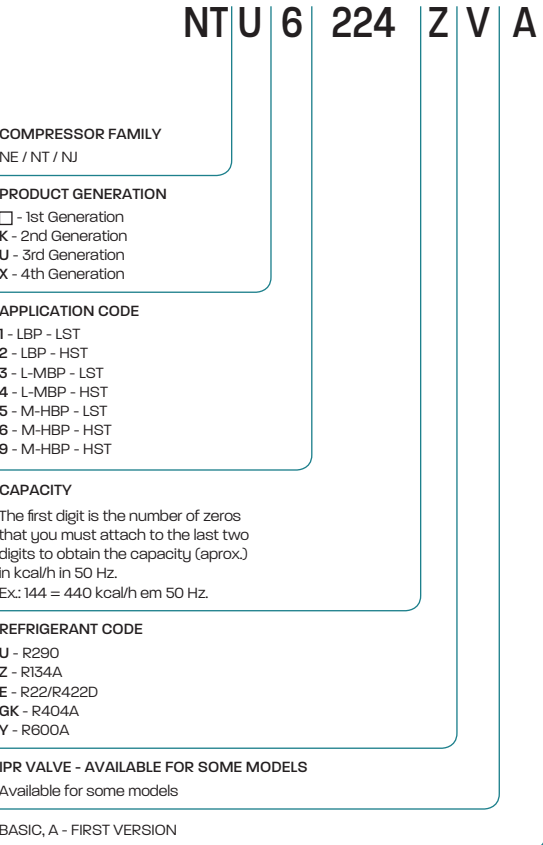


Nomenclature China Line

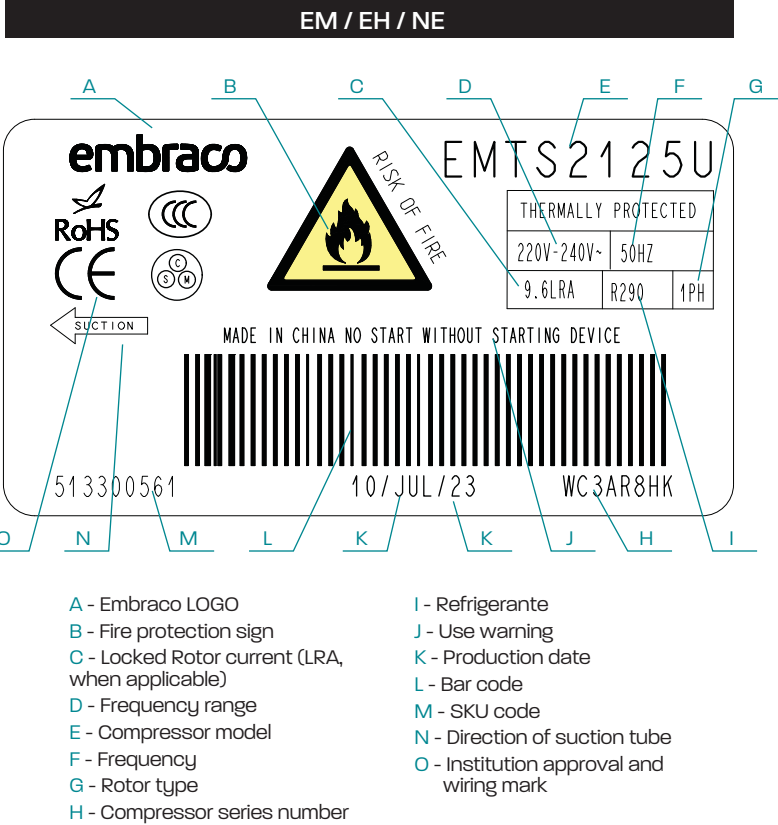
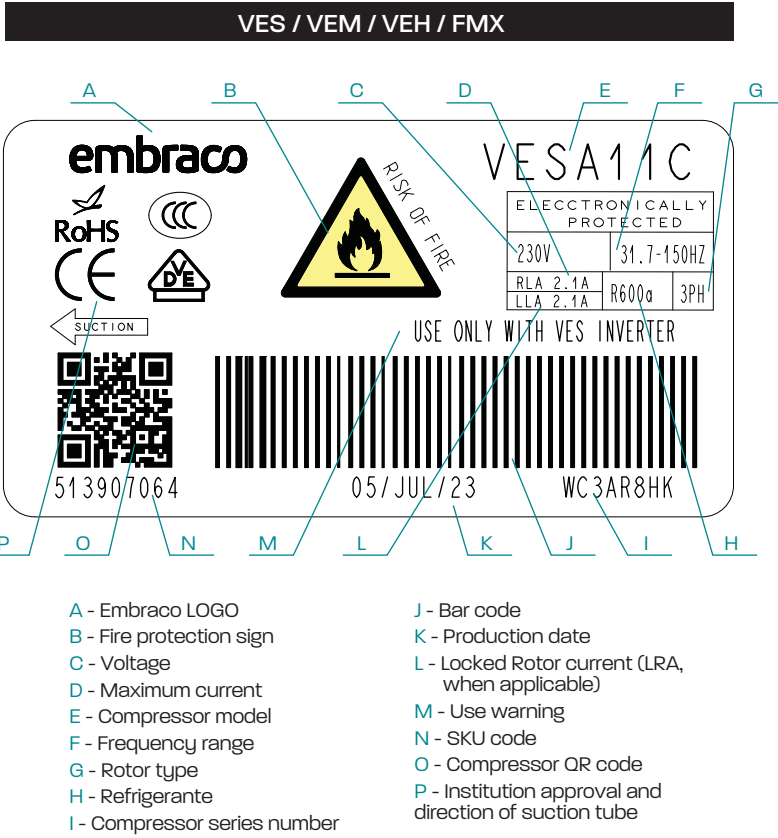
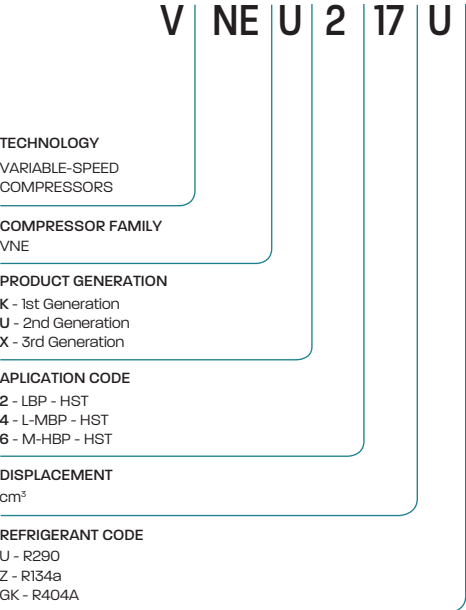


Nomenclature Europe Line

EM / NE / NT / NJ



Nomenclature Europe Variable-Speed Line



Application Guide

Our products are classified into four main application groups in the light commercial refrigeration: merchandisers, supermarkets, professional kitchens and household refrigeration. Below you will find the portfolio for each application and relevant technical information.

Merchandisers



Supermarkets



Professional Kitchens



Household Refrigeration

Disclaimer: this chapter indicates the most used compressors for each application, in order to make your product selection process easier and faster. However it does not intend to assure that the specific compressor will fit any application in the same cluster worldwide, because there are several specific approval standards as well as different product designs.

Merchandisers

Glass Door Horizontal Freezers



System	Characteristics
Evaporation Temperature	-30 °C
Internal Cabinet Temperature	-18 °C
Ambient Temperature	32 °C
Relative Humidity	40-70 %
Application	LBP / LST

COMPRESSORS 50Hz	
Size (Liters)	R290 (Refrigerant)
300 to 360	EM2X3117U
380 to 420	EM2X3121U
430 to 500	EM2X3125U
500 to 600	EMX3134U

Glass Door Upright Freezers



System	Characteristics
Evaporation Temperature	-30 °C
Internal Cabinet Temperature	-18 °C
Ambient Temperature	35 °C
Relative Humidity	40-75 %
Application	LBP / HST

COMPRESSORS 50Hz	
Size (Liters)	R290 (Refrigerant)
300 to 400	EHU2155U

Meat Display Case



System	Characteristics
Evaporation Temperature	-10 °C
Internal Cabinet Temperature	0 °C to 7 °C
Ambient Temperature	32 °C
Relative Humidity	40-70 %
Application	M/HBP

COMPRESSORS 50Hz		
Size (Liters)	R-134a (Refrigerant)	R404A (Refrigerant)
1	FFI12HBX	-
2	FFU160HAX	NEU6215GK
3	NEU6214Z / NT6215Z / NE6217Z	-
4	-	NT6222GK / NT6220GK

Bakery Display Case



System	Characteristics
Evaporation Temperature	-10 °C to -5 °C
Internal Cabinet Temperature	5 °C to 12 °C
Ambient Temperature	32 °C
Relative Humidity	40-70 %
Application	MBP / LST

COMPRESSORS 50Hz	
Size (Liters)	R-134a (Refrigerant)
1	EMI60HER
2	FFUS100HAK
3	FFUS130HAX / FFU130HAK

Upright Air Curtain Cooler



System	Characteristics
Evaporation Temperature	-10 °C
Internal Cabinet Temperature	-5 °C
Ambient Temperature	25 °C
Relative Humidity	40-75 %
Application	MBP / LST

COMPRESSORS 50Hz		
Size (Liters)	R-134a (Refrigerant)	R404A (Refrigerant)
1	NT6217Z	NEU6215GK
2	-	NT6222GK / NT6220GK

Merchandisers

Upright Glass Door Bottle Coolers



System	Characteristics
Evaporation Temperature	-10 °C
Internal Cabinet Temperature	5 °C
Ambient Temperature	40,5 °C
Relative Humidity	40-75 %
Application	MBP / LST

COMPRESSORS 50Hz	
Size (Liters)	R290 (Refrigerant)
300	EM2X3117U
400	EM2X3121U
500 to 600	EM2X3125U
1000	EMX3134U

System	Characteristics
Evaporation Temperature	-15 °C
Internal Cabinet Temperature	-4 °C
Ambient Temperature	32 °C
Relative Humidity	40-75 %
Application	L / MBP / LST

COMPRESSORS 50Hz	
Size (Liters)	R290 (Refrigerant)
300	EM2X3117U
400 to 500	EM2X3121U
500 to 600	EM2X3125U

Vending Machines



Supermarkets

Reach in with Doors



System	Characteristics
Evaporation Temperature	-10 °C to -5 °C
Internal Cabinet Temperature	0 °C to 10 °C
Ambient Temperature	32 °C
Relative Humidity	40-75 %
Application	MBP / LST

COMPRESSORS 50Hz	
Size (Liters)	R290
350 to 500	EM2X3125U
500 to 700	EHU6214U

Frozen Food Island



System	Characteristics
Evaporation Temperature	-30 °C
Internal Cabinet Temperature	-20 °C to -15 °C
Ambient Temperature	32 °C
Relative Humidity	40-70 %
Application	LBP / LST

COMPRESSORS 50Hz		
Length (m)	R404A (Refrigerant)	R290 (Refrigerant)
1.5m	NEU2155GK	EHU2155U
1.8m	NEU2168GK	EHU2155U

Professional Kitchen

Reach In Freezer and Refrigerator



System	Characteristics
Evaporation Temperature	-15 to -5 °C
Internal Cabinet Temperature	0 to 10 °C
Ambient Temperature	32 °C
Relative Humidity	40-70 %
Application	MBP

COMPRESSORS 50Hz	
Size (Liters)	R290
300 to 500	EM2X3117U
500	EM2X3121U

System	Characteristics
Evaporation Temperature	-30 °C
Internal Cabinet Temperature	-18 °C
Ambient Temperature	32 °C
Relative Humidity	40-70 %
Application	LBP

COMPRESSORS 50Hz	
Size (Liters)	R290 (Refrigerant)
125 to 175	EM2X3117U
175 to 275	EM2X3121U

Professional Kitchen

Undercounter and Prep Table



System	Characteristics
Evaporation Temperature	-15 to -5 °C
Internal Cabinet Temperature	0 to 10 °C
Ambient Temperature	32 °C
Relative Humidity	40-70 %
Application	MBP

System	Characteristics
Evaporation Temperature	-30 °C
Internal Cabinet Temperature	-18 °C
Ambient Temperature	32 °C
Relative Humidity	40-70 %
Application	LBP

COMPRESSORS 50Hz		
Size (Liters)	R-134a (Refrigerant)	R290
≤300	FFU70HAK	EM2X3113U
300 - 500	FFUS70HAK	EM2X3117U
500	FFUS100HAK	EM2X3121U

COMPRESSORS 50Hz			
Size (Liters)	R-134a (Refrigerant)	R404A (Refrigerant)	R290 (Refrigerant)
≤120	FFUS100HAK	-	EM2X3113U
120 - 175	FFI12HBX	-	EM2X3117U
175 - 275	FFU160HAX	-	EM2X3121U
275 - 350	NEU2140Z	NEU2155GK / NEK2168GK	-
350 - 500	-	NEU2178GK / NT2178GK	-
500 - 700	-	EM2X3117U	-

Household Applications

Household Refrigerator 1 Door



System	Characteristics
Evaporation Temperature	-30 °C
Internal Cabinet Temperature	5 °C
Ambient Temperature	32 °C
Relative Humidity	40-70 %
Freezer Temperature	-18 °C
Application	LBP / LST

COMPRESSORS 50Hz		
Size (Liters)	R-134a (Refrigerant)	R600a (Refrigerant)
50 - 100	EMIS30HHR	-
101 - 200	EMI45HER	EMU40CLP
201 - 300	EMI60HER	EMU60CLP
301 - 350	EMI70HER/EMIS70HHR	EMYe70CLP

System	Characteristics
Evaporation Temperature	-15 °C
Internal Cabinet Temperature	-4 °C
Ambient Temperature	32 °C
Relative Humidity	40-75 %
Application	L / MBP / LST

COMPRESSORS 50Hz		
Size (Liters)	R-134a (Refrigerant)	R600a (Refrigerant)
250 - 310	EMI60HER	EMU60CLP
311 - 370	EMI70HER/EMI70HHR	EMYe70CLP
371 - 510	EGAS80HLR	EGAS80CLP/EM2U80CLP
511 - 580	FFUS100HAK/EGAS100HLR	EGAS100CLP

Technical Information

Applications

Application	Evaporating Temperature °C (°F)	Applications
LBP (Low Back Pressure)	Between -45/-35 (-49/-31) and -10 (14)	Household refrigerators, frozen food islands, ice cream freezers
MPB (Medium Back Pressure)	Between -15 (5) and 0 (32)	Displays cases, reach in coolers, bottle coolers
HBP (High Back Pressure)	Between 0 (32) and 15 (59)	Refrigerated wine houses, Water coolers, air dehumidifiers

Test Conditions

Test Conditions	Applications	Evaporation Temperature °C / °F	Condensing Temperature °C / °F	Gas Return Temperature °C / °F	Subcooling K/OR	Ambient Temperature °C / °F
ASHRAE	LBP	-23.3 / 10	54.4 / 130	32.2 / 90	22.2 / 40	32.2 / 90
	M/HBP	7.2 / 45	54.4 / 130	35 / 95	8.3 / 15	35 / 95
ARI	LBP	-23.3 / 10	48.9 / 120	4.4 / 40	0	35 / 95
	MBP	-6.7 / 20	48.9 / 120	4.4 / 40	0	35 / 95
	HBP	7.2 / 45	54.4 / 130	18.3 / 65	0	35 / 95
EN12900	LBP	-35	40	20	40 / 72	35
	MBP	-10	45	20	45 / 81	35
	HBP	5	50	20	5 / 90	35

Cooling Type

Static	Compressor approved for static cooling not requiring a fan motor on the condenser side.
Fan	Compressor approved for fan cooling requiring forced cooling with a fan motor on the condenser side.

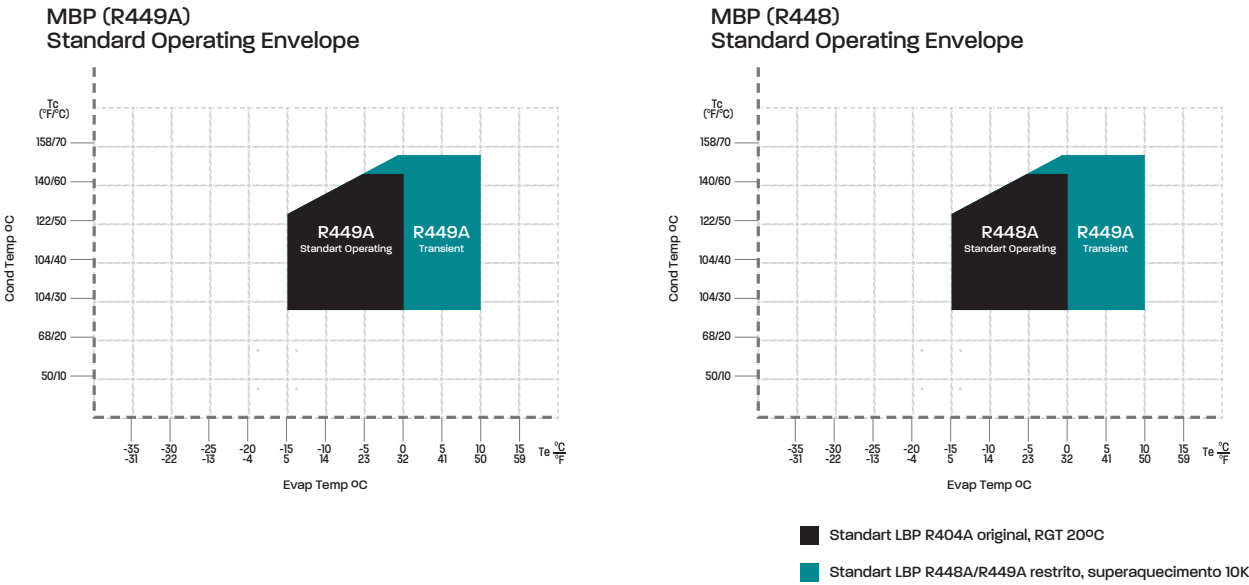
Motor Torque

LST	LOW STARTING TORQUE Compressor with RSIR-RSCR-PSC electrical motor for systems with capillary tube and with equalized pressures at start up.
HST	HIGH STARTING TORQUE Compressor with CSIR-CSR or 3 phase electrical motor for systems with equalized or not equalized pressures at start up

Blends Approved by Embraco Replacing R12

REFRIGERANTS	
ASHRAE	Nome comercial
R-401a	SUVA® MP39
R-401b	SUVA® MP66
R-409b	FORANE® FX56
R-413a	ISCEON 49

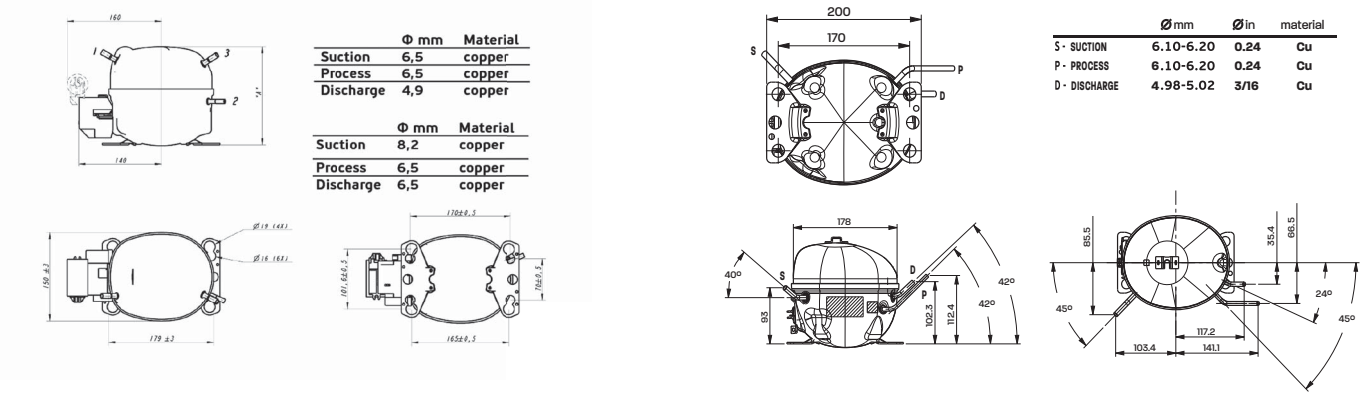
Embraco already approved R452A for NEU, NT, NJ compressor series as an alternative refrigerant for both LBP (low back pressure) and MBP (medium back pressure) applications maintaining the original R404A operating envelope. Embraco approves R449A and R448A as an alternative refrigerant for Embraco R404A compressor series NEU, NT, NJ only for MBP application with limited operating envelope as below.



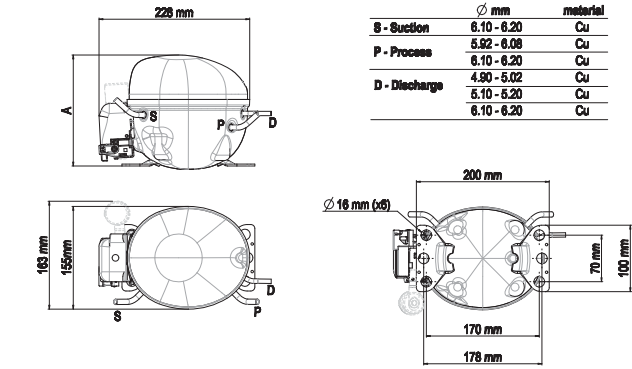
UNITS CONVERSION TABLE			
	BTU	W	kcal/h
1 BTU	-	0,293	0,252
1 W	3,412	-	0,86
1 kcal/h	3,966	1,162	-

External Views

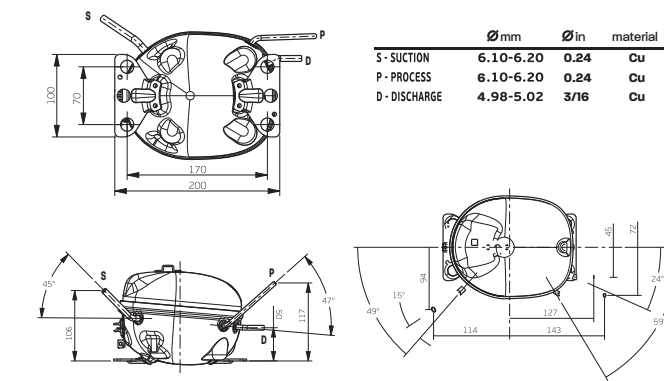
DWG 1 - EM / VEM SERIES UNIVERSAL BASE PLATE



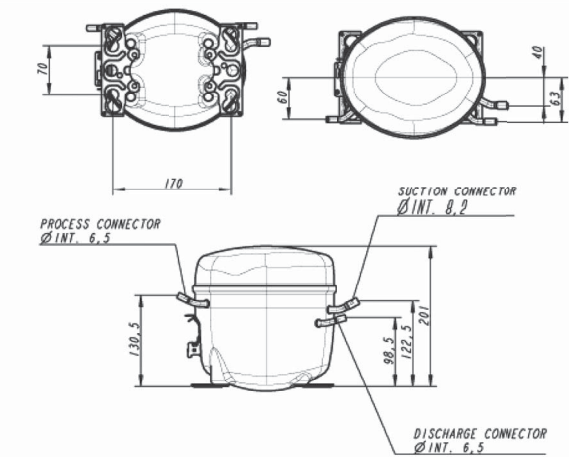
DWG 2 - EM SERIES EUROPEAN BASE PLATE



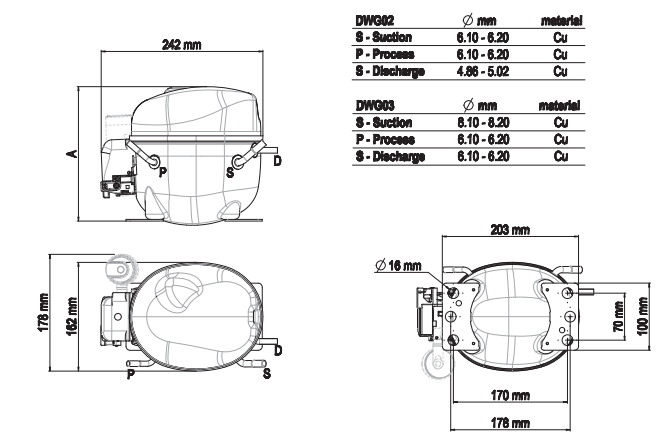
DWG 3 - VES SERIES



DWG 4 - EG / F / VEG SERIES UNIVERSAL BASE PLATE

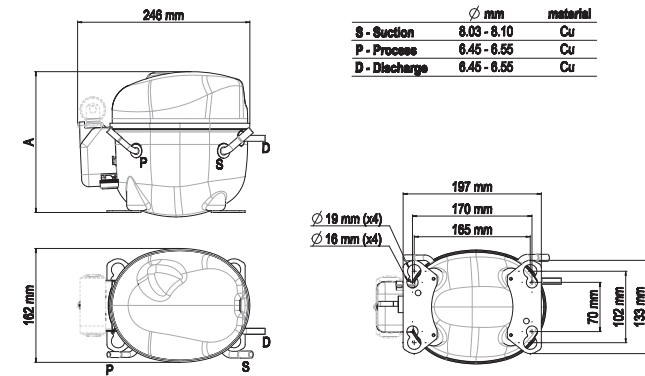


DWG 5 - NB / NE SERIES EUROPEAN BASE PLATE

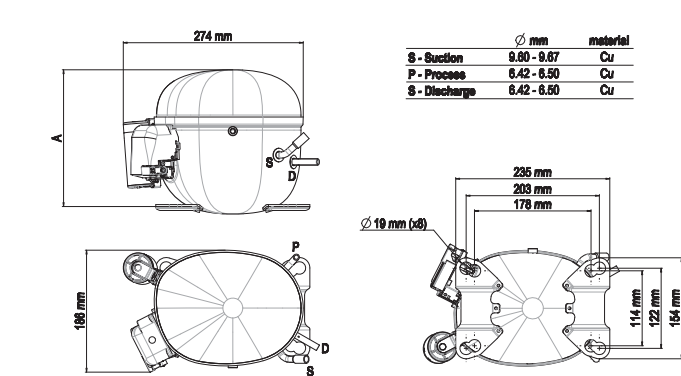


External Views

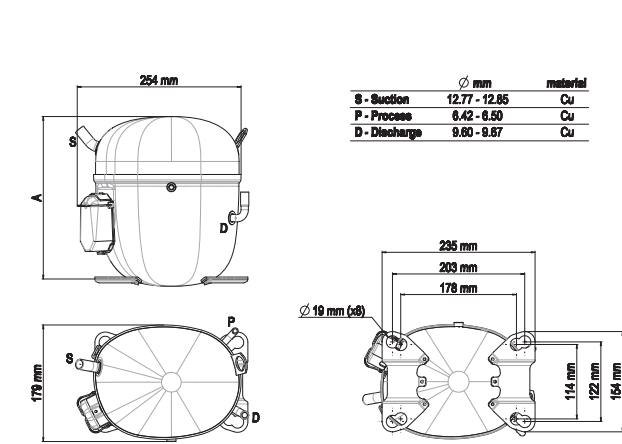
DWG 6 - NE / VNE SERIES UNIVERSAL BASE PLATE



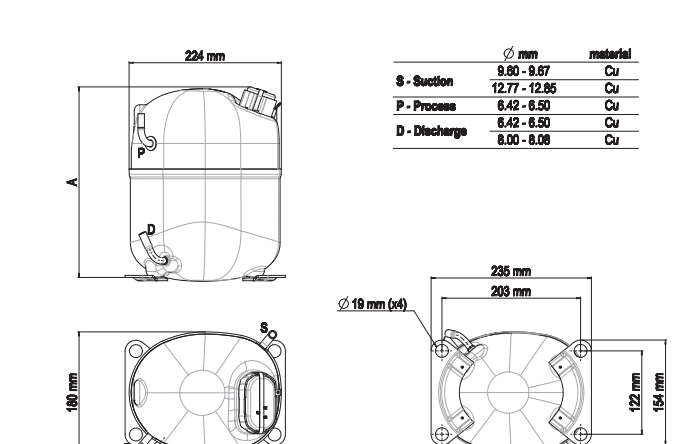
DWG 7 - NT SERIES UNIVERSAL BASE PLATE



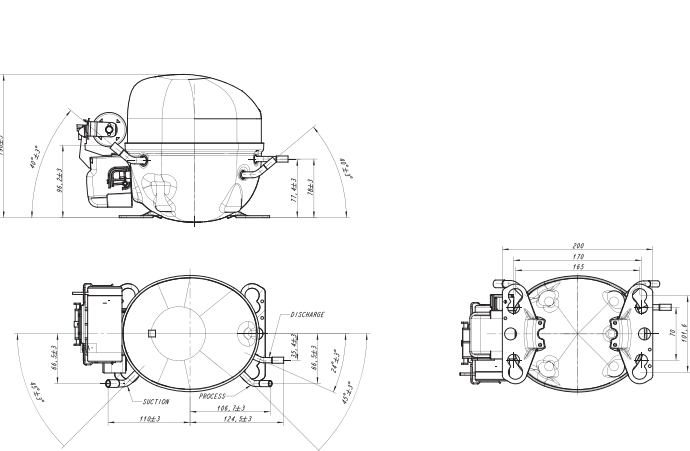
DWG 8 - NTU SERIES UNIVERSAL BASE PLATE



DWG 9 - NJ SERIES UNIVERSAL BASE PLATE



DWG 10 - EH SERIES



Compressor Packaging

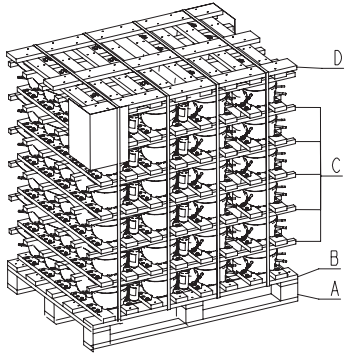
Multiple Packaging

This type of package consists of a shipping skid of 835 mm x 1150 mm on which are positioned the elements composing the packaging of various compressor layers, as listed below, secured with straps to the shipping skid.

Pallet packages composition

A	SHIPPING SKID	on which the base is positioned
B	BASE	on which the first layer of compressors is positioned
C	SEPARATOR SKID	are positioned between layers, in quantities according to the compressor series
D	TOP SKID	upper element closing of the package

Multiple wooden package



Characteristics of multiple wooden packaging

Compressor	Size of Pallets (CM)	QUANTITY PER PALLET (ASSEMBLED ELECTRICALS)	QUANTITY PER CONTAINER (ASSEMBLED ELECTRICALS)	QUANTITY PER PALLET (UNASSEMBLED ELECTRICALS)	QUANTITY PER CONTAINER (UNASSEMBLED ELECTRICALS)
EM (CN)	113*83*113	100	2800	100	250
EH	113*83*113	80	2240	80	2000
VES	113*83*113	96	2688	96	2400
VES	113*97*113	120	2880	120	2640
FMX	113*83*113	96	2668	96	2400
FMX	113*97*113	120	2880	120	2640
VEM	113*83*113	100	2500	100	2500
NE	113*83*113	80	2250	80	2000

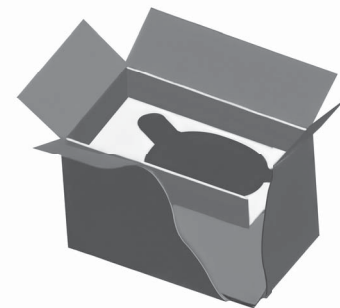
20'container can loading 28 pallets 113*83*113,or 24 pallets 113*97*113;
The final loading pallets in one 20'container is different according to different compressor accessory BOM/imported country policy/weight/type of shipping

Single Packaging

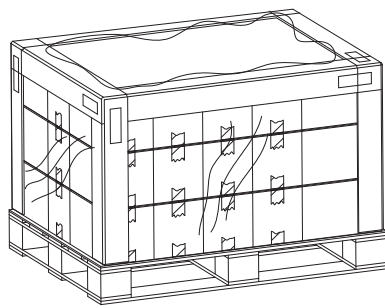
This type of package consists of a carton box and an internal separator to prevent any compressor movement. The electrical components and accessories are included in the package (assembled or attached).

Complete pallet package consists of a shipping skid of 830 mm x 1130 mm on which are placed carton boxes with compressors secured with corner strip and straps. Number of layers depends on compressor families.

Carton box for single package



Single compressor pallet package



Characteristics of complete single package

Series	QUANTITY PER PALLET	CODE	PACKAGING TYPE	ELECTRICAL COMPONENTS	NOTE
NE	56	A	4 layers of 14 compressors	Not assembled / Assembled	
NE	80	U	4 layers of 20 compressors	Assembled	
NE	80	U	4 layers of 20 compressors	Not assembled	CSR electrical box included
VEM	80	S	4 layers of 20 compressors	Not assembled	Without Screw/bushing
EH	60	S	4 layers of 15 compressors	Assembled	Without Screw/bushing
EM (CN)	80	S	4 layers of 20 compressors	Assembled	Without Screw/bushing

Wooden packaging and pallets are created to comply with recycling regulations and are treated according to standard ISPM No. 15 - Regulation of wood packaging material in international trade. IPPC mark is presented on the wooden pallets.

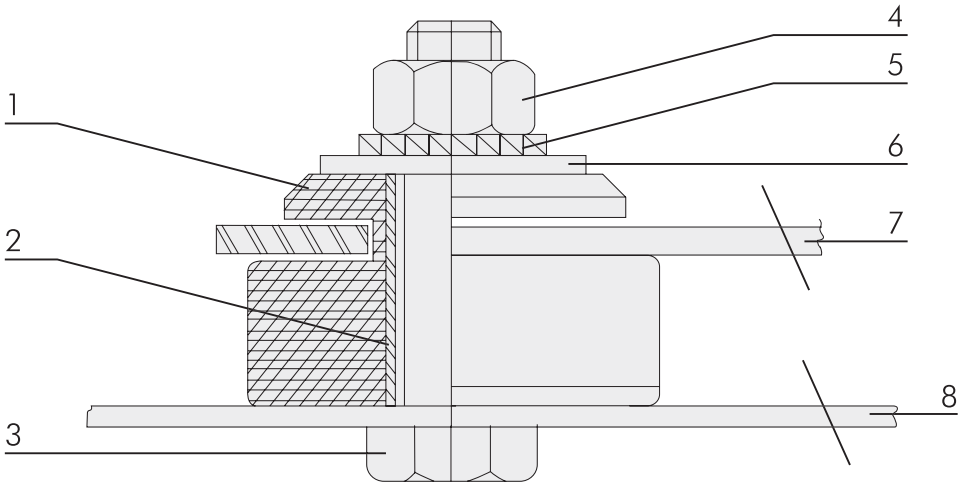
Package for electrical components and accessories

Electrical components and accessories if not assembled on compressors are packed separately in carton boxes. A label is applied showing the following data:

Components packing label

- 1. Components bill of material code (complete of electrical components and accessories)
- 2. Compressor model
- 3. Quantity
- 4. Customer name (optional)
- 5. List of electrical components and accessories shipped (code/description/quantity)

Mouting accessories



NUMBER	COMPONENT	SPECIFICATION
1	Rubber grommet	H: 16.5±0.5
2	Spacer (metal bushing)	H: 17.0±0.5
3	Fixing bolt	M6x30
4	Hexagon nut	M6
5	Washer with ext.teeth	ø 6.4
6	Flat washer	ø 6.4
7	Compressor base plate	
8	Mounting base	

Compressor Identification Marks

Labels are applied on two sides of each package and report the following data:

1. Compressor bill of material

2. Bar code of compressor bill of material (Type 39)

3. Compressor model

4. Voltage & frequency
5. Refrigerant

6. Package quantity (optional)

7. Packaging serial number

8. Bar code of packaging serial number (Type 128)

Compressor Identification label for multiple packaging

BAR CODE	MATERIAL	MATERIAL 1	BAR CODE 2
MODEL	VOLTAGE 1 FREQUENCY 1 VOLTAGE 1 FREQUENCY 1	REFRIGERANT	MODEL 3 VOLTAGE 1 FREQUENCY 1 4 REFRIGERANT 5
BAR CODE	BASE QUANTITY	BASE QUANTITY 6	BAR CODE 8
	BAR CODE QUANTITY	BAR CODE QUANTITY	
	BAR CODE CUSTOMER IC	BAR CODE CUSTOMER IC	
PACKAGING SERIAL NUMBER	CUSTOMER INTERNAL CODE	CUSTOMER INTERNAL CODE	PACKAGING SERIAL NUMBER 7

Compressor Identification label for single packaging

MODEL	MADE IN CHINA	3 MODEL	MADE IN CHINA
VOLTAGE/FREQUENCY	REFRIGERANT	VOLTAGE/FREQUENCY 4	REFRIGERANT 5
VOLTAGE/FREQUENCY		VOLTAGE/FREQUENCY 4	
REFRIGERANT		REFRIGERANT 5	
MATERIAL		MATERIAL 1	
SEQUENTIAL		SEQUENTIAL 7	
NUMBER		NUMBER 7	
CUST. CODE:		CUST. CODE:	
CUST. CODE:		CUST. CODE:	

Technical Data

Compressors 100V 50/60Hz

R134a | 100V 50/60Hz | LBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
EMU45HEP	BR	3.77	100 V / 50-60 Hz	LBP	LST	RSIR	9.20	ASHRAELBP32	50 Hz	Capillary Tube
EMU45HEP	BR	3.77	100 V / 50-60 Hz	LBP	LST	RSIR	8.50	ASHRAELBP32	60 Hz	Capillary Tube
EMI60HEP	BR	4.99	100 V / 50-60 Hz	LBP	LST	RSIR	12.50	ASHRAELBP32	50 Hz	Capillary Tube
EMI60HEP	BR	4.99	100 V / 50-60 Hz	LBP	LST	RSIR	12.00	ASHRAELBP32	60 Hz	Capillary Tube
FGS70HA	BR	6.36	100 V / 50-60 Hz	LBP	LST	RSCR	15.00	ASHRAELBP32	50 Hz	Capillary Tube
FGS70HA	BR	6.36	100 V / 50-60 Hz	LBP	LST	RSCR	13.80	ASHRAELBP32	60 Hz	Capillary Tube
FGS80HAS	BR	7.15	100 V / 50-60 Hz	LBP	LST	RSCR	21.00	ASHRAELBP32	50 Hz	Capillary Tube
FGS80HAS	BR	7.15	100 V / 50-60 Hz	LBP	LST	RSCR	19.70	ASHRAELBP32	60 Hz	Capillary Tube
FGS100HAS	BR	9.04	100 V / 50-60 Hz	L/MBP	LST	RSCR/CSCR	30.90	ASHRAELBP32	50 Hz	Capillary Tube
FGS100HAS	BR	9.04	100 V / 50-60 Hz	L/MBP	LST	RSCR/CSCR	28.30	ASHRAELBP32	60 Hz	Capillary Tube
EH3125Z/L	CN	9.04	100 V / 50-60 Hz	L/MBP	LST	RSIR	UD*	ASHRAELBP32	50 Hz	Capillary Tube
EH3125Z/L	CN	9.04	100 V / 50-60 Hz	L/MBP	LST	RSIR	UD*	ASHRAELBP32	60Hz	Capillary Tube
FGS125HAS	BR	11.14	100 V / 50-60 Hz	L/MBP	LST	CSCR	34.50	ASHRAELBP32	50 Hz	Capillary Tube
FGS125HAS	BR	11.14	100 V / 50-60 Hz	L/MBP	LST	CSCR	31.38	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NE2130Z	SK	12.11	100 V / 50-60 Hz	LBP	HST	CSIR	32.00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NE2130Z	SK	12.11	100 V / 50-60 Hz	LBP	HST	CSIR	32.00	ASHRAELBP32	60 Hz	Capillary Tube
NEU3130Z / L	SK	12.11	100 V / 50-60 Hz	L/MBP	LST	CSCR	39.50	ASHRAELBP32	50 Hz	Capillary Tube
NEU3130Z / L	SK	12.11	100 V / 50-60 Hz	L/MBP	LST	CSCR	39.50	ASHRAELBP32	60 Hz	Capillary Tube
NEU3140Z / L	SK	16.80	100 V / 50-60 Hz	L/MBP	LST	CSCR	46.00	ASHRAELBP32	50 Hz	Capillary Tube
NEU3140Z / L	SK	16.80	100 V / 50-60 Hz	L/MBP	LST	CSCR	46.00	ASHRAELBP32	60 Hz	Capillary Tube

R1234yf | 100V 50/60Hz | LBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
EMT1110L	BR	3.77	100 V / 50-60 Hz	LBP	LST	RSIR	9.20	ASHRAELBP32	50 Hz	Capillary Tube
EMT1110L	BR	3.77	100 V / 50-60 Hz	LBP	LST	RSIR	8.50	ASHRAELBP32	60 Hz	Capillary Tube
FGS80LAS	BR	7.15	100 V / 50-60 Hz	L/MBP	LST	RSCR/CSCR	21.00	ASHRAELBP32	50 Hz	Capillary Tube
FGS80LAS	BR	7.15	100 V / 50-60 Hz	L/MBP	LST	RSCR/CSCR	19.70	ASHRAELBP32	60 Hz	Capillary Tube
FGS100LAS	BR	9.04	100 V / 50-60 Hz	L/MBP	LST	RSCR/CSCR	30.90	ASHRAELBP32	50 Hz	Capillary Tube
FGS100LAS	BR	9.04	100 V / 50-60 Hz	L/MBP	LST	RSCR/CSCR	28.30	ASHRAELBP32	60 Hz	Capillary Tube
EH3125Z/L	CN	9.04	100 V / 50-60 Hz	L/MBP	LST	RSIR	UD*	ASHRAELBP32	50 Hz	Capillary Tube
EH3125Z/L	CN	9.04	100 V / 50-60 Hz	L/MBP	LST	RSIR	UD*	ASHRAELBP32	60 Hz	Capillary Tube
FGS125LAS	BR	11.14	100 V / 50-60 Hz	L/MBP	LST	CSCR	34,5	ASHRAELBP32	50 Hz	Capillary Tube
FGS125LAS	BR	11.14	100 V / 50-60 Hz	L/MBP	LST	CSCR	31.38	ASHRAELBP32	60 Hz	Capillary Tube
NEU3130Z / L	SK	12.11	100 V / 50-60 Hz	L/MBP	LST	CSCR	39.50	ASHRAELBP32	50 Hz	Capillary Tube
NEU3130Z / L	SK	12.11	100 V / 50-60 Hz	L/MBP	LST	CSCR	39.50	ASHRAELBP32	60 Hz	Capillary Tube
NEU3140Z / L	SK	16.80	100 V / 50-60 Hz	L/MBP	LST	CSCR	46.00	ASHRAELBP32	50 Hz	Capillary Tube
NEU3140Z / L	SK	16.80	100 V / 50-60 Hz	L/MBP	LST	CSCR	46.00	ASHRAELBP32	60 Hz	Capillary Tube
EHU3125L	CN	9.04	100 V / 50-60 Hz	L/MBP	LST	CSCR	UD*	ASHRAELBP32	50 Hz	UD*

NA*: Product is implemented but this technical data is not available.
UD*: Product is under development so this technical data is still not available.

Model	Cooling Capacity (°C)								Check Point (Evaporating -23.3°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-40	-35	-30	-25	-20	-15	-10	-5	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
EMU45HEP		48	65	92	127	169	217		104	1.26	160	ESTER / ISO10	UL/UKCA/CE	SM00
EMU45HEP		64	89	117	150	191	243		128	1.34	160	ESTER / ISO10	UL/UKCA/CE	SM00
EMI60HEP		55	86	120	159	207	265		133	1.17	200	ESTER / ISO22	UL/UKCA/CE	SM00
EMI60HEP		78	113	153	199	253	319		168	1.32	200	ESTER / ISO22	UL/UKCA/CE	SM00
FGS70HA		67	109	158	214	281	357		174	1.49	280	ESTER / ISO10	-	SM34
FGS70HA		85	130	184	249	325	415		203	1.53	350	ESTER / ISO10	-	SM34
FGS80HAS		-	-	-	-	-	-		210	1.42	280	ESTER / ISO22	-	SM34
FGS80HAS		-	-	-	-	-	-		244	1.47	280	ESTER / ISO22	-	SM08
FGS100HAS		-	-	-	-	-	-		261	1.41	280	ESTER / ISO22	-	SM08
FGS100HAS		-	-	-	-	-	-		316	1.52	280	ESTER / ISO22	-	NA*
EH3125Z/L		UD*	UD*	UD*	UD*	UD*	UD*		274*	1.40*	UD*	UD*	-	UD*
EH3125Z/L		UD*	UD*	UD*	UD*	UD*	UD*		319*	1.56*	UD*	UD*	-	SM08
FGS125HAS		-	-	-	-	-	-		315	1.28	280	ESTER / ISO22	-	SM08
FGS125HAS		159	247	340	447	557	739		368	1.44	280	ESTER / ISO22	-	SM05
NE2130Z		147	208	284	376	483	606		323	1.20	350	ESTER / ISO22	CE/UKCA	SM05
NE2130Z		172	243	332	440	565	708		367	1.19	350	ESTER / ISO22	CE/UKCA	NA*
NEU3130Z / L		167	251	345	448	562	684		356	1.39	350	ESTER / ISO22	CE/UKCA	UD*
NEU3130Z / L		194	311	428	545	661	776		417	1.45	350	ESTER / ISO22	CE/UKCA	UD*
NEU3140Z / L		226	333	456	595	749	919		477	1.36	350	ESTER / ISO22	CE/UKCA	UD*
NEU3140Z / L		261	383	525	684	863	1061		552	1.44	350	ESTER / ISO22	CE/UKCA	UD*

Model	Cooling Capacity (°C)								Check Point (Evaporating -23.3°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-40	-35	-30	-25	-20	-15	-10	-5	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
EMT1110L		53	75	101	132	170	214		113	1,31	160	ISO10	-	NA*
EMT1110L		63	93	126	164	209	261		141	1,42	160	ISO10	-	NA*
FGS80LAS		104	149	203	268	345	435	540	231	1.48	280	ESTER / ISO22	-	SM08
FGS80LAS		124	177	241	315	405	511	636	268	1.52	280	ESTER / ISO22	-	SM08
FGS100LAS		-	-	-	-	-	-	-	283	1.42	280	ESTER / ISO22	-	SM08
FGS100LAS		-	-	-	-	-	-	-	337	1.52	280	ESTER / ISO22	-	SM08
EH3125Z/L		UD*	UD*	UD*	UD*	UD*	UD*	UD*	293	1.40	UD*	UD*	UD*	UD*
EH3125Z/L		UD*	UD*	UD*	UD*	UD*	UD*	UD*	342	1.56	UD*	UD*	UD*	UD*
FGS125LAS		-	-	-	-	-	-	-	352	1.37	280	ESTER / ISO22	-	SM08
FGS125LAS		-	-	-	-				406	1.47	280	ESTER / ISO22	-	SM08
NEU3130Z / L		206	303	404	508	617	729	845	353	1.42	350	ESTER / ISO22	CE/UKCA	UD*
NEU3130Z / L		225	359	485	602	712	813	907	416	1.48	350	ESTER / ISO22	CE/UKCA	UD*
NEU3140Z / L		271	280	505	647	805	980	1172	477	1.36	350	ESTER / ISO22	CE/UKCA	UD*
NEU3140Z / L		324	448	590	748	924	1117	1328	552	1.44	350	ESTER / ISO22	CE/UKCA	UD*
EHU3125L	UD*	UD*	UD*	UD*	UD*	UD*	UD*	UD*	UD*	UD*	UD*	UD*	CE/UKCA	UD*

R404A | 100V 50/60Hz | LBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
NEK2125GK	SK	6.20	100 V / 50-60 Hz	LBP	HST	CSCR	32.00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEK2125GK	SK	6.20	100 V / 50-60 Hz	LBP	HST	CSCR	32.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NEK2134GK	SK	8.77	100 V / 50-60 Hz	LBP	HST	CSCR	34.00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEK2134GK	SK	8.77	100 V / 50-60 Hz	LBP	HST	CSCR	34.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NEK2150GK	SK	12.11	100 V / 50-60 Hz	LBP	HST	CSCR	44.00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEK2150GK	SK	12.11	100 V / 50-60 Hz	LBP	HST	CSCR	44.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NEU2155GK	SK	12.11	100 V / 50-60 Hz	LBP	HST/LST	CSCR	NA*	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEU2155GK	SK	12.11	100 V / 50-60 Hz	LBP	HST/LST	CSCR	NA*	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NT2178GK	SK	17.39	100 V / 50-60 Hz	LBP	HST	CSCR	25.00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NT2178GK	SK	17.39	100 V / 50-60 Hz	LBP	HST	CSCR	25.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve

R600a | 100V 50/60Hz | LBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
EMT30CDP	BR	4.50	100 V / 50-60 Hz	L/M/HBP	LST	RSIR	8.25	ASHRAELBP32	50 Hz	Capillary Tube
EMT30CDP	BR	4.50	100 V / 50-60 Hz	L/M/HBP	LST	RSIR	7.65	ASHRAELBP32	60 Hz	Capillary Tube
EMRS32CLC	CN	5.96	100 V / 50-60 Hz	LBP	LST	RSCR	6.03	ASHRAELBP32	50 Hz	Capillary Tube
EMRS32CLC	CN	5.96	100 V / 50-60 Hz	LBP	LST	RSCR	6.96	ASHRAELBP32	60 Hz	Capillary Tube
EMT45CLP	CN	5.96	100 V / 50-60 Hz	LBP	LST	RSIR	8.30	ASHRAELBP32	50 Hz	Capillary Tube
EMT45CLP	CN	5.96	100 V / 50-60 Hz	LBP	LST	RSIR	7.70	ASHRAELBP32	60 Hz	Capillary Tube
EMYS45CLP	CN	5.96	100 V / 50-60 Hz	LBP	LST	RSCR	NA*	ASHRAELBP32	50 Hz	Capillary Tube
EMYS45CLP	CN	5.96	100 V / 50-60 Hz	LBP	LST	RSCR	NA*	ASHRAELBP32	60 Hz	Capillary Tube
EMYS46CLC	CN	7.96	100 V / 50-60 Hz	LBP	LST	RSCR	NA*	ASHRAELBP32	50 Hz	Capillary Tube
EMYS46CLC	CN	7.96	100 V / 50-60 Hz	LBP	LST	RSCR	NA*	ASHRAELBP32	60 Hz	Capillary Tube
EMB46CLC	CN	7.96	100 V / 50-60 Hz	LBP	LST	RSCR	NA*	ASHRAELBP32	50 Hz	Capillary Tube
EMB46CLC	CN	7.96	100 V / 50-60 Hz	LBP	LST	RSCR	NA*	ASHRAELBP32	60 Hz	Capillary Tube
EMB55CLC	CN	9.04	100 V / 50-60 Hz	LBP	LST	RSCR	16.00	ASHRAELBP32	50 Hz	Capillary Tube
EMB55CLC	CN	9.04	100 V / 50-60 Hz	LBP	LST	RSCR	14.30	ASHRAELBP32	60 Hz	Capillary Tube
EGX80CLC	BR	11.14	100 V / 50-60 Hz	LBP	LST	RSCR	15.87	ASHRAELBP32	50 Hz	Capillary Tube
EGX80CLC	BR	11.14	100 V / 50-60 Hz	LBP	LST	RSCR	14.30	ASHRAELBP32	60 Hz	Capillary Tube
EMT30CDP	BR	4.50	100 V / 50-60 Hz	L/M/HBP	LST	RSIR	8.25	CEFOMAFHBP	50 Hz	Capillary Tube
EMT30CDP	BR	4.50	100 V / 50-60 Hz	L/M/HBP	LST	RSIR	7.65	CEFOMAFHBP	60 Hz	Capillary Tube
EMRS32CLC	CN	5.96	100 V / 50-60 Hz	LBP	LST	RSCR	7.70	ASHRAELBP32	50 Hz	Capillary Tube
EMRS32CLC	CN	5.96	100 V / 50-60 Hz	LBP	LST	RSCR	7.70	ASHRAELBP32	60 Hz	Capillary Tube
EMT45CLP	CN	5.96	100 V / 50-60 Hz	LBP	LST	RSIR	8.30	ASHRAELBP32	50 Hz	Capillary Tube
EMT45CLP	CN	5.96	100 V / 50-60 Hz	LBP	LST	RSIR	7.70	ASHRAELBP32	60 Hz	Capillary Tube
EMYS45CLP	CN	5.96	100 V / 50-60 Hz	LBP	LST	RSCR	7.60	ASHRAELBP32	50 Hz	Capillary Tube
EMYS45CLP	CN	5.96	100 V / 50-60 Hz	LBP	LST	RSCR	7.60	ASHRAELBP32	60 Hz	Capillary Tube
EMYS46CLC	CN	7.96	100 V / 50-60 Hz	LBP	LST	RSCR	9.10	ASHRAELBP32	50 Hz	Capillary Tube
EMYS46CLC	CN	7.96	100 V / 50-60 Hz	LBP	LST	RSCR	9.10	ASHRAELBP32	60 Hz	Capillary Tube
EMB46CLC	CN	8.23	100 V / 50-60 Hz	LBP	LST	RSCR	8.70	ASHRAELBP32	50 Hz	Capillary Tube
EMB46CLC	CN	8.23	100 V / 50-60 Hz	LBP	LST	RSCR	8.70	ASHRAELBP32	60 Hz	Capillary Tube
EMB55CLC	CN	9.04	100 V / 50-60 Hz	LBP	LST	RSCR	16.00	ASHRAELBP32	50 Hz	Capillary Tube
EMB55CLC	CN	9.04	100 V / 50-60 Hz	LBP	LST	RSCR	14.30	ASHRAELBP32	60 Hz	Capillary Tube
EGX80CLC	BR	11.14	100 V / 50-60 Hz	LBP	LST	RSCR	5.10	ASHRAELBP32	50 Hz	Capillary Tube

NA*: Product is implemented but this technical data is not available.
UD*: Product is under development so this technical data is still not available.

Model	Cooling Capacity (°C)								Check Point (Evaporating -23.3°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-40	-35	-30	-25	-20	-15	-10	-5	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
NEK2125GK	124	173	235	310	398	498	612		338	1.24	350	ESTER / ISO22	CE/VDE/UKCA	SM06
NEK2125GK	154	211	284	371	474	591	724		405	1.36	350	ESTER / ISO22	CE/VDE/UKCA	SM06
NEK2134GK	170	235	317	357	531	663	812		452	1.28	350	ESTER / ISO22	CE/UKCA	SM06
NEK2134GK	200	276	372	488	623	777	946		533	1.33	350	ESTER / ISO22	CE/UKCA	SM06
NEK2150GK			422	554	709	888	1090		607	1.29	350	ESTER / ISO22	CE/UKCA	SM06
NEK2150GK			505	654	828	1029	1259		713	1.35	350	ESTER / ISO22	CE/UKCA	SM06
NEU2155GK	240	331	448	592	762	958	1181		647	1.38	350	ESTER / ISO22	CE/UKCA	SM06
NEU2155GK	280	391	532	700	897	1122	1376		766	1.42	350	ESTER / ISO22	CE/UKCA	SM06
NT2178GK	337	467	646	873	966	1229	1527		812	1.30	450	ESTER / ISO22	CE/UKCA	SM20
NT2178GK	400	557	757	1000	1150	1476	1851		1002	1.38	450	ESTER / ISO22	CE/UKCA	SM20

Model	Cooling Capacity (°C)								Check Point (Evaporating -23.3°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-40	-35	-30	-25	-20	-15	-10	-5	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
EMT30CDP		34	47	63	85	112	143	179	74	1.25	180	MINERAL / ISO10	UKCA/VDE/CE	SM05
EMT30CDP									94	1.42	180	MINERAL / ISO10	UKCA/VDE/CE	SM05
EMRS32CLC		48	68	91	120	155	195		99	1.65	150	ALQUILB / ISO5	CCC/CE	SM01
EMRS32CLC		49	80	112	147	186	232		115	1.71	150	ALQUILB / ISO5	CCC/CE	SM01
EMT45CLP		45	63	88	119	155	196		102	1.38	150	ALQUILB / ISO5	CCC/CE	SM05
EMT45CLP		54	82	110	139	175	220		121	1.51	150	ALQUILB / ISO5	CCC/CE	SM05
EMYS45CLP		43	62	86	116	151	192		99	1.57	150	ALQUILB / ISO5	CCC/CE/UKCA	SM01
EMYS45CLP		53	77	106	140	180	227		114	1.65	150	ALQUILB / ISO5	CCC/CE/UKCA	SM01
EMYS46CLC		60	92	126	162	205	255		139	1.57	150	ALQUILB / ISO5	CCC/CE/UKCA	SM01
EMYS46CLC		74	105	142	186	240	304		160	1.60	150	ALQUILB / ISO5	CCC/CE/UKCA	SM01
EMB46CLC		56	79	109	146	186	227		140	1.67	150	ALQUILB / ISO5	CCC/CE	SM01
EMB46CLC		81	111	147	190	243	305		160	1.70	150	ALQUILB / ISO5	CCC/CE	SM01
EMB55CLC		77	108	147	194	250	314		159	1.66	150	ALQUILB / ISO5	CCC/CE/UKCA	SM01
EMB55CLC		92	95	162	238	273	341		180	1.72	150	ALQUILB / ISO5	CCC/CE/UKCA	SM01
EGX80CLC		100	135	179	234	302	385		195	1.77	280	ALQUILB / ISO5	-	SM34
EGX80CLC		123	168	221	285	361	454		249	1.82	280	ALQUILB / ISO5	-	SM34
EMT30CDP	68	88	111	138	169	205	245	289	273	2.65	180	MINERAL / ISO10	UKCA/VDE/CE	SM05
EMT30CDP	83	105	132	164	201	244	294	351	332	2.83	180	MINERAL / ISO10	UKCA/VDE/CE	SM05
EMRS32CLC		48	67	91	120	154	195		101	1.71	150	ALQUILB / ISO5	CCC/CE	SM01
EMRS32CLC		49	80	112	147	186	232		124	1.71	150	ALQUILB / ISO5	CCC/CE	SM01
EMT45CLP		45	63	88	119	155	196		98	1.45	150	ALQUILB / ISO5	CCC/CE	SM05
EMT45CLP		55	82	110	140	175	220		120	1.53	150	ALQUILB / ISO5	CCC/CE	SM05
EMYS45CLP		43	62	86	116	151	192		97	1.59	150	ALQUILB / ISO5	CCC/CE/UKCA	SM01
EMYS45CLP		52	77	106	140	180	227		117	1.68	150	ALQUILB / ISO5	CCC/CE/UKCA	SM01
EMYS46CLC		60	92	126	162	205	255		138	1.64	150	ALQUILB / ISO5	CCC/CE/UKCA	SM01
EMYS46CLC		74	105	142	186	240	304		157	1.64	150	ALQUILB / ISO5	CCC/CE/UKCA	SM01
EMB46CLC		56	79	109	146	186	227		123	1.53	150	ALQUILB / ISO5	CCC/CE	SM01
EMB46CLC		81	111	147	190	243	305		161	1.74	150	ALQUILB / ISO5	CCC/CE	SM01
EMB55CLC		77	108	147	194	250	314		163	1.70	150	ALQUILB / ISO5	CCC/CE/UKCA	SM01
EMB55CLC		92	95	161	239	273			190	1.74	150	ALQUILB / ISO5	CCC/CE/UKCA	SM01
EGX80CLC		100	135	179	234	302	385		195	1.77	280	ALQUILB / ISO5	-	SM34

R600a | 100V 50/60Hz | LBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
EGX80CLC	BR	11,14	100 V / 50-60 Hz	LBP	LST	RSCR	14,30	ASHRAELBP32	60 Hz	Capillary Tube
EMX3113Y	CN	9,04	100-127V 60Hz 100V 50Hz	L/MBP	LST	RSCR	15,30	ASHRAELBP32	60 Hz	Capillary Tube
EMX3118Y	BR	12,21	100 V / 50-60 Hz	L/MBP	LST	RSCR	15,00	ASHRAELBP32	50 Hz	Capillary Tube
EMX3118Y	BR	12,21	100 V / 50-60 Hz	L/MBP	LST	RSCR	NA*	ASHRAELBP32	60 Hz	Capillary Tube

R134a | 100V 50/60Hz | M/HBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
EM20HHR	BR	2.27	100V/50-60Hz	M/HBP	LST	RSIR-CSIR	13.00	ASHRAEHBP32	60 Hz	Capillary Tube
EMT45HBP	CN	4.15	100V/50-60Hz	M/HBP	LST	RSIR	14.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
EMT45HBP	CN	4.15	100V/50-60Hz	M/HBP	LST	RSIR	14.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
EMT617OZ	CN	7.96	100V/50-60Hz	HBP	HST	CSCR	-	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
EMT617OZ	CN	7.96	100V/50-60Hz	HBP	HST	CSCR	-	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NEK617OZ	SK	8.39	100V/50-60Hz	HBP	HST	CSIR	16.50	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NEK617OZ	SK	8.39	100V/50-60Hz	HBP	HST	CSIR	16.50	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve

R1234a | 100V 50/60Hz | M/HBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
EM20LHR	BR	2.27	100V/50-60Hz	HBP	LST	RSIR	13.00	ASHRAEHBP46	50 Hz	Capillary Tube
EM20LHR	BR	2.27	100V/50-60Hz	HBP	LST	RSIR	12.10	ASHRAEHBP46	60 Hz	Capillary Tube
EMT617OL	CN	7.96	100V/50-60Hz	HBP	HST	CSCR	16.50	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
EMT617OL	CN	7.96	100V/50-60Hz	HBP	HST	CSCR	16.50	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve

R404A | 100V 50/60Hz | M/HBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
NEK6210GK	SK	8.77	100V/50-60Hz	MBP	HST	CSIR	38.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NEK6210GK	SK	8.77	100V/50-60Hz	MBP	HST	CSIR	38.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve

R600a | 100V 50/60Hz | M/HBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
EMT45CDP	BR	6.78	100V/50-60Hz	HBP	LST	RSIR	15.40	CEFOMAFHBP	50 Hz	Capillary Tube
EMT45CDP	BR	6.78	100V/50-60Hz	HBP	LST	RSIR	14.30	CEFOMAFHBP	60 Hz	Capillary Tube

NA*: Product is implemented but this technical data is not available.
UD*: Product is under development so this technical data is still not available.

Model	Cooling Capacity (°C)								Check Point (Evaporating -23.3°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-40	-35	-30	-25	-20	-15	-10	-5	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
EGX80CLC	246	301	-	-	268	345	438		249	1,82	280	ALQUILB / ISO5	-	SM34
EMX3113Y	287	362	246	301	-	-	-		185	1,74	150	ALQUILB / ISO5	-	SM01
EMX3118Y	389	483	287	362	-	-	-		208	1,67	150	ALQUILB / ISO5	VDE	SM01
EMX3118Y	389	483	389	483	290	370	463	570	237	1,68	150	ALQUILB / ISO5	VDE	SM01

Model	Cooling Capacity (°C)								Check Point (Evaporating 7.2°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-20	-15	-10	-5	0	5	10	15	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
EM20HHR		-	-	-	-	-	-		297	2.73	160	ESTER / ISO22	-	SM03
EMT45HBP			246	301	372	460	565	686	450	2.80	180	ESTER / ISO22	CE	SM33
EMT45HBP			287	362	451	555	674	807	530	2.70	180	ESTER / ISO22	CE	SM33
EMT617OZ		304	389	483	594	725	882		838	2.69	180	ESTER / ISO22	CE	NA*
EMT617OZ		-	-	-	-	-	-		975	2.55	180	ESTER / ISO22	CE	NA*
NEK617OZ			348	427	552	724	942		820	2.17	350	ESTER / ISO22	CE/UKCA	SM04
NEK617OZ			422	510	649	844	1104		957	2.35	350	ESTER / ISO22	CE/UKCA	SM04

Model	Cooling Capacity (°C)								Check Point (Evaporating 7.2°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-20	-15	-10	-5	0	5	10	15	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
EM20LHR				156	195	239	291	348	262	2.78	160	ESTER / ISO22	-	SM03
EM20LHR				192	234	284	343	412	311	2.77	160	ESTER / ISO22	-	SM03
EMT617OL		322	411	512	630	767	927		838	2.69	180	ESTER / ISO22	CCC/CE/UKCA	SM33
EMT617OL		363	465	588	730	892	1074		975	2.55	180	ESTER / ISO22	CCC/CE/UKCA	SM33

Model	Cooling Capacity (°C)								Check Point (Evaporating 7.2°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-20	-15	-10	-5	0	5	10	15	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
NEK6210GK	434	548	686	848	1033	1242	1475		1349	1.98	350	ESTER / ISO22	CE/UKCA	SM04
NEK6210GK	534	665	823	1009	1222	1463	1731		1583	2.07	350	ESTER / ISO22	CE/UKCA	SM04

Model	Cooling Capacity (°C)								Check Point (Evaporating 7.2°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-20	-15	-10	-5	0	5	10	15	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
EMT45CDP				236	308	372	428	477	419	2.59	180	MINERAL / ISO10	CCC/UKCA/VDE/CE	SM05
EMT45CDP		-	-	-	-	-	-		493	2.70	180	MINERAL / ISO10	CCC/UKCA/VDE/CE	SM05

Technical Data

Compressors 115V 60Hz

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R134a | 115V 60Hz | LBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
EMIS20HHR	BR	2.27	115-127 V 60 Hz	L/M/HBP	LST	RSIR/CSIR	11.62	ASHRAELBP32	60 Hz	Capillary Tube
EMIE40HER	BR	3.40	115-127 V 60 Hz	L/MBP	LST	RSIR/CSIR	11.50	ASHRAELBP32	60 Hz	Capillary Tube
EM45HHR	BR	3.77	115-127 V 60 Hz	L/M/HBP	LST	RSIR/CSIR	17.00	ASHRAELBP32	60 Hz	Capillary Tube
EM45HNR	BR	3.77	115-127 V 60 Hz	LBP	LST	RSIR/CSIR	17.00	ASHRAELBP32	60 Hz	Capillary Tube
EM65HNR	BR	5.54	115-127 V 60 Hz	L/MBP	LST	RSIR/CSIR	26.00	ASHRAELBP32	60 Hz	Capillary Tube
EMIS70HHR	BR	5.96	115-127 V 60 Hz	L/M/HBP	LST	RSIR	28.20	ASHRAELBP32	60 Hz	Capillary Tube
FFU80HAK	BR	6.76	115-127 V 60 Hz	L/MBP	LST	RSIR/CSIR	28.00	ASHRAELBP32	60 Hz	Capillary Tube
FFI8,5HAK	BR	7.15	115-127 V 60 Hz	L/MBP	LST	RSIR/CSIR	27.50	ASHRAELBP32	60 Hz	Capillary Tube
NEK2116Z	SK	7.40	115 V 60 Hz	LBP	HST	CSIR	22.00	ARI540	60 Hz	Capillary Tube or Expansion Valve
FF8,5HBK	BR	7.95	115-127 V 60 Hz	L/M/HBP	LST	RSIR/CSIR	34.50	ASHRAELBP32	60 Hz	Capillary Tube
FFI10HAK	BR	9.04	115-127 V 60 Hz	L/MBP	LST	RSIR/CSIR	32.50	ASHRAELBP32	60 Hz	Capillary Tube
FFU130HAX	BR	10.61	115-127 V 60 Hz	L/MBP	LST/HST	CSIR	40.30	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
FFI12HBX	BR	11.14	115-127 V 60 Hz	L/M/HBP	HST	CSIR	43.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
FFU160HAX	BR	12.92	115-127 V 60 Hz	MBP	LST/HST	CSIR	44.50	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve

R404A | 115V 60Hz | LBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
NEK2134GK	SK	8.77	115 V 60 Hz	LBP	HST	CSIR	37.50	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NEU2140GK	SK	8.77	115-127 V 60 Hz	LBP	HST	CSCR	30.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NEK2150GK	SK	12.11	115 V 60 Hz	LBP	HST	CSIR	44.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NEU2155GK	SK	12.11	115-127 V 60 Hz	LBP	HST	CSCR	40.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NT2168GKV	SK	14.50	115 V 60 Hz	LBP	HST	CSIR	54.50	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NT2178GKV	SK	17.39	115 V 60 Hz	LBP	HST	CSCR	66.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NT2180GK	SK	20.44	115 V 60 Hz	LBP	HST	CSCR	57.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NT2192GK	SK	22.37	115 V 60 Hz	LBP	HST	CSIR	56.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NT2192GKV	SK	22.37	115 V 60 Hz	LBP	HST	CSCR	56.00	ARI540	60 Hz	Capillary Tube or Expansion Valve
NJ2192GK	SK	26.11	115 V 60 Hz	LBP	HST	CSCR	98.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve

NA*: Product is implemented but this technical data is not available.
UD*: Product is under development so this technical data is still not available.

Model	Cooling Capacity (°C)								Check Point (Evaporating -23.3°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-40	-35	-30	-25	-20	-15	-10	-5	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
EMIS20HHR		15	31	49	71	98	130	168	56	0.90	160	ESTER / ISO22	UL/UKCA/CE/TUV/ISI	SM01/SM02
EMIE40HER			75	105	141	183	234	293	117	1.33	180	ESTER / ISO10	UL/UKCA/CE/TUV	SM01/SM02
EM45HHR		48	80	114	152	197	249	310	123	1.15	160	ESTER / ISO22	UL/UKCA/VDE/CE/TUV	SM07
EM45HNR		47	75	109	149	195	246		123	1.17	200	ESTER / ISO22	UL/UKCA/CE/TUV	SM01/SM02
EM65HNR		47	75	109	149	195	246		123	1.17	160	ESTER / ISO22	UL/UKCA/CE/TUV	SM01/SM02
EMIS70HHR		96	137	186	246	319	406	510	203	1.34	160	ESTER / ISO10	UL/UKCA/CE/TUV	SM01/SM02
FFU80HAK			156	215	288	377	481	600	239	1.51	280	ESTER / ISO10	UL/UKCA/CE/TUV	SM08
FFI8,5HAK		106	158	221	296	386	493	620	243	1.42	280	ESTER / ISO22	UL/UKCA/CE/TUV/IRAM	SM03
NEK2116Z		59	86	127	180	247	328		171	0.92	350	ESTER / ISO22	UL/UKCA/CE	SM04
FF8,5HBK		106	146	198	262	341	438	552	217	1.10	280	ESTER / ISO22	UL/UKCA/CE/TUV/IMTRO	SM03/SM04
FFI10HAK			187	268	362	471	598	749	301	1.45	280	ESTER / ISO22	UL/UKCA/CE/TUV	SM03
FFU130HAX			228	326	448	593	764	961	367	1.41	280	ESTER / ISO10	UL/UKC/CE/TUV	SM08
FFI12HBX		159	220	306	416	416	718	914	340	1.16	280	ESTER / ISO22	CCC/UL/UKCA/CE/TUV	SM08
FFU160HAX			303	404	526	673	850	1059	445	1.37	280	ESTER / ISO22	UL/UKCA/CE/TUV/IMTRO	SM08

Model	Cooling Capacity (°C)								Check Point (Evaporating -23.3°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-40	-35	-30	-25	-20	-15	-10	-5	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
NEK2134GK			402	525	667	828	1007		573	1.32	350	ESTER / ISO22	UL/VDE/CE/UKCA	SM04
NEU2140GK			388	516	670	848	1052		569	1.46	350	ESTER / ISO22	UL/CE/UKCA	SM06
NEK2150GK			508	660	838	1042	1273		720	1.23	350	ESTER / ISO22	UL/CE/UKCA	SM04
NEU2155GK			541	712	913	1144	1404		781	1.45	350	ESTER / ISO22	UL/CE/UKCA	SM06
NT2168GKV			524	702	911	1149	1413		777	1.23	450	ESTER / ISO22	UL/CE/UKCA	SM20
NT2178GKV	351	502	692	921	1190	1497	1844		1004	1.21	450	ESTER / ISO22	UL/CE/UKCA	SM20
NT2180GK			780	1053	1372	1736	2146		1165	1.38	450	ESTER / ISO22	UL/CE/UKCA	SM21
NT2192GK			877	1135	1418	1726	2061		1235	1.20	450	ESTER / ISO22	CCC/UL/CE/UKCA	SM21
NT2192GKV			541	710	917	1160	1438		765	0.82	450	ESTER / ISO22	CCC/UL/CE/UKCA	SM20
NJ2192GK			886	1203	1579	2020	2536		1333	1.32	750	ESTER / ISO22	UL/CE/UKCA	SM16/SM17

R290 | 115V 60Hz | LBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
EM2U311IU	BR	3,00	115-127 V 60 Hz	L/MBP	LST	RSCR	8,80	ASHRAELBP32	60 Hz	Capillary Tube
EMI50UER	BR	3,00	115-127 V 60 Hz	L/MBP	LST	RSIR/CSIR	12,70	ASHRAELBP32	60 Hz	Capillary Tube
EM2X3113U	CN	3,67	115-127 V 60 Hz	L/MBP	LST	RSCR	12,40	ASHRAELBP32	60 Hz	Capillary Tube
EMX3113U	CN	3,68	115-127 V 60 Hz	L/MBP	LST	RSCR	17,50	ASHRAELBP32	60 Hz	Capillary Tube
EM2U3115U	BR	3,97	115-127 V 60 Hz	L/MBP	LST	RSCR	11,94	ASHRAELBP32	60 Hz	Capillary Tube
EMI70UER	BR	4,08	115-127 V 60 Hz	L/MBP	LST	CSIR	19,60	ASHRAELBP32	60 Hz	Capillary Tube
EM2X3117U	CN	4,50	115-127 V 60 Hz	L/MBP	LST	RSCR	15,30	ASHRAELBP32	60 Hz	Capillary Tube
EM2X3117U 2	CN	4,50	115-127 V 60 Hz	L/MBP	LST	RSCR	13,30	ASHRAELBP32	60 Hz	Capillary Tube
EMX3117U	CN	4,50	115-127 V 60 Hz	L/MBP	LST	RSCR	22,80	ASHRAELBP32	60 Hz	Capillary Tube
EMI90UEX	BR	4,99	115-127 V 60 Hz	L/MBP	LST	CSIR	23,00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
EMY313IU	CN	UD*	100-127 V 60Hz	L/MBP	LST	UD*	UD*	ASHRAELBP32	60 Hz	Capillary Tube
EM2X312IU	CN	5,54	115-127 V 60 Hz	L/MBP	LST	RSCR	15,60	ASHRAELBP32	60 Hz	Capillary Tube
EM2X3125U	CN	6,09	115-127 V 60 Hz	L/MBP	LST	RSCR	15,60	ASHRAELBP32	60 Hz	Capillary Tube
FFU130UAX	BR	6,76	115-127 V 60 Hz	L/MBP	HST	CSIR	41,50	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
FFU160UAX	BR	7,95	115-127 V 60 Hz	L/MBP	HST	CSIR	41,50	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
EMC3134U	CN	7,95	115-127 V 60 Hz	L/MBP	LST	RSCR	22,40	ASHRAELBP32	60 Hz	Capillary Tube
EM2X3134U	BR	7,96	115-127 V 60 Hz	L/MBP	LST	RSCR	24,80	ASHRAELBP32	60 Hz	Capillary Tube
EMC3140U	CN	9,04	115-127 V 60 Hz	L/MBP	LST	RSCR	26,50	ASHRAELBP32	60 Hz	Capillary Tube
NEK2134U	SK	9,99	115 V 60 Hz	LBP	HST	CSIR	28,00	ARILBP	60 Hz	Capillary Tube or Expansion Valve
NEU2140U	SK	9,99	115-127 V 60 Hz	LBP	HST	CSIR	30,00	ARI4	60 Hz	Capillary Tube or Expansion Valve
EHX2155U	CN	12,21	115-127 V 60 Hz	LBP	HST	CSIR	18,80	ASHRAELBP32	60Hz	Capillary Tube or Expansion Valve
NEK2150U	SK	13,54	115 V 60 Hz	LBP	HST	CSCR	41,50	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NEK2150U	SK	13,54	115 V 60 Hz	LBP	HST	CSIR	41,50	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NEU2155U	SK	13,54	115-127 V 60 Hz	LBP	HST	CSCR	40,00	ARI4	60 Hz	Capillary Tube or Expansion Valve
NEX4160UA	CN/SK	14,28	115-127 V 60 Hz	L/MBP	HST	CSCR	46,00	ARILBP	60 Hz	Capillary Tube or Expansion Valve
NEX4170UA	CN/SK	16,80	115-127 V 60 Hz	L/MBP	HST	CSCR	49,50	ARILBP	60 Hz	Capillary Tube or Expansion Valve
NEU2168U	SK	16,80	115-127 V 60 Hz	LBP	HST	CSCR	49,00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NT2160UV	SK	17,39	115- V 60 Hz	LBP	HST	CSCR	54,50	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NEX4180UA	CN/SK	18,70	115-127 V 60 Hz	L/MBP	HST	CSCR	53,00	ARILBP	60 Hz	Capillary Tube or Expansion Valve
NEU2178U	SK	18,70	115-127 V 60 Hz	LBP	HST	CSCR	51,00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NT2180UV	SK	22,37	115 V 60 Hz	LBP	HST	CSCR	30,00	ARI540	60 Hz	Capillary Tube or Expansion Valve
NT2210UV	SK	27,80	115- V 60 Hz	LBP	HST	CSCR	67,00	ARI4	60 Hz	Capillary Tube or Expansion Valve
EMX4134U	BR	7,95	115-127 V 60 Hz	L/MBP	HST	CSIR	30,50	ASHRAELBP32	60 Hz	
EMX4140U	BR	9,50	115-127 V 60 Hz	L/MBP	HST	CSIR	30,50	ASHRAELBP32	60 Hz	
EMX4134U	CN	7,95	115-127 V 60 Hz	L/MBP	HST	CSIR	30,50	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
EMX4140U	CN	9,50	115-127 V 60 Hz	L/MBP	HST	CSIR	30,50	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve

NA*: Product is implemented but this technical data is not available.
UD*: Product is under development so this technical data is still not available.

									Check Point (Evaporating -23.3°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
Model	Cooling Capacity (°C)								Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
	-40	-35	-30	-25	-20	-15	-10	-5						
EM2U311IU			119	154	193	238	290	352	167	1,66	150	ESTER / ISO22	UL/UKCA/CE/TUV/ IMTRO	SM06
EMI50UER			103	138	181	232	290	355	153	1,38	170	ALQUILB / ISO32	CCC/UL/UKCA/CE/ TUV	SM01/SM02
EM2X3113U		86	120	129	203	255	315	384	175	1,48	150	ESTER / ISO22	CCC/UL/CE/UKCA	SM28
EMX3113U	286	408		716		1126		1661	195	1,62	150	ESTER / ISO22	CCC/UL/CE/UKCA	SM05
EM2U3115U		133	176	222	275	336	408	492	242	1,65	150	ESTER / ISO22	UL/UKCA/CE/TUV/ IMTRO	SM06
EMI70UER			142	190	248	317	396	485	210	1,34	160	ALQUILB / ISO32	UL/UKCA/CE/TUV	SM01/SM02
EM2X3117U		142	183	236	299	372	455	546	258	1,72	150	ESTER / ISO22	CCC/UL/CE/UKCA	SM28
EM2X3117U 2	82	128		223		368		546	251	1,72	150	ESTER / ISO22	UL/CE	SM28
EMX3117U		479		856		1352		2012	249	1,67	150	ESTER / ISO22	CCC/UL/CE/UKCA	SM05
EMI90UEX			200	250	305	372	456	564	269	1,34	160	ALQUILB / ISO32	UL/UKCA/CE/TUV/ISI/ IMTRO	SM01
EMY313IU											150	ESTER / ISO22	CCC/UL	SM01
EM2X312IU			237	306	381	466	566	684	332	1,74	150	ESTER / ISO22	CCC/UL/CE/UKCA	SM05
EM2X3125U			259	332	416	512	623	751	361	1,70	150	ESTER / ISO22	CCC/UL/CE/UKCA	SM05
FFU130UAX		236	288	361	454	568	704		390	1,23	280	ALQUILB / ISO32	UL/UKCA/CE/TUV	SM08
FFU160UAX			376	470	580	709	863	1044	507	1,58	280	ALQUILB / ISO32	UL/UKCA/CE/TUV/ IMTRO	SM08
EMC3134U			347	448	562	693	841	1010	487	1,78	150	ESTER / ISO22	CCC/UL/CE/UKCA	SM32
EM2X3134U		273		454		702		1012	494	1,71	150	ESTER / ISO22	UL/UKCA/CE/TUV	SM05
EMC3140U		-	-	-	-	-	-	-	583	1,72	150	ESTER / ISO22	CCC/UL/CE/UKCA/BIS	SM32
NEK2134U	155	205	268	344	433	535	650		539	1,39	350	ESTER / ISO22	UL/CE/UKCA	SM04
NEU2140U		220	283	364	463	579	714		449	1,14	350	ESTER / ISO22	CCC/UL/CE/UKCA	SM04
EHX2155U	306	409	526	659	814	992	1198		714	1,64	270	ESTER / ISO22	CCC/UL/CE/UKCA	SM07
NEK2150U	210	274	358	461	583	724	884		709	1,38	350	ESTER / ISO22	UL/CE/UKCA	SM06
NEK2150U	207	272	354	454	572	707	860		687	1,25	350	ESTER / ISO22	UL/CE/UKCA	SM04
NEU2155U		285	373	484	616	772	949		599	1,14	350	ESTER / ISO22	UL/CE/UKCA	SM06
NEX4160UA	246	325	429	557	696	871	1070	1294	850	1,70	350	ESTER / ISO22	CCC/CE/EAC/UL	SM10
NEX4170UA	285	376	498	642	820	1022	1251	1508	1006,8	1,65	350	ESTER / ISO22	CCC/CE/EAC/UL	SM10
NEU2168U			678	872	1099	1359	1652		949	1,52	350	ESTER / ISO22	CCC/UL/CE/UKCA	SM06
NT2160UV			590	759	961	1197	1467		828	1,34	450	ESTER / ISO22	UL/CE/UKCA	SM21
NEX4180UA	324	434	571	734	924	1140	1382	1650	1110,6	1,63	350	ESTER / ISO22	CCC/CE/EAC/UL	SM10
NEU2178U			551	703	880	1082	1308		849	1,23	350	ESTER / ISO22	CCC/UL/CE/UKCA	SM10
NT2180UV			535	691	876	1089	1330		744	0,94	450	ESTER / ISO22	CCC/UL/CE/UKCA	SM20
NT2210UV		533	686	880	1113	1387	1702	2056	954	0,99	450	ESTER / ISO22	CCC/UL/CE/UKCA	SM21
EMX4134U		263		436					477	1,61	150	ALQUILB /ISO22	UL/UKCA/CE	
EMX4140U		313		522					565,8	1,58	150	ALQUILB /ISO22	UL/UKCA/CE	
EMX4134U		263		436				985	477	1,61	150	ALQUILB /ISO22	UL/UKCA/CE	SM04
EMX4140U		313		522				1148	565,8	1,58	150	ALQUILB /ISO22	UL/UKCA/CE	SM04

R600a | 115V 60Hz | LBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
EMU40CLP	BR	5.96	115-127 V 60 Hz	LBP	LST	RSIR	7.33	ASHRAELBP32	60 Hz	Capillary Tube
EMU60CLP	BR	5.96	115-127 V 60 Hz	LBP	LST	RSIR	12.00	ASHRAELBP32	60 Hz	Capillary Tube
EMYE70CLP	BR	5.96	115-127 V 60 Hz	LBP	LST	RSIR	14.50	ASHRAELBP32	50 Hz	Capillary Tube
EGAS80CLP	BR	9.04	115-127 V 60 Hz	LBP	LST	RSIR	18.00	ASHRAELBP32	60 Hz	Capillary Tube

R134a | 115V 60Hz | M/HBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
EMIS30HHR	BR	3.00	115-127 V 60 Hz	L/M/HBP	LST	RSIR/CSIR	16.00	ASHRAEHBP32	60 Hz	Capillary Tube
NEU6187Z	SK	9.99	115-127 V 60 Hz	HBP	HST	CSCR	39.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NEU6210Z	SK	12.11	115-127 V 60 Hz	HBP	HST	CSCR	40.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NT6217Z	SK	20.44	115 V 60 Hz	HBP	HST	CSIR	45.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NJ6220Z	SK	26.11	115 V 60 Hz	HBP	HST	CSIR	72.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve

R404A | 115V 60Hz | M/HBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
NEU6181GK	SK	6.20	115-127 V 60 Hz	MBP	HST	CSCR	31.00	ARIMBP	60 Hz	Capillary Tube or Expansion Valve
NEK6181GK	SK	7.28	115-127 V 60 Hz	MBP	HST	CSIR	26.50	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NEK6210GK	SK	8.77	115 V 60 Hz	MBP	HST	CSCR	38.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NEU6212GK	SK	8.77	115-127 V 60 Hz	MBP	HST	CSIR	39.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NEU6214GK	SK	9.99	115-127 V 60 Hz	MBP	HST	CSIR	42.00	ARIMBP	60 Hz	Capillary Tube or Expansion Valve
NEU6215GK	SK	12.11	115-127 V 60 Hz	MBP	HST	CSCR	47.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NT6217GKV	SK	12.55	115 V 60 Hz	MBP	HST	CSIR	50.00	ARIMBP	60 Hz	Capillary Tube or Expansion Valve
NT6220GKV	SK	14.50	115 V 60 Hz	MBP	HST	CSIR	54.50	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NT6222GKV	SK	17.39	115 V 60 Hz	MBP	HST	CSIR	70.00	ARIMBP	60 Hz	Capillary Tube or Expansion Valve
NT6224GKV	SK	20.44	115 V 60 Hz	MBP	HST	CSCR	77.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NT6226GKV	SK	22.37	115 V 60 Hz	MBP	HST	CSCR	77.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NTX6220GKV	SK	12.55	115-127 V 60 Hz	M/HBP	HST	CSCR	54.50	ARIMBP	60 Hz	Capillary Tube or Expansion Valve
NTX6222GKV	SK	15.10	115-127 V 60 Hz	M/HBP	HST	CSCR	69.00	ARIMBP	60 Hz	Capillary Tube or Expansion Valve

NA*: Product is implemented but this technical data is not available.
UD*: Product is under development so this technical data is still not available.

Model	Cooling Capacity (°C)								Check Point (Evaporating -23.3°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-40	-35	-30	-25	-20	-15	-10	-5	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
EMU40CLP		57	78	105	139	180	227		117	1.30	180	ALQUILB / ISO5	UKCA/CE/TUV	SM00
EMU60CLP		83	116	154	200	255	321		164	1.41	180	ALQUILB / ISO5	UKCA/CE/TUV IMTRO	SM07
EMYE70CLP		107	142	185	239	305	285		205	1.46	180	ALQUILB / ISO5	UKCA/CE/TUV IMTRO	SM07
EGAS80CLP		122	172	226	288	362	450		245	1.51	280	ALQUILB / ISO5	UKCA/CE/TUV	SM09

Model	Cooling Capacity (°C)								Check Point (Evaporating 7.2°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-20	-15	-10	-5	0	5	10	15	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
EMIS30HHR	106	142	185	251	313	385	467		419	2.48	160	ESTER / ISO22	UL/UKCA/CE/TUV	SM07
NEU6187Z				724	905	1116	1356		1227	2.47	350	ESTER / ISO22	UL/CE/UKCA	SM06
NEU6210Z				865	1077	1322	1599		1452	2.51	350	ESTER / ISO22	UL/CE/UKCA	SM06
NT6217Z				1194	1493	1836	2220		2020	2.16	450	ESTER / ISO22	CCC/UL/CE/UKCA	SM26
NJ6220Z				1726	2206	2734	3308		3004	2.42	750	ESTER / ISO22	CCC/UL/CE/UKCA	SM18

Model	Cooling Capacity (°C)								Check Point (Evaporating 7.2°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-20	-15	-10	-5	0	5	10	15	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
NEU6181GK	307	361	445	558	701	872	1074		1237	2.33	350	ESTER / ISO22	UL/CE/UKCA	SM06
NEK6181GK	460	562	679	815	973	1156	1365		1260	2.04	350	ESTER / ISO22	UL/CE/UKCA	SM04
NEK6210GK	573	683	825	1000	1209	1450	1725		1584	2.11	350	ESTER / ISO22	UL/CE/UKCA	SM06
NEU6212GK	558	700	871	1071	1299	1557	1842		1697	2.20	350	ESTER / ISO22	UL/CE/UKCA	SM04
NEU6214GK	479	585	724	870	1099	1379	1710		1914	2.11	350	ESTER / ISO22	UL/CE/UKCA	SM04
NEU6215GK				1494	1792	2123	2486		2302	2.14	350	ESTER / ISO22	UL/CE/UKCA	SM06
NT6217GKV	512	623	764	937	1142	1381	1656		2163	2.20	450	ESTER / ISO22	UL/CE/UKCA	SM26
NT6220GKV	767	999	1269	1576	1919	2298	2711		2507	2.18	450	ESTER / ISO22	UL/CE/UKCA	SM26
NT6222GKV	792	1017	1277	1571	1900	2264	2663		3040	2.13	450	ESTER / ISO22	CCC/UL/CE/UKCA	SM26
NT6224GKV	1180	1490	1859	2287	2774	3320	3925		3617	2.30	450	ESTER / ISO22	UL/CE/UKCA	SM26
NT6226GKV			2075	2529	3042	3615	4247		3925	2.15	450	ESTER / ISO22	CCC/UL/CE/UKCA	SM26
NTX6220GKV	545	711	904	1124	1370	1644	1944		-	-		ESTER / ISO22	UL/CE/UKCA	SM26
NTX6222GKV	646	843	1080	1357	1673	2030	2426		3040	2.13		ESTER / ISO22	UL/CE/UKCA	SM26

R290 | 115V 60Hz | M/HBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
NEK6152U	SK	5.44	115 V 60 Hz	MBP	HST	CSIR	25.00	ARIMBP	60 Hz	Capillary Tube or Expansion Valve
NEU6181U	SK	7.28	115-127 V 60 Hz	MBP	HST	CSIR	30.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NEK6210U	SK	8.77	115 V 60 Hz	MBP	HST	CSIR	37.00	ARIMBP	60 Hz	Capillary Tube or Expansion Valve
NEK6213U	SK	12.11	115 V 60 Hz	MBP	HST	CSIR	44.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NEU6214U	SK	12.11	115-127 V 60 Hz	MBP	HST	CSCR	42.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NEU6214U	SK	12.11	115-127 V 60 Hz	MBP	HST	CSIR	42.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NEX4160UA	CN/SK	14.28	115-127 V 60 Hz	L/MBP	HST	CSCR	46.00	ARIMBP	60 Hz	Capillary Tube or Expansion Valve
NEU6217U	SK	14.28	115-127 V 60 Hz	MBP	HST	CSIR	29.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NEU6217U	SK	14.28	115-127 V 60 Hz	MBP	HST	CSCR	45.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NT6217UV	SK	14.50	115 V 60 Hz	MBP	HST	CSIR	44.00	ARIMBP	60 Hz	Capillary Tube or Expansion Valve
NT6217UV	SK	14.50	115 V 60 Hz	MBP	HST	CSCR	44.00	ARIMBP	60 Hz	Capillary Tube or Expansion Valve
NEX4170UA	CN/SK	16.80	115-127 V 60 Hz	L/MBP	HST	CSCR	49.50	ARIMBP	60 Hz	Capillary Tube or Expansion Valve
NEX6221UA	SK	16.80	115-127 V 60 Hz	M/HBP	HST	CSCR	49.50	ARIMBP	60 Hz	Capillary Tube or Expansion Valve
NT6220UV	SK	17.39	115 V 60 Hz	MBP	HST	CSCR	54.50	ARIMBP	60 Hz	Capillary Tube or Expansion Valve
NEX4180UA	CN/SK	18.70	115-127 V 60 Hz	L/MBP	HST	CSCR	53.00	ARIMBP	60 Hz	Capillary Tube or Expansion Valve
NT6222UV	SK	20.44	115 V 60 Hz	MBP	HST	CSCR	54.50	ARIMBP	60 Hz	Capillary Tube or Expansion Valve
NTX6222UV	SK	20.44	115-127 V 60 Hz	M/HBP	HST	CSCR	60.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
EMX4134U UD*	CN	7.95	115-127 V 60 Hz	L/MBP	HST	CSIR	30.50	ARIMBP	60 Hz	Capillary Tube or Expansion Valve
EMX4140U UD*	CN	9.50	115-127 V 60 Hz	L/MBP	HST	CSIR	30.50	ARIMBP	60 Hz	Capillary Tube or Expansion Valve

NA*: Product is implemented but this technical data is not available.
UD*: Product is under development so this technical data is still not available.

Model	Cooling Capacity (°C)								Check Point (Evaporating 7.2°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-20	-15	-10	-5	0	5	10	15	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
NEK6152U	221	279	346	422	507	602	706		862	2.44	350	ESTER / ISO22	UL/CE/UKCA	SM04
NEU6181U	393	499	626	773	940	1127	1334		1224	2.73	350	ESTER / ISO22	CCC/UL/CE/UKCA	SM04
NEK6210U	363	458	570	698	843	1004	1182		1369	2.48	350	ESTER / ISO22	UL/CE/UKCA	SM04
NEK6213U	660	807	984	1193	1432	1702	2002		1846	2.14	350	ESTER / ISO22	UL/CE/UKCA	SM04
NEU6214U	710	888	1094	1328	1589	1879	2197		2027	2.71	350	ESTER / ISO22	CCC/UL/CE/UKCA	SM06
NEU6214U	708	882	1084	1313	1571	1857	2170		1989	2.46	350	ESTER / ISO22	CCC/UL/CE/UKCA	SM06
NEX4160UA	696	871	1070	1294	1541				-	-	350	ESTER / ISO22	CCC/CE/EAC/UL	SM10
NEU6217U	818	1019	1252	1518	1817	2148	2512		2264	2.24	350	ESTER / ISO22	UL/CE/UKCA	SM05
NEU6217U	824	1023	1258	1528	1832	2172	2547		2351	2.56	350	ESTER / ISO22	UL/CE/UKCA	SM06
NT6217UV	495	626	793	995	1234	1512	1829		2103	2.53	450	ESTER / ISO22	UL/CE/UKCA	SM26
NT6217UV	498	624	801	1030	1314	1656	2056		2178	2.81	450	ESTER / ISO22	UL/CE/UKCA	SM26
NEX4170UA	820	1022	1251	1508	1791				-	-	350	ESTER / ISO22	CCC/CE/EAC/UL	SM10
NEX6221UA	831	992	1211	1488	1823				2814	2.63	350	ESTER / ISO22	UL/CE/UKCA	SM10
NT6220UV	620	794	996	1224	1479	1762	2071		2594	2.80	450	ESTER / ISO22	UL/CE/UKCA	SM26
NEX4180UA	924	1140	1382	1650	1945				-	-	350	ESTER / ISO22	CCC/CE/EAC/UL	SM10
NT6222UV	669	913	1182	1478	1799	2147	2521		3024	2.73	450	ESTER / ISO22	UL/CE/UKCA	SM26
NTX6222UV	1048	1321	1656	2503	2513	3035	3620		3323	2.84	450	ESTER / ISO22	UL/CE/UKCA	SM26
EMX4134U UD*									742	1.93	150	ALQUILB /ISO22	UL/UKCA/CE	SM04
EMX4140U UD*									874	1.76	150	ALQUILB /ISO22	UL/UKCA/CE	SM04

Technical Data

Compressors 200-220V 50Hz 230V 60Hz

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R134a | 200-220V 50Hz / 230V 60Hz | LBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
EMIS30HHR	BR	3.00	200-220 V 50 Hz / 230 V 60 Hz	L/M/HBP	LST	RSIR	9.00	ASHRAELBP32	50 Hz	Capillary Tube
EMIS30HHR	BR	3.00	200-220 V 50 Hz / 230 V 60 Hz	L/M/HBP	LST	RSIR	9.00	ASHRAELBP32	60 Hz	Capillary Tube
EMIE40HER	BR	3.40	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSIR/CSIR	8.60	ASHRAELBP32	50 Hz	Capillary Tube
EMIE40HER	BR	3.40	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSIR/CSIR	8.60	ASHRAELBP32	60 Hz	Capillary Tube
EM45HNR	BR	3.77	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSIR/CSIR	9.00	ASHRAELBP32	50 Hz	Capillary Tube
EM45HNR	BR	3.77	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSIR/CSIR	9.00	ASHRAELBP32	60 Hz	Capillary Tube
EMYE70HEP	BR	5.96	200-220 V 50 Hz / 230 V 60 Hz	LBP	LST	RSIR	6.50	ASHRAELBP32	60 Hz	Capillary Tube
EGAS80HLR	BR	6.36	200-220 V 50 Hz / 230 V 60 Hz	LBP	LST	RSIR/CSIR	14.50	ASHRAELBP32	50 Hz	Capillary Tube
EGAS80HLR	BR	6.36	200-220 V 50 Hz / 230 V 60 Hz	LBP	LST	RSIR/CSIR	14.50	ASHRAELBP32	60 Hz	Capillary Tube
FF7,5HBK	BR	6.92	200-220 V 50 Hz / 230 V 60 Hz	L/M/HBP	LST	RSIR/CSIR	16.70	ASHRAELBP32	50 Hz	Capillary Tube
FF7,5HBK	BR	6.92	200-220 V 50 Hz / 230 V 60 Hz	L/M/HBP	LST	RSIR/CSIR	16.70	ASHRAELBP32	60 Hz	Capillary Tube
FFI7,5HAK	BR	6.76	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSIR/CSIR	14.00	ASHRAELBP32	60 Hz	Capillary Tube
FFI7,5HAK	BR	6.76	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSIR/CSIR	14.00	ASHRAELBP32	50 Hz	Capillary Tube
FFUS80HAK	BR	6.76	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSIR/CSIR	14.50	ASHRAELBP32	50 Hz	Capillary Tube
FFUS80HAK	BR	6.76	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSIR/CSIR	14.50	ASHRAELBP32	60 Hz	Capillary Tube
FFI8,5HAK	BR	7.15	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSIR/CSIR	16.00	ASHRAELBP32	50 Hz	Capillary Tube
FFI8,5HAK	BR	7.15	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSIR/CSIR	16.00	ASHRAELBP32	60 Hz	Capillary Tube
FFI8,5HAK	CN	7.23	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSCR	16.00	ASHRAELBP32	50 Hz	Capillary Tube
FFI8,5HAK	CN	7.23	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSCR	16.00	ASHRAELBP32	60 Hz	Capillary Tube
EGAS90HLR	BR	7.15	200-220 V 50 Hz / 230 V 60 Hz	LBP	LST	RSIR/CSIR	14.30	ASHRAELBP32	50 Hz	Capillary Tube
EGAS100HLR	BR	7.95	200-220 V 50 Hz / 230 V 60 Hz	LBP	LST	RSIR/CSIR	17.55	ASHRAELBP32	50 Hz	Capillary Tube
EGAS100HLR	BR	7.95	200-220 V 50 Hz / 230 V 60 Hz	LBP	LST	RSIR/CSIR	17.55	ASHRAELBP32	60 Hz	Capillary Tube
EGZS100HLC	BR	7.95	200-220 V 50 Hz / 230 V 60 Hz	LBP	LST	RSCR	8.85	ASHRAELBP32	50 Hz	Capillary Tube
EGZS100HLC	BR	7.95	200-220 V 50 Hz / 230 V 60 Hz	LBP	LST	RSCR	8.85	ASHRAELBP32	60 Hz	Capillary Tube
FFUS100HAK	BR	7.95	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSIR/CSIR	17.55	ASHRAELBP32	50 Hz	Capillary Tube
FFUS100HAK	BR	7.95	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSIR/CSIR	17.55	ASHRAELBP32	60 Hz	Capillary Tube
FFI10HAK	BR	9.04	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSIR/CSIR	17.50	ASHRAELBP32	50 Hz	Capillary Tube
FFI10HAK	BR	9.04	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSIR/CSIR	17.50	ASHRAELBP32	60 Hz	Capillary Tube
FFI10HAK	CN	9.04	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSIR/CSIR	17.50	ASHRAELBP32	50 Hz	Capillary Tube
FFI10HAK	CN	9.04	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSIR/CSIR	17.50	ASHRAELBP32	60 Hz	Capillary Tube
NE2121Z	SK	9.26	200-220 V 50 Hz / 230 V 60 Hz	LBP	HST	CSIR	12.60	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NE2121Z	SK	9.26	200-220 V 50 Hz / 230 V 60 Hz	LBP	HST	CSIR	12.60	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve

NA*: Product is implemented but this technical data is not available.
UD*: Product is under development so this technical data is still not available.

Model	Cooling Capacity (°C)								Check Point (Evaporating -23.3°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-40	-35	-30	-25	-20	-15	-10	-5	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
EMIS30HHR		27	46	68	95	126	163	207	79	0.93	160	ESTER / ISO22	CCC/UL/UKCA/CE/ TUV/IRAM	SM07
EMIS30HHR		36	59	85	115	150	191	241	100	1.14	160	ESTER / ISO22	CCC/UL/UKCA/CE/ TUV/IRAM	SM07
EMIE40HER		39	60	85	116	152	194	242	95	1.18	180	ESTER / ISO10	UKCA/VDE/CE/TUV	SM01/SM02
EMIE40HER		50	75	105	141	183	234	293	117	1.32	180	ESTER / ISO10	UKCA/VDE/CE/TUV	SM01/SM02
EM45HNR		41	64	87	115	150	197	257	97	0.97	200	ESTER / ISO22	UL/UKCA/CE/TUV/ IRAM	SM01/SM02
EM45HNR		50	74	106	145	191	243	300	123	1.15	200	ESTER / ISO22	UL/UKCA/CE/TUV/ IRAM	SM01/SM02
EMYE70HEP		99	140	183	233	295	372		200	1.52	180	ESTER / ISO10	UKCA/VDE/CE/TUV/ IRAM/IMTRO	SM01
EGAS80HLR		77	123	175	235	306	390		195	1.53	230	ESTER / ISO10	UKCA/VDE/CE/TUV/ IRAM	SM03/SM04
EGAS80HLR		95	151	215	289	377	482		240	1.61	230	ESTER / ISO10	UKCA/VDE/CE/TUV/ IRAM	SM03/SM04
FF7,5HBK		70	106	149	202	266	341	431	149	1.00	280	ESTER / ISO22	UKCA/CE/TUV/IMTRO	SM08
FF7,5HBK		79	121	172	234	308	395	497	202	1.16	280	ESTER / ISO22	UKCA/CE/TUV/IMTRO	SM08
FFI7,5HAK		104	146	202	273	360	462	579	224	1.38	280	ESTER / ISO22	CCC/UKCA/VDE/CE/ TUV/IRAM	SM03
FFI7,5HAK		88	129	179	238	306	383	470	190	1.29	280	ESTER / ISO22	CCC/UKCA/VDE/CE/ TUV/IRAM	SM03
FFUS80HAK			134	181	239	310	395	496	185	1.29	230	ESTER / ISO10	UKCA/VDE/CE/TUV/ IRAM/IMTRO	SM08
FFUS80HAK		108	154	212	282	367	468	587	236	1.47	230	ESTER / ISO10	UKCA/VDE/CE/TUV/ IRAM/IMTRO	SM08
FFI8,5HAK		93	136	188	249	322	407	508	205	1.35	280	ESTER / ISO22	CCC/UL/UKCA/CE/ TUV/IRAM	SM03
FFI8,5HAK		105	157	219	294	384	491	618	241	1.37	280	ESTER / ISO22	CCC/UL/UKCA/CE/ TUV/IRAM	SM03
FFI8,5HAK		93	136	188	249	322	407	508	205	1.35	210	ESTER / ISO22	CE/KC	SM03
FFI8,5HAK		105	157	219	294	384	491	618	241	1.37	210	ESTER / ISO22	CE/KC	SM03
EGAS90HLR		95	143	197	260	335	424		218	1.50	230	ESTER / ISO10	UL/UKCA/VDE/CE/ TUV/IRAM	SM03/SM04
EGAS100HLR		106	162	225	298	383	483		250	1.52	230	ESTER / ISO10	CCC/UL/UKCA/VDE/ CE/TUV/IRAM	SM04
EGAS100HLR		130	200	277	366	470	593		310	1.61	230	ESTER / ISO10	CCC/UL/UKCA/VDE/ CE/TUV/IRAM	SM04
EGZS100HLC		115	165	225	298	385	489		250	1.74	280	ESTER / ISO10	NOM/UKCA/VDE/CE/ TUV/IRAM/IMTRO	SM34
EGZS100HLC		130	200	277	366	470	593		308	1.76	280	ESTER / ISO10	NOM/UKCA/VDE/CE/ TUV/IRAM/IMTRO	SM34
FFUS100HAK			167	225	296	382	484	608	249	1.45	350	ESTER / ISO10	UL/UKCA/VDE/CE/ TUV/IRAM/IMTRO/ISI	SM08
FFUS100HAK		138	196	267	353	456	578	723	295	1.52	350	ESTER / ISO10	UL/UKCA/VDE/CE/ TUV/IRAM/IMTRO/ISI	SM08
FFI10HAK		105	153	218	300	398	509	634	249	1.30	280	ESTER / ISO22	CCC/UL/UKCA/VDE/ CE/TUV/IRAM	SM03
FFI10HAK			187	268	362	471	598	749	301	1.45	280	ESTER / ISO22	CCC/UL/UKCA/VDE/ CE/TUV/IRAM	SM03
FFI10HAK		105	153	218	300	398	509	634	249	1.30	270	ESTER / ISO22	CE	SM03
FFI10HAK			187	268	362	471	598	749	301	1.45	270	ESTER / ISO22	CE	SM03
NE2121Z				229	304	394	499	618	254	1.28	350	ESTER / ISO22	CCC/IMQ/CE/UKCA	SM05
NE2121Z		147	199	268	356	460	583		296	1.27	350	ESTER / ISO22	CCC/IMQ/CE/UKCA	SM13

R404A | 200-220V 50Hz / 230V 60Hz | LBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
NEU2140GK	SK	8.77	200-230V 50Hz / 208-230V 60Hz	LBP	HST	CSIR	30.00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEU2140GK	SK	8.77	200-230V 50Hz / 208-230V 60Hz	LBP	HST	CSIR	30.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NT2168GKV	SK	14.50	200-240V 50Hz / 230V 60Hz	LBP	HST	CSIR	54.50	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NT2178GK	SK	17.39	200-240V 50Hz / 230V 60Hz	LBP	HST	CSCR	25.00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NT2178GK	SK	17.39	200-240V 50Hz / 230V 60Hz	LBP	HST	CSCR	25.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve

R290 | 200-220V 50Hz / 230V 60Hz | LBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
EM2U311IU	BR	3.00	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSCR	5.80	ASHRAELBP32	50 Hz	Capillary Tube
EMI50UER	BR	3.00	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSIR/CSIR	8.70	ASHRAELBP32	50 Hz	Capillary Tube
EMI50UER	BR	3.00	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSIR/CSIR	8.70	ASHRAELBP32	60 Hz	Capillary Tube
EM2U3115U	BR	3.97	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSCR	-	ASHRAELBP32	50 Hz	Capillary Tube
EM2U3115U	BR	3.97	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSCR	-	ASHRAELBP32	60 Hz	Capillary Tube
EMI70UER	BR	4.08	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSIR/CSIR	9.40	ASHRAELBP32	50 Hz	Capillary Tube
EMI70UER	BR	4.08	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSIR/CSIR	9.40	ASHRAELBP32	60 Hz	Capillary Tube
EM2X312IU	BR	5.54	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSCR	7.80	ASHRAELBP32	50 Hz	Capillary Tube
EM2X312IU	BR	5.54	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSCR	7.80	ASHRAELBP32	60 Hz	Capillary Tube
EM2X3125U	BR	6.09	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSCR	7.80	ASHRAELBP32	50 Hz	Capillary Tube
EM2X3125U	BR	6.09	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSCR	7.80	ASHRAELBP32	60 Hz	Capillary Tube
FFU130UAX	BR	6.76	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	HST	CSIR	19.00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
FFU130UAX	BR	6.76	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	HST	CSIR	19.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve

R600a | 200-220V 50Hz / 230V 60Hz | LBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
EMI30CNP	BR	4.99	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSIR	3.70	ASHRAELBP32	50 Hz	Capillary Tube
EMI30CNP	BR	4.99	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSIR	3.50	ASHRAELBP32	60 Hz	Capillary Tube
EMI40CNP	BR	6.36	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSIR	4.50	ASHRAELBP32	50 Hz	Capillary Tube
EMI40CNP	BR	6.36	200-220 V 50 Hz / 230 V 60 Hz	L/MBP	LST	RSIR	4.50	ASHRAELBP32	60 Hz	Capillary Tube
EMU40CLP	BR	5.96	200-220 V 50 Hz / 230 V 60 Hz	LBP	LST	RSIR	7.33	ASHRAELBP32	50 Hz	Capillary Tube
EMU40CLP	BR	5.96	200-220 V 50 Hz / 230 V 60 Hz	LBP	LST	RSIR	7.33	ASHRAELBP32	60 Hz	Capillary Tube
EMYE70CLP	BR	5.96	200-220 V 50 Hz / 230 V 60 Hz	LBP	LST	RSIR	8.20	ASHRAELBP32	50 Hz	Capillary Tube
EMYE70CLP	BR	5.96	200-220 V 50 Hz / 230 V 60 Hz	LBP	LST	RSIR	7.76	ASHRAELBP32	60 Hz	Capillary Tube
EGAS80CLP	BR	9.04	200-220 V 50 Hz / 230 V 60 Hz	LBP	LST	RSIR	7.90	ASHRAELBP32	50 Hz	Capillary Tube
EGAS80CLP	BR	9.04	200-220 V 50 Hz / 230 V 60 Hz	LBP	LST	RSIR	7.25	ASHRAELBP32	60 Hz	Capillary Tube

NA*: Product is implemented but this technical data is not available.
UD*: Product is under development so this technical data is still not available.

Model	Cooling Capacity (°C)								Check Point (Evaporating -23.3°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-40	-35	-30	-25	-20	-15	-10	-5	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
NEU2140GK			395	522	671	840	1032		573	1.36	350	ESTER / ISO22	KC/VDE/CE/UKCA	SM05
NEU2140GK	205	289	395	522	670	840	1031		568	1.36	350	ESTER / ISO22	KC/VDE/CE/UKCA	SM13
NT2168GKV			435	585	763	969	1202		646	1.29	450	ESTER / ISO22	IMQ/CE/UKCA	SM20
NT2178GK	282	409	560	734	934	1160	1412		800	1.15	450	ESTER / ISO22	IRAM/IMQ/CCC/UL/ CE/UKCA	SM20
NT2178GK	361	513	700	922	1179	1471	1799		1006	1.28	450	ESTER / ISO22	IRAM/IMQ/CCC/UL/ CE/UKCA	SM20

Model	Cooling Capacity (°C)								Check Point (Evaporating -23.3°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-40	-35	-30	-25	-20	-15	-10	-5	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
EM2U311IU			100	131	166	207	255	311	140	1.51	150	ESTER / ISO22	UKCA/CE/TUV/IRAM/ IMTRO	SM06
EMI50UER		67	92	119	147	178	212	248	129	1.30	170	ALQUILB / ISO32	CCC/UL/UKCA/CE/ TUV/IMTRO	SM01/SM02
EMI50UER		75	103	138	181	231	290	355	153	1.33	170	ALQUILB / ISO32	CCC/UL/UKCA/CE/ TUV/IMTRO	SM01/SM02
EM2U3115U		109	145	184	229	282	343	414	201	1.62	150	ESTER / ISO22	CCC/UL/UKCA/VDE/ CE/TUV/IRAM/IMTRO	SM06
EM2U3115U		133	173	220	274	337	409	492	239	1.68	150	ESTER / ISO22	CCC/UL/UKCA/VDE/ CE/TUV/IRAM/IMTRO	SM06
EMI70UER			128	163	203	250	304	368	176	1.18	160	ALQUILB / ISO32	CCC/UKCA/VDE/ CE/TUV	SM01/SM02
EMI70UER		106	142	190	248	317	396	485	210	1.30	160	ALQUILB / ISO32	CCC/UKCA/VDE/ CE/TUV	SM01/SM02
EM2X312IU		156	209	264	326	397	480	579	288	1.72	150	ESTER / ISO22	UKCA/VDE/CE/TUV/ IRAM/IMTRO/ISI	SM05
EM2X312IU		179	242	310	385	470	568	682	329	1.68	150	ESTER / ISO22	UKCA/VDE/CE/TUV/ IRAM/IMTRO/ISI	SM05
EM2X3125U			229	289	360	443	539	647	304	1.67	150	ESTER / ISO22	UKCA/VDE/CE/TUV/ IRAM/IMTRO/ISI	SM05
EM2X3125U		210	274	340	413	500	607	740	368	1.67	150	ESTER / ISO22	UKCA/VDE/CE/TUV/ IRAM/IMTRO/ISI	SM05
FFU130UAX		182	225	287	367	465	578	708	319	1.49	280	ALQUILB / ISO32	CCC/UL/UKCA/VDE/ CE/TUV	SM08
FFU130UAX		230	295	367	451	552	675	824	399	1.55	280	ALQUILB / ISO32	CCC/UL/UKCA/VDE/ CE/TUV	SM08

Model	Cooling Capacity (°C)								Check Point (Evaporating -23.3°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-40	-35	-30	-25	-20	-15	-10	-5	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
EMI30CNP		27	42	62	86	114	147	184	76	1.04	160	MINERAL / ISO32	UKCA/CE/IRAM	SM32
EMI30CNP		36	55	76	102	133	170	213	94	1.11	160	MINERAL / ISO32	UKCA/CE/IRAM	SM32
EMI40CNP		48	67	90	118	152	194	244	100	1.13	160	MINERAL / ISO32	UKCA/CE/IRAM	SM32
EMI40CNP		58	80	108	143	185	236	295	120	1.16	160	MINERAL / ISO32	UKCA/CE/IRAM	SM32
EMU40CLP		46	67	92	122	158	200		101	1.17	180	ALQUILB / ISO5	UKCA/CE/TUV	SM00
EMU40CLP		61	84	111	144	184	233		120	1.41	180	ALQUILB / ISO5	UKCA/CE/TUV	SM00
EMYE70CLP		95	101	171	250	285			182	1.32	180	ALQUILB / ISO5	UKCA/CE/TUV/IMTRO	SM07
EMYE70CLP		116	114	189	279	320			198	1.49	180	ALQUILB / ISO5	UKCA/CE/TUV/IMTRO	SM07
EGAS80CLP		93	128	170	224	289	370		190	1.44	280	ALQUILB / ISO5	UKCA/CE/TUV	SM09
EGAS80CLP		125	172	225	287	360	447		242	1.59	280	ALQUILB / ISO5	UKCA/CE/TUV	SM09

Technical Data

Compressors 208-230V 60Hz

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R134a | 208-230V 60Hz | LBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
EMIS20HHR	BR	2.27	208-230 V 60 Hz	L/M/HBP	LST	RSIR/CSIR	9.10	ASHRAELBP32	60 Hz	Capillary Tube
FFC110HBX	BR	9.50	208-230 V 60 Hz	L/M/HBP	HST	CSIR	19.60	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
FFU130HAX	BR	10.61	208-230 V 60 Hz	L/MBP	LST/HST	CSIR	18.30	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
FFI12HBX	BR	11.14	208-230 V 60 Hz	L/M/HBP	HST	CSIR	26.50	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
FFI12HBX	CN	11.14	208-230 V 60 Hz	L/M/HBP	HST	CSIR	26.50	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
FFU160HAX	BR	12.92	208-230 V 60 Hz	L/MBP	LST/HST	CSIR	19.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NT2140Z	SK	20.44	208-230 V 60 Hz	LBP	HST	CSIR	24.50	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve

R404A | 208-230V 60Hz | LBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
EHU2140GK	CN	9.10	208-230 V 60 Hz	LBP	HST	CSIR	21.20	ASHRAELBP32	60Hz	Capillary Tube or Expansion Valve
EHU2150GK	CN	11.20	208-230 V 60 Hz	LBP	HST	CSCR	23.00	ASHRAELBP32	60Hz	Capillary Tube or Expansion Valve
NEK2150GK	SK	12.11	208-230 V 60 Hz	LBP	HST	CSIR	44.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NEU2155GK	SK	12.11	208-230 V 60 Hz	LBP	HST	CSCR	23.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NEK2168GK	SK	14.28	208-230 V 60 Hz	LBP	HST	CSCR	27.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NEU2168GK	SK	14.28	208-230 V 60 Hz	LBP	HST	CSCR	29.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NT2168GKV	SK	14.50	208-230 V 60 Hz	LBP	HST	CSIR	54.50	ARI540	60 Hz	Capillary Tube or Expansion Valve
NEU2178GK	SK	16.80	208-230 V 60 Hz	LBP	HST	CSCR	29.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NT2178GKV	SK	17.39	208-230 V 60 Hz	LBP	HST	CSCR	66.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NT2180GKV	SK	20.44	208-230 V 60 Hz	LBP	HST	CSCR	40.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NT2192GK	SK	22.37	208-230 V 60 Hz	LBP	HST	CSCR	40.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NJ2192GJ	SK	26.11	208-230 V 60 Hz	LBP	HST	CSCR	44.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NT2212GK	SK	27.80	208-230 V 60 Hz	LBP	HST	CSCR	45.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NJ2212GJ	SK	34.38	208-230 V 60 Hz	LBP	HST	CSCR	54.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve

NA*: Product is implemented but this technical data is not available.
UD*: Product is under development so this technical data is still not available.

Model	Cooling Capacity (°C)								Check Point (Evaporating -23.3°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-40	-35	-30	-25	-20	-15	-10	-5	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
EMIS20HHR		20	34	52	73	100	132	170	58	0.85	160	ESTER / ISO22	UKCA/CE/TUV	SM01/SM02
FFC110HBX		136	208	296	403	531	681	857	328	1.44	280	ESTER / ISO22	KC/UL/UKCA/CE/TUV/ IMTRO	SM08
FFU130HAX			228	326	448	593	764	961	367	1.38	280	ESTER / ISO10	UKCA/CE/TUV	SM08
FFI12HBX		156	222	31	420	555	715	901	345	1.18	280	ESTER / ISO22	UL/UKCA/CE/TUV	SM08
FFI12HBX		156	222	31	420	555	715	901	345	1.18	270	ESTER / ISO22	UL/UKCA/CE/TUV	SM08
FFU160HAX			316	432	567	724	907	1121	478	1.49	280	ESTER / ISO22	UL/UKCA/CE/TUV/ IMTRO	SM08
NT2140Z		223	348	511	712	949	1222		576	1.27	450	ESTER / ISO22	KC/UL/CE/UKCA	SM20

Model	Cooling Capacity (°C)								Check Point (Evaporating -23.3°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-40	-35	-30	-25	-20	-15	-10	-5	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
EHU2140GK	228	317	425	554	707	885	1091		607	1.56	270	ESTER / ISO22	CCC/CE/UKCA	SM07
EHU2150GK	289	400	532	687	870	1083	1331		740	1.56	270	ESTER / ISO22	CCC/CE/UKCA	SM36
NEK2150GK			494	649	834	1047	1287		712	1.26	350	ESTER / ISO22	KC/VDE/UL/CE/UKCA	SM04
NEU2155GK			528	700	902	1136	1400		768	1.43	350	ESTER / ISO22	KC/UL/CE/UKCA	SM06
NEK2168GK			567	745	957	1200	1476		817	1.35	350	ESTER / ISO22	KC/UL/CE/UKCA	SM06
NEU2168GK			644	842	1074	1338	1637		921	1.42	350	ESTER / ISO22	KC/VDE/UL/CE/UKCA	SM06
NT2168GKV			314	437	586	761	963		477	1.02	450	ESTER / ISO22	KC/UL/CE/UKCA	SM20
NEU2178GK			744	967	1225	1515	1840		1054	1.39	350	ESTER / ISO22	KC/CCC/UL/CE/UKCA	SM06
NT2178GKV			699	935	1213	1532	1893		1032	1.30	450	ESTER / ISO22	KC/UL/CE/UKCA	SM20
NT2180GKV			778	1045	1349	1693	2079		1152	1.32	450	ESTER / ISO22	KC/CCC/UL/CE/UKCA	SM20
NT2192GK			864	1144	1465	1828	2232		1254	1.42	450	ESTER / ISO22	KC/UL/CE/UKCA	SM21
NJ2192GJ			885	1257	1686	2173	2718		1403	1.27	750	ESTER / ISO22	KC/CCC/VDE/UL/CE/ UKCA	SM16/SM17
NT2212GK			1172	1540	1960	2433	2958		1684	1.43	650	ESTER / ISO22	KC/UL/CE/UKCA	SM21
NJ2212GJ			1150	1589	2115	2728	3427		1774	1.30	750	ESTER / ISO22	KC/CCC/VDE/UL/CE/ UKCA	SM16/SM17

R290 | 208-230V 60Hz | LBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
EMI90UEX	BR	4.99	208-230 V 60 Hz	L/MBP	HST	CSIR	12.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
EM2X112IU	BR	5.54	208-230 V 60 Hz	LBP	LST	RSCR	17.23	ASHRAELBP32	60 Hz	Capillary Tube
EM2X1125U	BR	6.09	208-230 V 60 Hz	LBP	LST	RSCR	8.20	ASHRAELBP32	60 Hz	Capillary Tube
FFU160UAX	BR	7.95	208-230 V 60 Hz	L/MBP	HST	CSIR	25.60	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
EM2X3134U	BR	7.96	208-230 V 60 Hz	L/MBP	LST	RSCR	24.80	ASHRAELBP32	60 Hz	Capillary Tube
NEU2168U	SK	16.80	208-230 V 60 Hz	LBP	HST	CSCR	30.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NEU2178U	CN/SK	18.70	208-230 V 60 Hz	LBP	HST	CSCR	29.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NT2160U	SK	17.39	208-230 V 60 Hz	LBP	HST	CSIR	28.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NT2170UV	SK	20.44	208-230 V 60 Hz	LBP	HST	CSCR	55.00	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NT2180UV	SK	22.37	208-230 V 60 Hz	LBP	HST	CSCR	30.00	ARI540	60 Hz	Capillary Tube or Expansion Valve
NT2210UV	SK	27.80	208-230 V 60 Hz	LBP	HST	CSCR	67.00	ARI4	60 Hz	Capillary Tube or Expansion Valve

R134a | 208-230V 60Hz | M/HBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
FF8,5HBK	BR	7.95	208-230 V 60 Hz	L/M/HBP	LST	RSIR/CSIR	18.50	ASHRAELBP32	60 Hz	Capillary Tube
NT6215Z	SK	17.39	208-230 V 60 Hz	HBP	HST	CSIR	44.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NTU6224ZV	SK	27.80	208-230 V 60 Hz	HBP	HST	CSCR	30.00	ARIHBP	60 Hz	Capillary Tube or Expansion Valve

R404A | 208-230V 60Hz | M/HBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
NEK6181GK	SK	7.28	208-230 V 60 Hz	MBP	HST	CSIR	26.50	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NEK6210GK	SK	8.77	208-230 V 60 Hz	MBP	HST	CSIR	23.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NEK6213GK	SK	12.11	208-230 V 60 Hz	MBP	HST	CSIR	51.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NTX6220GKV	SK	12.55	208-230 V 60 Hz	M/HBP	HST	CSCR	30.00	ARIMBP	60 Hz	Capillary Tube or Expansion Valve
NT6220GK	SK	14.50	208-230 V 60 Hz	MBP	HST	CSIR	31.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NT6222GKV	SK	17.39	208-230 V 60 Hz	MBP	HST	CSIR	33.70	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NT6222GK	SK	17.39	208-230 V 60 Hz	MBP	HST	CSIR	33.70	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NT6224GKV	SK	20.44	208-230 V 60 Hz	MBP	HST	CSCR	36.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NJ9226GK	SK	21.71	208-230 V 60 Hz	MBP	HST	CSCR	34.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NT6226GKV	SK	22.37	208-230 V 60 Hz	MBP	HST	CSIR	77.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NT6226GKV	CN/SK	22.37	208-230 V 60 Hz	MBP	HST	CSCR	43.00	ARIMBP	60 Hz	Capillary Tube or Expansion Valve
NJ9238GK	SK	32.67	208-230 V 60 Hz	MBP	HST	CSCR	60.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve

NA*: Product is implemented but this technical data is not available.
UD*: Product is under development so this technical data is still not available.

Model	Cooling Capacity (°C)								Check Point (Evaporating -23.3°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-40	-35	-30	-25	-20	-15	-10	-5	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
EMI90UEX			197	251	322	405	501	606	275	1.33	160	ALQUILB / ISO32	UL/UKCA/CE/TUV	SM01/SM02
EM2X112IU		167	225	291	366	451	545		317	1.74	150	ESTER / ISO10	UKCA/CE/TUV/IMTRO	SM06
EM2X1125U		197	258	329	413	509	621		357	1.72	150	ESTER / ISO10	UKCA/CE/TUV/IMTRO	SM06
FFU160UAX			362	455	564	692	839	1009	492	1.51	280	ALQUILB / ISO32	UL/UKCA/CE/TUV/ IRAM	SM08
EM2X3134U		274	356	454	567	699	849	1021	491	1.69	150	ESTER / ISO22	UKCA/CE/TUV	SM06
NEU2168U			569	728	914	1128	1369		792	1.55	350	ESTER / ISO22	-	SM06
NEU2178U	431	573	754	966	1214	1497	1815		1052	1.50	350	ESTER / ISO22	CE/UL - SK(KC/VDE/ UL/CE/UKCA)	SM10
NT2160U			590	759	961	1197	1467		828	1.34	450	ESTER / ISO22	KC/VDE/UL/CE/UKCA	SM20
NT2170UV		505	657	847	1077	1345	1652	1999	921	1.31	450	ESTER / ISO22	VDE/UL/CE/UKCA	SM21
NT2180UV			535	695	886	1108	1360		749	0.98	450	ESTER / ISO22	KC/CCC/VDE/UL/CE/ UKCA	SM20
NT2210UV		521	680	869	1101	1371	1680	2027	943	1.00	450	ESTER / ISO22	KC/UL/CE/UKCA	SM21

Model	Cooling Capacity (°C)								Check Point (Evaporating 7.2°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-20	-15	-10	-5	0	5	10	15	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
FF8,5HBK	261	340	435	550	686	845	1029		915	2.50	280	ESTER / ISO22	UL/UKCA/CE/TUV	SM08
NT6215Z				1142	1411	1717	2060		1881	2.26	450	ESTER / ISO22	KC/UL/CE/UKCA	SM26
NTU6224ZV				1859	2306	2807	3337		3045	2.45	650	ESTER / ISO22	UL/CE/UKCA	SM26

Model	Cooling Capacity (°C)								Check Point (Evaporating 7.2°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-20	-15	-10	-5	0	5	10	15	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
NEK6181GK	495	564	673	817	992	1195	1422		1307	2.12	350	ESTER / ISO22	IMO/KC/UL/CE/UKCA	SM04
NEK6210GK	522	644	793	972	1178	1415	1680		1545	2.11	350	ESTER / ISO22	VDE/KC/UL/CE/UKCA	SM04
NEK6213GK	701	877	1083	1318	1582	1876	2199		2036	1.84	350	ESTER / ISO22	KC/CCC/UL/CE/UKCA	SM04
NTX6220GKV	615	786	982	1204	1451	1723	2021		1347	1,73	380	ESTER / ISO22	UL/CE/UKCA	SM26
NT6220GK	806	1021	1269	1307	1607	1952	2340		2139	2.24	450	ESTER / ISO22	KC/UL/CE/UKCA	SM26
NT6222GKV	993	1245	1550	1902	2292	2714	3163		2943	2.02	450	ESTER / ISO22	KC/UL/CE/UKCA	SM26
NT6222GK	993	1245	1550	1902	2292	2714	3163		2943	2.02	450	ESTER / ISO22	KC/UL/CE/UKCA	SM26
NT6224GKV	1176	1492	1859	2256	2713	3228	3804		3512	2.25	450	ESTER / ISO22	KC/UL/CE/UKCA	SM26
NJ9226GK	1035	1394	1813	2292	2831	3429	4087		3755	2.24	750	ESTER / ISO22	KC/VDE/UL/CE/UKCA	SM18
NT6226GKV	1301	1603	1963	2385	2869	3419	4035		3721	1.79	450	ESTER / ISO22	KC/VDE/UL/CE/UKCA	SM26
NT6226GKV	952	1203	1492	1821	2196	2593	3037		2007	1.48	450	ESTER / ISO22	CE/UKCA/EAC/ CCC	SM26
NJ9238GK			1998	2479	3030	3650	4340		2768	1.41	750	ESTER / ISO22	KC/CCC/VDE/UL/CE/ UKCA	SM16/SM17

R290 | 208-230V 60Hz | M/HBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
NEU6214U	SK	12.11	208-230 V 60 Hz	MBP	HST	CSCR	42.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NEU6217U	SK	14.28	208-230 V 60 Hz	MBP	HST	CSCR	29.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NTX6225UV	SK	22.37	208-230 V 60 Hz	M/HBP	HST	CSCR	35.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NT6224UV	SK	22.37	208-230 V 60 Hz	MBP	HST	CSCR	33.70	ARIMBP	60 Hz	Capillary Tube or Expansion Valve

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UD*: Product is under development so this technical data is still not available.

Model	Cooling Capacity (°C)								Check Point (Evaporating 7.2°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-20	-15	-10	-5	0	5	10	15	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
NEU6214U	664	830	1020	1066	1280	1518	1781		1631	2.44	350	ESTER / ISO22	CCC/UL/CE/UKCA	SM06
NEU6217U	835	1034	1268	1537	1839	2175	2546		2354	2.64	350	ESTER / ISO22	UL/CE/UKCA	SM06
NTX6225UV	1178	1497	1869	2295	2775	3310	3898		3596	2.85	450	ESTER / ISO22	UL/CE/UKCA	SM26
NT6224UV	838	1073	1348	1670	2088	2579	3143		3535	2.89	450	ESTER / ISO22	UL/CE/UKCA	SM26

Technical Data

Compressors 220-240V 50Hz

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R134a | 220-240V 50Hz | LBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
EM45HHR	BR	3.77	220-240 V 50 Hz	L/M/HBP	LST	RSIR/CSIR	9.50	ASHRAELBP32	50 Hz	Capillary Tube
EMI55HER	BR	4.60	220-240 V 50 Hz	LBP	LST	RSIR/CSIR	10.40	ASHRAELBP32	50 Hz	Capillary Tube
EMT55HLC	CN	5.19	220-240 V 50 Hz	LBP	LST	RSCR	4.00	ASHRAELBP32	50 Hz	Capillary Tube
EMYS60HEP	BR	5.19	220-240 V 50 Hz	LBP	LST	RSIR/RSCR	5.80	ASHRAELBP32	50 Hz	Capillary Tube
EM65HNR	BR	5.54	220-240 V 50 Hz	L/MBP	LST	RSIR/CSIR	12.50	ASHRAELBP32	50 Hz	Capillary Tube
EMU70HLC	BR	5.96	220-240 V 50 Hz	LBP	LST	RSCR	7.65	ASHRAELBP32	50 Hz	Capillary Tube
NEK2116Z	SK	7.37	220-240 V 50 Hz	LBP	HST	CSIR	10.00	ARI540	50 Hz	Capillary Tube or Expansion Valve
FF8,5HBK	BR	7.95	220-240 V 50 Hz	L/M/HBP	LST	RSIR/CSIR	18.20	ASHRAELBP32	50 Hz	Capillary Tube
FF8,5HBK	BR	7.95	220-240 V 50 Hz	L/M/HBP	LST	RSIR/CSIR	18.20	ASHRAELBP32	50 Hz	Capillary Tube
EMY75HLC	CN	8.35	220-240 V 50 Hz	LBP	LST	RSCR	7.80	ASHRAELBP32	50 Hz	Capillary Tube
NEK1118Z	SK	8.39	220-240 V 50 Hz	LBP	LST	RSIR/RSCR	6.90	ASHRAELBP32	50 Hz	Capillary Tube
NE2121Z	SK	9.26	220-240 V 50 Hz	LBP	HST	CSIR	12.60	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
EGU110HLC	BR	9.50	220-240 V 50 Hz	LBP	LST	RSCR	9.40	ASHRAELBP32	50 Hz	Capillary Tube
EGU130HLR	BR	10.61	220-240 V 50 Hz	LBP	LST	CSIR	17.45	ASHRAELBP32	50 Hz	Capillary Tube
FFU130HAX	BR	10.61	220-240 V 50 Hz	L/MBP	LST/HST	CSIR	17.50	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
EMY3130Z	CN	11.14	220-240 V 50 Hz	L/MBP	LST	CSIR	16.04	ASHRAELBP32	50 Hz	Capillary Tube
NE2130Z	SK	12.11	220-240 V 50 Hz	LBP	HST	CSIR	32.00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
FFU160HAX	BR	12.92	220-240 V 50 Hz	L/MBP	LST/HST	CSIR	17.70	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NE2134Z	SK	14.28	220-240 V 50 Hz	LBP	HST	CSIR	17.00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEK2140Z	SK	16.80	220-240 V 50 Hz	LBP	HST	CSIR	17.00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
EMY3115Z	BR	6.09	220-240 V 50 Hz	L/MBP	LST	RSIR	6.80	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve

NA*: Product is implemented but this technical data is not available.
UD*: Product is under development so this technical data is still not available.

Model	Cooling Capacity (°C)								Check Point (Evaporating -23.3°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-40	-35	-30	-25	-20	-15	-10	-5	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
EM45HHR		48	79	113	152	197	249	309	126	1.23	160	ESTER / ISO22	UKCA/VDE/CE/TUV/ IRAM/ISI	SM02
EMI55HER		57	82	113	150	196	252		125	1.23	160	ESTER / ISO22	UKCA/CE/TUV	SM01/SM02
EMT55HLC		69	102	138	180	232	294		152	1.41	180	ESTER / ISO22	CCC/VDE/CE/UKCA/ BIS	SM05
EMYS60HEP		66	95	134	182	238	305		144	1.35	160	ESTER / ISO10	UKCA/CE/IRAM	SM00
EM65HNR			108	138	180	235	301	379	152	1.15	160	ESTER / ISO22	-	SM01/SM02
EMU70HLC		64	99	145	202	270	347		165	1.40	180	ESTER / ISO10	-	SM01
NEK2116Z				127	180	247	328	422	171	0.91	340	ESTER / ISO22	VDE/CE/UKCA	SM05
FF8,5HBK		82	119	168	230	306	398	506	194	1.11	280	ESTER / ISO22	CCC/UL/UKCA/CE/ISI	SM08
FF8,5HBK		103	145	198	262	341	438	552	217	1.11	280	ESTER / ISO22	CCC/UL/UKCA/CE/ISI	SM08
EMY75HLC		97	143	193	251	322	408		213	1.50	150	ESTER / ISO7	CCC/VDE/CE	SM01
NEK1118Z				205	271	349	439	541	227	1.42	350	ESTER / ISO22	IMQ/CE/UKCA	SM00
NE2121Z				227	302	392	498	618	251	1.23	350	ESTER / ISO22	IMQ/VDE/CE/UKCA	SM05
EGU110HLC		121	181	249	329	426	545		274	1.59	230	ESTER / ISO10	UL/UKCA/CE	SM34
EGU130HLR		141	210	288	378	489	626		313	1.50	230	ESTER / ISO10	CCC/UKCA/VDE/CE/ IRAM	SM09
FFU130HAX			201	278	368	475	604	761	309	1.38	280	ESTER / ISO10	CCC/UKCA/VDE/CE/ IRAM	SM08
EMY3130Z		154	196	278	387	513	644	771	320	1.50	210	ESTER / ISO22	CCC/VDE/CE/EAC/ UKCA	SM07
NE2130Z				314	411	526	662	817	346	1.33	350	ESTER / ISO22	IMQ/CE/UKCA	SM05
FFU160HAX			266	355	458	581	732	914	390	1.45	280	ESTER / ISO22	CCC/UKCA/VDE/CE/ IRAM/ISI	SM08
NE2134Z				329	433	559	707	880	364	1.24	350	ESTER / ISO22	IRAM/IMQ/CE/UKCA	SM05
NEK2140Z				447	593	770	981	1227	495	1.18	350	ESTER / ISO22	IRAM/CCC/IMQ/CE/ UKCA	SM05
EMY3115Z		76		141									UKCA/VDE/CE	

R404A | 220-240V 50Hz | LBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
EMT2117GK	BR	4.50	220-240 V 50 Hz	LBP	HST	CSIR	-	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
EMT2121GK	BR	5.19	220-240 V 50 Hz	LBP	HST	CSIR	8.50	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
EMT2125GK	BR	5.96	220-240 V 50 Hz	LBP	HST	CSIR	9.80	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
EMT2130GK	BR	6.76	220-240 V 50 Hz	LBP	HST	CSIR	12.40	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEK2134GK	SK	8.77	220-240 V 50 Hz	LBP	HST	CSIR	37.50	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEU2140GK	SK	8.77	220-240 V 50 Hz	LBP	HST	CSIR	13.50	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
EHU2140GK	CN	9.10	220-240 V 50 Hz	LBP	HST	CSIR	19.53	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEK2150GK	SK	12.11	220-240 V 50 Hz	LBP	HST	CSIR	44.00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
EHU2150GK	CN	11.20	220-240 V 50 Hz	LBP	HST	CSCR	19.43	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEU2155GK	SK	12.11	220-240 V 50 Hz	LBP	HST	CSIR	18.00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
EHU2160GK	CN	12.70	220-240 V 50 Hz	LBP	HST	CSCR	22.70	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEU2168GKA	SK	13.50	220-240 V 50 Hz	LBP	HST	CSIR	-	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEU2168GK	SK	14.28	220-240 V 50 Hz	LBP	HST	CSIR	22.00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEU2178GKA	SK	15.70	220-240 V 50 Hz	LBP	HST	CSR NTC	-	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEU2178GK	CN/SK	16.80	220-240 V 50 Hz	LBP	HST	CSCR	21.00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NT2180GKV	SK	20.44	220-240 V 50 Hz	LBP	HST	CSCR	40.00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEU2183GKA	CN/SK	16.80	220-240 V 50 Hz	LBP	HST	CSR NTC	22.50	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NT2180GK	CN/SK	22.37	220-240 V 50 Hz	LBP	HST	CSIR	35.00	ENI2900	50 Hz	Capillary Tube or Expansion Valve
NT2192GK	SK	22.37	220-240 V 50 Hz	LBP	HST	CSIR	35.00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NT2192GK	CN/SK	22.37	220-240 V 50 Hz	LBP	HST	CSCR	37.00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NT2192GKA	CN/SK	22.37	220-240 V 50 Hz	LBP	HST	CSCR	32.00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NT2210GK	SK	26.21	220-240 V 50 Hz	LBP	HST	CSCR	33.00	ENI2900	50 Hz	Capillary Tube or Expansion Valve
NT2212GK	CN/SK	27.80	220-240 V 50 Hz	LBP	HST	CSCR	45.00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NJ2212GK	SK	34.38	220-240 V 50 Hz	LBP	HST	CSCR	36.00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NJX2219GK	SK	38.00	230 V 50 Hz	LBP	HST	CSCR	38.00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve

NA*: Product is implemented but this technical data is not available.
UD*: Product is under development so this technical data is still not available.

Model	Cooling Capacity (°C)								Check Point (Evaporating -23.3°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-40	-35	-30	-25	-20	-15	-10	-5	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
EMT2117GK	81	124	171	224	286	358	443		244	1.35	180	ESTER / ISO22	UKCA/VDE/CE	SM07
EMT2121GK	131	174	224	284	356	441	541		300	1.40	180	ESTER / ISO22	UKCA/VDE/CE	SM07
EMT2125GK	142	194	254	325	408	505	618		351	1.40	180	ESTER / ISO22	CCC/UKCA/VDE/ CE/ISI	SM07
EMT2130GK	154	209	273	350	439	543	664		390	1.34	180	ESTER / ISO22	CCC/UKCA/VDE/CE	SM07
NEK2134GK			327	427	544	680	833		467	1.31	350	ESTER / ISO22	IRAM/CCC/IMQ/VDE/ CE/UKCA	SM05
NEU2140GK			341	446	569	711	870		489	1.37	350	ESTER / ISO22	IRAM/CCC/VDE/CE/ UKCA	SM05
EHU2140GK	192	270	360	466	591	737	907		502	1.46	270	ESTER / ISO22	CCC/CE/UKCA/EAC	-
NEK2150GK			436	562	713	889	1091		613	1.21	350	ESTER / ISO22	IRAM/IMQ/CCC/CE/ UKCA	SM05
EHU2150GK	239	328	436	565	719	900	1112		621	1.56	270	ESTER / ISO22	CCC/CE/UKCA	-
NEU2155GK			460	601	766	955	1168		657	1.32	350	ESTER / ISO22	IRAM/CCC/VDE/CE/ UKCA	SM05
EHU2160GK	-	-	-	-	-	-	-		704	1.52	270	ESTER / ISO22	CCC/CE/UKCA	-
NEU2168GKA	-	-	-	-	-	-	-		734	1.32	350	ESTER / ISO22	IRAM/CCC/VDE/CE/ UKCA	SM35
NEU2168GK			523	682	867	1078	1314		745	1.29	350	ESTER / ISO22	IRAM/CCC/VDE/CE/ UKCA	SM05
NEU2178GKA	-	-	-	-	-	-	-		881	1.47	350	ESTER / ISO22	IRAM/CCC/VDE/CE/ UKCA	-
NEU2178GK	360	485	643	831	1050	1300	1583		914.2	1.42	350	ESTER / ISO22	CE/EAC/CCC/VDE	SM06
NT2180GKV			646	855	1100	1378	1689		940	1.26	450	ESTER / ISO22	IRAM/VDE/CE/UKCA	SM20
NEU2183GKA	340	479	651	858	1099	1374	1163		958	1.51	350	ESTER / ISO22	CE/EAC/CCC/VDE	SM35
NT2180GK	249	341	483	641	814	1008	1225		1054	1.30	450	ESTER / ISO22	IRAM/VDE/CE/UKCA	SM21
NT2192GK			726	960	1233	1546	1899		1054	1.30	450	ESTER / ISO22	IRAM/CCC/IMQ/CE/ UKCA	SM21
NT2192GK	376	545	751	994	1277	1594	1952		1089	1.47	450	ESTER / ISO22	IRAM/CCC/IMQ/CE/ UKCA	SM21
NT2192GKA	356	514	716	961	1250	1583	1959		1089	1.41	450	ESTER / ISO22	IRAM/CCC/IMQ/CE/ UKCA	SM21
NT2210GK			640	839	1069	1331	1624		667	1.03	650	ESTER / ISO22	VDE/CE/UKCA	SM21
NT2212GK	524	719	968	1262	1613	2027	2482		1373	1.37	650	ESTER / ISO22	CCC/VDE/CE/UKCA	SM21
NJ2212GK			1040	1403	1814	2272	2780		1547	1.33	750	ESTER / ISO22	IRAM/CCC/IMQ/CE/ UKCA	SM16/SM17
NJX2219GK	824	1094	1444	1877	2390	2985	3661		2069	1.42	750	ESTER / ISO22	CCC/VDE/CE/UKCA	SM16/SM17

R290 | 220-240V 50Hz | LBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
EM2X3113U	CN	3,67	220-240 V 50 Hz	L/MBP	LST	RSCR	12,40	ASHRAELBP32	50 Hz	Capillary Tube
EM2X3117U	CN	4,50	220-240 V 50 Hz	L/MBP	LST	RSCR	15,30	ASHRAELBP32	50 Hz	Capillary Tube
EMY3117U	CN	4,50	220-240 V 50 Hz	L/MBP	LST	RSIR	6,80	ASHRAELBP32	50 Hz	Capillary Tube
EM2X1121U	CN	5,54	220-240 V 50 Hz	LBP	LST	RSCR	8,40	ASHRAELBP32	50 Hz	Capillary Tube
EM2X3121U	CN	5,54	220-240 V 50 Hz	L/MBP	LST	RSCR	15,60	ASHRAELBP32	50 Hz	Capillary Tube
EMT2121U	CN	5,56	220-240 V 50 Hz	LLBP	LST	CSIR	7,70	ASHRAELBP32	50 Hz	Capillary Tube
EMT2125U	CN	5,96	220-240 V 50 Hz	LBP	LST	CSIR	8,50	ASHRAELBP32	50 Hz	Capillary Tube
EMTS2125U	CN	5,96	220-240 V 50 Hz	LBP	LST	CSIR	8,50	ASHRAELBP32	50 Hz	Capillary Tube
EM2X1125U	CN	6,09	220-240 V 50 Hz	LBP	LST	RSCR	8,40	ASHRAELBP32	50 Hz	Capillary Tube
EM2X3125U	CN	6,09	220-240 V 50 Hz	L/MBP	LST	RSCR	15,60	ASHRAELBP32	50 Hz	Capillary Tube
EMT3134U	CN	7,96	220-240 V 50 Hz	L/MBP	LST	RSCR	12,30	ASHRAELBP32	50 Hz	Capillary Tube
EMX3134U	CN	7,95	220-240 V 50 Hz	L/MBP	LST	RSCR	10,50	ASHRAELBP32	50 Hz	Capillary Tube
EMT3140U	CN	9,50	220-240 V 50 Hz	L/MBP	LST	RSCR	12,30	ASHRAELBP32	50 Hz	Capillary Tube
EMX3140U	CN	9,50	220-240 V 50 Hz	L/MBP	LST	RSIR	12,50	ASHRAELBP32	50 Hz	Capillary Tube
EMTE2134U	CN	9,50	220-240 V 50 Hz	LLBP	HST	CSIR	14,90	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEK2134U	SK	9,99	220-240 V 50 Hz	LBP	HST	CSIR	28,00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEU2140U	SK	9,99	220-240 V 50 Hz	LBP	HST	CSIR	30,00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
EHU2155U	CN	12,21	220-240 V 50 Hz	LBP	HST	CSIR	18,80	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
EHX2155U	CN	12,21	220-240 V 50 Hz	LBP	HST	CSIR	18,40	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEK2150U	SK	13,54	220-240 V 50 Hz	LBP	HST	CSIR	19,50	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEU2155U	SK	13,54	220-240 V 50 Hz	LBP	HST	CSCR	40,00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEK2160U	SK	16,80	220-240 V 50 Hz	LBP	HST	CSCR	18,00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEU2168U	SK	16,80	220-240 V 50 Hz	LBP	HST	CSCR	49,00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEU2170UA	CN/SK	16,80	220-240 V 50 Hz	LBP	HST	CSR NTC	23,50	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEU2178U	CN/SK	18,70	220-240 V 50 Hz	LBP	HST	CSCR	21,00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEX2180UB	CN/SK	18,70	220-240 V 50 Hz	LBP	HST	CSR NTC	22,50	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NT2170U	SK	20,44	220-240 V 50 Hz	LBP	HST	CSIR	30,00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEX2190UA	CN/SK	21,00	220-240 V 50 Hz	LBP	HST	CSCR	24,50	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NT2180U	SK	22,37	220-240 V 50 Hz	LBP	HST	CSCR	35,00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NT2210U	SK	27,80	220-240 V 50 Hz	LBP	HST	CSCR	33,00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NTX221IU	CN/SK	27,80	220-240 V 50 Hz	LBP	HST	CSCR	33,00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NTX2213U	SK	33,40	220-240 V 50 Hz	LBP	HST	CSCR	34,00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NJX2215U	SK	37,88	220-240 V 50 Hz	LBP	HST	CSCR	34,00	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
EHU2160U	CN	14,16	220-240 V 50 Hz	LBP	LST	CSCR	18,60	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
EHU4160U	CN	14,16	220-240 V 50 Hz	LBP	HST	CSCR	18,60	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
EMY4134U	CN	7,95	220-240 V 50 Hz	L/MBP	HST	CSIR	13,5	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
EMY4125U	CN	6,09	220-240 V 50 Hz	L/MBP	HST	CSIR	10,7	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve

NA*: Product is implemented but this technical data is not available.
UD*: Product is under development so this technical data is still not available.

Model	Cooling Capacity (°C)								Check Point (Evaporating -23.3°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-40	-35	-30	-25	-20	-15	-10	-5	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
EM2X3113U			87	121	161	207	260	320	136	1,43	150	ESTER / ISO22	CE/EAC/CCC/VDE	SM28
EM2X3117U			128	170	220	278	346	422	187	1,49	150	ESTER / ISO22	CE/EAC/CCC/VDE	SM28
EMY3117U			145	190	240	298	365		204	1,53	150	ESTER / ISO22	CCC/CE/UKCA	SM28
EM2X1121U		137	182	235	289	371	457		257	1,72	150	ESTER / ISO10	CCC/VDE/CE	SM05
EM2X3121U			202	256	317	387	471	572	286	1,72	150	ESTER / ISO22	CE/EAC/CCC/VDE	SM05
EMT2121U		147	188	234	289	357	441		254	1,42	180	ESTER / ISO22	CCC/VDE/CE/UKCA	SM05
EMT2125U		159	205	257	319	392	480		280	1,45	180	ESTER / ISO22	CCC/VDE/CE/UKCA	SM05
EMTS2125U		169	218	276	344	423	513		300	1,56	180	ESTER / ISO22	CCC/CE/UKCA	SM05
EM2X1125U		158	206	266	339	422	515		291	1,79	150	ESTER / ISO10	CCC/VDE/CE/UKCA	SM05
EM2X3125U			227	290	364	450	549	662	317	1,78	150	ESTER / ISO22	CE/EAC/CCC/VDE	SM05
EMT3134U		230		358		570		823	400	1,55	150	ESTER / ISO22	CCC/CE	SM05
EMX3134U		235	291	369	466	582	715	862	403	1,57	150	ESTER / ISO22	CCC/VDE/CE/UKCA	SM32
EMT3140U	204	271		436		654		979	475	1,55	150	ESTER / ISO22	CCC/CE	SM05
EMX3140U		270	331	425	547	691	850	1018	469	1,44	150	ESTER / ISO22	CCC/VDE/CE/UKCA	SM07
EMTE2134U	175	234	309	392	491	608	745		437	1,44	210	ESTER / ISO22	CCC/VDE/CE/UKCA	SM05
NEK2134U	219	265	331	416	521	646	790		449	1,36	350	ESTER / ISO22	CCC/VDE/CE/UKCA	SM05
NEU2140U	213	276	356	451	563	691	835		485	1,49	350	ESTER / ISO22	CCC/VDE/CE/UKCA	SM05
EHU2155U	267	348	444	558	691	845	1022		603	1,52	270	ESTER / ISO22	CCC/VDE/CE/EAC/ UKCA	SM07
EHX2155U	263	350	449	568	705	862	1039		608	1,63	270	ESTER / ISO22	CCC/VDE/CE/UKCA	SM07
NEK2150U	251	323	419	538	681	847	1034		582	1,31	350	ESTER / ISO22	CCC/VDE/CE/UKCA	SM05
NEU2155U			473	603	757	933	1131		655	1,61	350	ESTER / ISO22	CCC/VDE/CE/UKCA	SM06
NEK2160U	312	406	527	674	848	1047	1273		729	1,44	350	ESTER / ISO22	CCC/VDE/CE/UKCA	SM06
NEU2168U	333	437	569	728	914	1128	1369		788	1,53	350	ESTER / ISO22	CCC/VDE/CE/UKCA	SM06
NEU2170UA	320	439	584	752	943	1160	1400		820	1,54	350	ESTER / ISO22	CE/EAC/CCC/VDE	SM35
NEU2178U	395	509	654	830	1035	1270	1536		905	1,52	350	ESTER / ISO22	CE/EAC/CCC/VDE	SM10
NEX2180UB	380	509	666	851	1063	1302	1569		929	1,59	350	ESTER / ISO22	CE/EAC/CCC/VDE	SM35
NT2170U	321	435	578	749	949	1178	1436		816	1,31	450	ESTER / ISO22	CCC/VDE/CE/UKCA	SM19
NEX2190UA	422	569	748	959	1202	1478	1786		1032	1,59	350	ESTER / ISO22	CCC/VDE/CE/UKCA	SM10
NT2180U			660	859	1092	1360	1661		939	1,47	450	ESTER / ISO22	CCC/VDE/CE/UKCA	SM20
NT2210U	475	632	833	1078	1366	1696	2069		1186	1,41	450	ESTER / ISO22	CCC/VDE/CE/UKCA	SM19
NTX221IU	377	724	951	1216	1520	1832	2241		1317	1,54	450	ESTER / ISO22	CCC/VDE/CE/UKCA	SM26
NTX2213U	681	907	1172	1475	1817	2198	2617		1583	1,50	450	ESTER / ISO22	CCC/VDE/CE/UKCA	SM26
NJX2215U	655	900	1200	1553	1960	2421	2937		1619	1,49	750	ESTER / ISO22	CCC/VDE/CE	DWG14
EHU2160U	282	383		642		958		1438	680	1,57	270	ESTER / ISO22	CCC/CE/UKCA/EAC	SM36
EHU4160U		369		615		956		1440	680	1,57	270	ESTER / ISO22	CCC/VDE/CE	SM36
EMY4134U	163	214		355		550		807	389	1,49	150	ALQUILB / ISO22	EAC	SM07
EMY4125U		164		266		419		619	293	1,57	150	ALQUILB / ISO22	EAC	SM07

R600a | 220-240V 50Hz | LBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
EMX20CLC	BR	5.96	220-240 V 50 Hz	LBP	LST	RSCR	1.95	ASHRAELBP32	50 Hz	Capillary Tube
EMX32CLC	CN	5.96	220-240 V 50 Hz	LBP	LST	RSCR	2.68	ASHRAELBP32	50 Hz	Capillary Tube
EMRS46CLP	CN	8.23	220-240 V 50 Hz	LBP	LST	RSCR	5.73	ASHRAELBP32	50 Hz	Capillary Tube
EMD32CLT	CN	6.20	220-240 V 50 Hz	LBP	LST	RSCR	2.87	ASHRAELBP32	50 Hz	Capillary Tube

R134a | 220-240V 50Hz | M/HBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
NEK6160Z	SK	7.28	220-240 V 50 Hz	HBP	HST	CSIR	11.50	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NEK6170Z	SK	8.39	220-240 V 50 Hz	HBP	HST	CSIR	16.50	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
EMTE6187Z	CN	9.50	220-240 V 50 Hz	HBP	HST	CSIR	16.50	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
FFI12HBK	BR	11.14	220-240 V 50 Hz	L/M/HBP	LST	RSIR/CSIR	20.00	ASHRAEHBP32	50 Hz	Capillary Tube
FFI12HBK	CN	11.14	220-240 V 50 Hz	L/M/HBP	HST	RSIR/CSIR	20.00	ASHRAEHBP32	50 Hz	Capillary Tube
NEU6210Z	SK	12.11	220-240 V 50 Hz	HBP	HST	CSCR	18.50	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NEU6212Z	SK	14.28	220-240 V 50 Hz	HBP	HST	CSIR	20.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NEU6214Z	SK	16.80	220-240 V 50 Hz	HBP	HST	CSIR	22.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NT6217Z	SK	20.44	220-240 V 50 Hz	HBP	HST	CSCR	25.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NJ6226Z	SK	34.38	220-240 V 50 Hz	HBP	HST	CSCR	31.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve

NA*: Product is implemented but this technical data is not available.
UD*: Product is under development so this technical data is still not available.

Model	Cooling Capacity (°C)								Check Point (Evaporating -23.3°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-40	-35	-30	-25	-20	-15	-10	-5	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
EMX20CLC		29	42	57	75	97	122		64	1.62	180	ALQUILB / ISO5	UKCA/VDE/CE/IRAM	-
EMX32CLC		46	67	91	119	152	191		102	1.78	180	ALQUILB / ISO5	CCC/VDE/CE/UKCA	SM01
EMRS46CLP		66	92	122	159	204	261		135	1.66	150	ALQUILB / ISO5	CCC/CE	SM01
EMD32CLT		177		350		615		970	97.9	1.96	150	ALQUILB/ISO5	CCC/VDE/CE/UKCA	SM36

Model	Cooling Capacity (°C)								Check Point (Evaporating 7.2°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-20	-15	-10	-5	0	5	10	15	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
NEK6160Z		258	329	419	527	653	799		721	2.44	350	ESTER / ISO22	IMO/CE/UKCA	SM05
NEK6170Z				513	644	795	967		875	2.35	350	ESTER / ISO22	IMO/CE/UKCA	SM05
EMTE6187Z		356	453	567	702	860	1045		943	2.52	210	ESTER / ISO22	CCC/VDE/CE/UKCA	SM07
FFI12HBK	381	496	631	790	968	1167	1390	1635	1316	2.61	280	ESTER / ISO22	CCC/UL/UKCA/VDE/ CE/IRAM	SM08
FFI12HBK	381	496	631	790	968	1167	1390	1635	1316	2.61	270	ESTER / ISO22	CE/CCC	SM08
NEU6210Z				734	918	1132	1376		1246	2.57	350	ESTER / ISO22	CCC/VDE/CE/UKCA	SM06
NEU6212Z				850	1061	1304	1577		1432	2.31	350	ESTER / ISO22	CCC/VDE/CE/UKCA	SM05
NEU6214Z				992	1228	1496	1797		1638	2.16	350	ESTER / ISO22	IRAM/CCC/VDE/CE/ UKCA	SM05
NT6217Z				1121	1385	1698	2057		1866	2.43	450	ESTER / ISO22	IRAM/IMO/CE/UKCA	SM26
NJ6226Z				1751	2209	2711	3258		2983	2.41	750	ESTER / ISO22	IRAM/CCC/VDE/CE/ UKCA	SM17

R404A | 220-240V 50Hz | M/HBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
EMT6152GK	BR	4.50	220-240 V 50 Hz	MBP	HST	CSIR	8.50	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
EMT6165GK	BR	5.19	220-240 V 50 Hz	MBP	HST	CSIR	10.40	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NEK6165GK	SK	6.20	220-240 V 50 Hz	MBP	HST	CSIR	12.40	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NEK6181GK	SK	7.28	220-240 V 50 Hz	MBP	HST	CSIR	26.50	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NEU6210GK	SK	7.28	220-240 V 50 Hz	MBP	HST	CSIR	16.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NEU6212GK	SK	8.77	220-240 V 50 Hz	MBP	HST	CSIR	19.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NEU6215GK	SK	12.11	220-240 V 50 Hz	MBP	HST	CSCR	22.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NEK6217GK	SK	14.28	220-240 V 50 Hz	MBP	HST	CSCR	21.50	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NT6224GK	SK	20.44	220-240 V 50 Hz	MBP	HST	CSCR	29.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NTU6234GKV	SK	23.74	220-240 V 50 Hz	MBP	HST	CSCR	37.50	ENI2900MBP	50 Hz	Capillary Tube or Expansion Valve
NJ9232GK	SK	26.11	220-240 V 50 Hz	MBP	HST	CSCR	43.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NTU6238GKV	SK	26.20	220-240 V 50 Hz	MBP	HST	CSR	37.50	ENI2900MBP	50 Hz	Capillary Tube or Expansion Valve
NTU6240GKV	SK	27.80	220-240 V 50 Hz	MBP	HST	CSCR	37.50	ARIMBP	50 Hz	Capillary Tube or Expansion Valve
NJ9238GK	SK	32.67	220-240 V 50 Hz	MBP	HST	CSCR	43.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NJX6250GK	SK	38.00	230 V 50 Hz	M/HBP	HST	CSCR	65.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NT6226GK	CN/SK	22.37	220-240 V 50 Hz	MBP	HST	CSCR	38.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve

NA*: Product is implemented but this technical data is not available.
UD*: Product is under development so this technical data is still not available.

Model	Cooling Capacity (°C)								Check Point (Evaporating 7.2°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-20	-15	-10	-5	0	5	10	15	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
EMT6152GK	255	321	396	483	582	695	824		758	2.30	180	ESTER / ISO22	UKCA/VDE/CE	SM07
EMT6165GK	287	361	448	550	667	801	951		877	2.23	180	ESTER / ISO22	CCC/UKCA/VDE/ CE/ISI	SM07
NEK6165GK	366	433	519	625	751	895	1059		975	2.09	350	ESTER / ISO22	IMQ/CE/UKCA	SM05
NEK6181GK	384	463	565	690	836	1006	1199		1100	2.14	350	ESTER / ISO22	CCC/VDE/CE/UKCA	SM05
NEU6210GK			600	741	903	1083	1283		1180	2.31	350	ESTER / ISO22	CCC/VDE/CE/UKCA	SM05
NEU6212GK	466	595	743	912	1101	1309	1537		1423	2.24	350	ESTER / ISO22	CCC/VDE/CE/UKCA	SM05
NEU6215GK	664	830	1020	1235	1475	1740	2029		1862	1.92	350	ESTER / ISO22	IRAM/CCC/VDE/CE/ UKCA	SM06
NEK6217GK	733	910	1118	1358	1629	1932	2266		2097	2.09	350	ESTER / ISO22	CCC/IMQ/CE/UKCA	SM06
NT6224GK	952	1217	1532	1896	2311	2774	3287		3022	2.37	450	ESTER / ISO22	VDE/CE/UKCA	SM26
NTU6234GKV			1655	2022	2425	2847	3270		3835	2.80	650	ESTER / ISO22	CCC/VDE/CE/UKCA	SM26
NJ9232GK			1945	2462	3052	3716	4453		4080	2.60	750	ESTER / ISO22	IRAM/CCC/VDE/CE/ UKCA	SM18
NTU6238GKV			1827	2234	2692	3187	3706		4213	2.70	650	ESTER / ISO22	CCC/VDE/CE/UKCA	SM26
NTU6240GKV				2538	3095	3814	4742		5333	2.58	650	ESTER / ISO22	CCC/VDE/CE/UKCA	SM26
NJ9238GK	1411	1827	2324	2901	3559	4296	5114		4702	2.18	750	ESTER / ISO22	IRAM/CCC/VDE/CE/ UKCA	SM17
NJX6250GK					8345	10451	12888	15658	5842	2.29	750	ESTER / ISO22	CCC/VDE/CE/UKCA	DWG14
NT6226GK	1101	1366	1684	2061	2500	2989	3542		3355	2.44	450	ESTER / ISO22	CE/UKCA/EAC/ CCC/ VDE	SM26

R290 | 220-240V 50Hz | M/HBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
NEU618IU	SK	7.28	220-240 V 50 Hz	MBP	HST	CSIR	13.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
EMTE618IU	CN	7.55	220-240 V 50 Hz	MBP	HST	CSIR	16.50	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NEK6210U	SK	8.77	220-240 V 50 Hz	MBP	HST	CSIR	16.10	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NEU6210U	SK	8.77	220-240 V 50 Hz	MBP	HST	CSIR	20.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NEU6212U	SK	9.99	220-240 V 50 Hz	MBP	HST	CSIR	20.50	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NEU6212U	SK	9.99	220-240 V 50 Hz	MBP	HST	CSCR	20.50	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
EHU6212U	CN	10.61	220-240 V 50 Hz	MBP	HST	CSIR	18.80	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NEU6214U	SK	12.11	220-240 V 50 Hz	MBP	HST	CSCR	18.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
EHU6214U	CN	12.21	220-240 V 50 Hz	MBP	HST	CSIR	22.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NEU6217U	SK	14.28	220-240 V 50 Hz	MBP	HST	CSIR	29.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NEX6217UA	CN/SK	14.30	220-240 V 50 Hz	M/HBP	HST	CSIR	21.50	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NEX6217UA	SK	14.30	220-240 V 50 Hz	M/HBP	HST	CSR NTC	21.50	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NT6217U	SK	14.50	220-240 V 50 Hz	MBP	HST	CSIR	25.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NEU6220U	SK	16.80	220-240 V 50 Hz	MBP	HST	CSCR	22.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NT6220U	SK	17.39	220-240 V 50 Hz	MBP	HST	CSIR	29.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NT6220U	SK	17.39	220-240 V 50 Hz	MBP	HST	CSCR	29.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NEX6222UA	SK	18.70	220-240 V 50 Hz	M/HBP	HST	CSCR	24.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NT6222U	SK	20.44	220-240 V 50 Hz	MBP	HST	CSCR	29.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NEX6225UA	CN/SK	21.00	220-240 V 50 Hz	M/HBP	HST	CSCR	28.00	ENI2900MBP	50 Hz	Capillary Tube or Expansion Valve
NT6224U	SK	22.37	220-240 V 50 Hz	MBP	HST	CSCR	30.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NT6230U	SK	27.80	220-240 V 50 Hz	MBP	HST	CSCR	39.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NTX6233U	CN/SK	27.80	220-240 V 50 Hz	M/HBP	HST	CSCR	40.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NTX6238U	CN/SK	33.40	220-240 V 50 Hz	M/HBP	HST	CSCR	40.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve

NA*: Product is implemented but this technical data is not available.
UD*: Product is under development so this technical data is still not available.

Model	Cooling Capacity (°C)								Check Point (Evaporating 7.2°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-20	-15	-10	-5	0	5	10	15	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
NEU618IU	340	420	518	634	770	923	1096		1000	2.70	350	ESTER / ISO22	CCC/VDE/CE/UKCA	SM05
EMTE618IU	386		583	705	834	963			1025	2.75	210	ESTER / ISO22	CCC/VDE/CE/UKCA	SM05
NEK6210U	400	495	611	747	905	1083	1281		1169	2.55	350	ESTER / ISO22	VDE/CE/UKCA	SM05
NEU6210U	394	493	616	761	930	1121	1336		1231	2.66	350	ESTER / ISO22	CCC/VDE/CE/UKCA	SM05
NEU6212U	477	597	739	903	1090	1300	1532		1397	2.79	350	ESTER / ISO22	CCC/VDE/CE/UKCA	SM06
NEU6212U	478	598	741	909	1100	1314	1554		1387	2.60	350	ESTER / ISO22	CCC/VDE/CE/UKCA	SM06
EHU6212U	548	672	809	971	1152	1358	1589		1457	2.60	270	ESTER / ISO22	CCC/VDE/CE/EAC/ UKCA	SM07
NEU6214U	568	708	872	1060	1272	1509	1770		1645	2.47	350	ESTER / ISO22	CCC/VDE/CE/UKCA	SM06
EHU6214U	623	757	920	1102	1302	1534	1796		1651	2.56	270	ESTER / ISO22	CCC/VDE/CE/EAC/ UKCA	SM07
NEU6217U	661	818	1003	1216	1457	1726	2023		1903	2.35	350	ESTER / ISO22	CCC/VDE/CE/UKCA	SM05
NEX6217UA	688	842	1030	1251	1506	1796	2119		1944	2.56	350	ESTER / ISO22	CE/EAC/CCC/VDE	SM05
NEX6217UA	695	862	1061	1291	1554	1849	2176		1984	2.89	350	ESTER / ISO22	CCC/VDE/CE/UKCA	SM05
NT6217U	547	692	873	1089	1341	1629	1952		1786	2.58	450	ESTER / ISO22	VDE/CE/UKCA	SM19
NEU6220U	817	1016	1243	1500	1790	2117	2481		2291	2.60	350	ESTER / ISO22	VDE/CE/UKCA	SM06
NT6220U	675	880	1119	1391	1696	2035	2407		2202	2.45	450	ESTER / ISO22	CCC/VDE/CE/UKCA	SM19
NT6220U	729	930	1165	1437	1745	2091	2476		2250	2.79	450	ESTER / ISO22	CCC/VDE/CE/UKCA	SM19
NEX6222UA	930	1136	1388	1683	2023	2407	2836		2617	2.82	350	ESTER / ISO22	CCC/VDE/CE/UKCA	SM26
NT6222U	792	1028	1310	1639	2011	2428	2888		2635	2.77	450	ESTER / ISO22	CCC/VDE/CE/UKCA	SM19
NEX6225UA	1042	1286	1574	1906	2280	2698	3159		2916	2.68	350	ESTER / ISO22	CE/EAC/CCC/VDE	SM10
NT6224U	900	1130	1419	1764	2162	2609	3102		2843	2.73	450	ESTER / ISO22	CCC/VDE/CE/UKCA	SM19
NT6230U	1191	1510	1883	2311	2793	3328	3918		3621	2.63	450	ESTER / ISO22	CCC/IMQ/CE/UKCA	SM19
NTX6233U	1347	1665	2043	2483	2982	3540	4160		3774	2.77	450	ESTER / ISO22	VDE/CE/UKCA	SM26
NTX6238U	1546	1929	2376	2886	3460	4098	4799		4416	2.60	450	ESTER / ISO22	VDE/CE/UKCA	SM26

Technical Data

Compressors 220-240V 50-60Hz

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R134a | 220-240V 50-60Hz | M/HBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
EM20HHR	BR	2.27	220-240 V 50-60 Hz	L/M/HBP	LST	RSIR/CSIR	6.50	ASHRAEHBP32	50 Hz	Capillary Tube
EM20HHR	BR	2.27	220-240 V 50-60 Hz	L/M/HBP	LST	RSIR/CSIR	6.50	ASHRAEHBP32	60 Hz	Capillary Tube
EM30HHR	BR	3.00	220-240 V 50-60 Hz	L/M/HBP	LST	RSIR/CSIR	8.50	ASHRAEHBP46	50 Hz	Capillary Tube
EM30HHR	BR	3.00	220-240 V 50-60 Hz	L/M/HBP	LST	RSIR/CSIR	8.00	ASHRAEHBP46	60 Hz	Capillary Tube
EMIS30HHR	BR	3.00	220-240 V 50-60 Hz	L/M/HBP	LST	RSIR	8.80	ASHRAEHBP32	50 Hz	Capillary Tube
EMIS30HHR	BR	3.00	220-240 V 50-60 Hz	L/M/HBP	LST	RSIR	8.80	ASHRAEHBP32	60 Hz	Capillary Tube
EM55HHR	BR	4.60	220-240 V 50-60 Hz	HBP	LST	RSIR	9.31	ASHRAEHBP32	50 Hz	Capillary Tube
EM55HHR	BR	4.60	220-240 V 50-60 Hz	HBP	LST	RSIR	9.31	ASHRAEHBP32	60 Hz	Capillary Tube
EM65HHR	BR	5.54	220-240 V 50-60 Hz	M/HBP	LST	RSIR/CSIR	14.30	ASHRAEHBP32	50 Hz	Capillary Tube
EM65HHR	BR	5.54	220-240 V 50-60 Hz	M/HBP	LST	RSIR/CSIR	14.30	ASHRAEHBP32	60 Hz	Capillary Tube
FF7,5HBK	BR	6.92	220-240 V 50-60 Hz	L/M/HBP	LST	RSIR/CSIR	15.80	ASHRAEHBP32	50 Hz	Capillary Tube
FF7,5HBK	BR	6.92	220-240 V 50-60 Hz	L/M/HBP	LST	RSIR/CSIR	15.80	ASHRAEHBP32	60 Hz	Capillary Tube
NEU6187Z	SK	9.99	200-240V 50HZ/230V 60Hz or 200-230V 50Hz/ 208-230V 60Hz	HBP	HST	CSIR	13.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NEU6187Z	SK	9.99	200-240V 50HZ/230V 60Hz or 200-230V 50Hz/ 208-230V 60Hz	HBP	HST	CSIR	13.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NT6220Z	SK	22.37	200-240V 50HZ/230V 60Hz	HBP	HST	CSIR	29.50	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve

R404A | 220-240V 50-60Hz | M/HBP

Model	Origin	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
NT6220GK	SK	14.50	200-240V 50HZ/230V 60Hz	MBP	HST	CSIR	31.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NT6222GK	SK	17.39	200-240V 50HZ/230V 60Hz	MBP	HST	CSIR	30.00	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NT6222GK	SK	17.39	200-240V 50HZ/230V 60Hz	MBP	HST	CSIR	30.00	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve

NA*: Product is implemented but this technical data is not available.
UD*: Product is under development so this technical data is still not available.

Model	Cooling Capacity (°C)								Check Point (Evaporating 7.2°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-20	-15	-10	-5	0	5	10	15	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
EM20HHR	58	79	104	135	170	212	260	315	246	2.51	160	ESTER / ISO22	CCC/UKCA/VDE/CE/ TUV/IRAM/ISI	SM02
EM20HHR	73	97	126	160	201	251	310	380	292	2.48	160	ESTER / ISO22	CCC/UKCA/VDE/CE/ TUV/IRAM/ISI	SM02
EM30HHR	96	127	164	206	256	312	377	450	343	2.45	160	ESTER / ISO22	The model has dif- ferent certifications depending on its electrical kit: Kit 1 → CCC UL UKCA VDE CE TUV Kit 2 → UKCA VDE CE	SM07
EM30HHR	117	153	196	246	306	376	458	554	404	2.53	160	ESTER / ISO22	The model has dif- ferent certifications depending on its electrical kit: Kit 1 → CCC UL UKCA VDE CE TUV Kit 2 → UKCA VDE CE	SM07
EMIS30HHR	95	126	163	207	259	319	390	471	363	2.60	160	ESTER / ISO22	CCC/UL/UKCA/CE/ TUV/IRAM	SM01/SM02
EMIS30HHR	115	150	191	241	300	370	451	546	434	2.68	160	ESTER / ISO22	CCC/UL/UKCA/CE/ TUV/IRAM	SM01/SM02
EM55HHR				326	399	485	584	694	529	2.68	160	ESTER / ISO22	UL/UKCA/VDE/CE/ TUV/ISI	SM01/SM02
EM55HHR				377	471	579	701	837	630	2.60	160	ESTER / ISO22	UL/UKCA/VDE/CE/ TUV/ISI	SM01/SM02
EM65HHR			304	388	484	592	711	842	645	2.39	160	ESTER / ISO22	The model has dif- ferent certifications depending on its electrical kit: Kit 1 → UL UKCA VDE CE TUV IMTRO Kit 2 → UL UKCA VDE CE	SM07
EM65HHR			381	473	581	705	845	1001	766	2.49	160	ESTER / ISO22	The model has dif- ferent certifications depending on its electrical kit: Kit 1 → UL UKCA VDE CE TUV IMTRO Kit 2 → UL UKCA VDE CE	SM07
FF7,5HBK	201	264	340	429	534	657	798	959	719	2.23	280	ESTER / ISO22	UKCA/CE/TUV/IMTRO	SM08
FF7,5HBK	234	308	395	497	616	752	909	1086	829	2.23	280	ESTER / ISO22	UKCA/CE/TUV/IMTRO	SM08
NEU6187Z		380	485	613	764	938	1134		1030	2.50	350	ESTER / ISO22	VDE/CCC/CE/UKCA or VDE/UL/CE/UKCA	SM05
NEU6187Z		443	571	723	899	1099	1324		1204	2.36	350	ESTER / ISO22	VDE/CCC/CE/UKCA or VDE/UL/CE/UKCA	SM05
NT6220Z				1212	1498	1843	2249		2032	2.37	450	ESTER / ISO22	IMQ/CCC/CE/UKCA	SM26

Model	Cooling Capacity (°C)								Check Point (Evaporating 7.2°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-20	-15	-10	-5	0	5	10	15	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
NT6220GK	669	838	1050	1307	1607	1952	2340		2139	2.24	450	ESTER / ISO22	IMQ/IRAM/CE/UKCA	SM26
NT6222GK	1029	1272	1566	1913	2311	2761	3263		3010	2.14	450	ESTER / ISO22	IMQ/IRAM/UL/CCC/ CE/UKCA	SM26
NT6222GK	758	992	1262	1570	1914	2295	2713		2505	2.10	450	ESTER / ISO22	IMQ/IRAM/UL/CCC/ CE/UKCA	SM26

Technical Data

Compressors Tri Phase

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Tri Phase | LBP

Model	Origin	Refrig.	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
NEU2130Z / L	SK	R-134a/ R1234yf	12.11	200V 50-60Hz 3~	L/MBP	LST	3 PHASE	UD*	ASHRAELBP32	50 Hz	Capillary Tube
NEU2130Z / L	SK	R-134a/ R1234yf	12.11	200V 50-60Hz 3~	L/MBP	LST	3 PHASE	UD*	ASHRAELBP32	60 Hz	Capillary Tube
NEU2140Z / L	SK	R-134a/ R1234yf	16.80	200V 50-60Hz 3~	L/MBP	LST	3 PHASE	UD*	ASHRAELBP32	50 Hz	Capillary Tube
NEU2140Z / L	SK	R-134a/ R1234yf	16.80	200V 50-60Hz 3~	L/MBP	LST	3 PHASE	UD*	ASHRAELBP32	60 Hz	Capillary Tube
NEU2145Z / L	SK	R-134a/ R1234yf	18.70	200V 50-60Hz 3~	L/MBP	LST	3 PHASE	UD*	ASHRAELBP32	50 Hz	Capillary Tube
NEU2145Z / L	SK	R-134a/ R1234yf	18.70	200V 50-60Hz 3~	L/MBP	LST	3 PHASE	UD*	ASHRAELBP32	60 Hz	Capillary Tube
NEU2183GS	SK	R404A/ R448A	16.80	200V 50-60Hz 3~	LBP	HST/LST	3 PHASE	UD*	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NEU2183GS	SK	R404A/ R448A	16.80	200V 50-60Hz 3~	LBP	HST/LST	3 PHASE	UD*	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NJ2212GS	SK	R404A	34.40	380-420V 50Hz / 440-480V 60Hz 3 ~	LBP	HST	3 PHASE	20.6	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NJ2212GS	SK	R404A	34.40	380-420V 50Hz / 440-480V 60Hz 3 ~	LBP	HST	3 PHASE	20.6	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NJX2215US	SK	R290	38.00	400V 50Hz / 440V 60Hz	LBP	HST	3 PHASE	21.0	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NJX2215US	SK	R290	38.00	400V 50Hz / 440V 60Hz	LBP	HST	3 PHASE	21.0	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NJX2219GS	SK	R404A	38.00	400V 50Hz / 440V 60Hz	LBP	HST	3 PHASE	22.0	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NJX2219GS	SK	R404A	38.00	400V 50Hz / 440V 60Hz	LBP	HST	3 PHASE	22.0	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NT2168GS	SK	R404A	14.50	200V 50-60Hz 3~	LBP	HST	3 PHASE	28.5	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NT2168GS	SK	R404A	14.50	200V 50-60Hz 3~	LBP	HST	3 PHASE	28.5	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NT2192GS	SK	R404A	22.37	200V 50-60Hz 3~	LBP	HST	3 PHASE	28.5	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NT2192GS	SK	R404A	22.37	200V 50-60Hz 3~	LBP	HST	3 PHASE	28.5	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve
NT2212GS	SK	R404A	27.80	200V 50-60Hz 3~	LBP	HST	3 PHASE	36.0	ASHRAELBP32	50 Hz	Capillary Tube or Expansion Valve
NT2212GS	SK	R404A	27.80	200V 50-60Hz 3~	LBP	HST	3 PHASE	36.0	ASHRAELBP32	60 Hz	Capillary Tube or Expansion Valve

NA*: Product is implemented but this technical data is not available.
UD*: Product is under development so this technical data is still not available.

Model	Cooling Capacity (°C)								Check Point (Evaporating -23.3°C / Condensing 54.4°C)		Lubricant		Certifications	Wiring Diagram
	-40	-35	-30	-25	-20	-15	-10	-5	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
NEU2130Z / L	UD*	UD*	UD*	UD*	UD*	UD*	UD*		355	1.33	350	ESTER / ISO22	UD*	NA*
NEU2130Z / L	UD*	UD*	UD*	UD*	UD*	UD*	UD*		412	1.39	350	ESTER / ISO22	UD*	NA*
NEU2140Z / L	UD*	UD*	UD*	UD*	UD*	UD*	UD*		430	1.30	350	ESTER / ISO22	UD*	NA*
NEU2140Z / L	UD*	UD*	UD*	UD*	UD*	UD*	UD*		489	1.26	350	ESTER / ISO22	UD*	NA*
NEU2145Z / L	UD*	UD*	UD*	UD*	UD*	UD*	UD*		448	1.31	350	ESTER / ISO22	UD*	NA*
NEU2145Z / L	UD*	UD*	UD*	UD*	UD*	UD*	UD*		482	1.28	350	ESTER / ISO22	UD*	NA*
NEU2183GS	UD*	UD*	UD*	UD*	UD*	UD*	UD*		758	1.49	350	ESTER / ISO22	UD*	NA*
NEU2183GS	UD*	UD*	UD*	UD*	UD*	UD*	UD*		983	1.53	350	ESTER / ISO22	UD*	NA*
NJ2212GS	398	643	951	1321	1752	2243	2796		1477	1.32	750	ESTER / ISO22	IRAM/KC/CCC/VDE/ UL/CE/UKCA	SM21
NJ2212GS	294	637	1043	1513	2047	2644	3304		1653	1.29	750	ESTER / ISO22	IRAM/KC/CCC/VDE/ UL/CE/UKCA	SM21
NJX2215US	686	945	1258	1626	2049	2526	3057		1769	1.55	750	ESTER / ISO22	VDE/UL/CE	SM18
NJX2215US	842	1116	1459	1871	2353	2903	3523		2026	1.52	750	ESTER / ISO22	VDE/UL/CE	SM18
NJX2219GS	870	1176	1553	2002	2522	3112	3774		2164	1.47	750	ESTER / ISO22	CCC/VDE/UL/CE/ UKCA	SM18
NJX2219GS	1007	1373	1827	2368	2997	3714	4518		2611	1.45	750	ESTER / ISO22	CCC/VDE/UL/CE/ UKCA	SM18
NT2168GS	219	313	438	595	783	1001	1249		786	1.37	650	ESTER / ISO22	CE/UKCA	SM20
NT2168GS	223	314	486	707	955	1229	1532		792	1.32	650	ESTER / ISO22	CE/UKCA	SM20
NT2192GS	364	526	724	960	1233	1542	1889		1220	1.29	650	ESTER / ISO22	CE/UKCA	SM20
NT2192GS	364	526	838	1121	1456	1842	2279		1236	1.37	650	ESTER / ISO22	CE/UKCA	SM20
NT2212GS	479	668	910	1206	1556	1959	2417		1325	1.31	650	ESTER / ISO22	CE/UKCA	SM20
NT2212GS	523	767	1063	1412	1813	2267	2773		1571	1.31	650	ESTER / ISO22	CE/UKCA	SM20

Tri Phase | M-HBP

Model	Origin	Refrig.	Displac.	Voltage / Frequency	Envelope	Torque	Motor	LRA	Test Condition	Freq.	Expansion Device
NJ6226ZX	SK	R134a	34.38	380-420V 50Hz / 440-480V 60Hz 3 ~	HBP	HST	3 PHASE	13.0	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NJ6226ZX	SK	R134a	34.38	380-420V 50Hz / 440-480V 60Hz 3 ~	HBP	HST	3 PHASE	13.0	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NJ9232GS	SK	R404A	26.11	380-420V 50Hz / 440-480V 60Hz 3 ~	MBP	HST	3 PHASE	13.0	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NJ9232GS	SK	R404A	26.11	380-420V 50Hz / 440-480V 60Hz 3 ~	MBP	HST	3 PHASE	13.0	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NJ9238GS	SK	R404A	32.67	380-420V 50Hz / 440-480V 60Hz 3 ~	MBP	HST	3 PHASE	22.0	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NJ9238GS	SK	R404A	32.67	380-420V 50Hz / 440-480V 60Hz 3 ~	MBP	HST	3 PHASE	22.0	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NJX6232ZX	SK	R134a / R513A	38.00	380-420V 50Hz / 440-480V 60Hz 3 ~	HBP	HST	3PHASE	20.0	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NJX6232ZX	SK	R134a / R513A	38.00	380-420V 50Hz / 440-480V 60Hz 3 ~	HBP	HST	3PHASE	20.0	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NJX6244US	SK	R290	38.00	400V 50Hz / 440V 60Hz	MBP	HST	3 PHASE	22.0	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NJX6244US	SK	R290	38.00	400V 50Hz / 440V 60Hz	MBP	HST	3 PHASE	22.0	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NJX6250GS	SK	R404A / R452A / R449A	38.00	400V 50Hz / 440V 60Hz	MBP	HST	3PHASE	22.0	ASHRAEHBP46	50 Hz	Capillary Tube or Expansion Valve
NJX6250GS	SK	R404A / R452A / R449A	38.00	400V 50Hz / 440V 60Hz	MBP	HST	3PHASE	22.0	ASHRAEHBP46	60 Hz	Capillary Tube or Expansion Valve
NTU6232GSV	SK	R404A	20.44	200V 50-60Hz 3~	MBP	HST	3 PHASE	36.0	ARI4	60 Hz	Capillary Tube or Expansion Valve
NTU6234GSV	SK	R404A	23.74	200V 50-60Hz 3~	MBP	HST	3 PHASE	36.0	ARI4	60 Hz	Capillary Tube or Expansion Valve
NTU6238GSV	SK	R404A	26.21	200V 50-60Hz 3~	MBP	HST	3 PHASE	36.0	ARI4	60 Hz	Capillary Tube or Expansion Valve
NTU6240GSV	SK	R404A	27.80	200V 50-60Hz 3~	MBP	HST	3 PHASE	40.0	ARI4	60 Hz	Capillary Tube or Expansion Valve

NA*: Product is implemented but this technical data is not available.
UD*: Product is under development so this technical data is still not available.

Model	Cooling Capacity (°C)								Check Point (Evaporating 7,2°C / Condensing 54,4°C)		Lubricant		Certifications	Wiring Diagram
	-20	-15	-10	-5	0	5	10	15	Capacity (W)	Efficiency (W/W)	Oil Charge (mL)	Type/ Viscosity		
NJ6226ZX		977	1351	1772	2232.844575	2739	3291		3014	2.55	750	ESTER / ISO22	IRAM/UL/CE/UKCA	SM18
NJ6226ZX		1143	1581	2069	2610	3204	3851		3526	2.55	750	ESTER / ISO22	IRAM/UL/CE/UKCA	SM18
NJ9232GS	1131	1501	1945	2462	3052	3716	4453		4080	2.54	750	ESTER / ISO22	KC/CCC/VDE/CE/UKCA	SM18
NJ9232GS	1323	1756	2275	2881	3571	4348	5211		4775	2.55	750	ESTER / ISO22	KC/CCC/VDE/CE/UKCA	SM18
NJ9238GS	1470	1894	2421	3022	3707	4475	5326		4897	2.59	750	ESTER / ISO22	IRAM/VDE/CE/UKCA	SM18
NJ9238GS	1720	2228	2833	3536	4337	5236	6233		5730	2.59	750	ESTER / ISO22	IRAM/VDE/CE/UKCA	SM18
NJX6232ZX		1402	1779	2247	2804	3452	4190		3757	2.59	750	ESTER / ISO22	VDE/CE/UKCA	SM18
NJX6232ZX		1632	2105	2663	3308	4038	4854		4444	2.43	750	ESTER / ISO22	VDE/CE/UKCA	SM18
NJX6244US	1831	2216	2710	3313	4025	4845	5775		5218	2.73	750	ESTER / ISO22	VDE/UL/CE	SM18
NJX6244US	2129	2656	3267	3962	4740	5603			5976	2.51	750	ESTER / ISO22	VDE/UL/CE	SM18
NJX6250GS	1751	2238	2839	3792	4609	5527	6546		5914	2.26	750	ESTER / ISO22	CCC/VDE/UL/CE/UKCA	SM18
NJX6250GS	1987	2631	3378	4433	5353	6371	7486		6972	2.18	750	ESTER / ISO22	CCC/VDE/UL/CE/UKCA	SM18
NTU6232GSV	926	1201	1505	1847	2233				3982	2.8	650	ESTER / ISO22	KC/UL/CE/UKCA	SM27
NTU6234GSV	1104	1417	1768	2157	2590				4574	2.67	650	ESTER / ISO22	KC/UL/CE/UKCA	SM27
NTU6238GSV	1257	1599	1980	2396	2848				4877	2.49	650	ESTER / ISO22	KC/UL/CE/UKCA	SM27
NTU6240GSV	1327	1684	2081	2521	3011				5292	2.54	650	ESTER / ISO22	UL/CE/UKCA	SM27

Technical Data

Variable-Speed Compressors

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Variable-Speed Compressors

Embraco variable-speed compressors are a solution for residential and commercial applications which demand fast cooling, low energy consumption, operate with a low starting voltage and with a wide operating range, low noise and vibration levels. The variable-speed compressor associated with an inverter allow the compressor to run in different RPM, delivering the cooling capacity needed according to the thermal load.

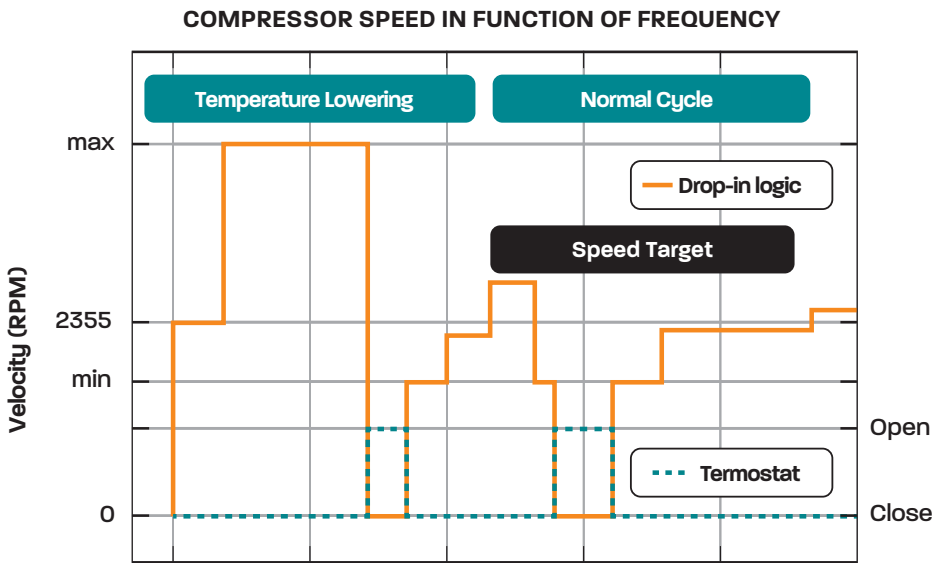
Control Modes

DROP-IN

Drop-In can be used with all kinds of controllers, where single thermostat contact is used to set the compressor running or not. Drop-In mode allows the use of Variable Speed Compressors in any refrigeration system without the need of a speed control signal through serial or frequency communication. The compressor speed will be adjusted automatically by the Inverter, in accordance with the change in thermal load.

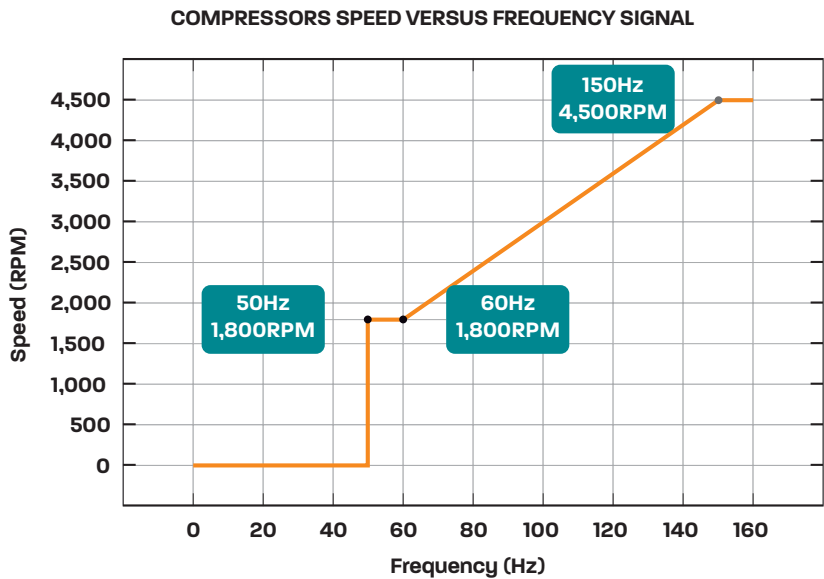
SMART DROP-IN

The Smart-Drop-In was designed with focus on cooling capacity, but always considering good system efficiency. This solution provides a customization tool that allows the routine to be parameterized and adjusted for each refrigeration system. The logic is divided in four mains parts: Pull-down, Stability Routine, Heavy Duty Routine and Defrost Routine. The Stability, Heavy Duty and Defrost Routine begin to run in parallel after Pull-down is completed.



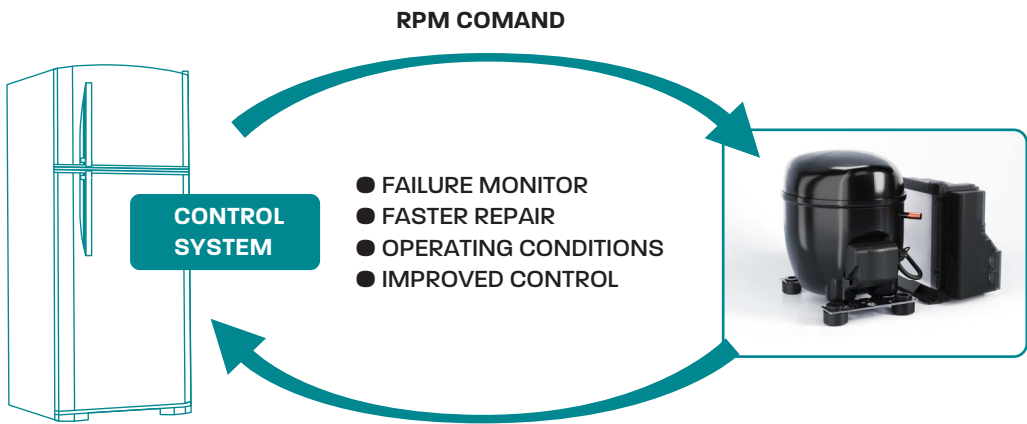
FREQUENCY

In this communication mode, the compressor's speed is controlled by a frequency signal sent to the inverter, usually generated by an electronic controller. This frequency signal is a digital wave that varies between 53 and 150 Hz. The compressor is then driven by this signal sent to the inverter



SERIAL

This option is used associated with an electronic thermostat, in which the inverter uses a serial communication protocol, building a communication bridge between the inverter and the controller. Based on Embraco protocol it is possible to define the compressor speed and check other parameters such as compressor RPM and failure state. This response from the inverter can be used to help diagnose system failure and/or fix it in less time than usual.



Variable-Speed Compressors | 115-127V 50/60Hz

Model	Origin	Refrigerant	Voltage / Frequency	HP	Application	Torque	Motor Type
VEMY4H	BR	R134a	230 V 53-150 Hz 3 ~	1/10	LBP	LST	BPM
VEMY6HH	BR	R134a	230 V 53-150 Hz 3 ~	1/10	L/M/HBP	LST	BPM
VEMY6H	BR	R134a	230 V 53-150 Hz 3 ~	1/10	LBP	LST	BPM
VEMX6H	BR	R1234yf	100V 50-60Hz 1~ 200V 50-60Hz 3~ 280 DVC	1/10	L/MBP	LST	BPM
VEGT8HB	BR	R134a	230 V 53-150 Hz 3 ~	1/4	L/MBP	LST	BPM
VEGT11HB	BR	R134a	230 V 60-150 Hz 3 ~	1/2	L/MBP	LST	BPM
FMFT411Z	BR	R134a	230 V 53-167 Hz 3 ~	3/4	L/MBP	HST	BPM
FMFT415Z	BR	R134a	230 V 53-150 Hz 3 ~	1	L/MBP	HST	BPM
VEMT403U	BR	R290	230v 40-150Hz 3~	1/3	L/MBP	LST/HST	BPM
VEMT404U	BR	R290	230 V 53-167 Hz 3 ~	1/3+	L/MBP	HST	BPM
VEMT406U	CN	R290	230 V 53-150 Hz 3 ~	1/2	L/MBP	LST/HST	BPM
VEHT409U	CN	R290	230 V 53-150 Hz 3 ~	1/2	L/MBP	LST/HST	BPM
VEHU413U	CN	R290	230 V 53-150 Hz 3 ~	1	L/MBP	LST/HST	BPM

*Compressors tested at 100V

Model	Expansion Device	Cooling Capacity			Lubricant		Weight	Test Condition	Certifications
		RPM	W	W/W	Oil Charge (ml)	Type / Viscosity	Kg		
VEMY4H	Capillary Tube	2000	78	1,66	220	ESTER / ISO10	7,5	ASHRAELBP32	UL/UKCA/CE
		3000	116	1,58					
		4500	170	1,55					
VEMY6HH	Capillary tube	1600	99	1,65	220	ESTER / ISO10	7,5	ASHRAELBP32	CCC/UL/UKCA/ VDE/CE
		3000	176	1,68					
		4500	229	1,60					
VEMY6H	Capillary Tube	2000	113	1,65	220	ESTER / ISO10	7,6	ASHRAELBP32	UKCA/VDE/CE/IRAM
		3000	176	1,67					
		4500	233	1,61					
VEMX6H	Capillary Tube	1500	87	1,59	220	ESTER / ISO10	7,5	ASHRAELBP32	-
		3000	180	1,61					
		4500	275	1,63					
VEGT8HB	Capillary tube	1800	137	1,72	430	ESTER / ISO10	10,8	ASHRAELBP32	CCC/UKCA/VDE/CE
		3000	256	1,76					
		4500	340	1,64					
VEGT11HB	Capillary tube	1800	191	1,67	430	ESTER / ISO22	10,0	ASHRAELBP32	UL/UKCA/CE
		2500	266	1,66					
		3000	322	1,66					
		3600	378	1,63					
		4500	429	1,54					
FMFT411Z	Capillary Tube or Expansion Valve	1600	180	1,82	430	ESTER / ISO10	10,9	ASHRAELBP32	UL/UKCA/CE
		5000	530	1,65					
FMFT415Z	Capillary Tube or Expansion Valve	1600	UD*	UD*	430	ESTER / ISO10	10,9	ASHRAELBP32	-
		5000	UD*	UD*					
VEMT403U	Capillary Tube or Expansion Valve	2000	157	2,15	220	ALQUILB/ ESTER	7,2	ARIMBP w/ fan	The model has different certifications depending on its electrical kit: Kit 2 -> CCC UKCA CE Kit 3 -> UKCA CE TUV
		3000	238	2,18					
		4500	350	2,08					
VEMT404U	Capillary Tube or Expansion Valve	1600	108	1,93	220	ALQUILB / ISO22	7,2	ASHRAELBP32	The model has different certifications depending on its electrical kit: Kit 1 and 3 -> UL UKCA CE TUV Kit 2 and 5 -> UKCA CE TUV Kit 4 and 6 -> UKCA VDE CE
		3000	242	1,90					
		4500	354	1,83					
VEMT406U	Capillary Tube or Expansion Valve	1600	151	1,54	210	ALQUILB / ISO22	6,5	ASHRAELBP32	CCC/UL/CE/UKCA
		2000	195	1,64					
		3000	303	1,72					
		3600	364	1,72					
		4500	439	1,66					
VEHT409U	Capillary Tube or Expansion Valve	1600	239	1,76	250	ALQUILB / ISO22	7,4	ASHRAELBP32	CCC/UL/VDE/CE/ UKCA
		2000	303	1,81					
		3000	464	1,84					
		3600	545	1,78					
		4500	668	1,73					
VEHU413U	Capillary Tube or Expansion Valve	1600	345	1,63	250	ALQUILB / ISO22	7,3	ASHRAELBP32	CCC/UL/VDE/CE/ UKCA
		2000	435	1,68					
		3000	658	1,72					
		3600	767	1,68					
		4500	937	1,62					

Variable-Speed Compressors | 115-127V 50/60Hz

Model	Origin	Refrigerant	Voltage / Frequency	HP	Application	Torque	Motor Type
FMFT406U	BR	R290	230 V 46-150 Hz 3~	1/2	L/MBP	HST	BPM
VEGT8U	BR	R290	230 V 60-150 Hz 3 ~	1/2	L/MBP	LST	BPM
FMFT408U	BR	R290	230V / 60-150Hz	1/2	L/MBP	HST	BPM
FMFT411U	BR	R290	230V / 60-150Hz	3/4	L/MBP	LST/HST	BPM
FMFD413UE	BR	R290	230V / 53-167Hz	1	L/MBP	LST/HST	BPM
FMFT213U	BR	R290	230 V 60-150 Hz 3 ~	1+	LBP	LST	BPM
FMFT413U	BR	R290	230 V 60-150 Hz 3 ~	1+	L/MBP	HST	BPM
FMFT415U	BR	R290	230V / 53-167Hz	1 1/4	L/MBP	HST	BPM
VEGY6L*	BR	R1234yf	230 V 53-150 Hz 3 ~	1/5	L/MBP	LST	BPM
VEGD6L*	BR	R1234yf	230 V 47-120HZ 3~	1/5	L/M/HBP	HST	BPM
VEMX6L	BR	R1234yf	100V 50-60Hz 1~ 200V 50-60Hz 3~ 280 DVC	1/10	L/MBP	LST	BPM
FMFT411L	BR	R1234yf	230 V 53-150 Hz 3 ~	1/2	L/MBP	HST	BPM
FMFT415L	BR	R1234yf	230 V 53-150 Hz 3 ~	1	L/MBP	HST	BPM
FMXA6C	CN	R600a	230 V 43-134 Hz 3~	1/9	L/MBP	LST	BPM
FMXY9C	CN	R600a	230 V 43-134 Hz 3~	1/6	L/MBP	LST	BPM
FMXA9C	CN	R600a	230 V 43-134 Hz 3~	1/6	L/MBP	LST	BPM

*Compressors tested at 100V



Model	Expansion Device	Cooling Capacity			Lubricant		Weight	Test Condition	Certifications
		RPM	W	W/W	Oil Charge (ml)	Type / Viscosity	Kg		
FMFT406U	Capillary Tube or Expansion Valve	1800	190	1,81	430	ESTER / ISO22	10,3	ASHRAELBP32	UL/UKCA/CE/TUV/IMTRO
		2500	248	1,79					
		3000	325	1,84					
		3600	387	1,81					
		4500	509	1,78					
VEGT8U	Capillary Tube	2000	273	1,76	450	ESTER / ISO22	10,3	ASHRAELBP32	UL/UKCA/CE
		3000	426	1,81					
		4500	647	1,74					
FMFT408U	Capillary tube or Expansion Valve	1800	250	1,81	430	ESTER / ISO22	10,3	ASHRAELBP32	UL/UKCA/VDE/CE
		2400	334	1,83					
		3000	432	1,82					
		3600	509	1,79					
		4500	609	1,75					
FMFT411U	Capillary tube or Expansion Valve	1800	349	1,78	430	ESTER / ISO22	10,9	ASHRAELBP32	CCC/UKCA/CE
		2400	466	1,85					
		3000	593	1,84					
		3600	684	1,80					
		4500	867	1,76					
FMFD413UE	Capillary tube or Expansion Valve	1600	331	1,95	430	ESTER / ISO10	10,9	ASHRAELBP32	CCC/UL/UKCA/VDE/CE
		2400	490	1,99					
		3000	603	1,98					
		3600	716	1,92					
		5000	958	1,82					
FMFT213U	Capillary tube or Expansion Valve	3000	693	1,87	430	ESTER / ISO22	10,87	ASHRAELBP32	UL/UKCA/CE/TUV
		4500	952	1,77					
FMFT413U	Capillary tube or Expansion Valve	1800	403	1,76	430	ESTER / ISO22	10,9	ASHRAELBP32	UKCA/VDE/CE
		2500	531	1,78					
		3000	682	1,80					
		3600	777	1,76					
		4500	998	1,74					
FMFT415U	Capillary tube or Expansion Valve	1600	407	1,74	430	ESTER / ISO22	10,9	ASHRAELBP32	CCC/UKCA/VDE/CE
		2400	613	1,78					
		3000	774	1,76					
		3600	892	1,73					
		5000	1253	1,68					
VEGY6L*	Capillary Tube	2000	138	1,75	430	ESTER / ISO22	11,3	ASHRAELBP32	-
		3000	217	1,69					
		4500	326	1,58					
VEGD6L*	Capillary Tube or Expansion Valve	2000	141	1,90	350	ESTER / ISO10	10,8	ASHRAELBP32	-
		4500	647	1,70					
VEMX6L	Capillary Tube	1500	UD*	UD*	220	ESTER / ISO10	7,5	ASHRAELBP32*	-
		3000	UD*	UD*					
		4500	UD*	UD*					
FMFT411L	Capillary Tube or Expansion Valve	1600	210	1,85	430	ESTER / ISO10	10,9	ASHRAELBP32	UL/UKCA/VDE/CE
		5000	610	1,65					
FMFT415L	Capillary Tube or Expansion Valve	1600	280	1,83	430	ESTER / ISO10	10,9	ASHRAELBP32	-
		5000	825	1,63					
FMXA6C	Capillary Tube	2000	65	1,79	175	ALQUILB / ISO5	4,9	ASHRAELBP32	CCC/CE/VDE/UL/UKCA
		3000	98	1,80					
		4000	121	1,70					
FMXY9C	Capillary Tube	2000	98	1,71	175	ALQUILB / ISO5	4,8	ASHRAELBP32	CCC/CE/VDE/UL/UKCA
		3000	145	1,75					
		4000	180	1,65					
FMXA9C	Capillary Tube	2000	98	1,80	175	ALQUILB / ISO5	4,8	ASHRAELBP32	CCC/CE/VDE/UL/UKCA
		3000	145	1,78					
		4000	180	1,70					



Variable-Speed Compressors | 115-127V 50/60Hz

Model	Origin	Refrigerant	Voltage / Frequency	HP	Application	Torque	Motor Type
FMXC9C	CN	R600a	230 V 43-134 Hz 3~	1/6	L/MBP	LST	BPM
VESD11C	CN	R600a	230 V 40-150 Hz 3 ~	1/5	LBP	LST	BPM
VESD13C	CN	R600a	230 V 43-150 Hz 3~	1/4	LBP	LST	BPM

Variable-Speed Compressors | 220-240V 50/60Hz

Model	Origin	Refrigerant	Voltage / Frequency	HP	Application	Torque	Motor Type
VEMY6HH	BR	R134a	230 V 53-150 Hz 3 ~	1/10	L/M/HBP	LST	BPM
VEGT8HB	BR	R134a	230 V 53-150 Hz 3 ~	1/4	L/MBP	LST	BPM
VEGT11HB	BR	R134a	230 V 60-150 Hz 3 ~	1/2	L/MBP	LST	BPM
FMFT411Z	BR	R134a	230 V 53-167Hz 3 ~	3/4	L/MBP	HST	BPM
VEMT404U	CN	R290	230 V 40-150 Hz 3 ~	1/3+	LBP	LST	BPM
VESA5U	CN	R290	230 V 53-133 Hz 3 ~	1/5	LBP	LST	BPM
FMFT406U	BR	R290	230 V 46-150 Hz 3~	1/2	L/MBP	HST	BPM
VESA7U	CN	R290	230 V 53-133 Hz 3 ~	1/3	L/MBP	LST	BPM
VEGT8U	BR	R290	230 V 60-150 Hz 3 ~	1/2	L/MBP	LST	BPM
FMFT408U	BR	R290	230V / 60-150Hz	1/2	L/MBP	HST	BPM

*Compressors tested at 100V

Model	Expansion Device	Cooling Capacity			Lubricant		Weight	Test Condition	Certifications
		RPM	W	W/W	Oil Charge (ml)	Type / Viscosity	Kg		
FMXC9C	Capillary Tube	2000	100	1,87	175	ALQUILB / ISO5	4,8	ASHRAELBP32	CCC/CE /UL/UKCA
		3000	151	1,86					
		4000	185	1,75					
VESD11C	Capillary Tube	2000	137	1,98	180	ALQUILB / ISO5	6,8	ASHRAELBP32	CCC/VDE/CE/UL/ UKCA/NOM
		3000	207	1,91					
		4500	276	1,78					
VESD13C	Capillary Tube	2000	158	1,93	190	ALQUILB / ISO5	6,8	ASHRAELBP32	CE/CCC/ UL/VDE/UKCA
		3000	233	1,84					
		4500	299	1,65					

Model	Expansion Device	Cooling Capacity			Lubricant		Weight	Test Condition	Certifications
		RPM	W	W/W	Oil Charge (ml)	Type / Viscosity	Kg		
VEMY6HH	Capillary tube	1600	99	1,65	220	ESTER / ISO10	7,5	ASHRAELBP32	CCC/UL/UKCA/ VDE/CE
		3000	176	1,68					
		4500	229	1,60					
VEGT8HB	Capillary tube	1800	137	1,72	430	ESTER / ISO10	10,8	ASHRAELBP32	CCC/UKCA/VDE/CE
		3000	256	1,76					
		4500	340	1,64					
VEGT11HB	Capillary tube	1800	191	1,67	430	ESTER / ISO22	10,0	ASHRAELBP32	UL/UKCA/CE
		2500	266	1,66					
		3000	322	1,66					
		3600	378	1,63					
		4500	429	1,54					
FMFT411Z	Capillary Tube or Expansion Valve	1600	180	1,82	430	ESTER / ISO10	10,9	ASHRAELBP32	UL/UKCA/CE
		5000	530	1,65					
VEMT404U	Capillary Tube or Expansion Valve	2000	165	1,96	220	ALQUILB / ISO22	7,2	ASHRAELBP32	-
		3000	242	1,92					
		4500	354	1,83					
VESA5U	Capillary tube	2000	156	1,59	200	ESTER / ISO10	5,8	ASHRAELBP32	CE/CCC/VDE/UKCA
		3000	244	1,69					
		4000	328	1,72					
FMFT406U	Capillary Tube or Expansion Valve	1800	190	1,81	430	ESTER / ISO22	10,3	ASHRAELBP32	UL/UKCA/CE/TUV/ IMTRO
		2500	248	1,79					
		3000	325	1,84					
		3600	387	1,81					
		4500	509	1,78					
VESA7U	Capillary tube	1600	182	1,62	198	ESTER / ISO22	6,5	ASHRAELBP32	CCC/VDE/UL/CE/ UKCA
		2000	233	1,69					
		3000	363	1,74					
		4000	482	1,73					
VEGT8U	Capillary Tube	2000	273	1,76	450	ESTER / ISO22	10,3	ASHRAELBP32	UL/UKCA/CE
		3000	426	1,81					
		4500	647	1,74					
FMFT408U	Capillary tube or Expansion Valve	1800	250	1,81	430	ESTER / ISO22	10,3	ASHRAELBP32	UL/UKCA/VDE/CE
		2400	334	1,83					
		3000	432	1,82					
		3600	509	1,79					
		4500	609	1,75					

Variable-Speed Compressors | 220-240V 50/60Hz

Model	Origin	Refrigerant	Voltage / Frequency	HP	Application	Torque	Motor Type
FMFT411U	BR	R290	230V / 60-150Hz	3/4	L/MBP	LST/HST	BPM
FMFD413UE	BR	R290	230V / 53-167Hz	1	L/MBP	LST/HST	BPM
FMFT213U	BR	R290	230 V 60-150 Hz 3 ~	1+	LBP	LST	BPM
FMFT413U	BR	R290	230 V 60-150 Hz 3 ~	1+	L/MBP	HST	BPM
FMFT415U	BR	R290	230V / 53-167Hz	1 1/4	L/MBP	HST	BPM
VNEU217U	SK	R290	100-300 V 33-75 Hz 3 ~	1 1/4	LBP	HST	BPM
FMXY4C	CN	R600a	230 V 43-134 Hz 3~	1/16	L/MBP	LST	BPM
FMXA4C	CN	R600a	230 V 43-134 Hz 3~	1/16	L/MBP	LST	BPM
FMXD4C	CN	R600a	230 V 43-134 Hz 3~	1/16	L/MBP	LST	BPM
FMXY6C	CN	R600a	230 V 43-134 Hz 3~	1/9	L/MBP	LST	BPM
FMXA6C	CN	R600a	230 V 43-134 Hz 3~	1/9	L/MBP	LST	BPM
FMXC6C	CN	R600a	230 V 43-134 Hz 3~	1/9	L/MBP	LST	BPM
FMXD6C	CN	R600a	230 V 43-134 Hz 3~	1/9	L/MBP	LST	BPM
FMXY9C	CN	R600a	230 V 43-134 Hz 3~	1/6	L/MBP	LST	BPM
FMXA9C	CN	R600a	230 V 43-134 Hz 3~	1/6	L/MBP	LST	BPM

*Compressors tested at 100V

Model	Expansion Device	Cooling Capacity			Lubricant		Weight	Test Condition	Certifications
		RPM	W	W/W	Oil Charge (ml)	Type / Viscosity	Kg		
FMFT411U	Capillary tube or Expansion Valve	1800	349	1,78	430	ESTER / ISO22	10,9	ASHRAELBP32	CCC/UKCA/VDE/CE
		2400	466	1,85					
		3000	593	1,84					
		3600	684	1,80					
		4500	867	1,76					
FMFD413UE	Capillary tube or Expansion Valve	1600	331	1,95	430	ESTER / ISO10	10,9	ASHRAELBP32	CCC/UL/UKCA/VDE/CE
		2400	490	1,99					
		3000	603	1,98					
		3600	716	1,92					
		5000	958	1,82					
FMFT213U	Capillary tube or Expansion Valve	3000	693	1,87	430	ESTER / ISO22	10,87	ASHRAELBP32	UL/UKCA/CE/TUV
		4500	952	1,77					
FMFT413U	Capillary tube or Expansion Valve	1800	403	1,76	430	ESTER / ISO22	10,9	ASHRAELBP32	UKCA/VDE/CE
		2500	531	1,78					
		3000	682	1,80					
		3600	777	1,76					
		4500	998	1,74					
FMFT415U	Capillary tube or Expansion Valve	1600	407	1,74	430	ESTER / ISO22	10,9	ASHRAELBP32	CCC/UKCA/VDE/CE
		2400	613	1,78					
		3000	774	1,76					
		3600	892	1,73					
		5000	1253	1,68					
VNEU217U	Capillary Tube or Expansion Valve	2000	535	1,47	500	ESTER / ISO22	11,6	ASHRAELBP32	CCC/VDE/UL/CE/UKCA
		3000	818	1,52					
		4500	1144	1,47					
FMXY4C	Capillary Tube	2000	35	1,50	175	ALQUILB / ISO5	4,8	ASHRAELBP32	CCC/VDE/CE
		3000	50	1,58					
		4000	71	1,57					
FMXA4C	Capillary Tube	2000	36	1,65	175	ALQUILB / ISO5	4,9	ASHRAELBP32	CCC/VDE/CE/UL/UKCA
		3000	54	1,64					
		4000	76	1,64					
FMXD4C	Capillary Tube	2000	36	1,73	175	ALQUILB / ISO5	4,9	ASHRAELBP32	CCC/VDE/CE/UKCA
		3000	49	1,64					
		4000	72	1,66					
FMXY6C	Capillary Tube	2000	65	1,64	175	ALQUILB / ISO5	4,9	ASHRAELBP32	CCC/VDE/CE/UL/UKCA
		3000	97	1,64					
		4000	121	1,65					
FMXA6C	Capillary Tube	2000	65	1,79	175	ALQUILB / ISO5	4,9	ASHRAELBP32	CCC/VDE/CE/UL/UKCA
		3000	98	1,80					
		4000	121	1,70					
FMXC6C	Capillary Tube	2000	65	1,82	175	ALQUILB / ISO5	4,8	ASHRAELBP32	CCC/CE
		3000	98	1,78					
		4000	119	1,69					
FMXD6C	Capillary Tube	2000	67	1,91	175	ALQUILB / ISO5	4,9	ASHRAELBP32	CCC/CE/VDE/UKCA
		3000	102	1,89					
		4000	126	1,79					
FMXY9C	Capillary Tube	2000	98	1,71	175	ALQUILB / ISO5	4,8	ASHRAELBP32	CCC/CE/VDE/UL/UKCA
		3000	145	1,75					
		4000	180	1,65					
FMXA9C	Capillary Tube	2000	98	1,80	175	ALQUILB / ISO5	4,8	ASHRAELBP32	CCC/CE/VDE/UL/UKCA
		3000	145	1,78					
		4000	180	1,70					

Variable-Speed Compressors | 220-240V 50/60Hz

Model	Origin	Refrigerant	Voltage / Frequency	HP	Application	Torque	Motor Type
FMXC9C	CN	R600a	230 V 43-134 Hz 3~	1/6	L/MBP	LST	BPM
FMXD9C	CN	R600a	230 V 43-134 Hz 3~	1/6	L/MBP	LST	BPM
VEMB11C	CN	R600a	230 V 53-150 Hz 3 ~	1/5	LBP	LST	BPM
VESC11C	CN	R600a	230 V 40-150 Hz 3 ~	1/5	LBP	LST	BPM
VESD11C	CN	R600a	230 V 40-150 Hz 3 ~	1/5	LBP	LST	BPM
VNEK206GK	SK	R404A	300 V 33-75 Hz 3 ~	1/3	LBP	HST	BPM
VNEK212GK	SK	R404A	300 V 33-75 Hz 3 ~	1/2	LBP	HST	BPM
VNEU213GK	SK	R404A	100-300 V 33-75 Hz 3 ~	3/4	LBP	HST	BPM
VNEX219U	SK	R290	208-240V 37-83 Hz	1'1/2	LBP	HST	BPM
VNEX419U	SK	R290	208-240V 37-83 Hz	1'1/2	LMBP	HST	BPM
VNEX621U	SK	R290	208-240V 37-83 Hz	1'1/2	MBP	HST	BPM
VNEX421U	SK	R290	300V 110-250Hz	1'1/2	LMBP	HST	BPM
VNEX619U	SK	R290	208-240V 37-83 Hz	1'1/2	MBP	HST	BPM
VNEX221U	SK	R290	208-240V 37-83 Hz	1'1/2	LBP	HST	BPM

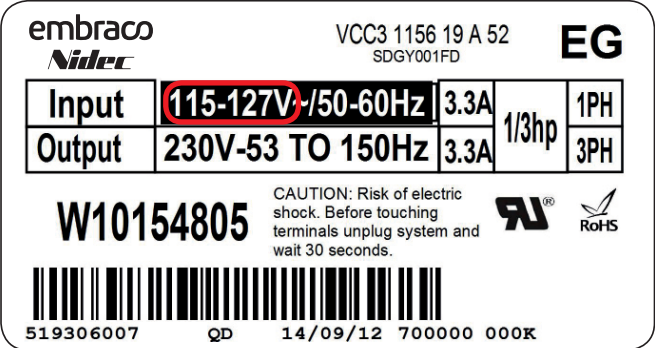
*Compressors tested at 100V

Model	Expansion Device	Cooling Capacity			Lubricant		Weight	Test Condition	Certifications
		RPM	W	W/W	Oil Charge (ml)	Type / Viscosity	Kg		
FMXC9C	Capillary Tube	2000	100	1,87	175	ALQUILB / ISO5	4,8	ASHRAELBP32	CCC/CE /UL/UKCA
		3000	151	1,86					
		4000	185	1,75					
FMXD9C	Capillary Tube	2000	99	1,90	175	ALQUILB / ISO5	4,9	ASHRAELBP32	CCC/CE/VDE/UKCA
		3000	152	1,89					
		4000	187	1,79					
VEMB11C	Capillary Tube	2000	135	1,90	450	ALQUILB / ISO5	7,6	ASHRAELBP32	-
		3000	204	1,89					
		4500	281	1,75					
VESC11C	Capillary Tube	2000	137	1,93	160	ALQUILB / ISO5	6,4	ASHRAELBP32	CCC/VDE/CE
		3000	207	1,88					
		4500	276	1,76					
VESD11C	Capillary Tube	2000	137	1,98	180	ALQUILB / ISO5	6,8	ASHRAELBP32	CCC/VDE/CE/UL/ UKCA/NOM
		3000	207	1,91					
		4500	276	1,78					
VNEK206GK	Capillary Tube or Expansion Valve	2000	226	1,26	500	ESTER / ISO22	11,6	ASHRAELBP32	CCC/VDE/CE/UKCA
		2400	260	1,27					
		3000	327	1,27					
		3600	385	1,25					
		4500	468	1,21					
VNEK212GK	Capillary Tube or Expansion Valve	2000	245	1,11	500	ESTER / ISO22	11,6	ASHRAELBP32	KC/CCC/VDE/UL/ CE/UKCA
		2400	284	1,11					
		3000	344	1,09					
		3600	386	1,03					
		4500	465	1,01					
VNEU213GK	Capillary Tube or Expansion Valve	2000	539	1,40	500	ESTER / ISO22	11,6	ASHRAELBP32	KC/VDE/UL/CE/ UKCA
		3000	762	1,44					
		4500	1045	1,33					
VNEX219U	Capillary Tube or Expansion Valve	2200	705	1,84	400	POE22/ ISO22	12	ASHRAELBP32	VDE/UL/CE/UKCA
		3000	979	1,81					
		5000	1522	1,64					
VNEX419U	Capillary Tube or Expansion Valve	2200	705	1,84	400	POE22/ ISO22	12	ASHRAELBP32	CCC/VDE/UL/CE/ UKCA
		3000	979	1,81					
		5000	1522	1,64					
VNEX621U	Capillary Tube or Expansion Valve	2200	2289	3,12	400	POE22/ ISO22	12	ASHRAELBP32	CCC/VDE/UL/CE/ UKCA
		3000	3095	3,00					
		5000	1791	2,52					
VNEX421U	Capillary Tube or Expansion Valve	2200	775	1,74	400	ESTER/ ISO22	11,3	ASHRAELBP32	CCC/VDE/UL/CE/ UKCA
		3000	1.078	1,75					
		5000	1297	1,72					
VNEX619U	Capillary Tube or Expansion Valve	2200	1983	3,16	400	POE22/ ISO22	12	ASHRAELBP32	VDE/UL/CE/UKCA
		3000	2742	3,09					
		5000	4145	2,61					
VNEX221U	Capillary Tube or Expansion Valve	2200	775	1,74	400	POE22/ ISO22	12	ASHRAELBP32	CE/UKCA
		3000	1078	1,75					
		5000	1599	1,60					

Operation Envelope Per Family

Voltage

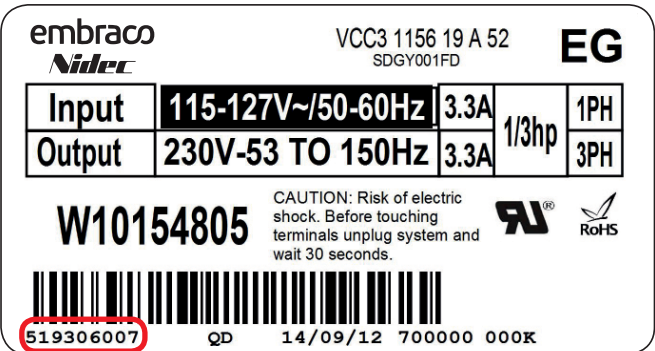
Check what is the inverter voltage specified on the label, as seen below: The inverter must be replaced by an equivalent one with the same voltage range.



The inverter must be replaced by another one with the same voltage range

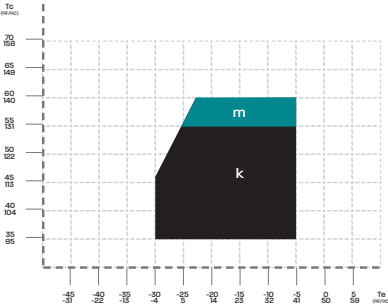
Control Signal

Check which control signal is used in the original inverter. Please contact the technical support to clarify the control type for each product SKU.

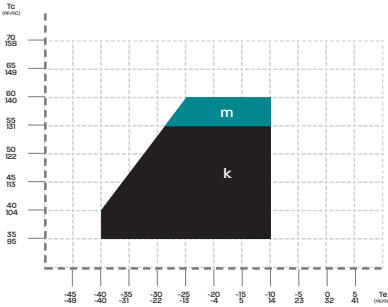


EM, NE, EH

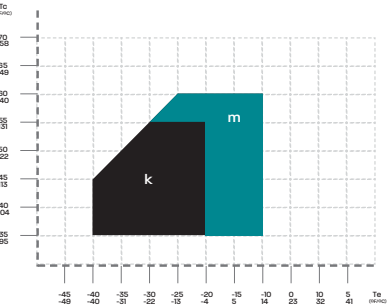
LBP
R134A - R600A



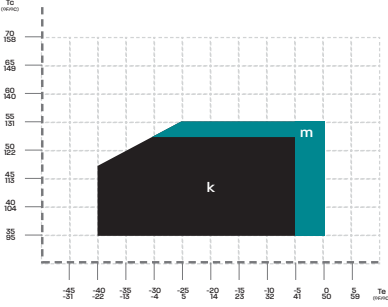
LBP
R404A / R507 / R452A - R290



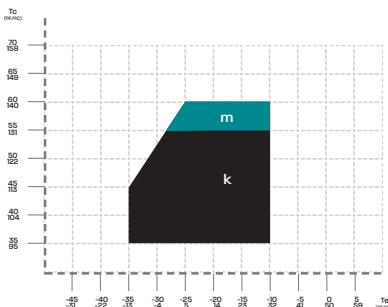
MBP
R404A / R507 / R452A - R290



L/MBP
R290



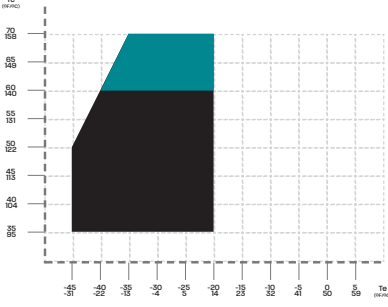
HBP
R134A - R600



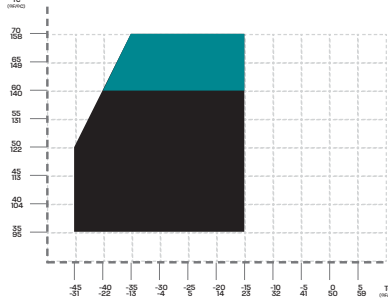
EM, VEM, VES, FMX

Ambient temperature: 42,7 °C - Return temperature: 32,2 °C

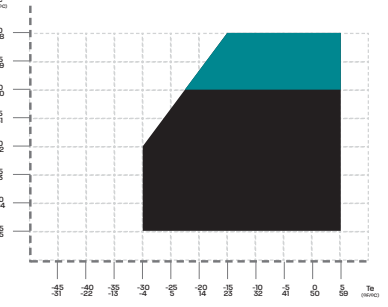
LBP
R290 - R134A - R600A



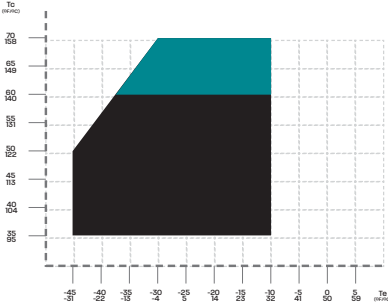
L-MBP (STANDARD)
R290 - R134A



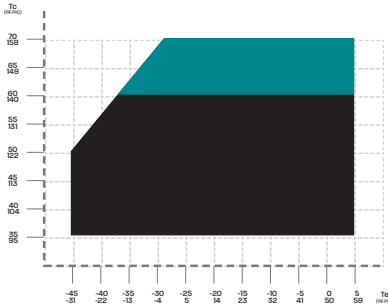
M-HBP
R134A



L-MBP EXTENDED RANGE FFUS, EM2, EM3
R290 - R134A - R600A



L-M-HBP
R134A



■ Operation Condition
■ Transient Condition

Tc Condensing Temperature
k Ambient 32 °C and return gas 20 °C
Te Evaporating Temperature
m Ambient 32 °C and return gas 20 °C (for transitory period)

NOTE: usage of compressors outside the intended working range cannot make use of the warranty, or should be consulted with Technical support.

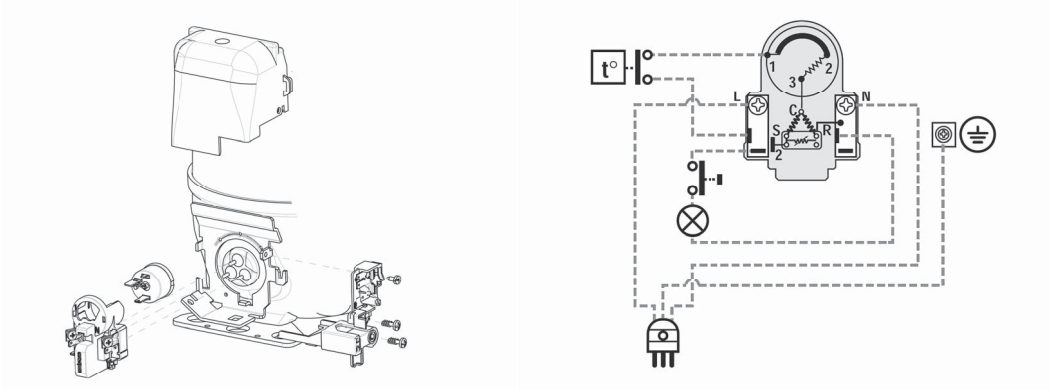
Electrical Configurations

Wiring Diagrams Key

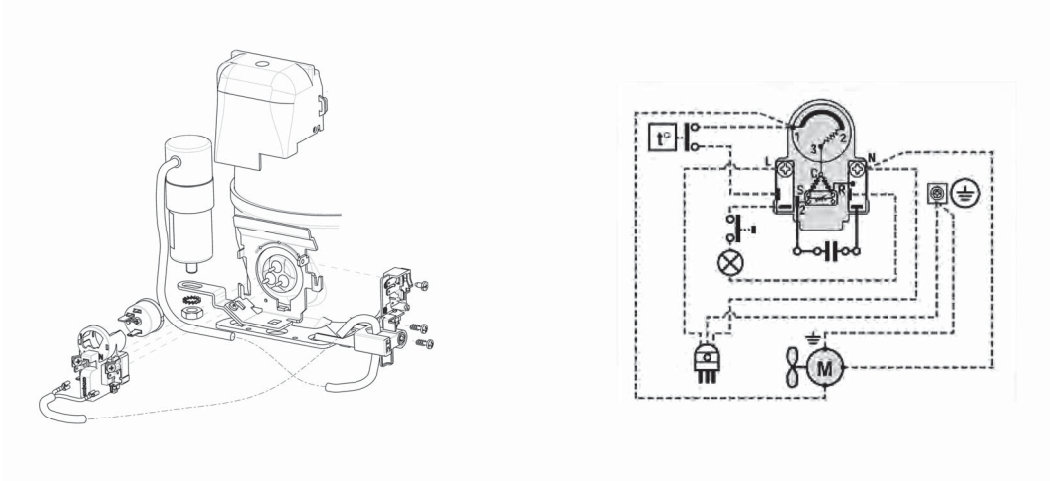
	OVERLOAD PROTECTOR		PTC START DEVICE*
	OVERLOAD PROTECTOR		INTEGRATED PTC DEVICE
	CURRENT START RELAY		CURRENT START RELAY WITH CAPACITOR CONNECTIONS
	3CR CURRENT START RELAY		3ARR3 START RELAY (VOLTAGE).
	RUN CAPACITOR		RUN CAPACITOR (MANDATORY - NOT SUPPLIED)
	OPTIONAL RUN CAPACITOR		START CAPACITOR
	FAN		PUSH BUTTON
	LAMP		SINGLE PHASE MOTOR
	3-PHASE MOTOR		THERMOSTAT
	LOW-HIGH PRESSURE SWITCH		PILOT CIRCUIT 24 OR 220 V
	EARTH CONNECTION		COMMON (INTERNAL OVERLOAD PROTECTOR)
	3-PHASE SUPPLY		START
	SINGLE PHASE SUPPLY		
	COMMON		
	RUN		
	TERMINAL BLOCK		BROWN CABLE
	WHITE CABLE		BLACK CABLE
	BLUE CABLE		RED CABLE
	YELLOW-GREEN CABLE		CONNECTIONS TO BE MADE BY THE CUSTOMER (NOT SUPPLIED)
	CONNECTIONS SUPPLIED		

Wiring Diagrams

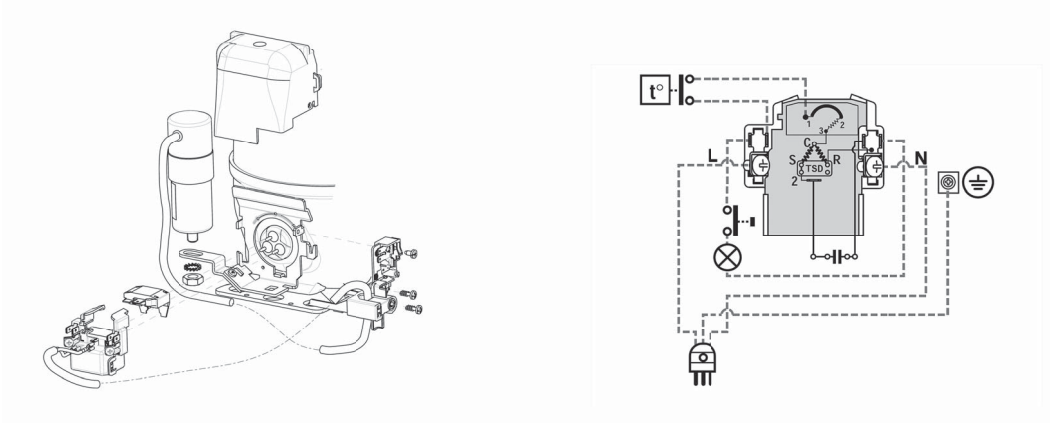
SM00 - EMT/NE SERIES RSIR PTC EUROPEAN VERSION



SM01 - EMT/NE SERIES RSCR PTC EUROPEAN VERSION



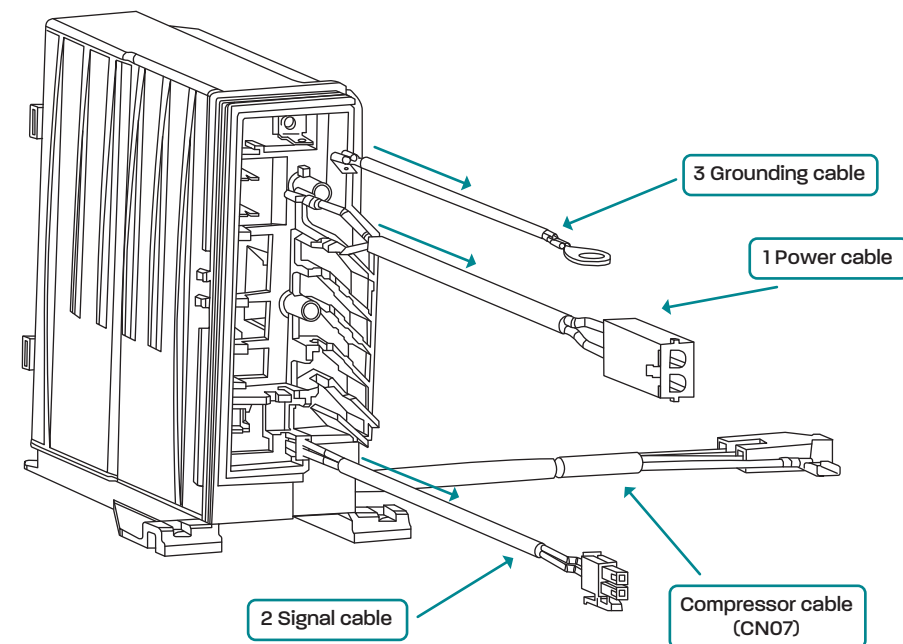
SM02 - EMT/NE SERIES RSCR TSD EUROPEAN VERSION



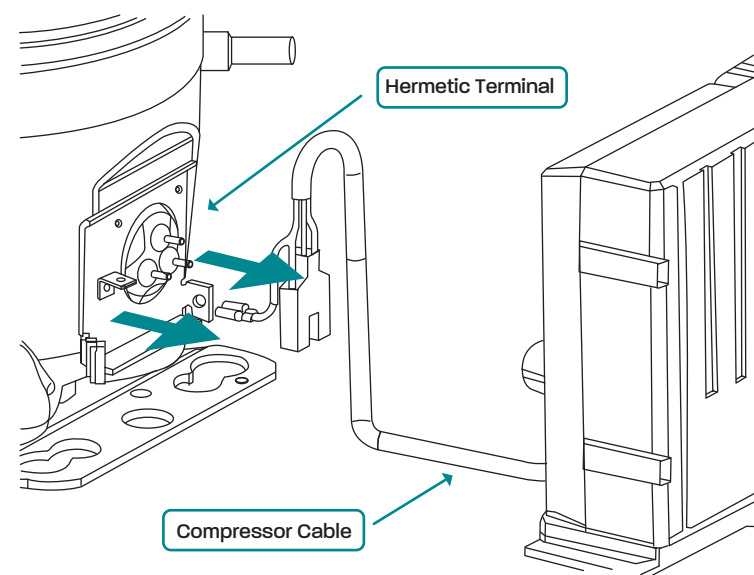
Replacing a Failed Inverter

To replace the original inverter in the system, follow the steps:

1. Remove the Inverter plastic cover to have access to the electrical terminal;
2. Remove the power cable (1), the signal cable (2) and the grounding cable (3);



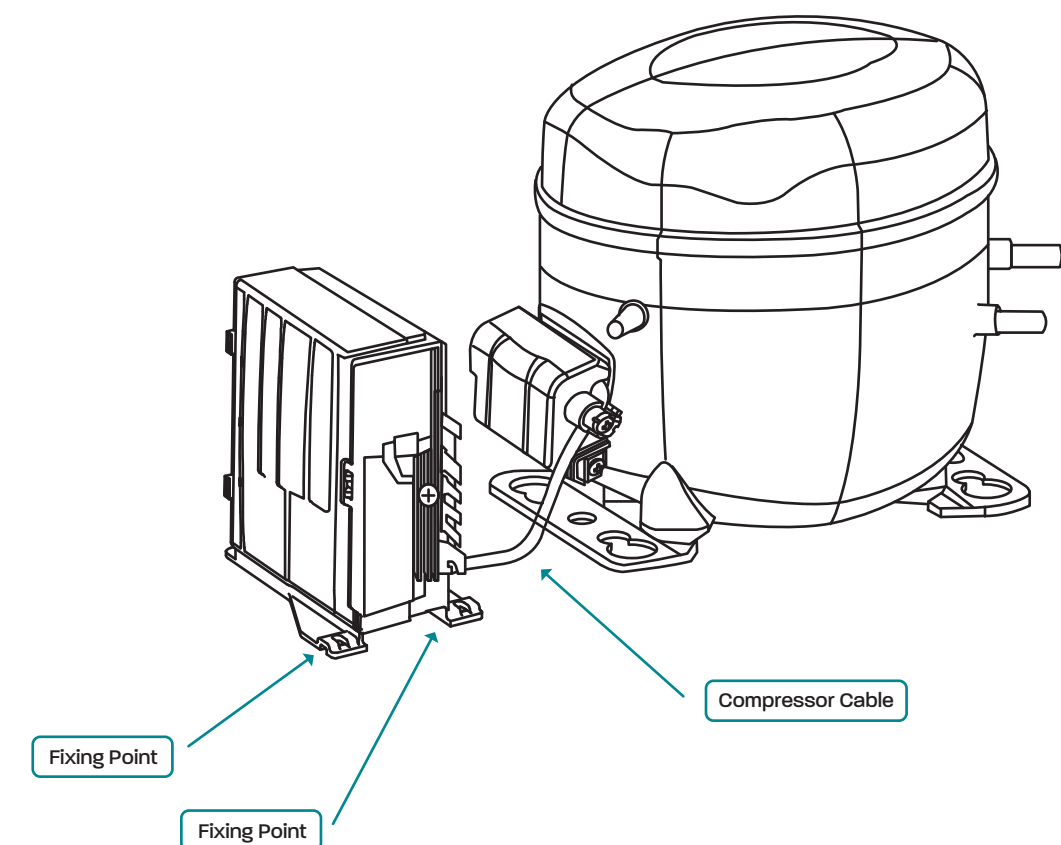
3. Disconnect the Inverter from the compressor;



4. Unscrew and remove the inverter from the system;

Installing The New Inverter

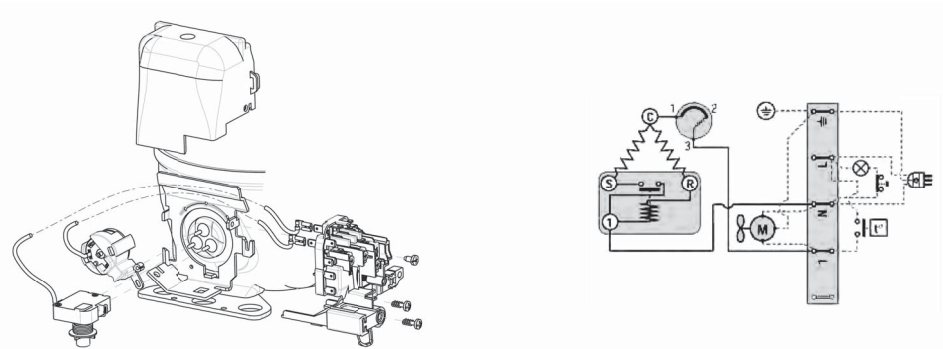
1. Select the new inverter following the instructions shown above;
2. Fixate the Inverter on the system using the fixation points;



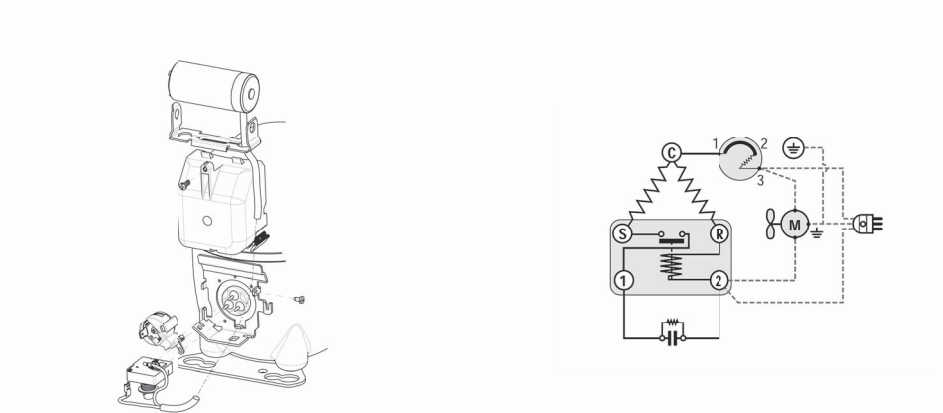
Obs.: If the original Inverter was mounted on the compressor, the new Inverter must be installed on the system to make sure that it doesn't move during the normal system usage.

Wiring Diagrams

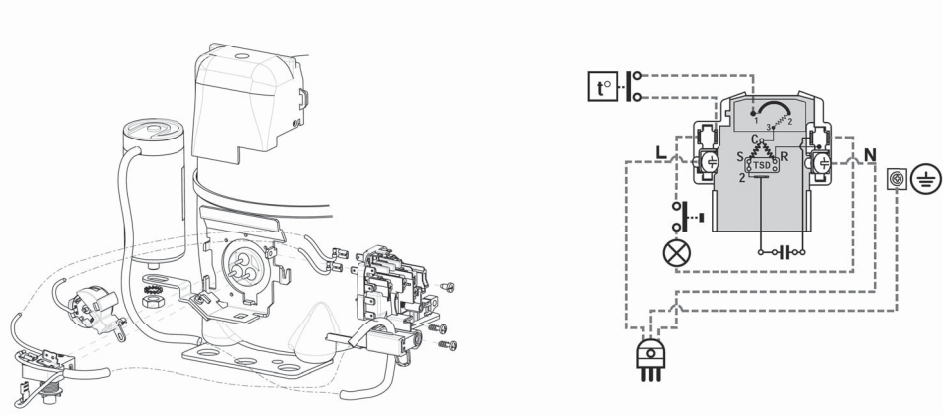
SM03 - EMT/NE SERIES RSIR TERMINAL BOARD & START DEVICE



SM04 - EMT/NE SERIES CSIR AMERICAN VERSION

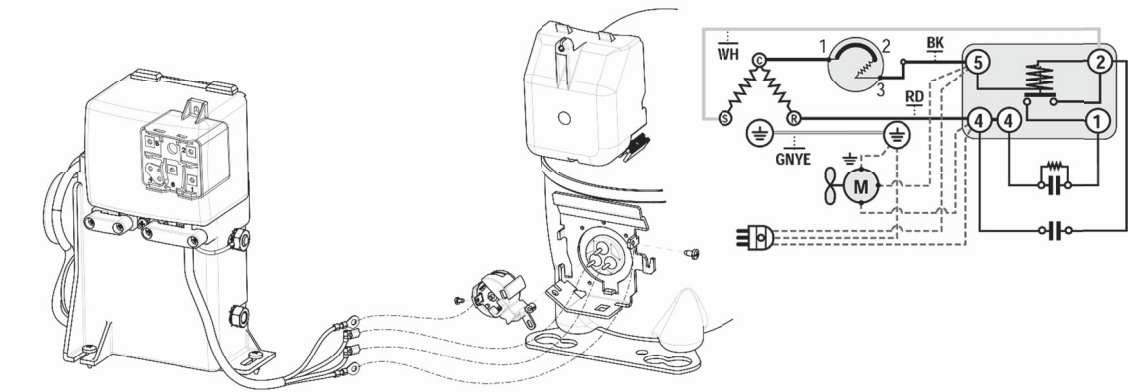


SM05 - EMT/NE SERIES CSIR TERMINAL BOARD & START DEVICE

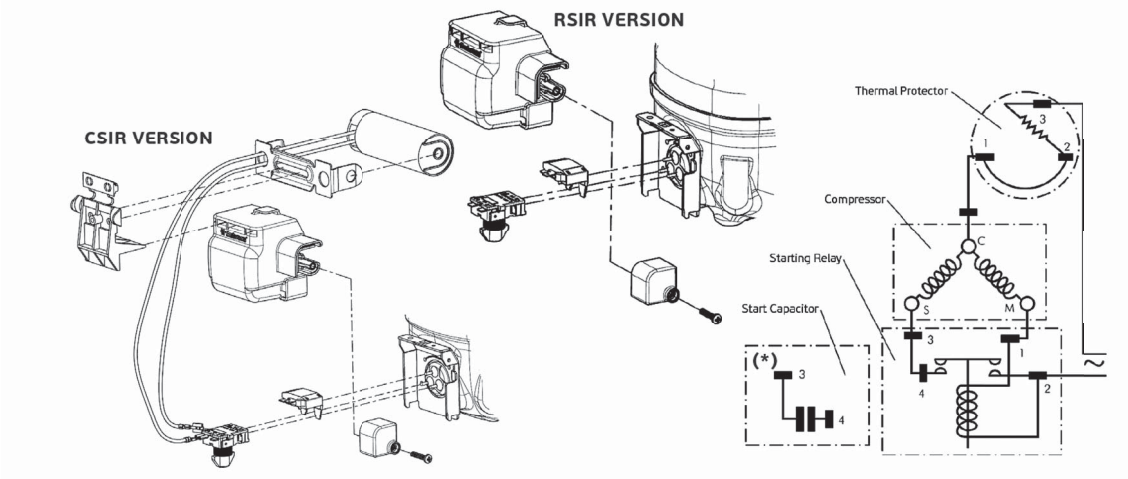


Wiring Diagrams

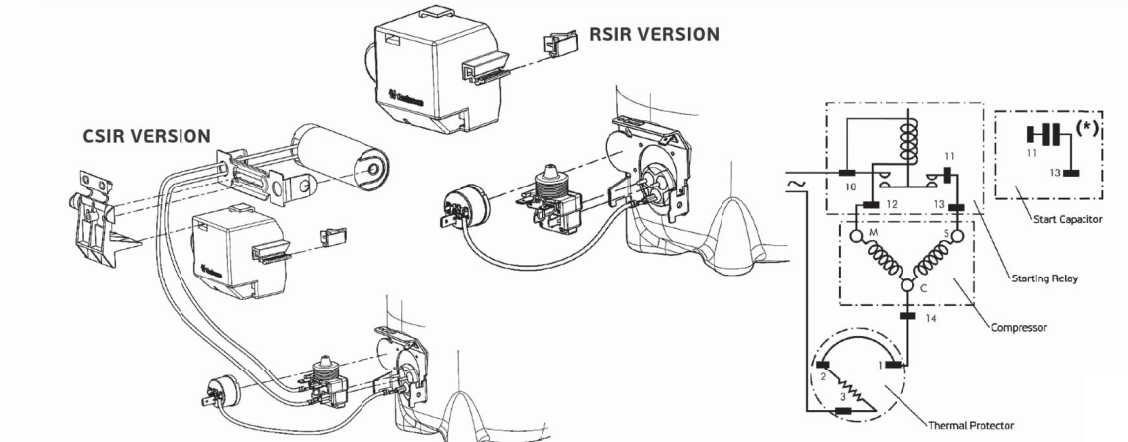
SM06 - NE SERIES CSR BOX



SM07 - EM/EMI

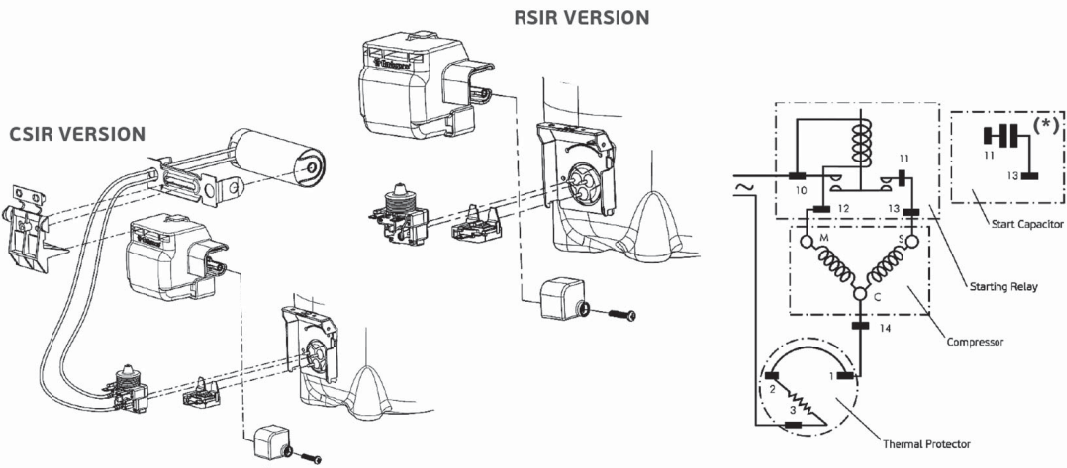


SM08 - F COMPRESSORS

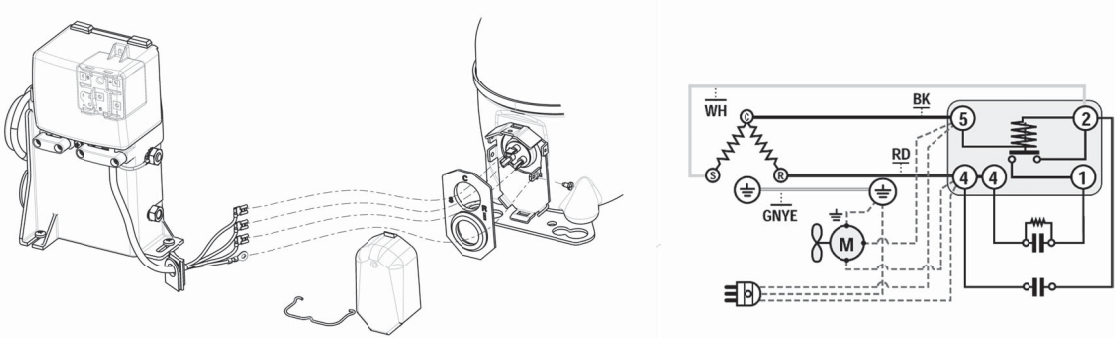


Wiring Diagrams

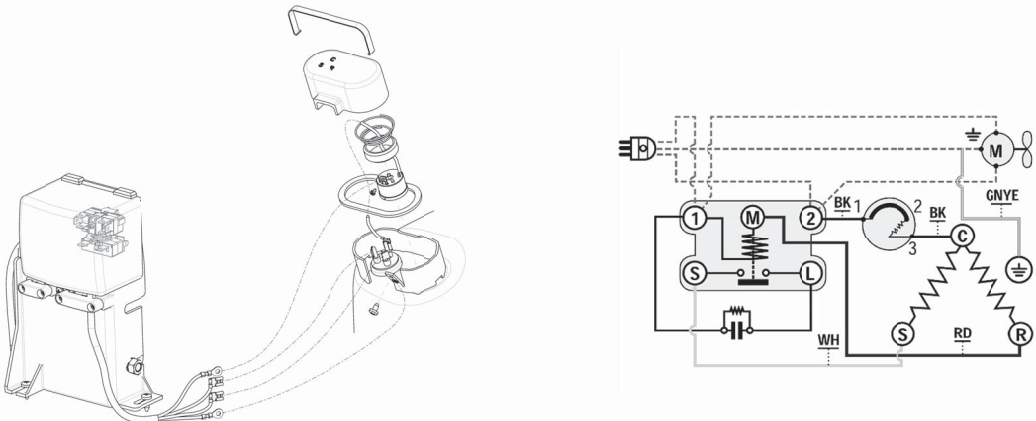
SM09 - EG



SM10 - NE CSR BOX

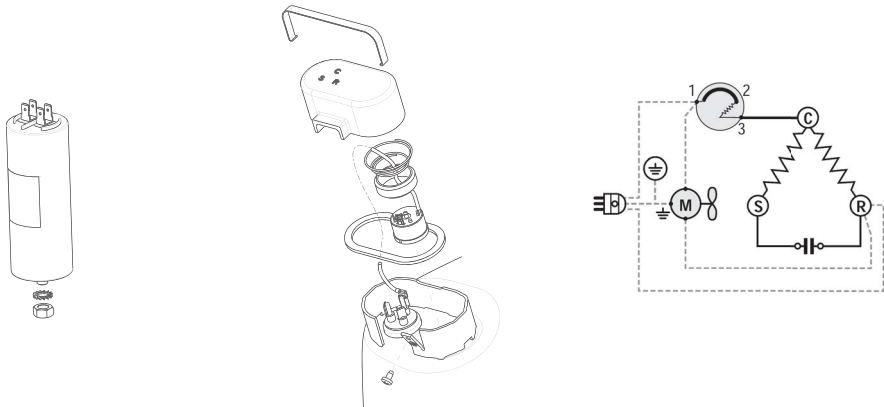


SM14 - NJ CSIR BOX

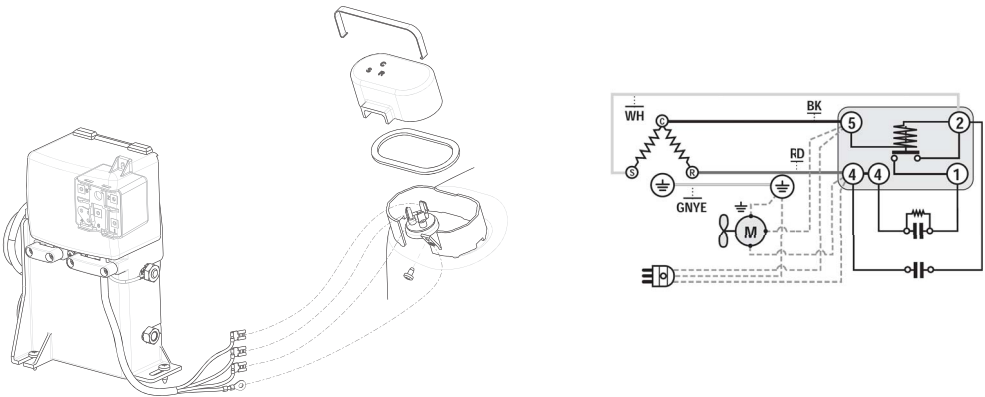


Wiring Diagrams

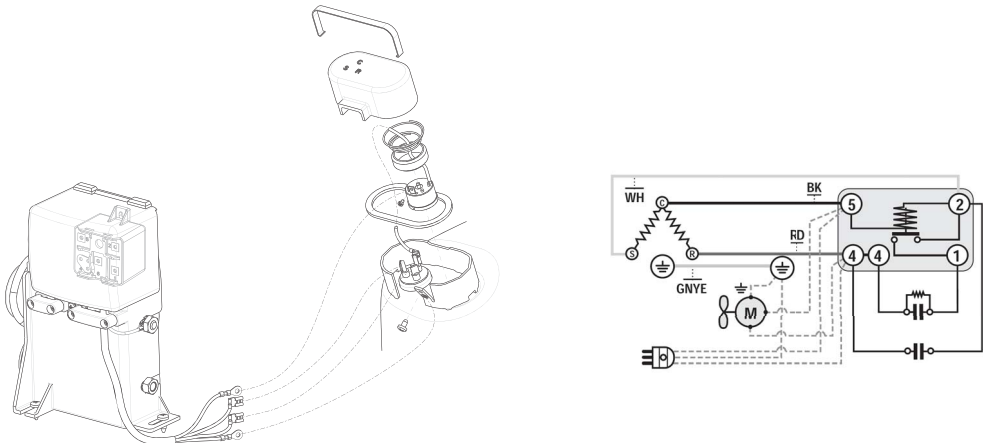
SM15 - NJ PSC



SM16 - NJ SERIES CSR BOX (INTERNAL OVERLOAD PROTECTOR)

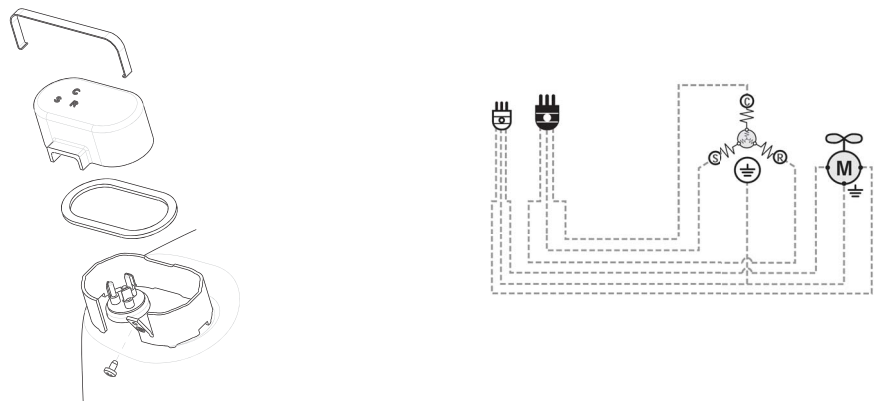


SM17 - NJ CSR BOX (EXTERNAL OVERLOAD PROTECTOR)

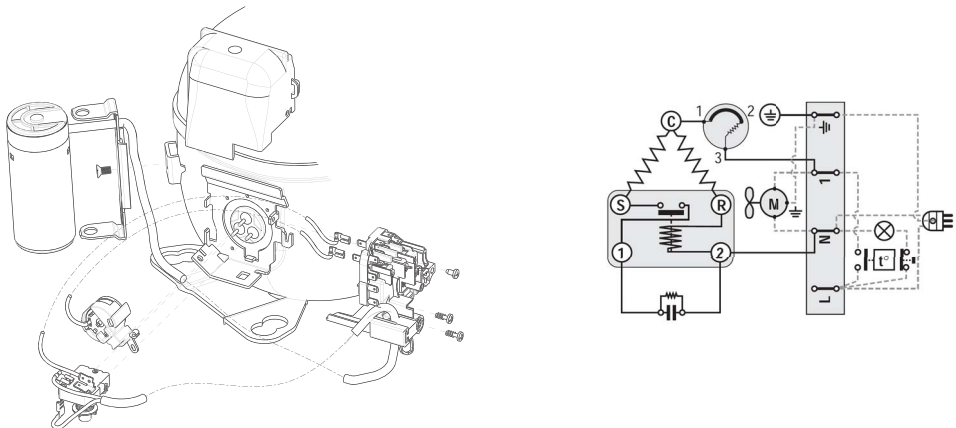


Wiring Diagrams

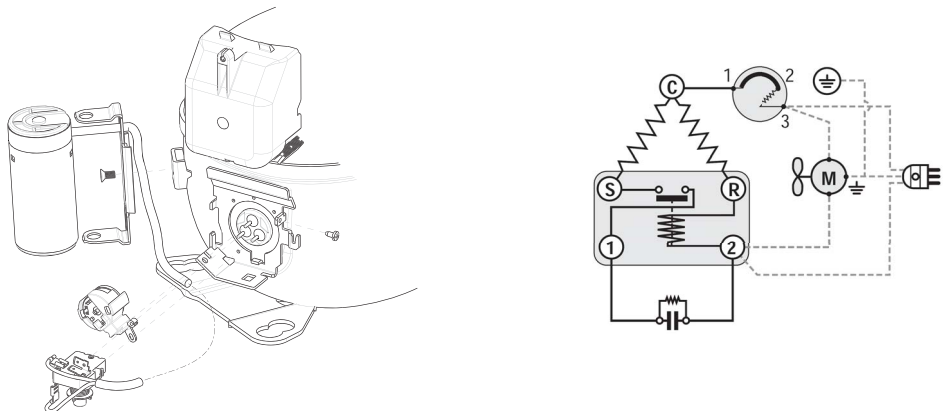
SM18 - NJ SERIES 3- PHASE (INTERNAL OVERLOAD PROTECTOR)



SM19 - NT SERIES CSIR TERMINAL BOARD

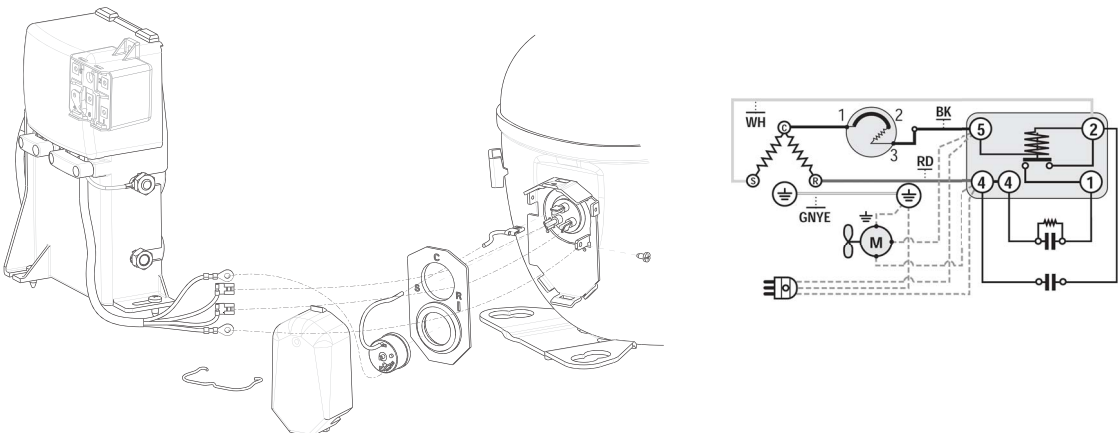


SM20 - NT SERIES CSIR AMERICAN VERSION

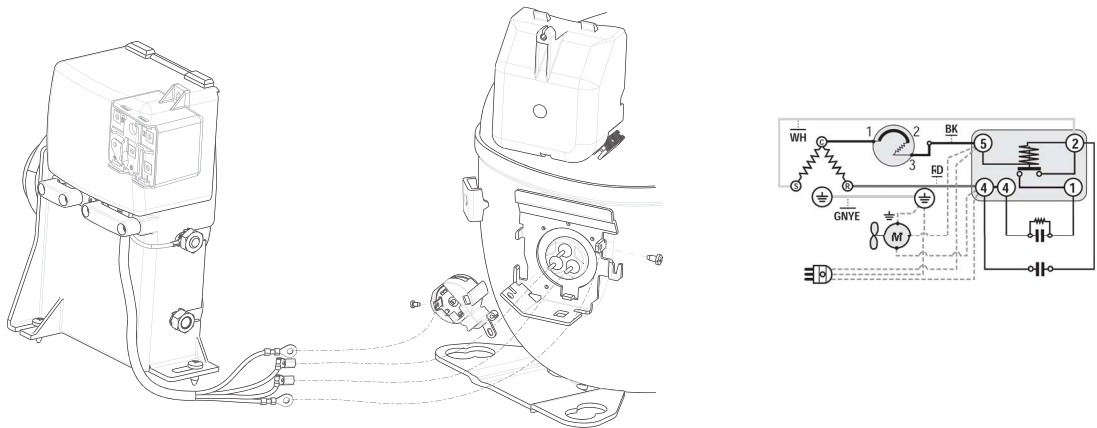


Wiring Diagrams

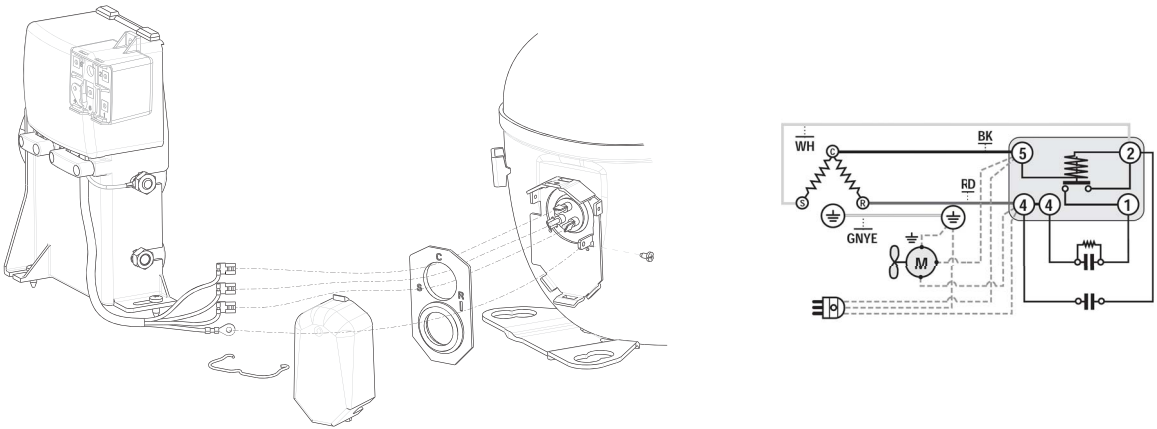
SM21 - NT SERIES CSR BOX



SM23 - NT SERIES CSR BOX

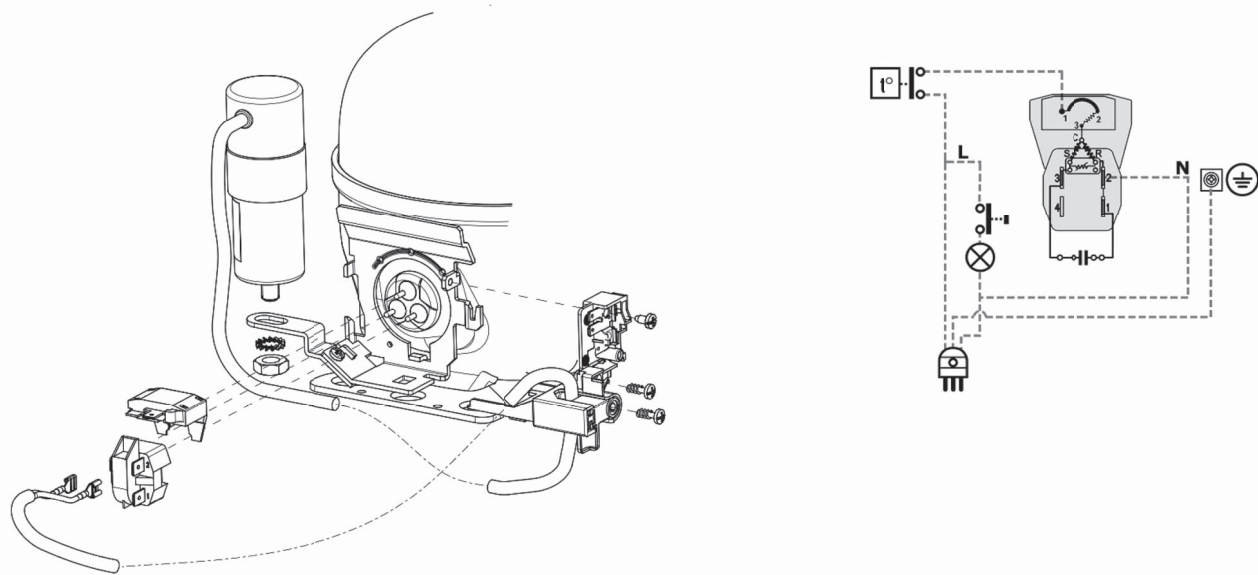


SM26 - NT SERIES CSR BOX (INTERNAL OVERLOAD PROTECTOR)

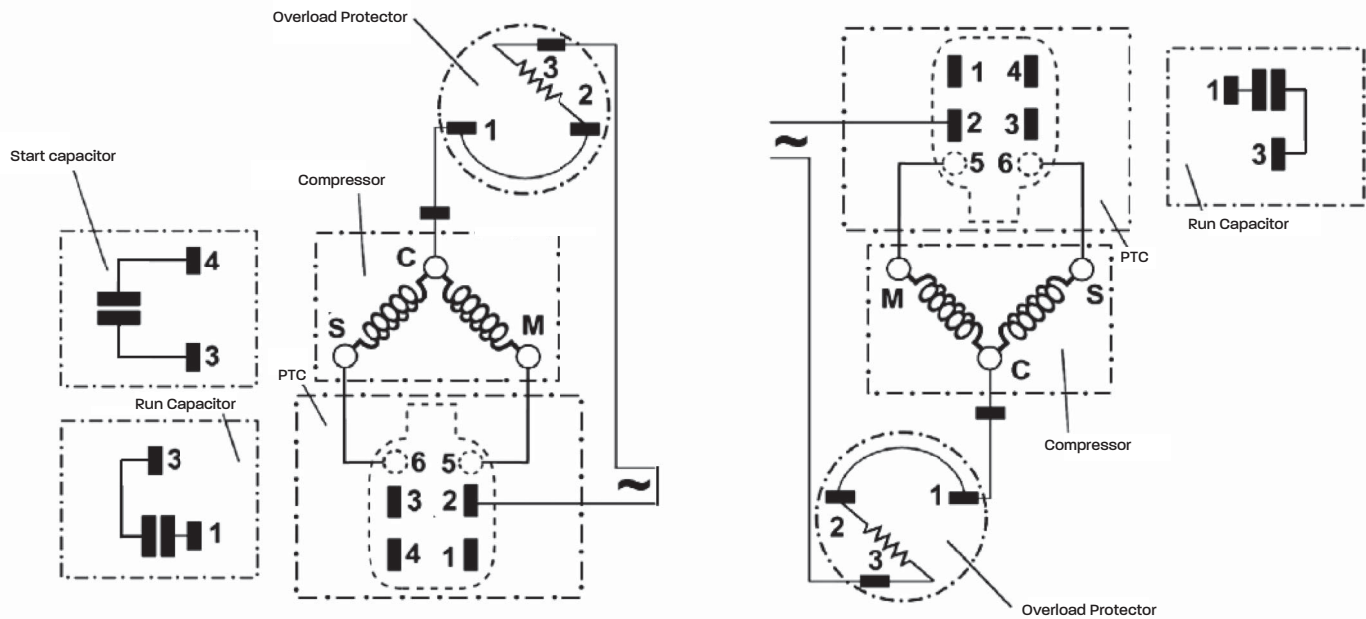


Wiring Diagrams

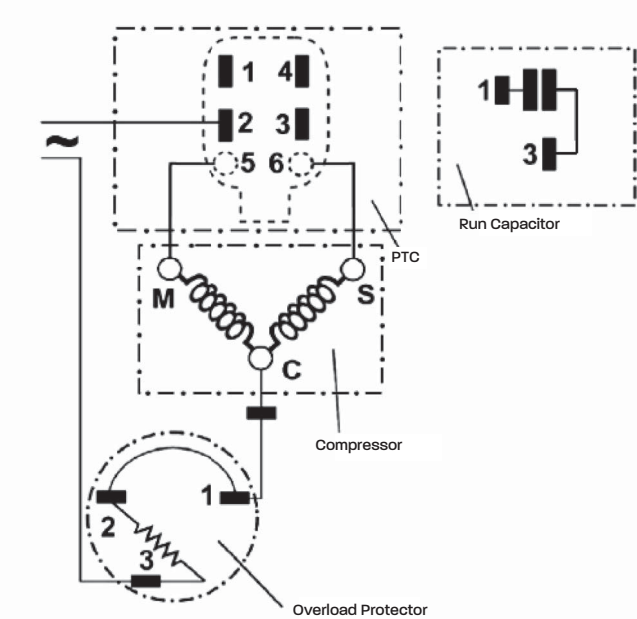
SM32 - EM RSCR PTC & 4TM



SM33 - EM CSCR

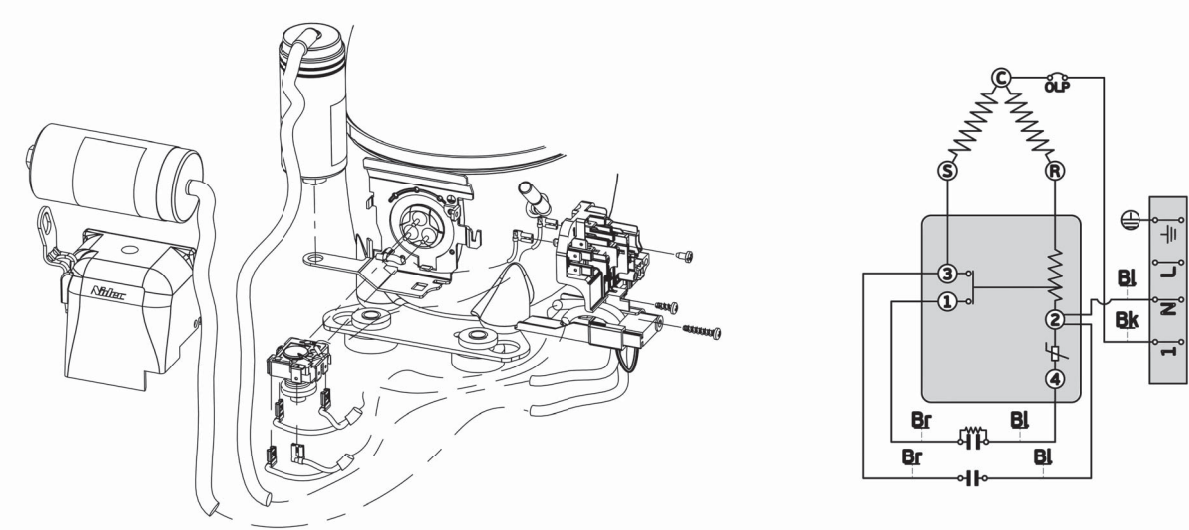


SM34 - EG, F RSCR

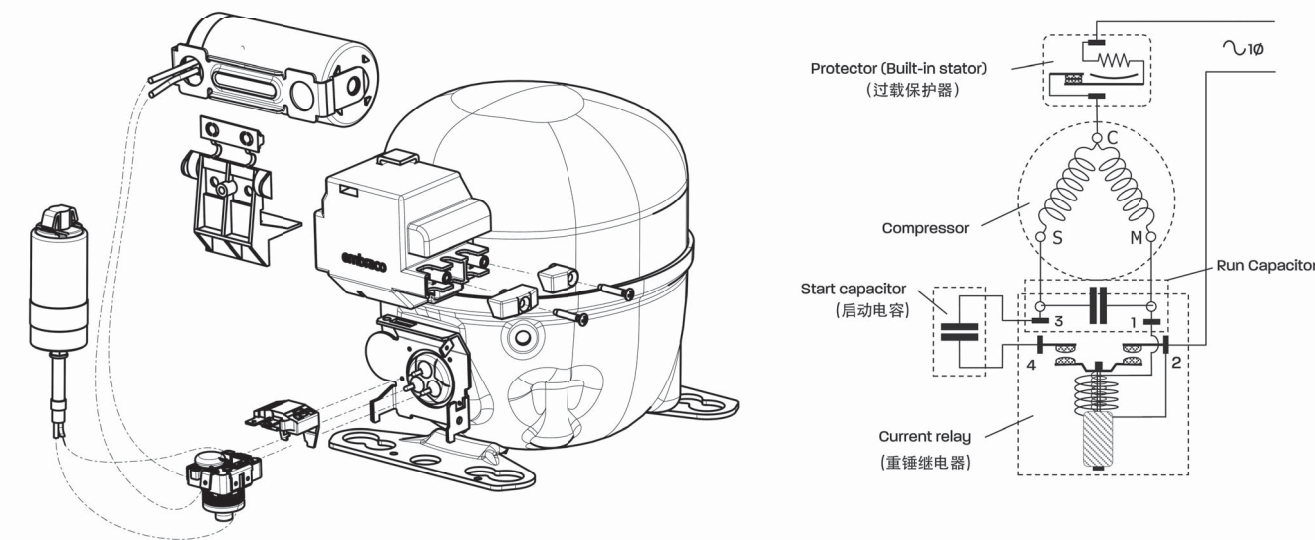


Wiring Diagrams

SM35 - NEX

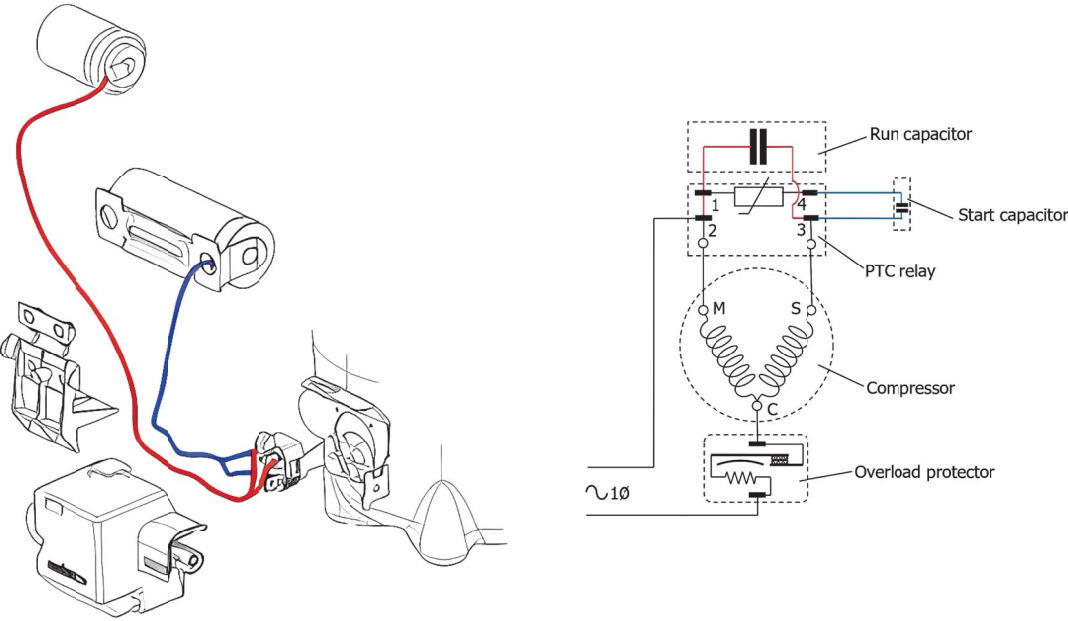


SM36 - EM



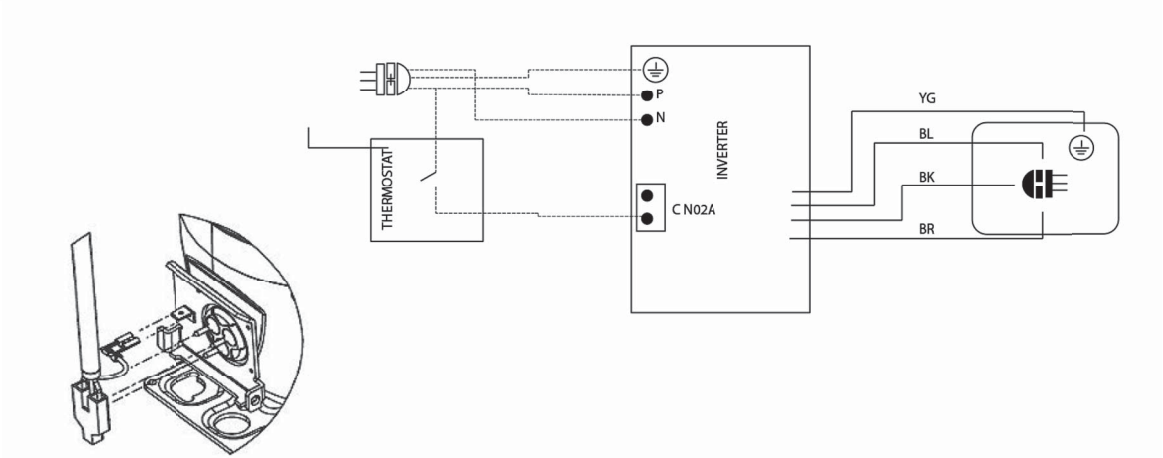
Wiring Diagrams

F - COMPRESSOR

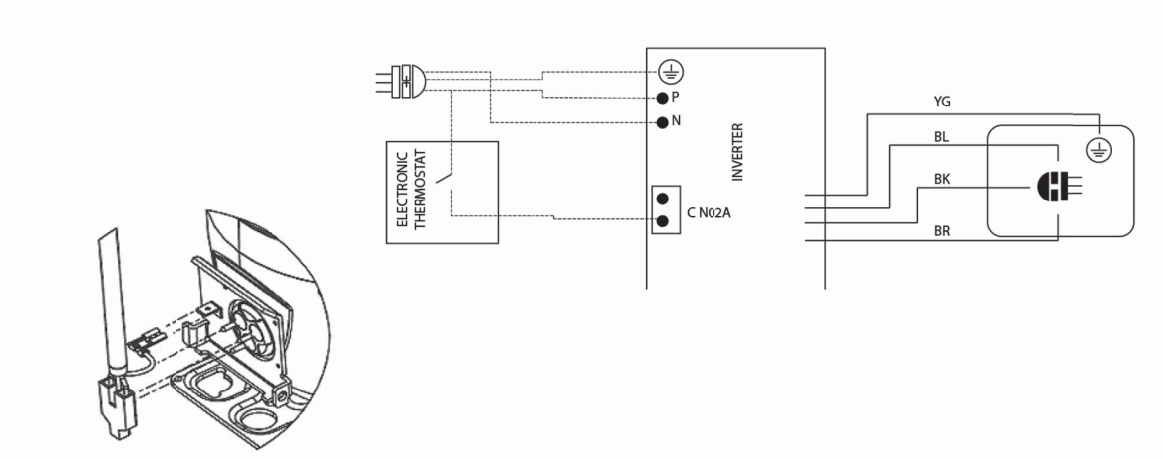


Wiring Diagrams

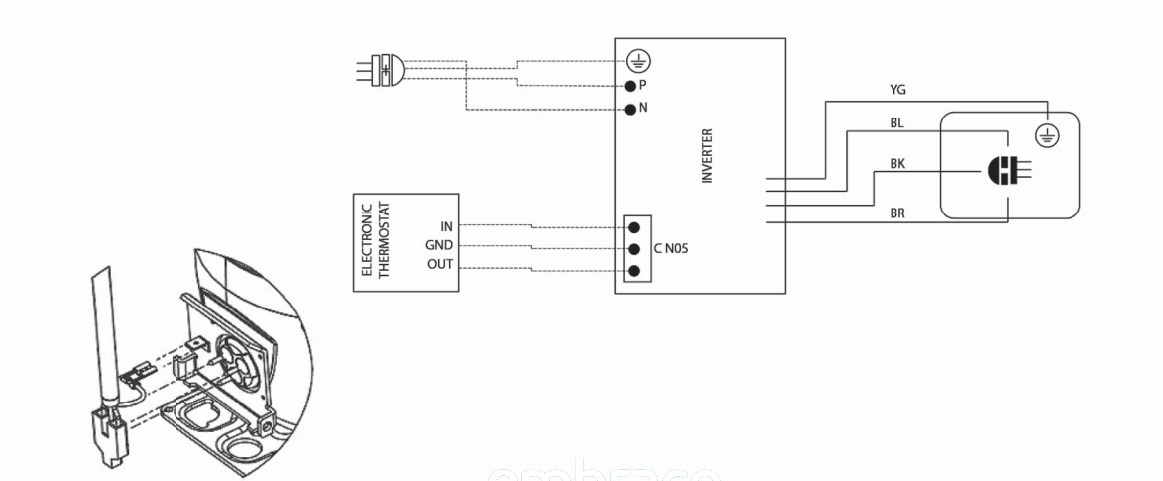
CON01 - VEMY6/VEG (Drop-in)



CON02 - VEM/VEG (Frequency)

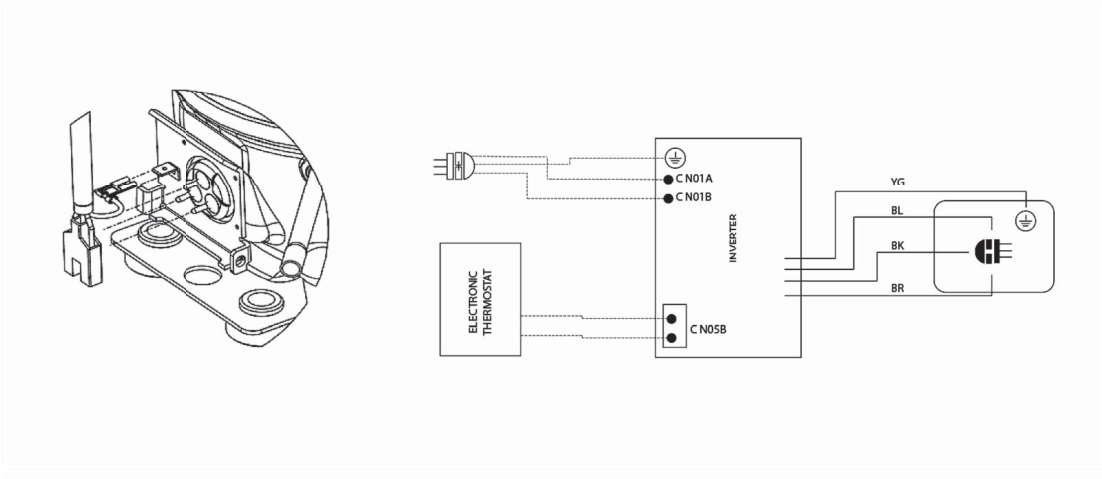


CON03 - VEMY6/VEG (Serial)

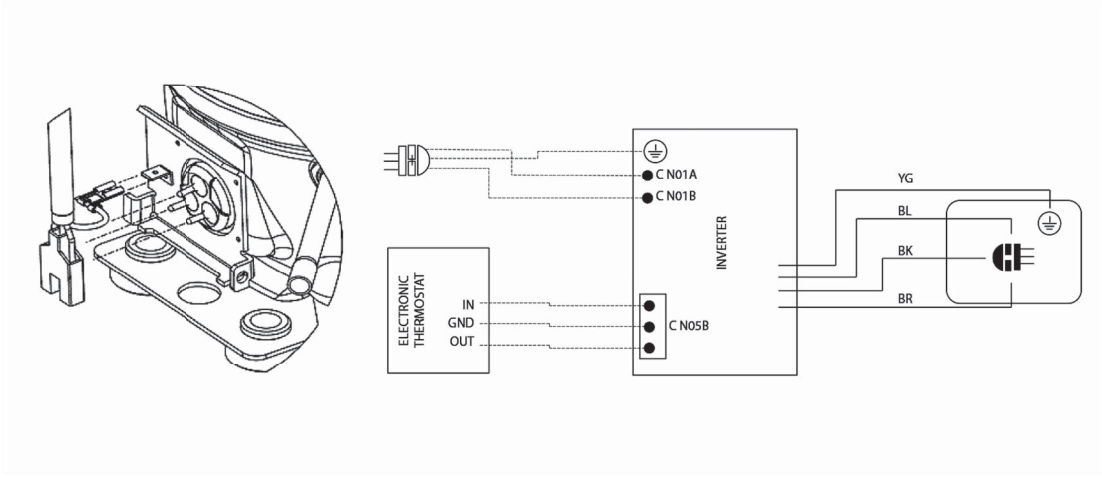


Wiring Diagrams

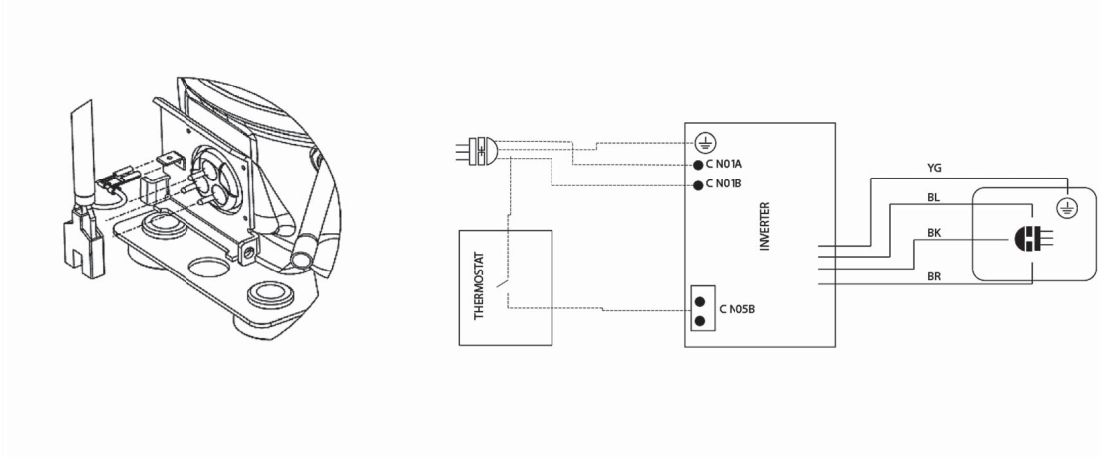
CON04 - VEM/VEH (Frequency)



CON05 - VEM/VEH (Serial)

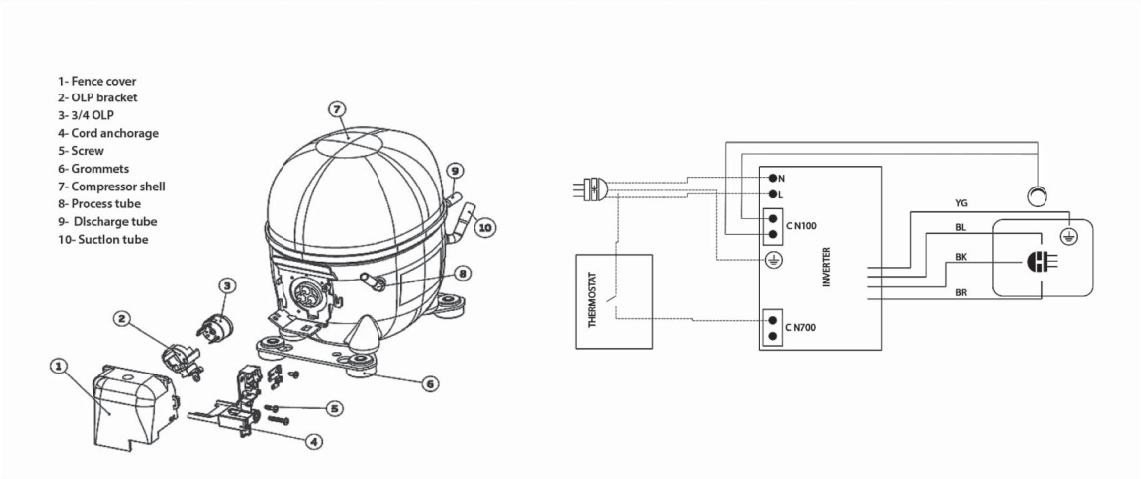


CON06 - VEM/VEH (Drop-in)

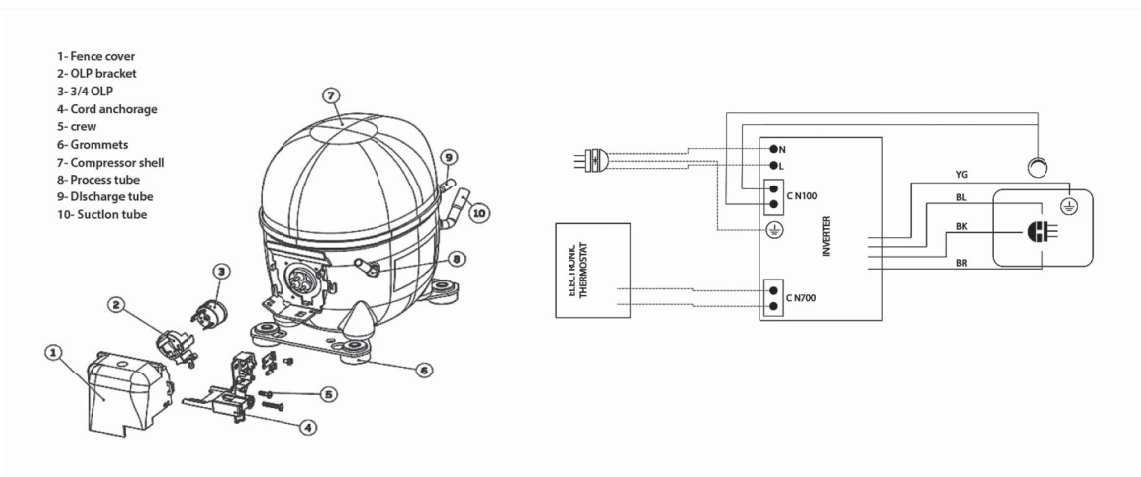


Wiring Diagrams

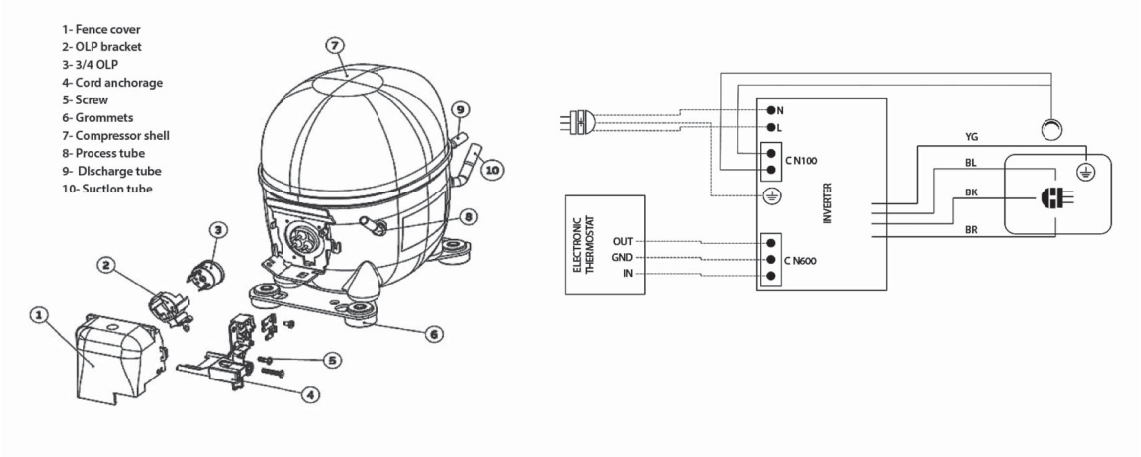
CON07 - VNE (Drop-in)



CON08 - VNE (Frequency)

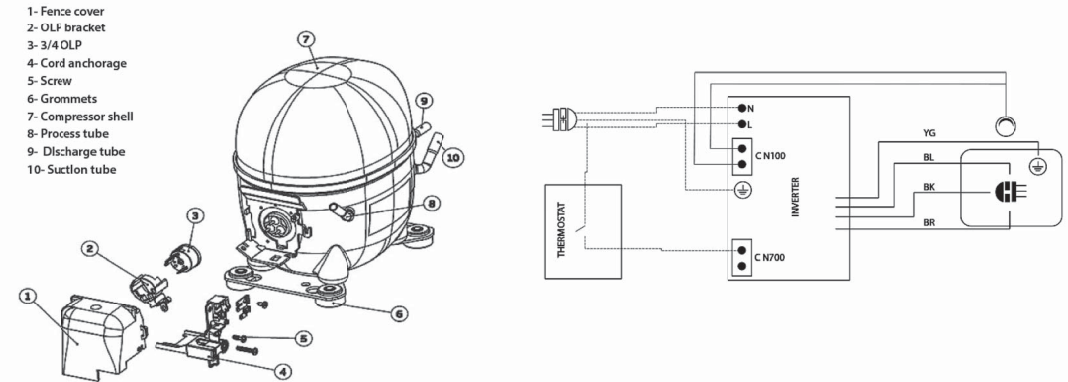


CON09 - VNE (Serial)

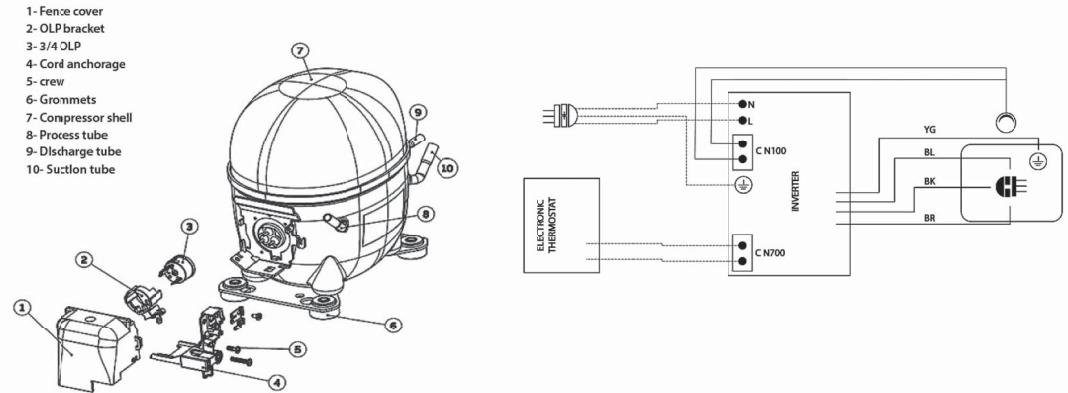


Wiring Diagrams

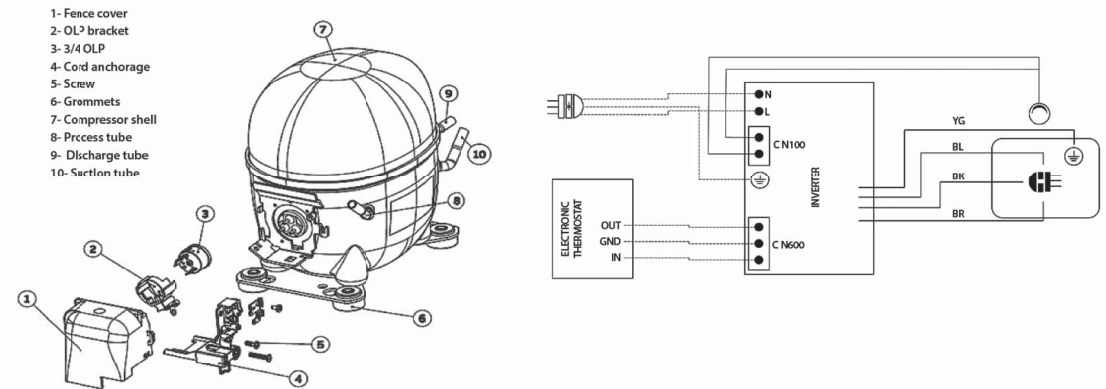
CON07 - VNE (Drop-in)



CON08 - VNE (Frequency)



CON09 - VNE (Serial)



Recommendations

Electrical Accessories

Before removing the compressor plastic protection cover, check if the compressor is fully disconnected from the power source and if capacitors are applied.



When you need to remove the capacitors, disconnect this components carefully paying attention to the exposed electric terminals. After disconnected, the capacitor must be discharged. Check if the capacitance ranges (μ F) printed on the label on the capacitors are in accordance with the compressor's technical data. The capacitor's voltage must be the same or higher than the specified value in the compressor's technical data. In case the capacitor or compressor's specification don't match, replace the capacitor.



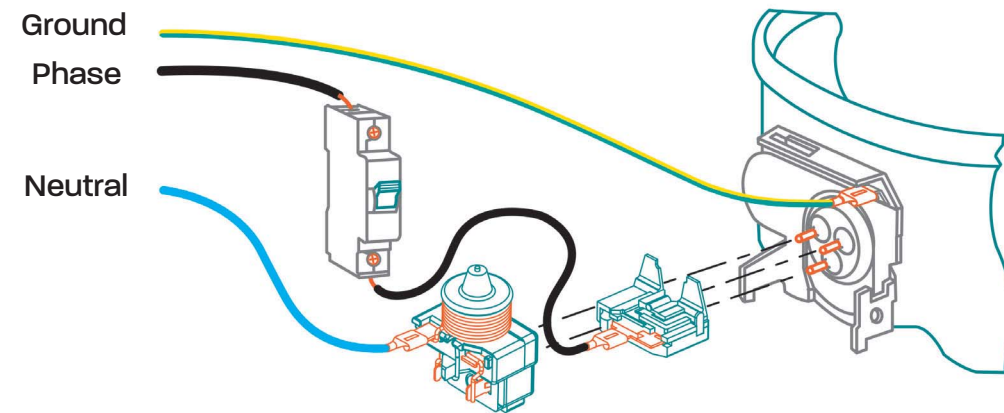
In the case of removing the electrical components from the compressor's hermetic terminal, first remove the overload protector and the start device (relay or PTC) applying longitudinal force on the terminal pins. Never apply transversal force on the pins of the hermetic terminal.



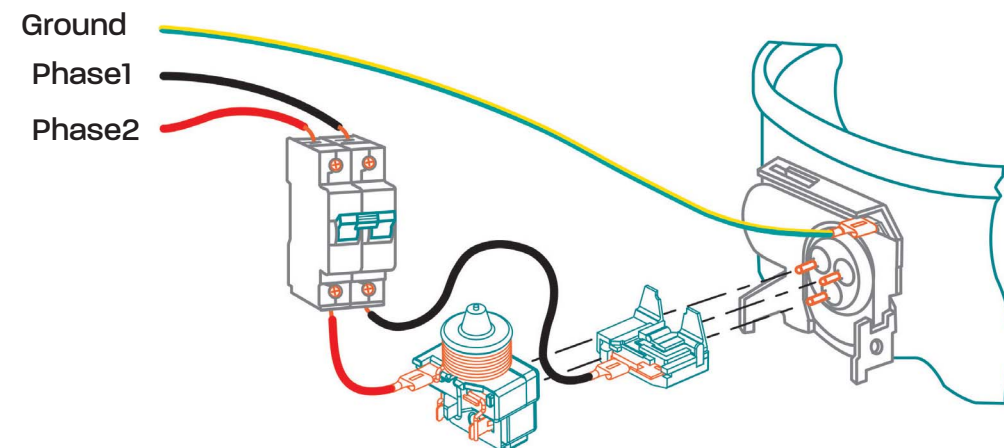
Cross check the code printed on the overload protector, relay or PTC with the compressor's technical data. In case they are different, replace these components for a compliant one. Universal accessories don't exist, you must always use components specified on the compressor's technical data.



Electrical Installation



On single-phase installations, the phase wire must be protected by a circuit breaker and connected to the overload protector. The Neutral wire must be connected to the start device (Relay or PTC). The system must be grounded.



On two-phase installations, the use of a bipolar circuit breaker is mandatory, because in case of a short circuit, both phases will be protected. The system must be grounded.



When this bipolar starter isn't applied, the system is exposed to a short circuit in the region the hermetic terminal of the compressor, which can lead to the hermetic pins to be dislodged, causing refrigerant leakage. This situation becomes more critical in the case of flammable refrigerant utilization, since associated with an ignition source, creating a risk of and exposed flame with serious risks to the technician's physical integrity.

The usage of a not grounded system can generate severe risk of an electric shock on the technician.

Compressor

If the compressor's replacement is necessary, be aware to these points below:

I. Check if the compressor is disconnected from the power grid.



You must never handle any electrical accessory with the compressor connected to the power grid. This can prevent several health risks to the technicians, such as electric shocks or getting burnt.

II. You must never remove the compressor without first removing all the refrigerant inside the system. You can use refrigerant recovery. In the case of replacing compressors with flammable refrigerants, such as R290 or R600a, make sure to remove the whole charge from the system.



The presence of flammable fluid residues can expose the technician to risks.

III. You must always use a pipe cutter to disconnect the pipes from the compressor. Under no circumstances, use the flame torch to disconnect the compressor tubes.



The use of a torch to disconnect the compressor from the system operating with flammable refrigerant can cause fire and release of toxic vapors.

IV. In case of compressor failure and / or internal contamination of the system, clean the refrigeration circuit with a suitable solvent, following the technical guidelines of the solvent manufacturer.



Failure to comply with the solvent manufacturer's technical guidelines may expose the technician to risk of fire or intoxication.

V. Before turning the compressor on:
- Check if the voltage specified on the compressor label in accordance with the power grid and system electrical installation, following item 1.1.



The application of a compressor with a wrong voltage can cause a short circuit in the region the hermetic terminal of the compressor, which can lead to the hermetic pins to be dislodged, causing refrigerant leakage. This situation becomes more critical in the case of flammable refrigerant utilization, since associated with an ignition source, creating a risk of an exposed flame with serious risks to the technician's physical integrity.

- Check if the electrical protection plastic cover is properly inserted.



Failure to use or improperly fix the plastic cover on the electrical terminal may expose the technician to risk of electric shock and fire.



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