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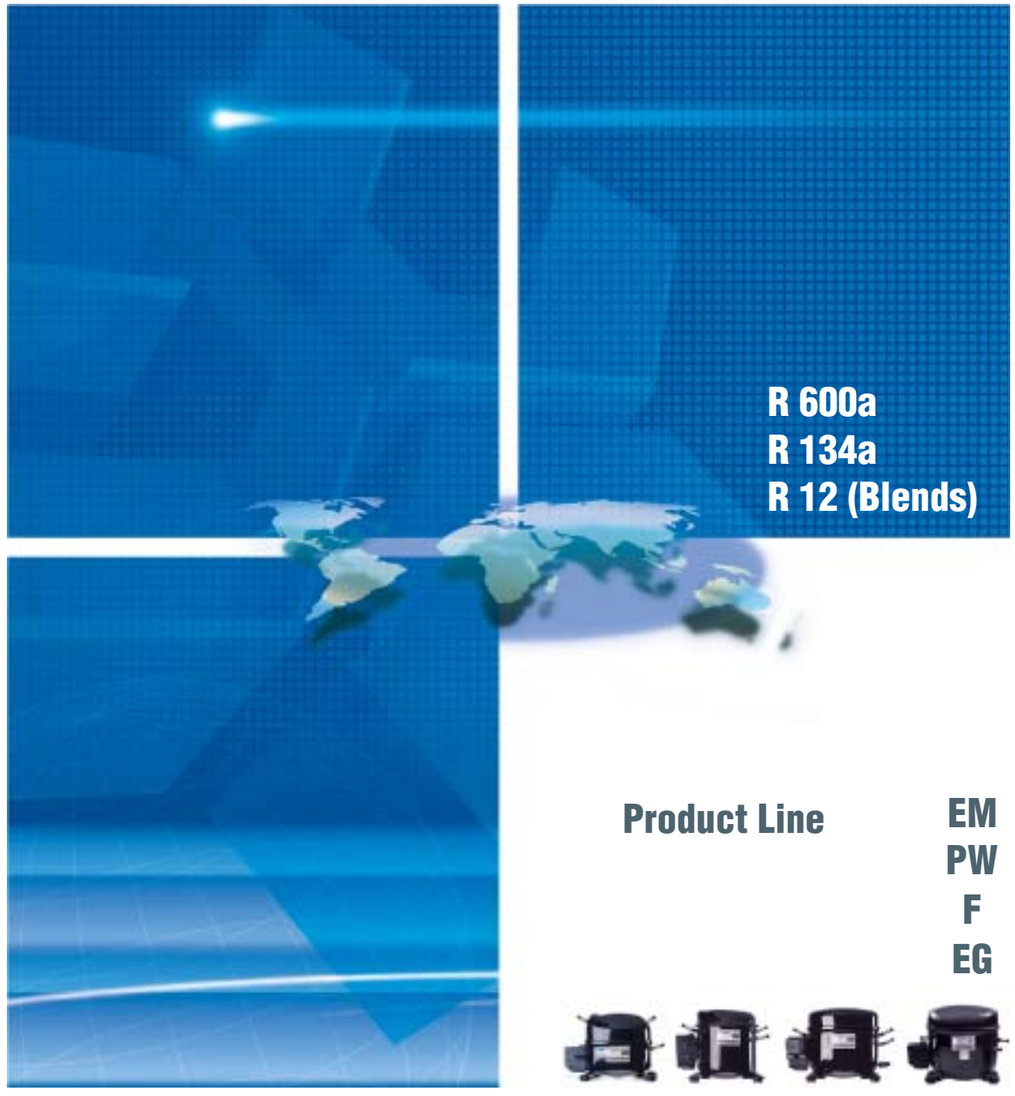
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COOLING SOLUTIONS



Product Line

EM
PW
F
EG

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R 600a - R 134a - R 12 (Blends)

Embraco

1) - COMPRESSOR COOLING TYPE

1.1) - Static Cooling (S)

The compressor does not require fan cooling and must be installed in such as way so as to allow cooling through ambient air, thus, preventing over heating.

1.2) - Fan Cooling (F)

The compressor requires a minimum air flow of 3 m/s for its cooling. Flows of lesser values must be evaluated through laboratory tests.

1.3) - Oil Cooling (OC)

The compressor uses an internal coil immersed in oils and connected to the hermetic system to help with compressor cooling. The use of more efficient compressors can eliminate the need for oil cooling.

2) - OPERATING CONDITIONS

2.1) - Starting and Operating Voltage

The compressors start at 90% of the nominal voltage

- Equalized pressures of up to 4 kgf/cm² gauge (58 psig) (R 600a).
- Equalized pressures of up to 5 kgf/cm² gauge (R 12 / Blends).
- Equalized pressures of up to 6 kgf/cm² gauge (R 134a).

Depending on the working condition and system characteristics, the compressor can operate at even lower voltages, see perfomance table.

2.2) - Winding Temperature

The winding temperature should not exceed 130°C (266 °F) when in continuous operation. For the winding temperature evaluation we recommend the "Ohmic Resistance Measurement Method".
(According to Application Manual Embraco)

2.3) - Condensing Pressure Limit

The compressors must operate in accordance with that described below:

R 600a

Condensing pressure must not exceed 7.7 kgf/cm² (113 psig) when in continuous operation at maximum expected ambient temperature (43°C) and the peak condensing temperature must not exceed 9.8 kgf/cm² gauge (145 psig).

R 12 (Blends)

Condensing pressure must not exceed 14.5 kgf/cm² (206 psig) when in continuous operation at maximum expected ambient temperature (43°C) and the peak condensing temperature must not exceed 18.2 kgf/cm² gauge (259 psig).

R 134a

Condensing pressure must not exceed 16.2 kgf/cm² (230 psig) when in continuous operation at maximum expected ambient temperature (43°C) and the peak condensing temperature must not exceed 20.6 kgf/cm² gauge (293 psig).

2.4) - Evaporating Temperature Range

APPLICATION	TEMPERATURE RANGE
LBP	-35°C to -10°C (-31°F to +14°F)
L / MBP	-35°C to -5°C (-31°F to +23°F)
M/HBP	-10°C to +15°C (-14°F to +5°F)
HBP	-5°C to +15°C (-23°F to +59°F)
L/M/HBP	-35°C to +15°C (-31°F to +59°F)

3) - MOTOR

The compressors in the performance table are equipped with monophase, induction motors.

3.1) - Motor Torque

The compressor motors are denominated:

LST - Low Starting Torque,
used in systems with capillary tube

HST - High Starting Torque,
used in systems with expansion valve or with capillary tube

3.2) - Types of Electric Motors

RSIR (PTCSIR) - Resistive Start - Inductive Run
Does not use capacitors

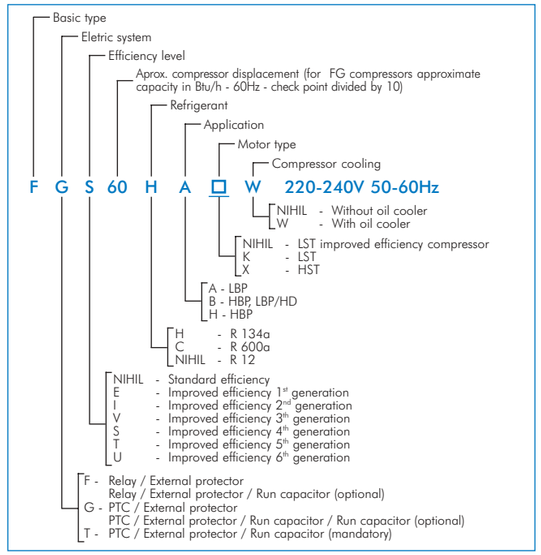
CSIR - Capacitive Start - Inductive Run
Uses electrolytic capacitor (starting)

RSCR (PTCSCR) - Resistive Start - Capacitive Run
Uses permanent capacitor (running)

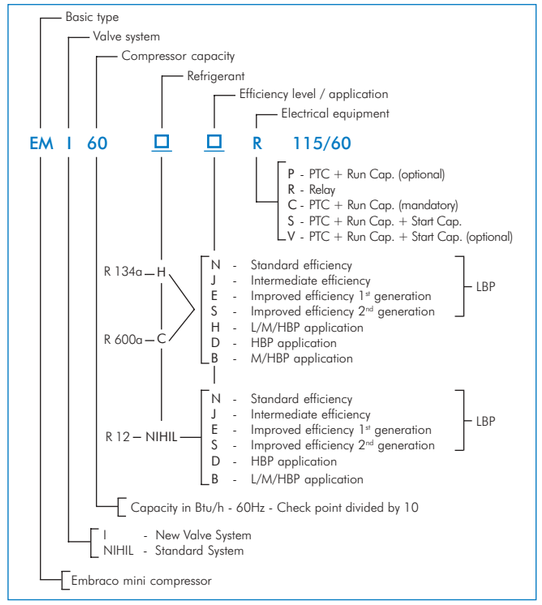
CSR (CSCR) - Capacitive Start & Run
Uses electrolytic (starting) and permanent capacitor at the same time – used with 4 terminal PTC

11) - COMPRESSOR DENOMINATION

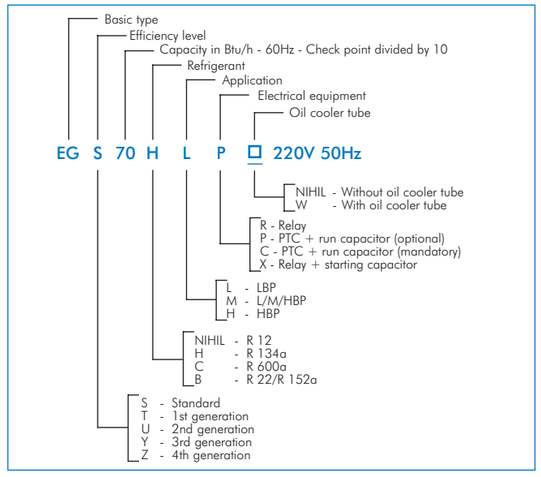
11.1) - F



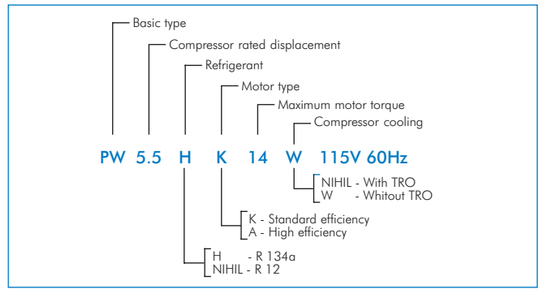
11.2) - EM



11.3) - EG



11.4) - PW

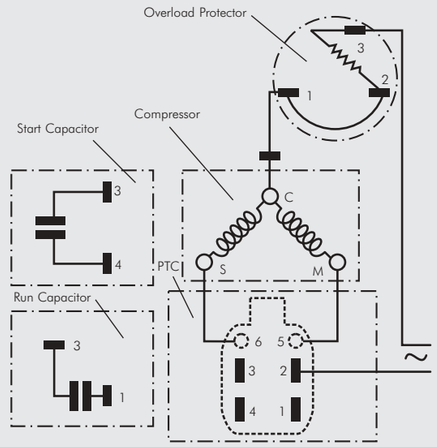


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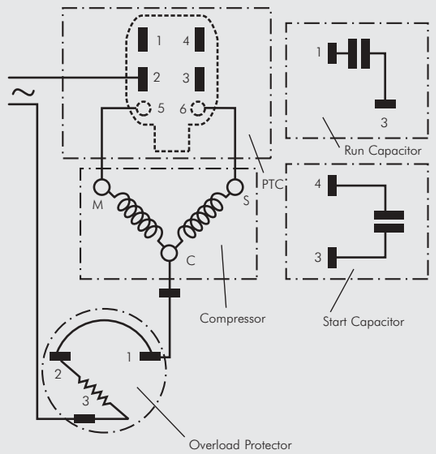
R 600a - R 134a - R 12 (Blends)

10) - ELECTRICAL DIAGRAMS

EM COMPRESSORS - CSCR / CSIR / RSCR / RSIR



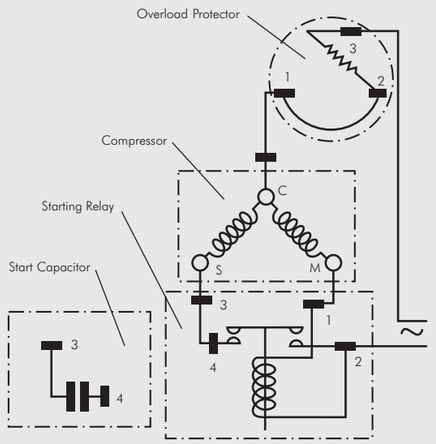
F / EG COMPRESSORS - CSCR / CSIR / RSCR / RSIR



Compressors with a run capacitor must use PTC with 3 terminals.

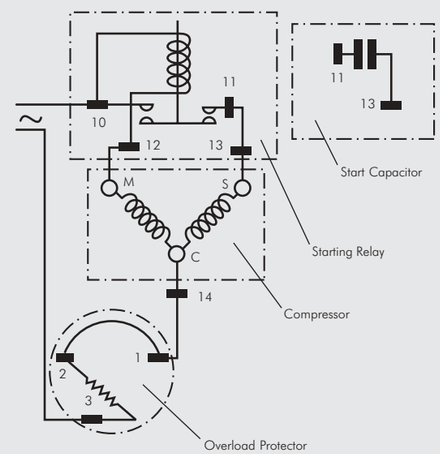
Compressors without run capacitor use PTC with 1 terminal.

EM COMPRESSORS CSIR / RSIR



If application of a start capacitor is necessary, then it must be connected between terminals 3 and 4. To achieve this, just rupture this bridge.

F / EG / PW COMPRESSORS - CSIR / RSIR



If application of a start capacitor is necessary, then it must be connected between terminals 11 and 13. This requires a specific relay, with fast on terminals for better start capacitor installation, which can be supplied upon request.

4) - WARNINGS

Compressors must not be charged with anti-freeze agents, as their use can have adverse effects on the various materials used, jeopardizing the useful life of the compressor (the use of anti-freeze agents renders the compressor warranty null and void).

Please note the use of any capacitor other than the ones listed in the tables of this catalog or in the Application Table, will cause the starting relay and overload protector not to work properly and may even cause the compressor motor to burn.

It is recommended that manufacturers of refrigeration systems using flammable refrigerants such as R 600a, develop accurate charging, leak testing and system testing methods to guarantee that all necessary safety procedures have been met.

Use flushing agents which are compatible with the refrigerant used to clean systems.

The system to which the compressor will be assembled must be developed and adequately prepared for use with R 134a and ester oil, i.e. without anti-freeze agents, greasy residues, mineral oil, impurities in R 134a and without chlorides, alkaline residues and moisture.

The compressors must not be tested unless they are connected to the refrigeration system.

The compressor must not be subjected to high voltage or starting tests while under vacuum. All Embraco compressors have already been submitted to a 1650 V high voltage test for one second.

Gas charging and evacuating equipment must only be used for R 134a in order to avoid chloride residue contamination.

The halogen leak detectors presently used in R 12 (blends) systems are not efficient with R 134a. This type of leak detector reacts with chlorine, a halogen, which is absent in R 134a. Equipment that uses helium as a tracer gas in combination with helium detectors, is recommended for the assembly lines of HFC 134a systems. There are compact electronic leak detectors on the market which are compatible with the R 134a refrigerant.

To maintain the performance presented in the performance table, the suction line must be connected to the suction connector.

For each type of refrigerant fluid there are appropriate dryer filters. (According to Application Manual Embraco).

To prevent excessive moisture from entering the compressor, the connector should be kept sealed at all times. Plugs should only be removed immediately before brazing connectors to system tubes (maximum time allowed is 15 minutes).

5) - OIL TYPE AND SPECIFICATION

Compressors are charged with a specific quantity of completely degassed oil which is moisture free:

R 600a

- Mineral Naphthenic (ISO 32 / ISO 10).
- Alkylbenzene (ISO 32).

R 12 (Blends)

- Mineral Naphthenic (ISO 32).
- Alkylbenzene (ISO 32).

Note: The blends R 401a and R 401b can only be applied with alkylbenzene oil + additive.

The compressors charged with Alkylbenzene oil + additive, receive the label bellow.

COMPRESSOR APPROVED TO BE USED WITH BLENDS LISTED BELOW

REFRIGERANT GAS	
ASHRAE	Commercial Name
R 401a	SUVA MP39
R 401b	SUVA MP66
R 409a	FORANE FX56
R 413a	ISCEON 49

R 134a

- Ester oil (ISO 22).
- Ester oil (ISO 10).
- Ester oil (ISO 7).

Note: The oil charge must not be removed or mixed.

6) - TEST CONDITIONS

TEMPERATURE	CHECK POINT HBP (ASHRAE)		CHECK POINT LBP (ASHRAE)		CHECK POINT (CECOMAF)	
	°C	°F	°C	°F	°C	°F
EVAPORATING TEMPERATURE	7.2	45	-23.3	-10	-25	-13
CONDENSING TEMPERATURE	54.4	130	54.4	130	55	131

7) - CONVERSION

1 Watt	=	3.41	Btu/h
1 Watt	=	0.86	kcal/h
1 kcal/h	=	3.97	Btu/h
1 cu.ft.	=	28.32	liters

8) - TOLERANCES

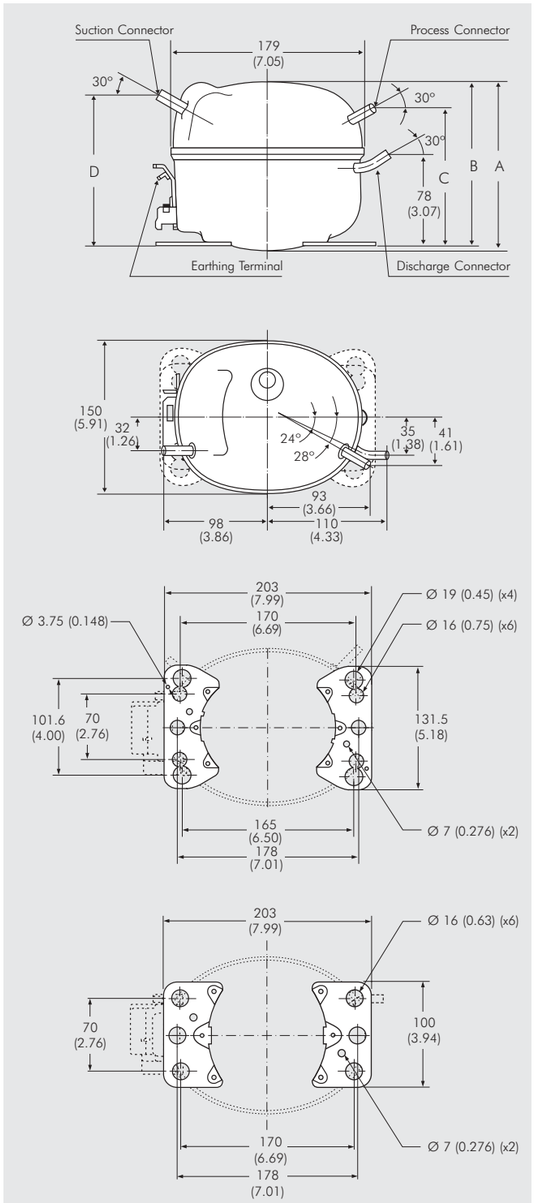
Capacity	= ±5%
Power Consumption	= ±5%
Current Consumption	= ±5%
Efficiency	= ±7%

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R 600a - R 134a - R 12 (Blends)

9) - COMPRESSOR HOUSING

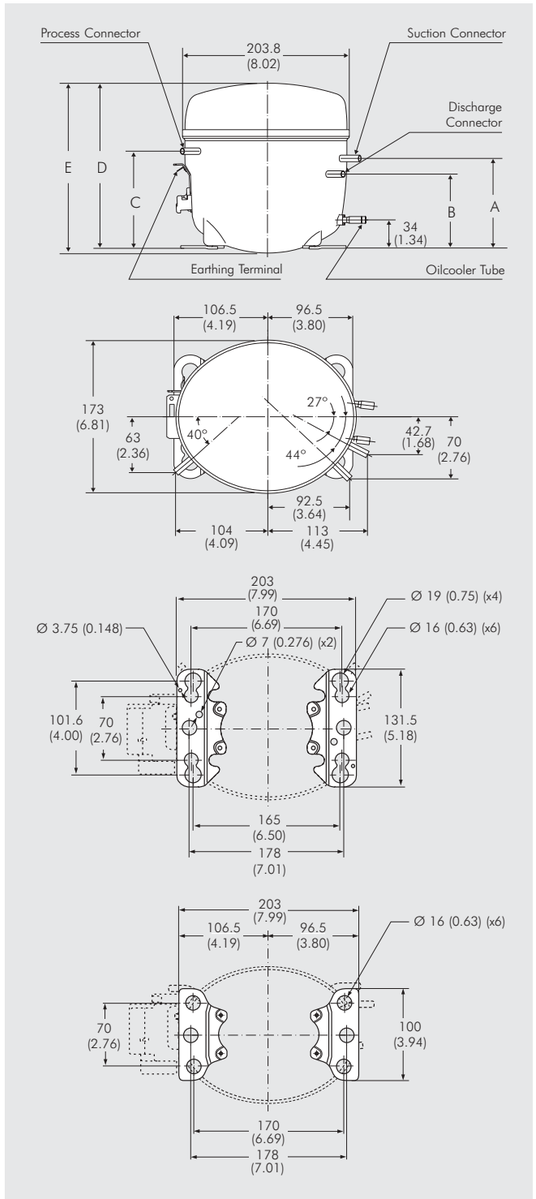
EM



Dimensions in mm (inch)

COMPRESSORS	A	B	C	D
EM (tall)	168 (6.61)	166 (6.54)	150 (5.91)	155 (6.10)
EM (short)	157 (6.18)	155 (6.10)	139 (5.47)	144 (5.67)

EG / F

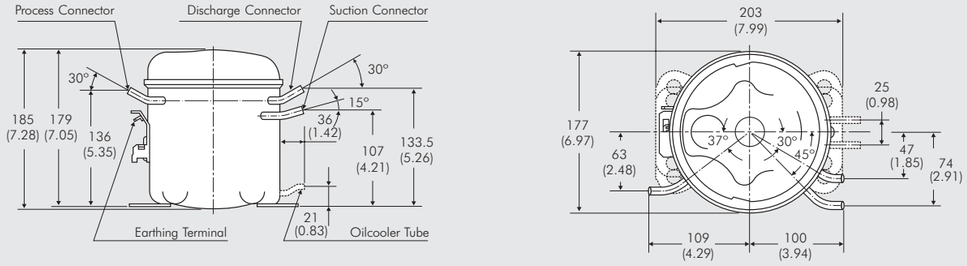


Dimensions in mm (inch)

COMPRESSORS	A	B	C	D	E
EG / F (tall)	109 (4.29)	90 (3.54)	118 (4.65)	201 (7.91)	207 (8.15)
EG / F (short)	103 (4.06)	84 (3.31)	112 (4.41)	195 (7.68)	201 (7.91)

Compressors may be supplied with either of the above plates. Please make sure you indicate which base should be supplied.

PW



Note: The base plates used in the PW compressors are the same as those used in the EM compressors.

Dimensions in mm (inch)

CONNECTORS INTERNAL DIAMETERS - mm (in)														
COMPRESSORS / CONNECTORS	EM								PW					
MATERIAL	COPPER					COPPER PLATED STEEL			COPPER			COPPER PLATED STEEL		
SUCTION	6.50 (0.256)	6.50 (0.256)	8.20 (0.323)	8.20 (0.323)	6.50 (0.256)	6.10 (0.240)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	8.20 (0.323)	8.20 (0.323)	6.50 (0.256)	8.20 (0.323)	6.10 (0.240)
DISCHARGE	4.94 (0.194)	6.50 (0.256)	4.94 (0.194)	6.50 (0.256)	5.10 (0.201)	5.00 (0.197)	5.00 (0.197)	6.50 (0.256)	4.94 (0.194)	6.50 (0.256)	6.50 (0.256)	5.00 (0.197)	6.50 (0.256)	5.00 (0.197)
PROCESS	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.10 (0.240)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	8.20 (0.323)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.10 (0.240)
OIL COOLER TUBE	–	–	–	–	–	–	–	–	–	–	–	4.77 (0.188)	–	–

CONNECTORS INTERNAL DIAMETERS - mm (in)														
COMPRESSORS / CONNECTORS	F / EG													
MATERIAL	COPPER						COPPER PLATED STEEL							
SUCTION	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	8.20 (0.323)	8.20 (0.323)	6.10 (0.240)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	8.20 (0.323)	8.20 (0.323)	6.50 (0.256)	6.50 (0.256)
DISCHARGE	4.94 (0.194)	4.94 (0.194)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	4.94 (0.194)	5.00 (0.197)	5.00 (0.197)	5.00 (0.197)	5.00 (0.197)	6.50 (0.256)	6.50 (0.256)	5.00 (0.197)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)
PROCESS	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.10 (0.240)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)
OIL COOLER TUBE	4.90 (0.193)	5.10 (0.201)	4.90 (0.193)	6.50 (0.256)	6.50 (0.256)	–	–	4.90 (0.193)	5.10 (0.201)	6.50 (0.256)	6.50 (0.256)	5.10 (0.201)	5.10 (0.201)	6.50 (0.256)	4.77 (0.188)	4.90 (0.193)

For other connectors configurations, please contact our sales division.

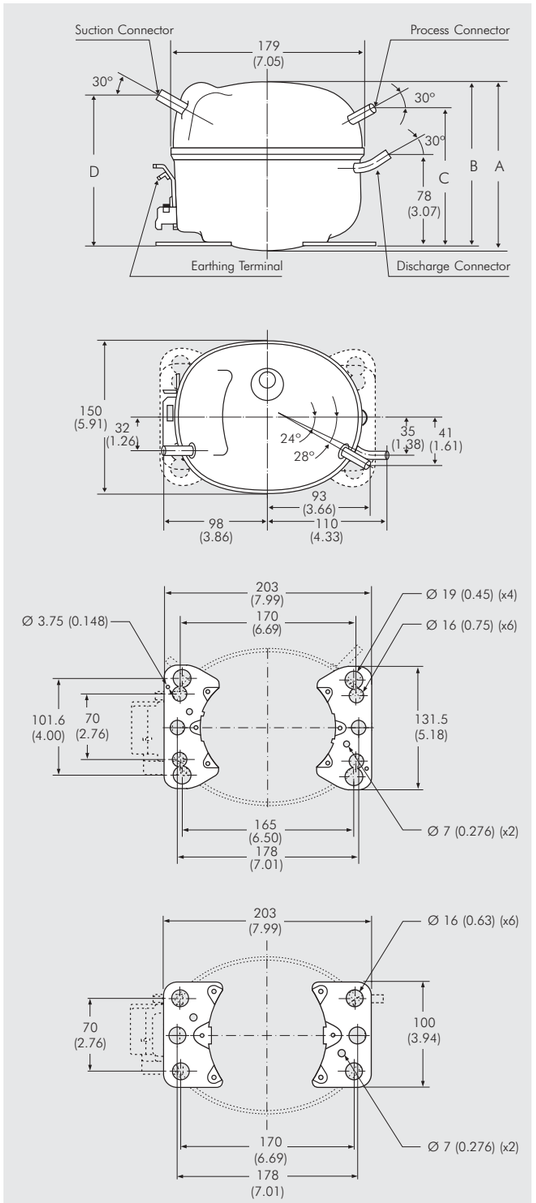
TOLERANCE								
MATERIAL	COPPER				COPPER PLATED STEEL			
CONNECTORS	4.94 +0.08 -0.08 (0.194 +0.003 -0.003)	5.10 +0.10 -0.00 (0.201 +0.004 -0.000)	6.50 +0.12 -0.08 (0.256 +0.005 -0.003)	8.20 +0.12 -0.08 (0.323 +0.005 -0.003)	5.00 +0.18 +0.06 (0.197 +0.007 +0.002)	6.10 +0.10 -0 (0.201 +0.004 -0.000)	6.50 +0.12 -0.08 (0.256 +0.005 -0.003)	8.20 +0.12 -0.08 (0.323 +0.005 -0.003)
OILCOOLER TUBE	4.77 +0.17 -0.17 (0.188 +0.007 -0.007)	4.90 +0.02 -0.05 (0.193 +0.001 -0.002)	5.10 +0.10 -0.00 (0.201 +0.004 -0.000)	6.50 +0.09 +0.09 (0.256 +0.004 -0.004)				

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R 600a - R 134a - R 12 (Blends)

9) - COMPRESSOR HOUSING

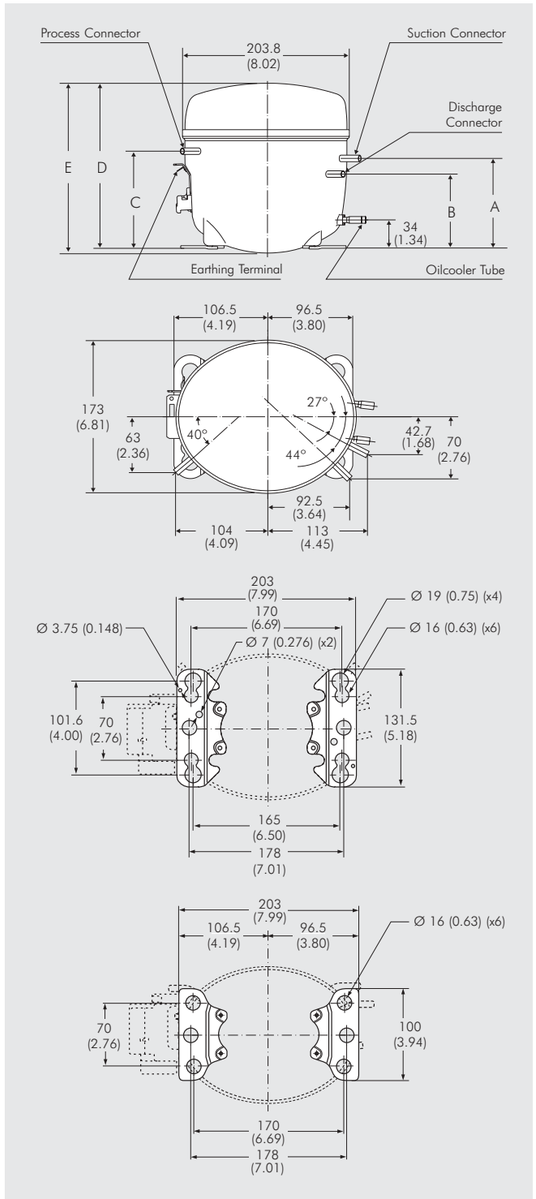
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EG / F

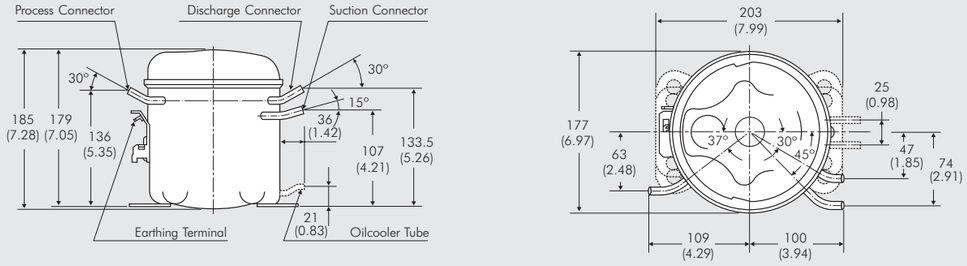


Dimensions in mm (inch)

COMPRESSORS	A	B	C	D	E
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EG / F (short)	103 (4.06)	84 (3.31)	112 (4.41)	195 (7.68)	201 (7.91)

Compressors may be supplied with either of the above plates. Please make sure you indicate which base should be supplied.

PW



Note: The base plates used in the PW compressors are the same as those used in the EM compressors.

Dimensions in mm (inch)

CONNECTORS INTERNAL DIAMETERS - mm (in)														
COMPRESSORS / CONNECTORS	EM								PW					
MATERIAL	COPPER					COPPER PLATED STEEL			COPPER			COPPER PLATED STEEL		
SUCTION	6.50 (0.256)	6.50 (0.256)	8.20 (0.323)	8.20 (0.323)	6.50 (0.256)	6.10 (0.240)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	8.20 (0.323)	8.20 (0.323)	6.50 (0.256)	8.20 (0.323)	6.10 (0.240)
DISCHARGE	4.94 (0.194)	6.50 (0.256)	4.94 (0.194)	6.50 (0.256)	5.10 (0.201)	5.00 (0.197)	5.00 (0.197)	6.50 (0.256)	4.94 (0.194)	6.50 (0.256)	6.50 (0.256)	5.00 (0.197)	6.50 (0.256)	5.00 (0.197)
PROCESS	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.10 (0.240)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	8.20 (0.323)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.10 (0.240)
OIL COOLER TUBE	–	–	–	–	–	–	–	–	–	–	–	4.77 (0.188)	–	–

CONNECTORS INTERNAL DIAMETERS - mm (in)														
COMPRESSORS / CONNECTORS	F / EG													
MATERIAL	COPPER						COPPER PLATED STEEL							
SUCTION	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	8.20 (0.323)	8.20 (0.323)	6.10 (0.240)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	8.20 (0.323)	8.20 (0.323)	6.50 (0.256)	6.50 (0.256)
DISCHARGE	4.94 (0.194)	4.94 (0.194)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	4.94 (0.194)	5.00 (0.197)	5.00 (0.197)	5.00 (0.197)	5.00 (0.197)	6.50 (0.256)	6.50 (0.256)	5.00 (0.197)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)
PROCESS	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.10 (0.240)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)	6.50 (0.256)
OIL COOLER TUBE	4.90 (0.193)	5.10 (0.201)	4.90 (0.193)	6.50 (0.256)	6.50 (0.256)	–	–	4.90 (0.193)	5.10 (0.201)	6.50 (0.256)	6.50 (0.256)	5.10 (0.201)	5.10 (0.201)	6.50 (0.256)	4.77 (0.188)	4.90 (0.193)

For other connectors configurations, please contact our sales division.

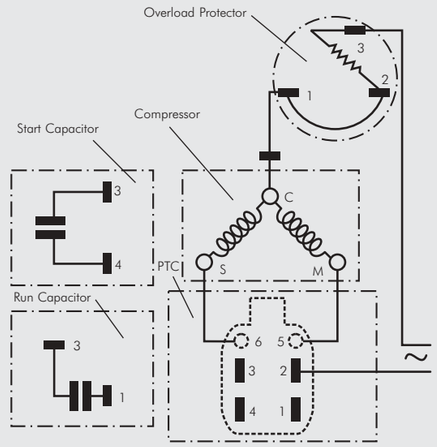
TOLERANCE								
MATERIAL	COPPER				COPPER PLATED STEEL			
CONNECTORS	4.94 +0.08 -0.08 (0.194 +0.003 -0.003)	5.10 +0.10 -0.00 (0.201 +0.004 -0.000)	6.50 +0.12 -0.08 (0.256 +0.005 -0.003)	8.20 +0.12 -0.08 (0.323 +0.005 -0.003)	5.00 +0.18 +0.06 (0.197 +0.007 +0.002)	6.10 +0.10 -0 (0.201 +0.004 -0.000)	6.50 +0.12 -0.08 (0.256 +0.005 -0.003)	8.20 +0.12 -0.08 (0.323 +0.005 -0.003)
OILCOOLER TUBE	4.77 +0.17 -0.17 (0.188 +0.007 -0.007)	4.90 +0.02 -0.05 (0.193 +0.001 -0.002)	5.10 +0.10 -0.00 (0.201 +0.004 -0.000)	6.50 +0.09 +0.09 (0.256 +0.004 -0.004)				

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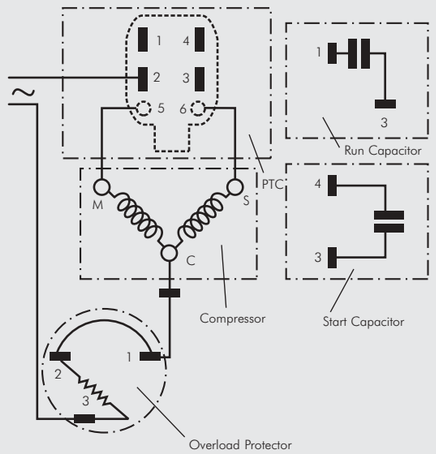
R 600a - R 134a - R 12 (Blends)

10) - ELECTRICAL DIAGRAMS

EM COMPRESSORS - CSCR / CSIR / RSCR / RSIR



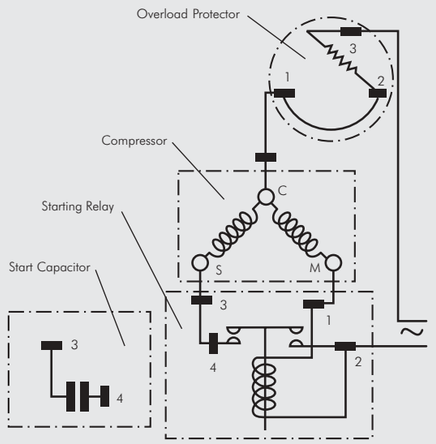
F / EG COMPRESSORS - CSCR / CSIR / RSCR / RSIR



Compressors with a run capacitor must use PTC with 3 terminals.

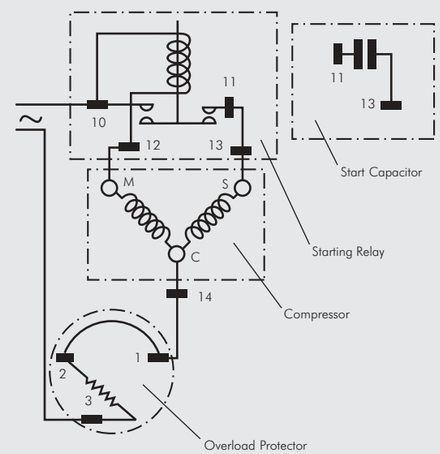
Compressors without run capacitor use PTC with 1 terminal.

EM COMPRESSORS CSIR / RSIR



If application of a start capacitor is necessary, then it must be connected between terminals 3 and 4. To achieve this, just rupture this bridge.

F / EG / PW COMPRESSORS - CSIR / RSIR



If application of a start capacitor is necessary, then it must be connected between terminals 11 and 13. This requires a specific relay, with fast on terminals for better start capacitor installation, which can be supplied upon request.

4) - WARNINGS

Compressors must not be charged with anti-freeze agents, as their use can have adverse effects on the various materials used, jeopardizing the useful life of the compressor (the use of anti-freeze agents renders the compressor warranty null and void).

Please note the use of any capacitor other than the ones listed in the tables of this catalog or in the Application Table, will cause the starting relay and overload protector not to work properly and may even cause the compressor motor to burn.

It is recommended that manufacturers of refrigeration systems using flammable refrigerants such as R 600a, develop accurate charging, leak testing and system testing methods to guarantee that all necessary safety procedures have been met.

Use flushing agents which are compatible with the refrigerant used to clean systems.

The system to which the compressor will be assembled must be developed and adequately prepared for use with R 134a and ester oil, i.e. without anti-freeze agents, greasy residues, mineral oil, impurities in R 134a and without chlorides, alkaline residues and moisture.

The compressors must not be tested unless they are connected to the refrigeration system.

The compressor must not be subjected to high voltage or starting tests while under vacuum. All Embraco compressors have already been submitted to a 1650 V high voltage test for one second.

Gas charging and evacuating equipment must only be used for R 134a in order to avoid chloride residue contamination.

The halogen leak detectors presently used in R 12 (blends) systems are not efficient with R 134a. This type of leak detector reacts with chlorine, a halogen, which is absent in R 134a. Equipment that uses helium as a tracer gas in combination with helium detectors, is recommended for the assembly lines of HFC 134a systems. There are compact electronic leak detectors on the market which are compatible with the R 134a refrigerant.

To maintain the performance presented in the performance table, the suction line must be connected to the suction connector.

For each type of refrigerant fluid there are appropriate dryer filters. (According to Application Manual Embraco).

To prevent excessive moisture from entering the compressor, the connector should be kept sealed at all times. Plugs should only be removed immediately before brazing connectors to system tubes (maximum time allowed is 15 minutes).

5) - OIL TYPE AND SPECIFICATION

Compressors are charged with a specific quantity of completely degassed oil which is moisture free:

R 600a

- Mineral Naphthenic (ISO 32 / ISO 10).
- Alkylbenzene (ISO 32).

R 12 (Blends)

- Mineral Naphthenic (ISO 32).
- Alkylbenzene (ISO 32).

Note: The blends R 401a and R 401b can only be applied with alkylbenzene oil + additive.

The compressors charged with Alkylbenzene oil + additive, receive the label bellow.

COMPRESSOR APPROVED TO BE USED WITH BLENDS LISTED BELOW

REFRIGERANT GAS	
ASHRAE	Commercial Name
R 401a	SUVA MP39
R 401b	SUVA MP66
R 409a	FORANE FX56
R 413a	ISCEON 49

R 134a

- Ester oil (ISO 22).
- Ester oil (ISO 10).
- Ester oil (ISO 7).

Note: The oil charge must not be removed or mixed.

6) - TEST CONDITIONS

TEMPERATURE	CHECK POINT HBP (ASHRAE)		CHECK POINT LBP (ASHRAE)		CHECK POINT (CECOMAF)	
	°C	°F	°C	°F	°C	°F
EVAPORATING TEMPERATURE	7.2	45	-23.3	-10	-25	-13
CONDENSING TEMPERATURE	54.4	130	54.4	130	55	131

7) - CONVERSION

1 Watt	=	3.41	Btu/h
1 Watt	=	0.86	kcal/h
1 kcal/h	=	3.97	Btu/h
1 cu.ft.	=	28.32	liters

8) - TOLERANCES

Capacity	= ±5%
Power Consumption	= ±5%
Current Consumption	= ±5%
Efficiency	= ±7%

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R 600a - R 134a - R 12 (Blends)

Embraco

1) - COMPRESSOR COOLING TYPE

1.1) - Static Cooling (S)

The compressor does not require fan cooling and must be installed in such as way so as to allow cooling through ambient air, thus, preventing over heating.

1.2) - Fan Cooling (F)

The compressor requires a minimum air flow of 3 m/s for its cooling. Flows of lesser values must be evaluated through laboratory tests.

1.3) - Oil Cooling (OC)

The compressor uses an internal coil immersed in oils and connected to the hermetic system to help with compressor cooling. The use of more efficient compressors can eliminate the need for oil cooling.

2) - OPERATING CONDITIONS

2.1) - Starting and Operating Voltage

The compressors start at 90% of the nominal voltage

- Equalized pressures of up to 4 kgf/cm² gauge (58 psig) (R 600a).
- Equalized pressures of up to 5 kgf/cm² gauge (R 12 / Blends).
- Equalized pressures of up to 6 kgf/cm² gauge (R 134a).

Depending on the working condition and system characteristics, the compressor can operate at even lower voltages, see perfomance table.

2.2) - Winding Temperature

The winding temperature should not exceed 130°C (266 °F) when in continuous operation. For the winding temperature evaluation we recommend the "Ohmic Resistance Measurement Method".
(According to Application Manual Embraco)

2.3) - Condensing Pressure Limit

The compressors must operate in accordance with that described below:

R 600a

Condensing pressure must not exceed 7.7 kgf/cm² (113 psig) when in continuous operation at maximum expected ambient temperature (43°C) and the peak condensing temperature must not exceed 9.8 kgf/cm² gauge (145 psig).

R 12 (Blends)

Condensing pressure must not exceed 14.5 kgf/cm² (206 psig) when in continuous operation at maximum expected ambient temperature (43°C) and the peak condensing temperature must not exceed 18.2 kgf/cm² gauge (259 psig).

R 134a

Condensing pressure must not exceed 16.2 kgf/cm² (230 psig) when in continuous operation at maximum expected ambient temperature (43°C) and the peak condensing temperature must not exceed 20.6 kgf/cm² gauge (293 psig).

2.4) - Evaporating Temperature Range

APPLICATION	TEMPERATURE RANGE
LBP	-35°C to -10°C (-31°F to +14°F)
L / MBP	-35°C to -5°C (-31°F to +23°F)
M/HBP	-10°C to +15°C (-14°F to +5°F)
HBP	-5°C to +15°C (-23°F to +59°F)
L/M/HBP	-35°C to +15°C (-31°F to +59°F)

3) - MOTOR

The compressors in the performance table are equipped with monophase, induction motors.

3.1) - Motor Torque

The compressor motors are denominated:

LST - Low Starting Torque,
used in systems with capillary tube

HST - High Starting Torque,
used in systems with expansion valve or with capillary tube

3.2) - Types of Electric Motors

RSIR (PTCSIR) - Resistive Start - Inductive Run
Does not use capacitors

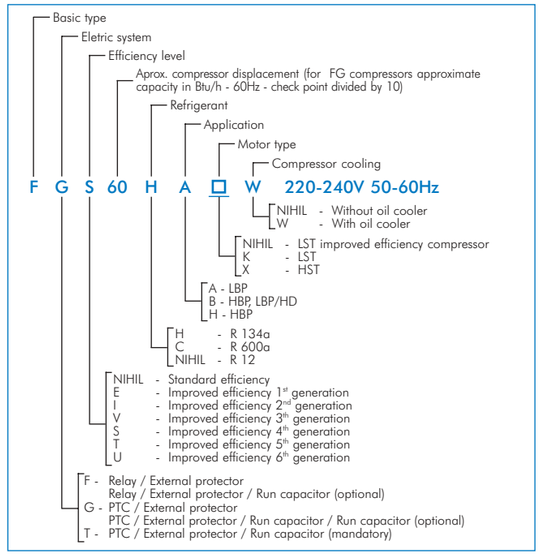
CSIR - Capacitive Start - Inductive Run
Uses electrolytic capacitor (starting)

RSCR (PTCSCR) - Resistive Start - Capacitive Run
Uses permanent capacitor (running)

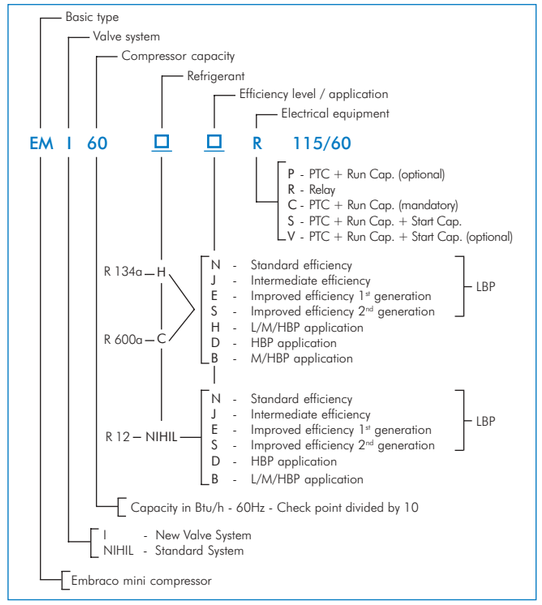
CSR (CSCR) - Capacitive Start & Run
Uses electrolytic (starting) and permanent capacitor at the same time – used with 4 terminal PTC

11) - COMPRESSOR DENOMINATION

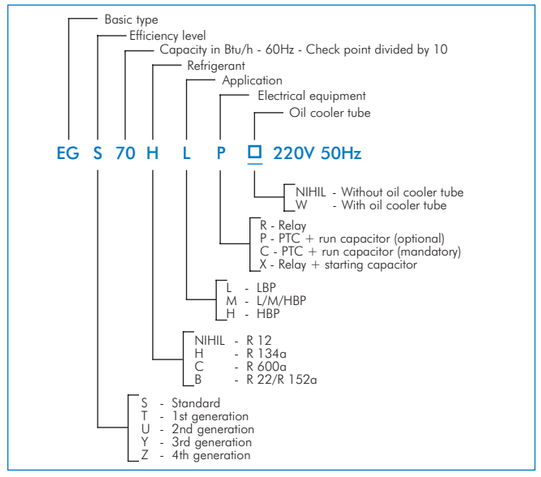
11.1) - F



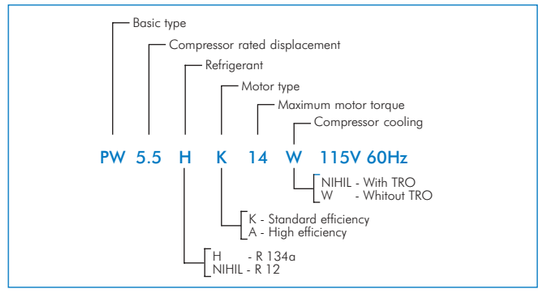
11.2) - EM



11.3) - EG



11.4) - PW



R 134a - Performance Table

Embraco

APPLICATION	MODEL	VOLTAGE / FREQUENCY	DISPLACEMENT cm³	OPERATING VOLTAGE RANGE (V)	COOLING TYPE*	OIL VISCOSITY	CHECK POINT DATA CECOMAF (CALCULATED) CAPACITY (W)	CHECK POINT DATA CECOMAF (CALCULATED) COP (W/W)	PERFORMANCE / EVAPORATING TEMPERATURE °C - ASHRAE -35 Btu/h	-35 W	-25 Btu/h	-25 W	CHECK POINT DATA -23.3 CAPACITY Btu/h	CAPACITY W	POWER CONSUMPTION W	CURRENT CONSUMPTION A	EFFICIENCY Btu/Wh	EFFICIENCY W/W	-15 Btu/h	-15 W	-5 Btu/h	-5 W	0 Btu/h	0 W	+5 Btu/h	+5 W	CHECK POINT DATA +7.2 CAPACITY Btu/h	CAPACITY W	POWER CONSUMPTION W	CURRENT CONSUMPTION A	EFFICIENCY Btu/Wh	EFFICIENCY W/W	+10 Btu/h	+10 W	+15 Btu/h	+15 W	MOTOR TYPE	STARTING RELAY SUBASSEMBLY CODE	OVERLOAD PROTECTOR	RUN CAPACITOR µF	STARTING CAPACITOR µF
LBP	EM 28HNR	115V 60Hz	3.00	98 - 140	S	ISO10	61	0.83	86	25	249	73	280	82	78	1.20	3.59	1.05	499	146	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514008	4TM283RFBYY-53	-	97-116
		220V 50-60Hz (50Hz data)		187 - 255			53	0.74	78	23	211	62	245	72	76	0.75	3.22	0.94	406	119	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213514016	4TM718MFBYY-53		50-60
		220V 50-60Hz (60Hz data)		187 - 242			61	0.83	86	25	249	73	280	82	78	0.65	3.59	1.05	499	146	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EMI 28HER	115-127V 60Hz	3.00	98 - 140	S	ISO10	61	0.92	99	29	247	72	280	82	71	0.96	3.95	1.16	472	138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213514075	4TM734LFBYY-53	-	64-77
		220-240V 50-60Hz (50Hz data)		198 - 255			53	0.89	80	23	217	64	245	72	63	0.56	3.86	1.13	407	119	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514032	4TM189KFBYY-53		72-88
		220-240V 50-60Hz (60Hz data)		198 - 242			61	0.92	99	29	247	72	280	82	71	0.51	3.95	1.16	472	138	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EM 30HNP	220-240V 50Hz	3.00	198 - 255	S	ISO22	46	0.77	70	21	190	56	210	62	64	0.45	3.30	0.97	367	108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	8EA5B3	4TM110NFBYY-53	2	-
	EM 30HNR	115V 60Hz	3.00	98 - 135	S	ISO10	66	0.90	94	28	265	78	305	89	78	1.03	3.90	1.14	490	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213514075	4TM283NFBYY-53	-	88-108
		220V 50-60Hz (50Hz data)		187 - 242			54	0.79	74	22	209	61	250	73	74	0.62	3.40	1.00	397	116	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514032	4TM189KFBYY-53		38-46
		220V 50-60Hz (60Hz data)					66	0.87	94	28	265	78	305	89	81	0.56	3.75	1.10	490	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EMI 30HEP	100V 50-60Hz (50Hz data)	3.00	85 - 110	S	ISO10	50	0.80	58	17	214	63	230	67	67	1.21	3.45	1.01	393	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	4R7MD	4TM276RFBYY-53	-	-
		100V 50-60Hz (60Hz data)					60	0.84	64	19	242	71	275	81	76	1.12	3.62	1.06	474	139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EMI 30HER	115-127V 60Hz	3.00	98 - 140	S	ISO10	66	0.95	102	30	275	81	305	89	74	0.99	4.10	1.20	482	141	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213514008	4TM734LFBYY-53	-	64-77
		220V 50-60Hz (50Hz data)		187 - 242			53	0.89	78	23	211	62	245	72	64	0.56	3.84	1.13	420	123	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514032	4TM189KFBYY-53		72-88
		220V 50-60Hz (60Hz data)					66	0.95	111	32	271	79	305	89	74	0.52	4.10	1.20	522	153	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EMI 30HSC	115V 60Hz	3.00	103 - 135	S	ISO10	67	1.00	110	32	292	86	310	91	72	0.65	4.3	1.26	505	148	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	490D314R7	4TM189RHBYY-53	12	-
	EMI 30HSR	115V 60Hz	3.00	103 - 135	S	ISO10	67	1.04	114	33	277	81	310	91	69	0.89	4.49	1.32	510	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	213514075	4TM283KFBYY-53	-	-
	EMU 30HER	115V 60Hz	3.00	98 - 140	S	ISO10	75	1.06	144	42	311	91	345	101	76	0.94	4.57	1.34	540	158	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	213514075	4TM283NFBYY-53		
		220-240V 50-60Hz (50Hz data)		187 - 255			60	0.98	108	32	247	72	275	81	65	0.55	4.23	1.24	443	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-
		220-240V 50-60Hz (60Hz data)		187 - 242			75	1.05	144	42	311	91	345	101	76	0.52	4.54	1.33	540	158	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR-CSIR	213514016	4TM718KFBYY-53		
	EMU 30HSC	115V 60Hz	3.00	103 - 135	S	ISO10	71	1.08	139	41	308	90	328	96	70	0.65	4.67	1.37	553	162	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	490D314R7	4TM197NFBYY-53	12	-
	EM 35HNR	115V 60Hz	3.29	98 - 140	S	ISO10	72	0.89	125	37	292	86	330	97	86	1.20	3.85	1.13	548	161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213514008	4TM283RFBYY-53		97-116
		220V 50-60Hz (50Hz data)		187 - 255			58	0.77	88	26	232	68	265	78	80	0.75	3.31	0.97	439	129	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514016	4TM718MFBYY-53	-	50-60
		220V 50-60Hz (60Hz data)		187 - 242			72	0.89	124	36	292	86	330	97	86	0.65	3.85	1.13	549	161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EM 40HNP	220-240V 50Hz	3.77	198 - 255	S	ISO22	65	0.90	111	33	269	79	300	88	77	0.53	3.90	1.14	503	147	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	8EA5B3	4TM189NFBYY-53	2	-
	EMI 40HEP	220-240V 50Hz	3.77	198 - 255	S	ISO10	75	1.03	153	45	318	93	344	101	77	0.42	4.44	1.30	540	158	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	7M220MD3	4TM189KFBYY-53	2.5	-
	EMI 40HJP	100V 50-60Hz (50Hz data)	3.77	85 - 110	S	ISO22	70	0.85	123	36	284	83	320	94	88	1.60	3.64	1.07	528	155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	490C814R7	4TM319RFBYY-53	-	-
		100V 50-60Hz (60Hz data)					82	0.90	143	42	340	100	380	111	98	1.45	3.88	1.14	643	189	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
		220-240V 50Hz		165 - 264			70	0.85	122	36	284	83	320	94	88	0.65	3.64	1.07	534	156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		P400E	4TM189NFBYY-53		
	EMI 40HNP	100V 50-60Hz (50Hz data)	3.77	85 - 110	S	ISO22	70	0.76	126	37	290	85	320	94	98	1.80	3.27	0.96	531	156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	490C814R7	4TM319RFBYY-53		
		100V 50-60Hz (60Hz data)					82	0.85	146	43	358	105	380	111	104	1.60	3.65	1.07	647	190	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-
		115V 60Hz	4.08	98 - 140			93	0.96	153	45	386	113	430	126		1.30	4.13	1.21	691	202	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		8EA1B1	4TM283ULBYY-53		
		220V 60Hz		187 - 242		ISO10		0.95							105	0.70	4.10	1.20			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			4TM189RHBYY-53		
	EMI 40HNR	115-127V 60Hz	3.77	98 - 140	S	ISO10	81	0.96	132	39	322	94	375	110	90	1.21	4.17	1.22	616	181	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213514075	4TM283RFBYY-53		88-108
		220V 50-60Hz (50Hz data)		187 - 255			66	0.86	116	34	281	82	305	89	82	0.72	3.72	1.09	512	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514164	4TM718KFBYY-53	-	53-64
		220V 50-60Hz (60Hz data)		187 - 242			81	0.96	143	42	358	105	375	110	90	0.65	4.14	1.21	630	185	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EM 45HNR	115-127V 60Hz	3.77	98 - 140	S	ISO10	91	0.92	165	48	374	110	420	123	106	1.63	3.95	1.16	668	196	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213514105	4TM757MFBYY-53	-	150-180
		220V 50-60 Hz (50Hz data)		187 - 242			72	0.80	142	42	310	91	330	97	96	0.89	3.45	1.01	546	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514130	4TM718MFBYY-53		38-46
		220V 50-60Hz (60Hz data)					91	0.93	176	51	376	110	420	123	104	0.78	4.04	1.18	676	198	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EMI 45HER	115V 60Hz	4.08	103 - 135	S	ISO10	94	1.00	106	31	384	112	435	127	100	1.24	4.35	1.27	700	205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	213514091	4TM743KFBYY-53	-	-
		220-240V 50-60Hz (50Hz data)	3.77	187 - 255			74	0.96	148	43	313	92	340	100	82	0.77	4.14	1.21	551	161	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514016	4TM718KFBYY-53		50-60
		220-240V 50-60Hz (60Hz data)		191 - 242			91	1.04	160	47	376	110	420	123	93	0.68	4.50	1.32	674	197	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EMU 45HEP	100V 50-60Hz (50Hz data)	3.77	85 - 110	S	ISO10	76	0.97	165	48	316	93	352	103	84	1.52	4.19	1.23	581	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	7M4R7MC1	4TM427NFBYY-53	-	-
		100V 50-60Hz (60Hz data)					95	1.04	219	64	400	117	436	128	97	1.41	4.51	1.32	656	192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EMU 45HER	115-127V 60Hz	3.77	98 - 140	S	ISO10	98	1.07	189	55	414	121	450	132	97	1.25	4.65	1.36	656	192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	213514040	4TM757KFBYY-53		-
		220-240V 50-60Hz (50Hz data)		187 - 255			79	1.02	171	50	337	99	365	107	83	0.74	4.40	1.29	546	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514016	4TM718KFBYY-53	-	50-60
		220-240V 50-60Hz (60Hz data)		191 - 242			98	1.08	189	55	414	121	450	132	96	0.68	4.66	1.37	656	192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EMU 45HSC	115-127V 60Hz	3.77	98 - 140	S	ISO10	98	1.15	199	58	412	121	450	132	90	0.81	4.97	1.46	709	208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		490D314R7	4TM283NFBYY-53	12	
		220-240V 50-60Hz (50Hz data)		187 - 255			81	1.11	156	46	340	100	373	109	78	0.36	4.78	1.40	556	163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	7M220MD3	4TM189KFBYY-53	5	-
		220-240V 50-60Hz (60Hz data)		187 - 242			97	1.14	184	54	398	117	448	131	91	0.44	4.93	1.44	663	194	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EMY 45HER	115-127V 60Hz	3.77	103 - 140	S	ISO10	98	1.12	211	62	419	123	455	133	94	1.22	4.83	1.42	683	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	213514199	4TM757KFBYY-53	-	-
	EMY 45HSC	115-127V 60Hz	3.77	103 - 140	S	ISO10	98	1.22	211	62	419	123	455	133	88	0.80	5.14	1.51	683	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA3B3	4TM283NFBYY-53	12	-
	EM 50HNP	220-240V 50Hz	4.99	187 - 255	S	ISO22	92	0.93	152	45	369	108	425	125	106	0.82	4.02	1.18	665	195	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	8EA5B3	4TM189RHBYY-53	2	-
	EMI 50HEP	220-240V 50Hz	4.60	198 - 255	S	ISO10	91	0.98	182	53	381	112	420	123	100	0.77	4.22	1.24	659	193	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	P400E	4TM189RHBYY-53	-	-
	EMI 50HER	115V 60Hz	4.99	103 - 127	S	ISO22	110	0.96	231	68	454	133	510	149	123	1.65	4.13	1.21	828	243	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	213514105	4TM757KFBYY-53		-
		220V 50-60Hz (50Hz data)		187 - 242		ISO10	92	0.88	159	47	382	112	425	125	112	0.90	3.78	1.11	676	198	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514156	4TM734KDBYY-53	-	64-77
		220V 50-60Hz (60Hz data)					110	1.00	201	59	451	132	510	149	119		4.29	1.26	828	243	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EMI 50HNP	115V 60Hz	4.60	103 - 135	S	ISO22	110	0.96	220	65	455	133	510	149	124	1.74	4.12	1.21	818	240	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	490C814R7	4TM319RFBYY-53	-	-
		220V 60Hz		187 - 242					226	66	467	137							812	238	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		7M220MC1			
	EM 55HNR	115V 60Hz	4.60	103 - 135	S	ISO22	110	0.94	216	63	438	128	510	149	126	1.69	4.05	1.19	777	228	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213514067	4TM762KFBYY-53		170-200
		220V 50-60Hz (50Hz data)		187 - 242			91	0.85	175	51	377	110	420	123	115	1.00	3.65	1.07	647	190	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514130	4TM718RFBYY-53	-	50-60
		220V 50-60Hz (60Hz data)			S/F		110	0.94	173		436	128	510	149	126	0.86	4.05	1.19	802	235	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					

Note: Condensing Temperature 54.4°C (129.92°F)

* Static Cooling (S) / Fan Cooling (F)

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R 134a - Performance Table

Embraco

APPLICATION	MODEL	VOLTAGE / FREQUENCY	DISPLACEMENT cm³	OPERATING VOLTAGE RANGE (V)	COOLING TYPE*	OIL VISCOSITY	CHECK POINT DATA CECOMAF (CALCULATED) CAPACITY (W)	CHECK POINT DATA CECOMAF (CALCULATED) COP (W/W)	PERFORMANCE / EVAPORATING TEMPERATURE °C - ASHRAE -35 Btu/h	-35 W	-25 Btu/h	-25 W	CHECK POINT DATA -23.3 CAPACITY Btu/h	CAPACITY W	POWER CONSUMPTION W	CURRENT CONSUMPTION A	EFFICIENCY Btu/Wh	EFFICIENCY W/W	-15 Btu/h	-15 W	-5 Btu/h	-5 W	0 Btu/h	0 W	+5 Btu/h	+5 W	CHECK POINT DATA +7.2 CAPACITY Btu/h	CAPACITY W	POWER CONSUMPTION W	CURRENT CONSUMPTION A	EFFICIENCY Btu/Wh	EFFICIENCY W/W	+10 Btu/h	+10 W	+15 Btu/h	+15 W	MOTOR TYPE	STARTING RELAY SUBASSEMBLY CODE	OVERLOAD PROTECTOR	RUN CAPACITOR µF	STARTING CAPACITOR µF
LBP	EM 55HNX	115-127V 60Hz	4.60	103 - 140	S/F	ISO22	115	0.94	216	63	438	128	530	155	130	1.73	4.07	1.19	777	228	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	HST / CSIR	213515292	4TM762KFBYY-53	-	145-175
	EMI 55HER	115-127V 60Hz	4.60	98 - 140	S/F	ISO22	110	1.03	228	67	459	134	510	149	115	1.54	4.45	1.30	807	236	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514105	4TM757KDBYY-53	-	233-280
		220V 50-60Hz (50Hz data)		198 - 255			91	0.97	199	58	387	113	420	123	100	0.75	4.20	1.23	672	197	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213514059	4TM 718NFBYY-53		108-130
		220V 50-60Hz (60Hz data)		198 - 242			110	1.03	228	67	458	134	510	149	115		4.45	1.30	806	236	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EM 60HNP	220-240V 50Hz	5.54	198 - 255	S	ISO22	105	0.95	199	58	437	128	485	142	118	0.83	4.11	1.20	790	232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	8EA5B3	4TM213PFBYY-53	2	-
	EMI 60HEP	100V 50-60Hz (50Hz data)	4.99	90 - 127	S	ISO10	98	0.95	191	56	412	121	455	133	111	2.13	4.09	1.20	709	208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	490C814R7	4TM427NFBYY-53	-	-
		100V 50-60Hz (60Hz data)					124	1.05	270	79	524	153	571	167	126	1.89	4.54	1.33	869	255	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
		220-240V 50Hz		198 - 255			98	0.96	191	56	412	121	455	133	109	0.78	4.16	1.22	709	208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		7M220MC1	4TM189RHBYY-53		
	EMI 60HER	115V 60Hz	4.99	98 - 135	S	ISO10	124	0.99	241	71	511	150	570	167	134	1.92	4.25	1.25	907	266	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514083	4TM762KFBYY-53	-	158-190
		220V 50-60Hz (50Hz data)		187 - 242		ISO22	102	0.90	215	63	421	123	470	138	121	1.05	3.88	1.14	738	216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213514130	4TM718REBYY-53		70-84
		220V 50-60Hz (60Hz data)					124	0.99	241	71	511	150	570	167	133	0.93	4.28	1.25	907	266	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EMI 60HSC	115V 60Hz	4.99	103 - 135	S	ISO10	124	1.07	249	73	515	151	570	167	123	1.20	4.65	1.36	904	265	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA1B3	4TM283RFBYY-53	15	-
	EMI 60HSR	115V 60Hz	4.99	98 - 140	S	ISO10	124	1.07	273	80	512	150	570	167	124	1.60	4.60	1.35	867	254	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	213514105	4TM757LFBYY-53	-	-
		220V 60Hz		198 - 242	S/F											0.80					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	213514059	4TM734KFBYY-53	-	-
	EMT 60HSC	115V 60Hz	4.99	103 - 135	S	ISO10	130	1.16	294	86	570	167	600	176	120	1.10	5.00	1.47	950	278	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA3B3	4TM319RFBYY-53	15	-
	EMU 60HEP	100V 50-60Hz (50Hz data)	4.99	85 - 110	S	ISO10	105	0.98	229	67	453	133	485	142	115	2.06	4.22	1.24	778	228	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	490C814R7	4TM427NFBYY-53	-	-
		100V 50-60Hz (60Hz data)					128	1.09	270	79	545	160	590	173	126	1.86	4.70	1.38	914	268	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EMU 60HER	115-127V 60Hz	4.99	98 - 140	S	ISO10	128	1.09	285	84	551	162	590	173	125	1.62	4.72	1.38	921	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	213514105	4TM757LFBYY-53	-	-
	EMU 60HLC	115V 60Hz	5.19	103 - 127	S	ISO10	131	1.16	286	84	550	161	605	177	121	1.22	5.00	1.47	956	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA3B3	4TM319NFBYY-53	12	-
	EMU 60HSC	115-127V 60Hz	4.99	103 - 140	S	ISO10	128	1.15	271	80	531	156	590	173	118	1.14	4.98	1.46	916	269	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA3B3	4TM319NFBYY-53	12	-
	EMY 60HER	115-127V 60Hz	4.99	103 - 140	S	ISO10	132	1.17	291	85	558	164	610	179	121	1.62	5.04	1.48	912	267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	213514105	4TM757NFBYY-53	-	-
	EMY 60HSC	115-127V 60Hz	4.99	103 - 140	S	ISO10	132	1.23	291	85	558	164	610	179	115	1.02	5.31	1.56	912	267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA1B3	4TM319NFBYY-53	12	-
	EM 65HNR	220V 50Hz	5.54	187 - 242	S	ISO22	112	0.92	312	91	473	139	520	152	130	1.05	4.00	1.17	804	236	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514130	4TM718RFBYY-53	-	70-84
	EMT 65HSC	115-127V 60Hz	5.54	98 - 140	S	ISO10	148	1.16	330	97	619	181	683	200	136	1.30	5.00	1.47	1032	302	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA3B3	4TM319RFBYY-53	15	-
	EMI 70HEP	115V 60Hz	5.89	103 - 140	F	ISO10	153	1.03	383	112	654	192	705	207	159	2.16	4.43	1.30	1079	316	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	8EA1B1	4TM319RFBYY-53	-	-
	EMI 70HER	115V 60Hz	5.89	98 - 135	S/F	ISO10	153	1.06	343	100	647	190	705	207	154	2.13	4.58	1.34	1056	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514067	4TM762PFBZZ-53	-	270-324
		220V 50Hz		187 - 242		ISO22	123	0.93	261	77	511	150	565	166	140	1.08	4.04	1.18	871	255	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213514130	4TM718RFBYY-53	-	70-84
		220V 60Hz				ISO10	153	1.06	343	100	647	190	705	207	154		4.58	1.34	1056	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR		4TM739LFBYY-53		-
	EMY 70HER	115-127V 60Hz	5.72	98 - 140	S	ISO10	147	1.11	321	94	614	180	680	199	142	1.94	4.80	1.41	1067	313	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514083	4TM762MFBZZ-53	-	270-324
		220V 60Hz		187 - 242												1.03					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213514148	4TM743KDBYY-53	-	88-108
	EMY 70HSC	115-127V 60Hz	5.72	103 - 140	S	ISO10	147	1.22	321	94	614	180	680	199	129	1.20	5.28	1.55	1067	313	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA1B3	4TM319RFBYY-53	12	-
	FFV 6HAK	115V 60Hz	6.23	98 - 140	S	ISO10	147	1.12	285	84	607	178	675	198	139	1.86	4.86	1.42	1079	316	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213516507	4TM762MFBZZ-53		158-190
		220V 50-60Hz (50Hz data)		187 - 255			124	1.08	241	71	512	150	570	167	122	1.06	4.67	1.37	919	269	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516159	4TM302KFBYY-53	-	64-77
		220V 50-60Hz (60Hz data)		187 - 242			147	1.12	285	84	607	178	675	198	139	0.99	4.86	1.42	1079	316	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	FG 65HAK	220-240V 50Hz	6.76	198 - 255	S/F	ISO22	121	0.92	253	74	508	149	560	164	140	0.88	4.00	1.17	864	253	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / HST / RSIR-CSIR	213516280	MRA58096-5590	-	64-77
	FGS 60HA	115-127V 60Hz	5.56	103 - 140	S	ISO10	128	1.21	229	67	548	160	592	173	113	1.02	5.23	1.53	952	279	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA1B3	4TM283ULBYY-53	15	
		220-240V 50-60Hz (50Hz data)		198 - 255		ISO22	109	1.13	187	55	456	134	500	147	102	0.49	4.88	1.43	826	242	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	8EA5B3	4TM189NFBYY-53	5	-
		220-240V 50-60Hz (60Hz data)		187 - 242			127	1.14	232	68	538	158	588	172	120	0.70	4.90	1.44	960	281	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR				
	FGU 60HA	115-127V 60Hz	5.56	98 - 140	S	ISO10	137	1.26	266	78	567	166	630	185	116	1.01	5.42	1.59	1008	296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA1B3	4TM319NFBYY-53	12	-
	FGV 60HA	220-240V 50Hz	5.56	198 - 255	S	ISO22	109	1.05	200	59	446	131	500	147	110	0.80	4.55	1.33	809	237	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	8EA5B1	4TM189NFBYY-53	-	-
	FG 75HAK	220-240V 50Hz	7.95	198 - 255	S/F	ISO22	143	0.92	294	86	597	175	660	193	165	1.07	4.00	1.17	1046	306	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / HST / RSIR-CSIR	213516299	MRA58103-5590	-	64-77
	FGI 70HA	220-240V 50Hz	6.36	160 - 260	S	ISO22	130	1.01	253	74	540	158	600	176	137	1.02	4.38	1.28	951	279	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	8EA5B1	4TM232RFBYY-53	-	-
	FGI 75HAK	115V 60Hz	6.76	85 - 140	S	ISO22	166	1.03	337	99	645	189	765	224	173	2.54	4.42	1.30	1198	351	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	7M4R7MC1	4TM777MFBYY-53	-	-
	FGS 70HA	100V 50-60Hz (50Hz data)	6.36	85 - 110	S	ISO10	129	1.18	233	68	542	159	595	174	117	1.38	5.09	1.49	962	282	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	7M4R7MD3	4TM427NFBYY-53	20	-
		100V 50-60Hz (60Hz data)					150	1.21	294	86	634	186	692	203	132	1.35	5.22	1.53	1116	327	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
		115-127V 60Hz		103 - 140			153	1.20	325	95	664	195	705	207	136	1.20	5.20	1.52	1160	340	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		8EA1B3	4TM283ULBYY-53		
		220-240V 50-60Hz (50Hz data)		198 - 255			130	1.19	255	75	537	157	600	176	117	0.58	5.13	1.50	948	278	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		7M220MD3	4TM189NFBYY-53	5	
		220-240V 50-60Hz (60Hz data)		198 - 242			154	1.20	312	91	630	185	710	208	136	0.63	5.20	1.52	1124	329	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	FGU 70HA	115-127V 60Hz	6.36	98 - 140	S	ISO10	163	1.26	319	93	676	198	750	220	138	1.26	5.43	1.59	1182	346	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA1B3	4TM445KFBYY-53	12	-
		220-240V 50-60Hz (50Hz data)		187 - 255			137	1.22	274	80	568	166	630	185	119	0.61	5.30	1.55	998	293	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		8EA5B3	4TM283KFBYY-53	5	
		220-240V 50-60Hz (60Hz data)		187 - 242			163	1.26	319	93	676	198	750	220	138	0.64	5.43	1.59	1182	346	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	FG 85HAK	220-240V 50Hz	9.04	198 - 255	S/F	ISO22	168	0.95	362	106	701	205	775	227	189	1.20	4.10	1.20	1183	347	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / HST / RSIR-CSIR	213510738	MRA58120-6	-	64-77
	FGI 85HAK	110V 50Hz / 115-127V 60Hz	7.15	93 - 121	S	ISO22	152	0.98	320	94	633	186	704	206	166	3.11	4.24	1.24	1129	331	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	7M4R7MC1	4TM771RFBZZ-53	-	-
	FGS 80HA	115-127V 60Hz	7.15	103 - 140	S	ISO10	178	1.23	377	110	770	226	820	240	154	1.35	5.32	1.56	1322	387	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	7M4R7MD3	4TM319RFBYY-53	20	
		220-240V 50-60Hz (50Hz data)		198 - 255		ISO10	151	1.22	302	88	613	180	695	204	132	0.65	5.27	1.54	1090	319	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	8EA5B3	4TM189RHBYY-53	5	-
		220-240V 50-60Hz (60Hz data)		198 - 242			179	1.23	357	105	708	208	825	242	155	0.72	5.32	1.56	1238	363	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR				
	FGT 80HA	115V 60Hz	7.15	103 - 135	S	ISO10	179	1.25	351	103	747	219	825	242	153	1.38	5.40	1.58	1315	385	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA1B3	4TM319RFBYY-53	20	-
	FGU 80HA	115-127V 60Hz	6.76	98 - 140	S	ISO10	177	1.27	356	104	741	217	815	239	148	1.36	5.50	1.61	1260	369	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA1B3	4TM445KFBYY-53	12	
		220-240V 50-60Hz (50Hz data)		187 - 255			147	1.22	322	94	610	179	675	198	128	0.64	5.27	1.54	1044	306	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		8EA5B3	4TM302KFBYY-53	5	-
		220-240V 50-60Hz (60Hz data)		187 - 242			177	1.27	356	104	740	217	815	239	148	0.69	5.51	1.61	1260	369	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	FG 95HAK	220-240V 50Hz	10.61	198 - 255	S/F	ISO22	191	0.95	408	120	805	236	880	258	215	1.54	4.09	1.20	1378	404	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / HST / RSIR-CSIR	213516256	MRA58152-5590	-	64-77

Note: Condensing Temperature 54.4°C (129.92°F)

* Static Cooling (S) / Fan Cooling (F)

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R 134a - Performance Table

Embraco

APPLICATION	MODEL	VOLTAGE / FREQUENCY	DISPLACEMENT cm³	OPERATING VOLTAGE RANGE (V)	COOLING TYPE*	OIL VISCOSITY	CHECK POINT DATA CECOMAF (CALCULATED) CAPACITY (W)	CHECK POINT DATA CECOMAF (CALCULATED) COP (W/W)	PERFORMANCE / EVAPORATING TEMPERATURE °C - ASHRAE -35 Btu/h	-35 W	-25 Btu/h	-25 W	CHECK POINT DATA -23.3 CAPACITY Btu/h	CAPACITY W	POWER CONSUMPTION W	CURRENT CONSUMPTION A	EFFICIENCY Btu/Wh	EFFICIENCY W/W	-15 Btu/h	-15 W	-5 Btu/h	-5 W	0 Btu/h	0 W	+5 Btu/h	+5 W	CHECK POINT DATA +7.2 CAPACITY Btu/h	CAPACITY W	POWER CONSUMPTION W	CURRENT CONSUMPTION A	EFFICIENCY Btu/Wh	EFFICIENCY W/W	+10 Btu/h	+10 W	+15 Btu/h	+15 W	MOTOR TYPE	STARTING RELAY SUBASSEMBLY CODE	OVERLOAD PROTECTOR	RUN CAPACITOR µF	STARTING CAPACITOR µF
		115-127V 60Hz		103 - 140			204		401	118	821	241	940	275	178	1.66	5.28	1.55	1434	420	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA1B3	4TM437NFBYY-53	20	
	FGS 90HA	220-240V 50-60Hz (50Hz data)	7.95	198 - 255	S	ISO10	173	1.22	358	105	687	201	800	234	152	0.78	5.26	1.54	1184	347	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	8EA5B3	4TM283KFBYY-53	5	-
		220-240V 50-60Hz (60Hz data)		198 - 242			204	1.23	399	117	830	243	940	275	177	0.82	5.31	1.56	1433	420	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	7M220MC1	4TM283KFBYY-53		
	FGU 90HA	115-127V 60Hz	7.55	98 - 140	S	ISO10	204	1.26	415	122	852	250	940	275	172	1.70	5.45	1.60	1447	424	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	7M4R7MB3	4TM445NFBYY-53	12	-
	FGT 90HA	115V 60Hz	7.95	103 - 135	S	ISO10	202	1.25	436	128	843	247	930	273	172	1.59	5.40	1.58	1482	434	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA1B3	4TM427NFBYY-53	20	-
		115V 60Hz		103 - 135		ISO10	231	1.23	461	135	956	280	1065	312	200	1.80	5.33	1.56	1651	484	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	8EA1B3	4TM427RFBYY-53	20	
	FGS 100HA	220-240V 50-60Hz (50Hz data)	9.04	198 - 255	S	ISO22	184	1.18	376	110	778	228	850	249	167	0.97	5.10	1.49	1312	384	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		8EA5B3	4TM276RFBYY-53	5	-
		220-240V 50-60Hz (60Hz data)		187 - 255			458	134	969	284									1618	474	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA5B3	4TM276RFBYY-53		
	FF 11HAK	220-240V 50Hz	10.61	198 - 255	S	ISO22	191	0.95	407	119	795	233	880	258	215	1.61	4.09	1.20	1378	404	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	213516078	4TM757KFBYY-53	-	-
	FGV 110HA	220-240V 50Hz	9.04	198 - 255	S	ISO22	184	1.07	364	107	771	226	850	249	185	1.21	4.59	1.35	1318	386	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	8EA5B1	4TM189RHBYY-53	-	-
		115V 60Hz		103 - 135			282	1.16	558	163	1188	348	1300	381	260	2.52	5.00	1.47	2002	587	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		7M4R7MD3	4TM795NFBZZ-53	20	
	FGS 130HA	220-240V 50Hz	11.14	198 - 255	S	ISO22	235	1.18	495	145	969	284	1080	317	213	1.12	5.07	1.49	1703	499	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA5B3	4TM283RFBYY-53	5	-
		220V 60Hz		198 - 242			277	1.17	558	164	1180	346	1275	374	253	1.36	5.04	1.48	2006	588	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			4TM319NFBYY-53		
	EG 60HLR	220-240V 50Hz	5.96	170 - 255	S	ISO22	123	1.09	246	72	513	150	565	166	120	0.99	4.71	1.38	900	264	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516116	4TM283KFBYY-53	-	72-88
	EGS 60HLP	115-127V 60Hz	5.56	103 - 140	S	ISO10	130	1.19	246	72	549	161	600	176	117	1.05	5.13	1.50	1010	296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA3B3	4TM283RFBYY-53	20	-
	EGT 60HLC	115-127V 60Hz	5.56	98 - 140	S	ISO10	130	1.23	221	65	543	159	600	176	113	1.01	5.31	1.56	963	282	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA1B3	4TM283RFBYY-53	20	-
	EGU 60HLC	115-127V 60Hz	5.56	98 - 140	S	ISO10	130	1.26	221	65	543	159	600	176	111	1.03	5.41	1.59	963	282	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	7M4R7MD2	4TM283ULBYY-53	20	-
	EGY 60HLP	115-127V 60Hz	5.56	98 - 140	S	ISO10	135	1.31	274	80	585	171	620	182	112	0.99	5.55	1.63	1016	298	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	8EA3B3	4TM319NFBYY-53	12	-
	EG 70HLR	220-240V 50Hz	6.76	170 - 255	S	ISO22	142	1.10	292	85	592	174	655	192	138	1.11	4.75	1.39	1051	308	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516159	4TM302KFBYY-53	-	72-88
	EG 75HLR	115-127V 60Hz	6.76	98 - 140	S	ISO10	175	1.16	380	111	728	213	805	236	161	2.03	5.00	1.47	1268	372	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516272	4TM762MFBZZ-53	-	175-228
	EGS 70HLP	115-127V 60Hz	6.36	103 - 140	S	ISO10	153	1.22	267	78	627	184	705	207	134	1.23	5.24	1.54	1110	325	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	490D314R7	4TM427NFBYY-53	20	-
		115-127V 60Hz		94 - 140			152	1.29	292	86	633	186	700	205	126	1.14	5.57	1.63	1113	326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	8EA3B3	4TM427NFBYY-53	15	
	EGU 70HLC	220-240V 50-60Hz (50Hz data)	6.36	198 - 255	S	ISO10	130	1.24	266	78	538	158	600	176	112	0.56	5.36	1.57	994	291	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-
		220-240V 50-60Hz (60Hz data)		198 - 242			152	1.27	292	86	633	186	700	205	127	0.60	5.50	1.61	1113	326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA5B3	4TM197NFBYY-53	5	
	EGY 70HLP	115-127V 60Hz	5.96	98 - 140	S	ISO10	149	1.34	304	89	622	182	685	201	121	1.07	5.67	1.66	1093	320	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	8EA3B3	4TM319RFBYY-53	12	-
	EGZ 70HLP	115-127V 60Hz	5.57	98 - 140	S	ISO10	152	1.37	306	90	617	181	700	205	119	1.06	5.90	1.73	1166	342	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	TSD - 115V	4TM319RFBYY-53	12	-
LBP	EG 80HLR	220-240V 50Hz	7.15	170 - 255	S	ISO22	152	1.09	330	97	651	191	700	205	149	1.24	4.70	1.38	1085	318	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516256	4TM232RFBYY-53	-	72-88
	EGT 80HLC	115V 60Hz	7.15	103 - 135	S/F	ISO10	180	1.27	392	115	754	221	830	243	151	1.36	5.48	1.61	1335	391	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA1B3	4TM319RFBYY-53	20	-
		115V 60Hz		98 - 140	S/F		178	1.29	364	107	743	218	820	240	148	1.28	5.55	1.63	1295	380	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	490C814R7	4TM427NFBYY-53	20	-
	EGU 80HLC	220-240V 50-60Hz (50Hz data)	7.15	198 - 255	S	ISO10	152	1.26	318	93	629	184	700	205	129	0.66	5.42	1.59	1126	330	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA5B3	4TM283KFBYY-53	5	-
		220-240V 50-60Hz (60Hz data)		198 - 242			178	1.27	407	119	766	225	820	240	149	0.70	5.50	1.61	1199	351	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
		115-127V 60Hz		98 - 140			177	1.34	403	118	756	222	815	239	143	1.30	5.70	1.67	1294	379	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	8EA3B3	4TM445KFBYY-53	12	
	EGY 80HLP	220-240V 50-60Hz (50Hz data)	6.76	187 - 255	S	ISO10	149	1.27	297	87	624	183	690	202	125	0.66	5.51	1.61	1077	316	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		8EA5B3	4TM283KFBYY-53	4	-
		220-240V 50-60Hz (60Hz data)		187 - 242			177	1.30	362	106	737	216	815	239	145	0.68	5.61	1.64	1274	373	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR			5	
	EGZ 80HLP	115-127V 60Hz	6.36	98 - 140	S	ISO10	180	1.37	398	117	771	226	830	243	140	1.28	5.95	1.74	1345	394	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	TSD - 115V	4TM445KFBYY-53	12	-
		115V 60Hz		94 - 140	S/F		206	1.29	443	130	859	252	950	278	171	1.66	5.56	1.63	1484	435	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	8EA3B3	4TM762MFBYY-53	20	
	EGU 90HLC	220-240V 50-60Hz (50Hz data)	7.95	198 - 255	S	ISO10	173	1.26	369	108	744	218	800	234	147	0.85	5.44	1.59	1143	335	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA5B3	4TM302KFBYY-53	5	-
		220-240V 50-60Hz (60Hz data)		198 - 242	S/F		206	1.30	440	129	863	253	950	278	169	0.81	5.62	1.65	1489	436	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
		100V 50-60Hz (50Hz data)		85 - 110	S		173	1.30	369	108	731	214	800	234	143	1.54	5.59	1.64	1192	349	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EGY 90HLC	100V 50-60Hz (60Hz data)	7.55		S/F	ISO10	204		425	125	848	248	940	275	167	1.69	5.62	1.65	1464	429	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	7M4R7MD3	4TM445NFBYY-53	20	-
		220-240V 50Hz		198 - 255			174	1.32	700	205	730	214	802	235	141	0.66	5.69	1.67	1267	371	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		7M220MD3	4TM213PFBYY-53	5	
	EGY 90HLP	115-127V 60Hz	7.55	98 - 140	S	ISO10	206	1.34	456	134	878	257	950	278	165	1.57	5.77	1.69	1474	432	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR-RSIR	8M4R7MB3	4TM437NFBYY-53	12	88-108
	EGZ 90HLP	115-127V 60Hz	7.16	98 - 140	S	ISO10	206	1.37	402	118	830	243	950	278	161	1.52	5.91	1.73	1456	427	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	TSD - 115V	4TM437NFBYY-53	12	-
	EG 100HLR	220-240V 50Hz	9.04	170 - 255	S	ISO22	191	1.11	420	123	817	239	880	258	184	1.50	4.78	1.40	1389	407	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516442	4TM319NFBYY-53	-	72-88
	EGS 100HLC	115-127V 60Hz	9.04	103 - 140	S	ISO10	231	1.24	461	135	956	280	1065	312	199	1.88	5.36	1.57	1648	483	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	8EA3B3	4TM762PFBYY-53	20	-
	EGU 100HLC	220-240V 50-60Hz (50Hz data)	9.04	198 - 255	S/F	ISO10	189	1.24	388	114	795	233	875	256	163	0.96	5.37	1.57	1343	393	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA5B3	4TM739KFBYY-53	5	-
		220-240V 50-60Hz (60Hz data)		198 - 242	S/F		226	1.30	433	127	934	274	1040	305	186	0.90	5.60	1.64	1609	472	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EGY 100HLC	220-240V 50Hz	8.59	198 - 255	S/F	ISO10	193	1.32	408	119	808	237	890	261	156	0.73	5.70	1.67	1384	406	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8M220MD3	4TM232RFBYY-53	5	-
	EGY 100HLP	115-127V 60Hz	8.59	98 - 140	S	ISO10	230	1.31	481	141	973	285	1061	311	189	1.82	5.60	1.64	1651	484	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	8EA3B3	4TM445NFBYY-53	12	-
	EGZ 100HLP	115-127V 60Hz	7.95	98 - 140	S	ISO10	222	1.36	447	131	926	271	1025	300	175	1.71	5.86	1.72	1541	452	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	TSD - 115V	4TM445NFBYY-53	15	-
		220-240V 50-60Hz (50Hz data)		198 - 255	F		203	1.26	415	122	849	249	935	274	172	0.95	5.44	1.59	1453	426	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EGU 110HLC	220-240V 50-60Hz (60Hz data)	9.50	198 - 242	S/F	ISO10	240	1.28	472	138	1000	293	1110	325	200	0.96	5.54	1.62	1745	511	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA5B3	4TM283NFBYY-53	5	-
	EG 130HLR	220-240V 50Hz	10.61	178 - 255	S	ISO22	228	1.12	501	147	933	273	1052	308	218	1.72	4.83	1.42	1584	464	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516442	4TM319NFBYY-53	-	72-88
	EM 30HNP	115V 60Hz	3.00	98 - 135	S/F	ISO22	67	0.74	99	29	288	85	310	91	97	1.70	3.20	0.94	491	144	827	243	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	7M4R7MC1	4TM757MFBYY-53	-	-
L/MBP	EM 65HNR	115-127V 60Hz	5.54	103 - 140	F	ISO10	141	0.91	484	142	635	186	650	190	166	2.65	3.93	1.15	1006	295	1555	456	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514121	4TM762NFBZZ-53	-	175-228
	EMI 70HNR	115V 60Hz	5.89	103 - 127	S/F	ISO10	153	0.97	364	107	667	196	705	207	169	2.73	4.18	1.23	1121	329	1745	511	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	213514121	4TM762NFBZZ-53	-	-
		220-240V 50-60Hz (50Hz data)		187 - 255			125	1.15	277	81	524	154	575	169	116	0.66	4.94	1.45	907	266	1419	416	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EMY 70HSC	220-240V 50-60Hz (60Hz data)	5.72	187 - 242	S	ISO10	147	1.22	321	94	614	180	680	199	130	0.62	5.25	1.54	1067	313	1690	495	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	7M220MD3	4TM213PFBYY-53	4	-

Note: Condensing Temperature 54.4°C (129.92°F)

*Static Cooling (S) / Fan Cooling (F)

CODE 03014

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R 134a - Performance Table

Embraco

APPLICATION	MODEL	VOLTAGE / FREQUENCY	DISPLACEMENT cm³	OPERATING VOLTAGE RANGE (V)	COOLING TYPE*	OIL VISCOSITY	CHECK POINT DATA CECOMAF (CALCULATED) CAPACITY (W)	CHECK POINT DATA CECOMAF (CALCULATED) COP (W/W)	PERFORMANCE / EVAPORATING TEMPERATURE °C - ASHRAE -35 Btu/h	-35 W	-25 Btu/h	-25 W	CHECK POINT DATA -23.3 CAPACITY Btu/h	CAPACITY W	POWER CONSUMPTION W	CURRENT CONSUMPTION A	EFFICIENCY Btu/Wh	EFFICIENCY W/W	-15 Btu/h	-15 W	-5 Btu/h	-5 W	0 Btu/h	0 W	+5 Btu/h	+5 W	CHECK POINT DATA +7.2 CAPACITY Btu/h	CAPACITY W	POWER CONSUMPTION W	CURRENT CONSUMPTION A	EFFICIENCY Btu/Wh	EFFICIENCY W/W	+10 Btu/h	+10 W	+15 Btu/h	+15 W	MOTOR TYPE	STARTING RELAY SUBASSEMBLY CODE	OVERLOAD PROTECTOR	RUN CAPACITOR µF	STARTING CAPACITOR µF
L/MBP	FFI 6HAK	115V 60Hz	6.23	98 - 135	S	ISO22	147	0.99	301	88	619	181	680	199	160	2.32	4.25	1.25	1046	306	1798	527	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516272	4TM762NFBZZ-53	-	158-190
		220V 50-60Hz (50Hz data)		187 - 242			126	0.91	221	65	518	152	580	170	148	1.37	3.92	1.15	913	268	1491	437	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213516159	4TM743KDBYY-53		64-77
		220V 50-60Hz (60Hz data)					147	0.99	258	76	608	178	675	198	158	1.17	4.27	1.25	1080	317	1815	532	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	FFI 7.5HAK	115V 60Hz	6.76	98 - 135	S	ISO10	166	1.08	361	106	690	202	765	224	164	2.24	4.67	1.37	1230	360	1979	580	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516060	4TM762PFBZZ-53	-	175-228
		220-240V 50-60Hz (50Hz data)		187 - 255		ISO22	141	1.00	267	78	600	176	648	190	149	1.30	4.35	1.27	1028	301	1603	470	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213516159	4TM743KDBYY-53		64-77
		220-240V 50-60Hz (60Hz data)		187 - 242		ISO10	167	1.09	361	106	695	204	770	226	164	1.18	4.70	1.38	1234	362	1984	581	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	FFU 70HAK	115-127V 60Hz	6.36	98 - 140	S/F	ISO10	163	1.18	319	93	676	198	750	220	147	1.93	5.10	1.49	1182	346	1893	555	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213516583	4TM762MFBZZ-53	-	175-228
		220-240V 50-60Hz (50Hz data)		187 - 255			137	1.13	274	80	568	166	630	185	129	1.07	4.88	1.43	998	293	1609	471	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516353	4TM283NFBYY-53		64-77
		220-240V 50-60Hz (60Hz data)					163	1.18	319	93	676	198	750	220	147	1.00	5.10	1.49	1182	346	1893	555	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	FFV 7.5HAK	115-127V 60Hz	6.76	98 - 140	S	ISO10	166	1.16	332	97	689	202	765	224	153	2.00	5.00	1.47	1223	358	1979	580	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213516272	4TM762MFBZZ-53	-	175-228
		220-240V 50-60Hz (50Hz data)		187 - 255			141	1.11	296	87	597	175	650	190	136	1.13	4.78	1.40	1025	300	1636	479	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516159	4TM319KFBYY-53		64-77
		220-240V 50-60Hz (60Hz data)		187 - 242		ISO10	166	1.16	332	97	692	203	765	224	153	1.03	5.00	1.47	1234	362	2028	594	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	FFI 8.5HAK	115V 60Hz	7.15	98 - 135	S	ISO10	180	1.12	363	106	738	216	830	243	171	2.33	4.85	1.42	1319	387	2084	611	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213516132	4TM762NFBZZ-53	-	243-292
		220-240V 50-60Hz (50Hz data)		187 - 255	S/F		152	1.07	318	93	640	188	700	205	152	1.35	4.60	1.35	1098	322	1733	508	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516078	4TM757KDBYY-53		64-77
		220-240V 50-60Hz (60Hz data)		187 - 242			180	1.12	363	107	753	221	830	243	171	1.21	4.85	1.42	1317	386	2115	620	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	FFU 80HAK	115-127V 60Hz	6.76	98 - 140	S/F	ISO10	177	1.18	381	112	737	216	815	239	160	2.25	5.10	1.49	1292	379	2053	602	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213516094	4TM762PFBZZ-53	-	243-292
		220-240V 50-60Hz (50Hz data)		187 - 255			147	1.11	307	90	620	182	680	199	142	1.30	4.80	1.41	1041	305	1702	499	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516086	4TM743KDBYY-53		108-130
		220-240V 50-60Hz (60Hz data)		187 - 242			177	1.18	380	111	737	216	815	239	160	1.18	5.10	1.49	1292	379	2055	602	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	FFV 8.5HAK	115-127V 60Hz	7.15	98 - 140	S	ISO10	180	1.16	382	112	766	225	830	243	166	2.23	5.00	1.47	1361	399	2126	623	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213516094	4TM762PFBZZ-53	-	243-292
		220-240V 50-60Hz (50Hz data)		187 - 255			152	1.09	298	87	614	180	700	205	149	1.30	4.70	1.38	1070	314	1683	493	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516078	4TM743KDBYY-53		108-130
		220-240V 50-60Hz (60Hz data)		187 - 242			180	1.16	382	112	766	225	830	243	166	1.20	5.00	1.47	1361	399	2126	623	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	FFI 10HAK	115V 60Hz	9.04	103 - 135	S	ISO22	223	1.12	391	115	923	271	1030	302	212	2.93	4.85	1.42	1613	473	2563	751	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213516248	4TM795KFBZZ-53	-	233-280
		220-230V 50-60Hz (50Hz data)		187 - 244			184	1.03	363	106	750	220	850	249	191	1.73	4.45	1.30	1365	400	2171	636	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516035	4TM757KFBYY-53		53-64
		220-230V 50-60Hz (60Hz data)		187 - 242			223	1.12	391	115	923	270	1030	302	212	1.54	4.86	1.42	1613	473	2563	751	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	FFU 100HAK	115-127V 60Hz	7.95	98 - 140	S	ISO10	214	1.16	480	141	920	270	985	289	197	2.66	5.00	1.47	1546	453	2440	715	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213516248	4TM795KFBZZ-53	-	233-280
		220-240V 50-60Hz (50Hz data)		198 - 255			177	1.06	397	116	761	223	815	239	178	1.69	4.58	1.34	1284	376	2028	594	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516035	4TM757KFBYY-53		53-64
		220-240V 50-60Hz (60Hz data)		198 - 242	S/F		214	1.16	473	139	918	269	985	289	196	1.48	5.02	1.47	1547	453	2432	713	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	FFU 130HAX	115-127V 60Hz	10.61	98 - 140	F	ISO10	271	1.11	524	153	1120	328	1250	366	260	4.05	4.80	1.41	2033	596	3294	965	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213516051	MRT26ADK-5590	-	378-454
		220V 60Hz		198 - 242				1.09							265	2.38	4.71	1.38					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST/ HST / CSIR	213516584	4TM757MFBYY-53	-	88-108
		220-240V 50Hz		187 - 255			229	1.09	450	132	956	280	1055	309	224	1.88	4.72		1628	477	2607	764	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213516345	4TM757KFBYY-53		
	EG 75HLR	220-240V 50-60Hz (50Hz data)	6.76	187 - 255	S	ISO10	148	1.13	342	100	622	182	684	200	140	1.08	4.87	1.43	1041	305	1580	463	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516159	4TM319KFBYY-53	-	64-77
		220-240V 50-60Hz (60Hz data)		187 - 242	S/F		175	1.16	397	116	730	214	805	236	161	1.04	5.00	1.47	1247	365	1944	570	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EG 85HLR	115-127V 60Hz	7.15	98 - 140	S/F	ISO10	182	1.16	377	111	751	220	840	246	168	2.29	5.00	1.47	1371	402	2204	646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213516094	4TM762PFBZZ-53	-	243-292
		220-240V 50-60Hz (50Hz data)		187 - 255			153	1.07	304	89	637	187	705	207	152	1.32	4.65	1.36	1114	326	1793	526	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516078	4TM743KDBYY-53	-	108-130
		220-240V 50-60Hz (60Hz data)		187 - 242			182	1.16	377	111	751	220	840	246	168	1.20	5.00	1.47	1371	402	2204	646	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	
L/M/HBP	EM 20HHP	115V 60Hz	2.27	98 - 135	S/F	ISO22	610	1.96	75	22	174	51	200	59	66	0.91	3.03	0.89	339	99	585	172	743	218	926	271	1020	299	118	1.28	8.64	2.53	1137	333	1376	403	LST / RSIR	7M4R7MC1	4TM730KFBYY-53	-	-
	EM 20HHR	115V 60Hz	2.27	98 - 140	S/F	ISO22	221	2.00	75	22	174	51	200	59	66	0.91	3.03	0.89	339	99	585	172	743	218	926	271	1020	299	118	1.28	8.64	2.53	1137	333	1376	403		213514024	4TM730KFBYY-53		124-149
		220-240V 50-60Hz (50Hz data)		187 - 255					57	17	144	42	172	50	59	0.50	2.92	0.86	272	80	460	135	580	170	722	212	840	246	98	0.62	8.57	2.51	886	260	1076	315	LST / RSIR-CSIR	213514032	4TM189NFBYY-53	-	70-84
		220-240V 50-60Hz (60Hz data)		187 - 242			216	1.96	75	22	181	53	200	59	66	0.65	3.03	0.89	335	98	550	161	691	202	861	252	998	292	118	0.66	8.46	2.48	1063	312	1303	382					
	EM 30HHR	115V 60Hz	3.00	97 - 135	S/F	ISO22	301	1.98	121	36	292	86	310	91	97	1.70	3.20	0.94	527	154	853	250	1059	310	1299	381	1390	407	163	2.00	8.53	2.50	1575	462	1893	555		213514105	4TM757MFBYY-53	-	100-120
		220-240V 50-60Hz (50Hz data)		187 - 255					109	32	243	71	260	76	86	0.60	3.02	0.89	437	128	707	207	876	257	1070	314	1170	343	140	0.95	8.36	2.45	1292	379	1543	452	LST / RSIR-CSIR	213514059	4TM189RHBYY-53		30-50
		220-240V 50-60Hz (60Hz data)		187 - 242			299	2.00	110		293	86	310	91	90	0.70	3.44	1.01	524	154	843	247	1047	307	1287	377	1380	404	160		8.63	2.53	1569	460	1896	556					
	EM 45HHR	115-127V 60Hz	3.77	98 - 140	S/F	ISO22	299	2.00	164	48	388	114	420	123	107	1.46	3.93	1.15	672	197	1057	310	1299	381	1581	463	1775	520	206	2.20	8.62	2.53	1908	559	2285	669	LST / RSIR-CSIR	213514105	4TM757MFBYY-53	-	150-180
	EM 65HHC	115V 60Hz	5.54	103 - 135	S/F	ISO22	564	2.18	307	90	557	163	645	189	145	1.36	4.45	1.30	988	290	1606	471	1986	582	2415	708	2600	762	276	2.49	9.42	2.76	2893	848	3420	1002	LST / RSCR	8EA1B3	4TM427NFBYY-53	20	-
	FF 6HBK	115V 60Hz	6.23	103 - 135	S/F	ISO22	766	1.77	213	62	480	141	570	167	153	2.12	3.73	1.09	927	272	1553	455	1933	567	2357	691	2520	739	317	3.30	7.95	2.33	2824	828	3335	977	LST / RSIR-CSIR	213516060	MSP36ALK-5590	-	270-324
	FF 7.5HBK	115V 60Hz	6.92	103 - 135	S	ISO22	547	1.84	272	80	618	181	695	204	178	2.44	3.90	1.14	1091	320	1749	513	2167	635	2653	777	2940	862	384	3.99	7.66	2.24	3215	942	3861	1131	LST / RSIR-CSIR	213516060	MRT30AIK-5590	-	189-227
	FF 8.5HBK	115V 60Hz	7.95	103 - 135	S/F	ISO22	681	1.79	363	106	674	198	740	217	198	2.88	3.74	1.10	1164	341	1887	553	2351	689	2894	848	3140	920	408	4.40	7.70	2.26	3521	1032	4240	1243		213510010	MRT22GZ-6		270-324
		220V 60Hz		198 - 242				1.77	351	103	672	197			196	1.62	3.78	1.11	1162		1882	552	2346	688	2890	847			410	2.31	7.66	2.24	3519	1031	4243	1244	LST / RSIR-CSIR	213516230	MRP61AMZ-5590	-	88-108
		220-240V 50Hz		187 - 255					279	82	572	168	662	194	174	1.45	3.80		1046	307	1728	507	2157	632	2649	776	2880	844	339	2.00	8.50	2.49	3207	940	3835	1124		213516442			
	FF 10HBK	115V 60Hz	9.04	103 - 127	S/F	ISO22	766	1.77	368	108	755	221	840	246	224	3.61	3.75	1.10	1330	390	2155	632	2681	786	3294	965	3530	1035	462	4.90	7.64	2.24	4000	1172	4808	1409	LST / RSIR-CSIR	213510304	MST26AJZ-6	-	460-552
		220V 60Hz		198 - 242											215	1.83	3.90	1.14												2.48								213516450	MRP56AMZ-5590		88-108
	FF 10HBX	115V 60Hz	9.04	103 - 135	S/F	ISO22	766	1.77	353	103	794	233	840	246	216	3.86	3.88	1.14	1378	404	2198	644	2725	799	3347	981	3650	1070	464	5.25	7.87	2.31	4073	1194	4917	1441	HST / CSIR	213516191	MRT20AGK-5590	-	270-324
	FFI 10HBX	115V 60Hz	9.04	98 - 140	F	ISO22	955	2.19	421	123	957	280	1065	312	246	4.02	4.33	1.27	1695	497	2705	793	3335	977	4060	1190	4400	1290	465	5.30	9.46	2.77	4889	1433	5831	1709	HST / CSIR	213516191	MRT20AGK-5590	-	270-324
	FFI 12HAX	115V 60Hz	11.14	103 - 127	F	ISO22	1166	2.02	556	163	1170	343	1363	399	299	4.64	4.56	1.34	2055	602	3277	960	4034	1182	4900	1436	5377	1576	616	6.49	8.73	2.56	5883	1724	6990	2049	HST / CSIR	213516051	MRT26AFZ-5590	-	378-454
	FFI 12HBK	220-240V 50Hz	11.14	198 - 255	F	ISO22	974	2.06	519	152	979	287	1090	319	256	1.96	4.26	1.25	1699	498	2695	790	3302	968	3984	1168	4492	1316	504	2.79	8.91	2.61	4743	1390	5581	1635	LST / RSIR-CSIR	213516035	4TM757KFBYY-53	-	88-108
	FFI 12HBX	115V 60Hz	11.14	103 - 135	F	ISO22	1149	2.01	543	159	1045	306	1190	349	292	4.65	4.08	1.20	1892	554	3125	916	3899	1143	4785	1402	5300	1553	612	6.80	8.66	2.54	5789	1697	6915	2027	HST / CSIR	213516051	MRT22AFZ-5590	-	233-280
		220V 60Hz		198 - 242	S/F			1.80	533	156	1060	311			296	2.72	4.02	1.18	1897	556	3083	903	3819	1119	4656	1365			682	3.68	7.77	2.28	5600	1641	6656	1951		213516485	MST40AIZ-5590		124-149

Note: Condensing Temperature 54.4°C (129.92°F)

*Static Cooling (S) / Fan Cooling (F)

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R 134a - Performance Table

Embraco

APPLICATION	MODEL	VOLTAGE / FREQUENCY	DISPLACEMENT cm³	OPERATING VOLTAGE RANGE (V)	COOLING TYPE*	OIL VISCOSITY	CHECK POINT DATA CECOMAF (CALCULATED) CAPACITY (W)	CHECK POINT DATA CECOMAF (CALCULATED) COP (W/W)	PERFORMANCE / EVAPORATING TEMPERATURE °C - ASHRAE -35 Btu/h	-35 W	-25 Btu/h	-25 W	DADOS CHECK POINT -23.3 CAPACITY Btu/h	CAPACITY W	POWER CONSUMPTION W	CURRENT CONSUMPTION A	EFFICIENCY Btu/Wh	EFFICIENCY W/W	-15 Btu/h	-15 W	-5 Btu/h	-5 W	0 Btu/h	0 W	+5 Btu/h	+5 W	CHECK POINT DATA + 7.2 CAPACITY Btu/h	CAPACITY W	POWER CONSUMPTION W	CURRENT CONSUMPTION A	EFFICIENCY Btu/Wh	EFFICIENCY W/W	+10 Btu/h	+10 W	+15 Btu/h	+15 W	MOTOR TYPE	STARTING RELAY SUBASSEMBLY CODE	OVERLOAD PROTECTOR	RUN CAPACITOR µF	STARTING CAPACITOR µF
M/HBP	EM 20HBR	115V 60Hz	2.27	98 - 140	S/F	ISO22	214	1.87	-	-	-	-	-	-	-	-	-	-	-	-	579	170	729	214	912	267	985	289	122	1.31	8.07	2.37	1128	331	1377	404	LST / RSIR	213514180	4TM730KFBYY-53		-
		220V 50Hz		187 - 242			186	2.00	-	-	-	-	-	-	-	-	-	-	-	-	477	140	609	179	767	225	855	251	99	0.64	8.64	2.53	951	279	1160	340	LST / RSIR-CSIR	213514032	4TM189NFBYY-53	-	70-84
		220V 60Hz					221	1.90	-	-	-	-	-	-	-	-	-	-	-	-	617	181	745	218	915	268	1020	299	124	0.69	8.23	2.41	1125	330	1376	403	LST / RSIR		4TM189KFBYY-53		-
	EM 65HHR	115V 60Hz	5.54	103 - 135	F	ISO22	564	1.98	-	-	-	-	-	-	-	-	-	-	-	-	1531	449	1899	556	2329	682	2600	762	305	3.45	8.52	2.50	2821	827	3375	989		213514121	5TM 771RFBZZ-53		270-324
		220V 50-60Hz (50Hz data)		187 - 242			477	1.89	-	-	-	-	-	-	-	-	-	-	-	-	1327	389	1657	486	2026	594	2200	645	270	1.91	8.15	2.39	2434	713	2881	844	LST / RSIR-CSIR	213514172	4TM743KDBYY-53	-	88-108
		220V 50-60Hz (60Hz data)					567	1.97	-	-	-	-	-	-	-	-	-	-	-	-	1617	474	1987	582	2411	707	2615	766	308	1.77	8.49	2.49	2891	847	3424	1004					
	FFI 12HBX	220-240V 50Hz	11.14	198 - 255	F	ISO22	939	2.01	-	-	-	-	-	-	-	-	-	-	-	-	2581	757	3257	955	4015	1177	4330	1269	499	2.83	8.68	2.54	4854	1423	5775	1692	HST / CSIR	213516450	4TM757UFBYY-53	-	88-108
HBP	EM 55HHR	115V 60Hz	4.60	98 - 135	F	ISO22	466	1.99	-	-	-	-	-	-	-	-	-	-	-	-	1250	366	1556	456	1917	562	2150	630	250	2.85	8.60	2.52	2333	684	2803	822		213514067	4TM762NFBZZ-53		
		220-240V 50-60Hz (50Hz data)		198 - 255			394	2.13	-	-	-	-	-	-	-	-	-	-	-	-	1117	327	1367	401	1661	487	1820	533	198	1.25	9.19	2.69	1997	585	2377	697	LST / RSIR	213514130	4TM734KDBYY-53	-	-
		220-240V 50-60Hz (60Hz data)		198 - 242			466	2.05	-	-	-	-	-	-	-	-	-	-	-	-	1292	379	1612	472	1982	581	2150	630	242	1.35	8.88	2.60	2400	704	2868	841					
	EM 65HHR	220-240V 50Hz	5.54	198 - 255	F	ISO22	473	2.06	-	-	-	-	-	-	-	-	-	-	-	-	1388	407	1626	476	1940	569	2180	639	245	1.42	8.90	2.61	2332	683	2800	821	LST / RSIR	213514130	4TM734LFBYY-53	-	-
	EMI 70HDR	115V 60Hz	5.89	103 - 135	S/F	ISO22	610	1.96	-	-	-	-	-	-	-	-	-	-	-	-	1743	511	2134	625	2587	758	2815	825	333	3.68	8.45	2.48	3101	909	3677	1078	LST / RSIR	213514121	4TM771RFBZZ-53	-	-

Note: Condensing Temperature 54.4°C (129.92°F)

* Static Cooling (S) / Fan Cooling (F)

R 600a - Performance Table

Embraco

APPLICATION	MODEL	VOLTAGE / FREQUENCY	DISPLACEMENT cm³	OPERATING VOLTAGE RANGE (V)	COOLING TYPE*	OIL VISCOSITY	CHECK POINT DATA CECOMAF (CALCULATED) CAPACITY (W)	CHECK POINT DATA CECOMAF (CALCULATED) COP (W/W)	PERFORMANCE / EVAPORATING TEMPERATURE °C - ASHRAE -35 Btu/h	-35 W	-25 Btu/h	-25 W	DADOS CHECK POINT -23.3 CAPACITY Btu/h	CAPACITY W	POWER CONSUMPTION W	CURRENT CONSUMPTION A	EFFICIENCY Btu/Wh	EFFICIENCY W/W	-15 Btu/h	-15 W	-5 Btu/h	-5 W	0 Btu/h	0 W	+5 Btu/h	+5 W	CHECK POINT DATA + 7.2 CAPACITY Btu/h	CAPACITY W	POWER CONSUMPTION W	CURRENT CONSUMPTION A	EFFICIENCY Btu/Wh	EFFICIENCY W/W	+10 Btu/h	+10 W	+15 Btu/h	+15 W	MOTOR TYPE	STARTING RELAY SUBASSEMBLY CODE	OVERLOAD PROTECTOR	RUN CAPACITOR µF	STARTING CAPACITOR µF
LBP	EMI 30CEP	220-240V 50Hz	4.99	198 - 255	S	ISO32	50	0.81	85	25	199	58	225	66	64	0.43	3.52	1.03	388	114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	8EA5B3	4TM110NFBYY-53	3	-
	EMI 30CNP	115V 60Hz	4.99	98 - 140	S	ISO32	70	0.89	140	41	290	85	320	94	83	1.04	3.85	1.13	496	145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	8EA1B1	4TM283NFBYY-53	-	-
	FGS 50CA	220-240V 50Hz	7.15	198 - 255	S	ISO10	86	1.16	185	54	355	104	390	114	78	0.38	5.00	1.47	600	176	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR-RSIR	8EA5B3	MRA58155-5590	5	-
	FGS 60CA	220-240V 50Hz	9.04	198 - 255	S	ISO10	106	1.19	226	66	438	128	480	141	94	0.44	5.11	1.50	735	215	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR-RSIR	8EA5B3	MRA58155-5590	5	-
	FGS 70CA	220-240V 50Hz	11.14	198 - 255	S	ISO10	132	1.18	292	86	544	159	600	176	118	0.55	5.08	1.49	939	275	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR-RSIR	8EA5B3	MRA58154-5590	5	-
L/MBP	EMI 30CNP	220V 50-60Hz (50Hz data)	4.99	187 - 242	S	ISO32	57	0.82	94	28	211	62	260	76	73	0.56	3.55	1.04	391	114	630	185	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	P400E	4TM134NFBYY-53	-	-
		220V 50-60Hz (60Hz data)					70	0.88	125	37	262	77	320	94	84	0.54	3.80	1.11	457	134	730	214	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EMI 40CNP	115V 60Hz	6.36	98 - 140	S	ISO32	90	0.94	199	58	372	109	410	120	101	1.41	4.05	1.19	634	186	1009	296	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	8EA3B1	4TM283RFBYY-53	-	-
		220V 50-60Hz (50Hz data)		187 - 242			75	0.89	167	49	309	91	340	100	88	0.72	3.85	1.13	522	153	836	245	-	-	-	-	-	-	-	-	-	-	-	-	-	-		8EA5B1	4TM189NFBYY-53		
		220V 50-60Hz (60Hz data)					90	0.92	199	58	372	109	410	120	104	0.67	3.95	1.16	634	186	1009	296	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EG 50CLP	115V 60Hz	7.15	98 - 140	S	ISO10	100	1.00	180	53	404	118	455	133	106	1.64	4.29	1.26	710	208	1143	335	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	7M4R7MC1	4TM283ULBYY-53	-	
		220V 50-60Hz (50Hz data)		187 - 242			82	0.87	171	50	331	97	371	109	99	0.98	3.76	1.10	582	171	906	266	-	-	-	-	-	-	-	-	-	-	-	-	-	-		P400E	4TM197NFBYY-53	-	-
		220V 50-60Hz (60Hz data)					99	0.99	192	56	403	118	451	132	105	0.87	4.28	1.25	742	217	1180	346	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EG 60CLP	220V 50-60Hz (50Hz data)	9.04	187 - 242	S	ISO10	106	0.95	196	57	429	126	486	142	118	1.03	4.11	1.20	738	216	1225	359	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	P400E	4TM189RHBYY-53	-	-
		220V 50-60Hz (60Hz data)					128	1.03	235	69	514	151	584	171	130	0.94	4.48	1.31	922	270	1459	428	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EG 70CLP	115V 60Hz	11.14	98 - 140	S	ISO10	168	1.12	333	98	669	196	766	224	158	2.26	4.85	1.42	1192	349	1796	526	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	P600E	4TM427RFBYY-53	-	-
		220V 50-60Hz (50Hz data)		187 - 242			134	1.00	299	87	554	162	612	179	142	1.25	4.31	1.26	950	278	1523	446	-	-	-	-	-	-	-	-	-	-	-	-	-	-		P400E	4TM283NFBYY-53		
		220V 50-60Hz (60Hz data)					164	1.09	327	96	673	197	747	219	158	1.14	4.72	1.38	1140	334	1799	527	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EG 80CLP	115V 60Hz	12.21	98 - 140	S	ISO10	178	1.11	366	107	745	218	808	237	168	2.23	4.81	1.41	1247	365	1920	563	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	P600E	4TM762PFBYY-53	-	-
		220V 50-60Hz (50Hz data)		187 - 242			148	1.08	323	95	630	185	673	197	144	1.23	4.68	1.37	1060	311	1669	489	-	-	-	-	-	-	-	-	-	-	-	-	-	-		7M220MC1	4TM276RFBYY-53		
		220V 50-60Hz (60Hz data)					178	1.11	382	112	753	221	810	237	168	1.16	4.82	1.41	1255	368	1962	575	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EGS 80CLP	115-127V 60Hz	11.14	98 - 140	S	ISO10	187	1.22	438	128	773	227	850	249	160	2.21	5.30	1.55	1311	384	2016	591	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	8M4R7MC1	4TM762MFBZZ-53	-	-
		220-240V 50-60Hz (60Hz data)		187 - 242							772	226				1.14			1303	382	1999	586	-	-	-	-	-	-	-	-	-	-	-	-	-	-		7M220MC1	4TM276RFBYY-53		

Note: Condensing Temperature 54.4°C (129.92°F)

* Static Cooling (S) / Fan Cooling (F)

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R 12 - Performance Table

Embraco

APPLICATION	MODEL	VOLTAGE / FREQUENCY	DISPLACEMENT cm³	OPERATING VOLTAGE RANGE (V)	COOLING TYPE*	OIL VISCOSITY	CHECK POINT DATA CECOMAF (CALCULATED) CAPACITY (W)	CHECK POINT DATA CECOMAF (CALCULATED) COP (W/W)	PERFORMANCE / EVAPORATING TEMPERATURE °C - ASHRAE -35 Btu/h	-35 W	-25 Btu/h	-25 W	CHECK POINT DATA -23.3 CAPACITY Btu/h	CAPACITY W	POWER CONSUMPTION W	CURRENT CONSUMPTION A	EFFICIENCY Btu/Wh	EFFICIENCY W/W	-15 Btu/h	-15 W	-5 Btu/h	-5 W	0 Btu/h	0 W	+5 Btu/h	+5 W	CHECK POINT DATA +7.2 CAPACITY Btu/h	CAPACITY W	POWER CONSUMPTION W	CURRENT CONSUMPTION A	EFFICIENCY Btu/Wh	EFFICIENCY W/W	+10 Btu/h	+10 W	+15 Btu/h	+15 W	MOTOR TYPE	STARTING RELAY SUBASSEMBLY CODE	OVERLOAD PROTECTOR	RUN CAPACITOR µF	STARTING CAPACITOR µF
LBP	EM 20NP	220-240V 50Hz	2.27	198 - 255	S	ISO32	37	0.62	40	12	139	41	165	48	61	0.36	2.70	0.79	274	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	8EA5B3	4TM110NFBYY-53	4	-
	EM 20NR	115V 60Hz	2.27	103 - 127	S	ISO32	46	0.72	80	23	184	54	205	60	66	0.80	3.10	0.91	341	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514024	4TM711MHBYY-53	-	145-175
		220V 60Hz		198 - 242												0.40					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213514032	4TM703KFBYY-53		38-46
	EM 30NP	220-240V 50Hz	3.00	198 - 255	S	ISO32	55	0.73	102	30	219	64	245	72	78	0.33	3.16	0.93	393	115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	8EA5B3	4TM134NFBYY-53	4	-
	EM 30NR	115V 60Hz	3.00	103 - 127	S	ISO32	71	0.82	139	41	284	83	315	92	89	1.10	3.54	1.04	494	145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514008	4TM734LFBYY-53	-	145-175
		220V 60Hz		198 - 242												0.60					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213514016	4TM711KFBYY-53		38-46
	EM 30SC	115V 60Hz	3.00	103 - 135	S	ISO32	71	0.93	139	41	284	83	315	92	78	0.73	4.01	1.18	494	145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA4B3	4TM197NFBYY-53	12	-
	EMI 30ER	115-127V 60Hz	3.00	98 - 140	S	ISO32	79	0.95	116	34	306	90	350	103	85	1.07	4.10	1.20	540	158	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213514008	4TM734LFBYY-53	-	64-77
		220V 50-60Hz (50Hz data)		187 - 242			65	0.92	88	26	242	71	290	85	73	0.59	3.95	1.16	484	142	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514032	4TM189KFBYY-53	-	72-88
		220V 50-60Hz (60Hz data)					79	0.95	116	34	306	90	350	103	85	0.57	4.10	1.20	540	158	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EM 40NP	220-240V 50Hz	3.77	198 - 255	S	ISO32	79	0.83	160	47	309	91	350	103	98	0.61	3.57	1.05	517	152	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	8EA5B3	4TM189NFBYY-53	4	-
	EM 40NR	115V 60Hz	3.77	103 - 127	S	ISO32	95	0.85	202	59	389	114	420	123	114	1.45	3.68	1.08	642	188	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514040	4TM743PFBYY-53	-	145-175
		220V 60Hz		198 - 242												0.75					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213514059	4TM711MHBYY-53		38-46
	EM 40SC	115V 60Hz	3.77	103 - 115	S	ISO32	96	1.00	189	55	389	114	425	125	99	0.86	4.29	1.26	645	189	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / CSCR	8EA4B3	4TM724REBYY-53	12	77-64
	EMI 45ER	115-127V 60Hz	3.77	98 - 140	S	ISO32	109	1.01	214	63	338	99	485	142	111	1.34	4.37	1.28	757	222	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	213514040	4TM757KFBYY-53	-	-
		220V 50-60Hz (50Hz data)		187 - 242			85	0.95	139	41	336	99	380	111	93	0.77	4.10	1.20	604	177	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514016	4TM724KFBYY-53		50-60
		220V 50-60Hz (60Hz data)					109	1.01	175	51	413	121	485	142	111	0.71	4.37	1.28	741	217	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EM 55NP	220-240V 50Hz	4.99	198 - 255	S	ISO32	106	0.86	242	71	425	125	470	138	126	0.81	3.73	1.09	709	208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	8EA5B3	4TM189RHBYY-53	-	-
	EM 55NR	115V 60Hz	4.99	103 - 135	S	ISO32	132	0.93	286	84	528	155	585	171	146	1.87	4.01	1.18	886	260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	213514067	4TM762MFBYY-53	-	-
		220V 60Hz		198 - 242												0.95					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514059	4TM734LFBYY-53		53-64
	EMI 55ER	115-127V 60Hz	4.60	98 - 140	S/F	ISO32	129	1.03	251	73	504	148	570	167	128	1.63	4.45	1.30	887	260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213514105	4TM757MDBYY-53		233-280
		220V 50-60Hz (50Hz data)		198 - 255			104	0.99	215	63	417	122	460	135	108	0.84	4.25	1.25	726	213	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514059	4TM 718NFBYY-53	-	108-130
		220V 50-60Hz (60Hz data)		198 - 242			129	1.03	251	73	504	148	570	167	128	0.81	4.45	1.30	887	260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	EM 65NP	220-240V 50Hz	5.54	198 - 255	S	ISO32	123	0.90	252	74	498	146	545	160	140	0.92	3.89	1.14	810	237	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	8EA5B3	4TM189RHBYY-53	4	-
	EM 65NR	115V 60Hz	5.54	103 - 132	S	ISO32	143	0.96	315	92	585	171	635	186	154	1.97	4.12	1.21	957	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514083	4TM757NFBYY-53	-	216-259
		220V 60Hz		198 - 242				0.93							158	1.06	4.02	1.18			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213514148	4TM734LFBYY-53		53-64
	FGS 80A	220-240V 50-60Hz (50Hz data)	7.15	198 - 255	S	ISO32	156	1.18	349	102	634	186	690	202	135	0.64	5.10	1.49	1028	301	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	8EA5B3	4TM197NFBYY-53	5	-
		220-240V 50-60Hz (60Hz data)		198 - 242			184	1.19	408	120	742	217	815	239	159	0.72	5.13	1.50	1192	349	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA5B3			
	FGS 95A	115-127V 60Hz	7.15	103 - 140	S	ISO32	212	1.21	478	140	849	249	940	275	180	1.57	5.21	1.53	1364	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR		4TM414RFBYY-53	20	-
		220-240V 50-60Hz (50Hz data)		198 - 255			175	1.19	403	118	717	210	775	227	151	0.75	5.13	1.50	1151	337	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-RSCR	8EA1B3	4TM283NFBYY-53	5	-
		220-240V 50-60Hz (60Hz data)		198 - 242			212	1.20	484	142	860	252	940	275	182	0.79	5.17	1.52	1381	405	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR				
	FF 11.5AK	220-240V 50Hz	11.14	198 - 255	S	ISO32	220	0.88	553	162	901	264	975	286	258	1.67	3.78	1.11	1406	412	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516035	MRA58112-5590	-	108-130
	FGS 110A	115V 60Hz	9.04	103 - 135	S	ISO32	257	1.21	591	173	1033	303	1140	334	219	2.03	5.21	1.53	1676	491	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA1B3	4TM445NFBYY-53	20	-
	EG 70LR	115V 60Hz	5.96	103 - 140	S	ISO32	167	1.00	391	115	701	205	740	217	172	2.33	4.30	1.26	1145	336	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516272	4TM762NFBZZ-53	-	158-190
		220V 60Hz		187 - 242					386	113	684	200				1.21	4.30	1.26	1134	332	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213516159	4TM743KDBYY-53		64-77
	EG 80LR	115V 60Hz	6.76	97 - 140	S	ISO32	196	1.07	410	121	809	237	870	255	188	2.35	4.63	1.36	1348	395	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516060	4TM762PFBZZ-53	-	175-228
		220V 60Hz		187 - 242											187	1.24	4.65				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213516159	4TM743KDBYY-53		64-77
L/MBP	FFU 70AK	115-127V 60Hz	6.36	98 - 140	S/F	ISO32	189	1.15	462	136	769	225	840	246	170	2.12	4.95	1.45	1253	367	1891	554	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213516272	4TM762MFBZZ-53	-	175-228
		220-240V 50-60Hz (50Hz data)		187 - 255			158	1.11	373	109	647	189	700	205	146	1.14	4.80	1.41	1036	304	1579	463	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516159	4TM283NFBYY-53	-	64-77
		220-240V 50-60Hz (60Hz data)		187 - 242			189	1.15	462	136	769	225	840	246	170	1.10	4.95	1.45	1253	367	1891	554	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	FFU 80AK	115-127V 60Hz	6.76	98 - 140	S/F	ISO32	206	1.15	485	142	835	245	910	267	184	2.39	4.95	1.45	1338	392	2034	596	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213516094	4TM762PFBZZ-53	-	243-292
		220-240V 50-60Hz (50Hz data)		187 - 255			169	1.10	421	123	693	203	750	220	158	1.34	4.74	1.39	1106	324	1720	504	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516086	4TM743KDBYY-53	-	108-130
		220-240V 50-60Hz (60Hz data)		187 - 242			206	1.15	485	142	835	245	910	267	184	1.26	4.95	1.45	1340	393	2036	597	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	FFU 100AK	115-127V 60Hz	7.95	103 - 140	S/F	ISO32	237	1.11	563	165	990	290	1050	308	219	2.96	4.80	1.41	1583	464	2389	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213516248	4TM771NFBZZ-53	-	233-280
		220V 50-60Hz		198 - 242			194	1.02	468	137	835	245	860	252	195	1.73	4.40	1.29	1332	390	1999	586	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516035	4TM757KFBYY-53	-	53-64
							237	1.11	558	163	994	291	1050	308	219	1.54	4.80	1.41	1574	461	2382	698	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	FFU 130AX	115-127V 60Hz	10.61	98 - 140	F	ISO32	317	1.11	714	209	1280	375	1405	412	295	4.25	4.76	1.40	2120	621	3200	938	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	HST / CSIR	213516051	MRT26ADK-5590	-	378-454
		220V 60Hz		198 - 242	S/F		305	1.02	686	201	1233	361	1350	396	307	2.45	4.40	1.29	2040	598	3080	903	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		213516485	MRP36ALK-5590		124-149
L/M/HBP	EM 20BR	115V 60Hz	2.27	98 - 135	S/F	ISO32	208	1.89	76	22	182	53	200	59	69	0.94	2.90	0.85	336	98	556	163	696	204	858	252	920	270	113	1.26	8.14	2.39	1046	307	1261	370	LST / RSIR-CSIR	213514024	4TM730KFBYY-53	-	124-149
		220V 60Hz		187 - 242												0.50														0.66										213514032	4TM189NFBYY-53		70-84
	EM 30BR	115V 60Hz	3.00	98 - 135	S/F	ISO32	286	1.89	136	40	293	86	320	94	100	1.72	3.20	0.94	513	150	813	238	1000	293	1214	356	1270	372	156	2.02	8.14	2.39	1457	427	1733	508	LST / RSIR-CSIR	213514105	4TM757MFBYY-53	-	100-120
		220V 60Hz		187 - 242												0.75														0.94										213514059	4TM189RHBYY-53		30-50
	FF 6BK	115V 60Hz	6.23	103 - 135	S	ISO32	902	1.60	360	105	600	176	655	192	168	2.05	3.90	1.14	981	287	1506	441	1835	535	2183	640	2340	686	319	3.20	7.34	2.15	2580	756	3017	884	LST / RSIR-CSIR	213516060	MRP40AIN-5590	-	233-280
		220V 60Hz		198 - 242												1.06														1.85										213516159	4TM739LFBYY-53		88-108
	FF 7.5BK	115-127V 60Hz	6.92	103 - 140	S	ISO32	902	1.60	443	130	672	197	735	215	192	2.53	3.83	1.12	1074	315	1640	480	1981	581	2360	692	2550	747	367	3.83	6.95	2.04	2776	814	3228	946		213516060	MRT30AIK-5590		189-227
		220V 60Hz		198 - 242					458	134	632	185			194	1.36	3.79	1.11	1077	316	1714	502	2080	610	2465	722	2600	762	360	2.03	7.22	2.12	2858	838	3250	952	LST / RSIR-CSIR	213516078	4TM743KDBYY-53	-	64-77
		220-240V 50Hz		198 - 255					339	99	603	177	627	184	158	0.97	3.97	1.16	956	280	1437	421	1738	509	2086	611	2135	626	292	1.50	7.31	2.14	2486	728	2942	862		213516116	4TM739KFBYY-53		88-108
	FF 8.5BK	115V 60Hz	7.95	103 - 135	S/F	ISO32	695	1.64	446	131	777	228	850	249	223	3.14	3.81	1.12	1235	362	1886	553	2304	675	2796	819	3080	903	435	4.48	7.08	2.07	3368	987	4030	1181		213516248	MRT26AIK-5590		190-250
		220V 60Hz		198 - 242				1.71	453	133					225	1.70	3.78	1.11	1260	369	1940	569	2364	693	2852	836			417	2.40	7.39	2.17	3406	998	4032	1182	LST / RSIR-CSIR	213516230	4TM757LFBYY-53	-	88-108
		220-240V 50Hz		198 - 255					415	122	659	193	715	210	185	1.16	3.86	1.13	1058	310	1626	476	1977	579	2375	696	2567	752	352	1.94	7.29	2.14	2822	827	3319	973		213516159	4TM739LFBYY-53		108-130
	FF 8.5BX	115V 60Hz	7.95	103 - 127	S/F	ISO32	645	1.54	467	137	789	231	850	249	235	3.34	3.62	1.06	1216	356	1818	533	2206	646	2663	781	2860	838	430	4.72	6.65	1.95	3200	938	3824	1121	HST / CSIR	213516175	MRT26ADK-5590	-	270-324
	FF 10BK	115V 60Hz	9.04	103 - 135	S/F	ISO32	732	1.56	476	139	840	246	915	268	256	3.25	3.57	1.05	1344	394	2043	599	2483	728	2994	877	3240	950	481	5.01	6.74	1.98	3582	1050	4255	1247		213516248	MRT28AHN-5590		460-552
		220V 60Hz		198 - 242												1.70														2.61									LST / RSIR-CSIR	213516035	MSP30AMK-5590	-	130-156
		220-240V 50Hz		198 - 255	F		632	1.70	434	127	732	215	795	233	203	1.40	3.92	1.15	1166	342	1772	519	2151	630	2587	758	2800	821	381	2.10	7.35	2.15	3085	904	3649	1069		213516078	MSP57AMK-5590		53-64
	FF 10BX	115V 60Hz	9.04	103 - 135	S/F	ISO32	722	1.54	469	137	836	245	915	268	265	3.75	3.45	1.01	1335	391	2021	592	2451	718	2949	864	3200	938	480	5.30	6.67	1.95	3522	1032	4175	1224	LST / CSIR	213516175	MRT16AHK-5590	-	270-324
	FF 11.5BK	115-127V 60Hz	11.14	103 - 140	F	ISO32	902	1.59	767	225	1047	307	1130	331	296	4.26	3.81	1.12	1666	488	2573	754	3120	914	3721	1090	4000	1172	584	6.30	6.85	2.01	4370	1281	5061	1483	LST / RSIR-CSIR	213516051	MST 22AFK-5590	-	460-552
		220V 60Hz		198 - 242	S/F			1.60							293	2.13	3.85	1.13											578	3.15	6.92	2.03							213514450	MRP36ALK-5590		130-156
	FFI 12BK	115V 60Hz	11.14	103 - 127	F	ISO32	1038	1.68	971	284	1282	376	1350	396	325	4.20	4.15	1.22	2040	598	3177	931	3865	1133	4621	1354	4600	1348	632	6.49	7.28	2.13	5437	1593	6303	1847	LST / RSIR-CSIR	213516183	MRT20AKN-5590	-	460-552
		220-240V 50Hz		198 - 255			902	1.77	810	237	1068	313	1150	337	275	2.10	4.18		1700	498	2647	776	3220	944	3851	1128	4000	1172	524	2.90	7.63	2.24	4530	1328	5252	1539		213516035	MRP40APN-5598		88-108
	FFI 12BX	115V 60Hz	11.14	103 - 135	F	ISO32	1128	2.01	971	284	1282	376	1350	396	340	4.40	3.97	1.16	2040	598	3177	931	3865	1133	4621	1354	5000	1465	577	6.80	8.67	2.54	5437	1593	6303	1847	HST / CSIR	213516051	MRT16AFZ-5590	-	233-280
		220V 60Hz		198 - 242	S/F		1092	1.80					1305	382	334	2.82	3.91	1.15	1881	551							4838	1418	623	3.68	7.77	2.28							213516485	MSP36ALZ-5590		124-149

Note: Condensing Temperature 54.4°C (129.92°F)

* Static Cooling (S) / Fan Cooling (F)

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