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COOLING SOLUTIONS

R 600a
R 134a
R 12 (Blends)

Product Line

EM
PW
F
EG

www.embraco.com



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



1) - COMPRESSOR COOLING TYPE

1.1) - Static Cooling (S)

The compressor does not require fan cooling and must be installed in such a 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 performance 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

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

3) - MOTOR

The compressors in the performance table are equipped with monophasic, 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)

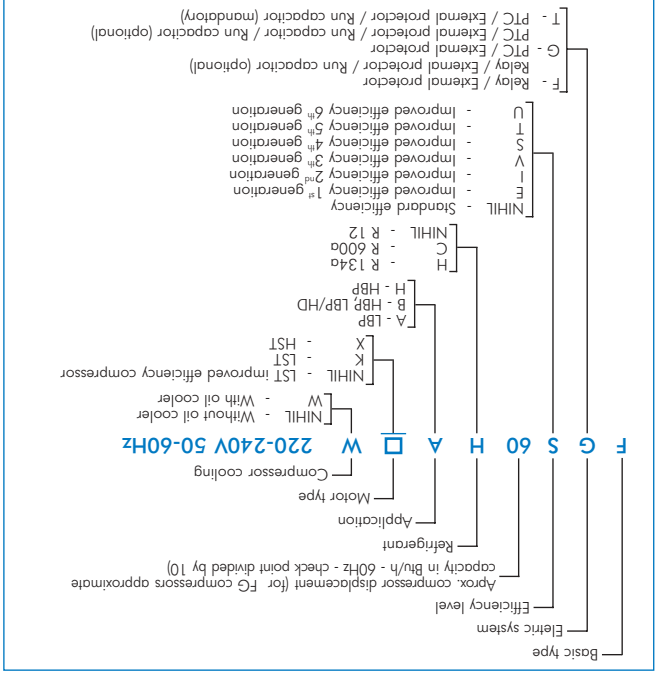
RSR (PTCSR) - Resistive Start - Capacitive Run

Uses permanent capacitor (running)

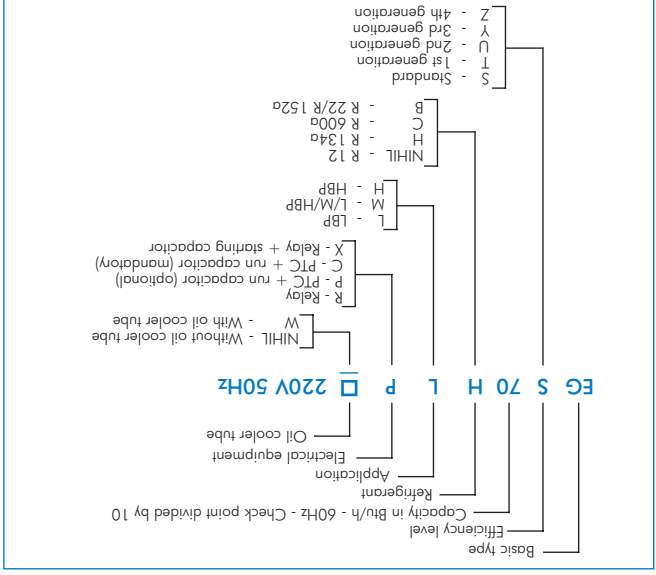
CSR (CSCR) - Capacitive Start & Run
Uses electrolytic (starting) and permanent capacitor at the same time – used with 4 terminal PTC

11) - COMPRESSOR DENOMINATION

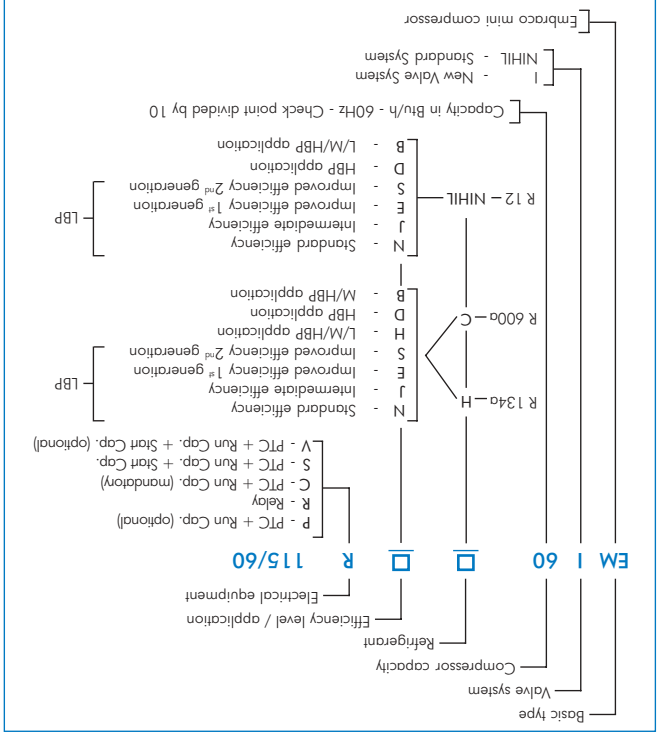
11.1) - F



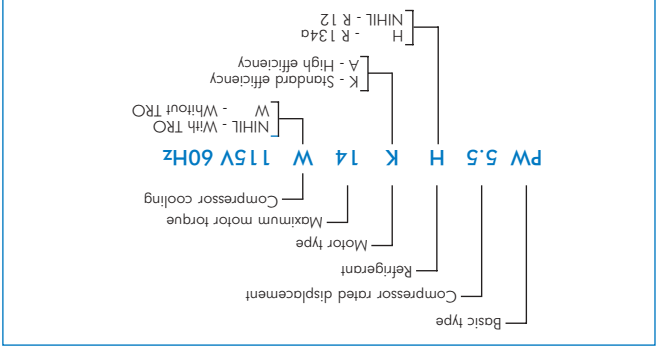
11.3) - EG



11.2) - EM



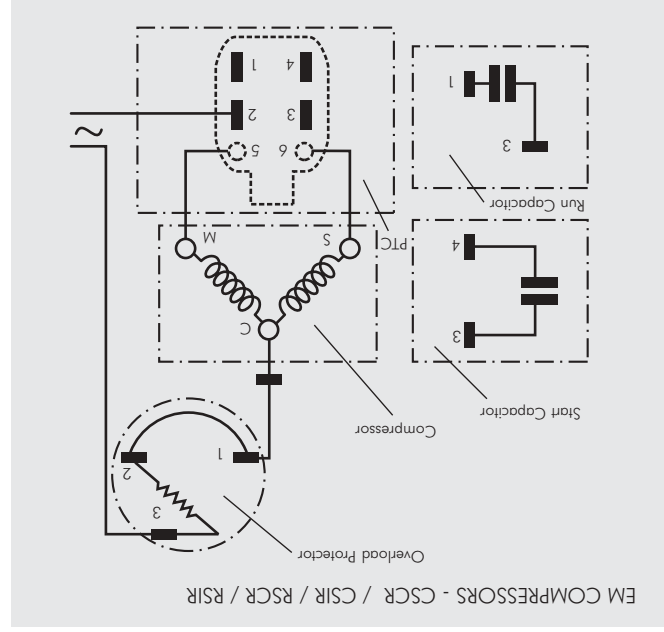
11.4) - PW



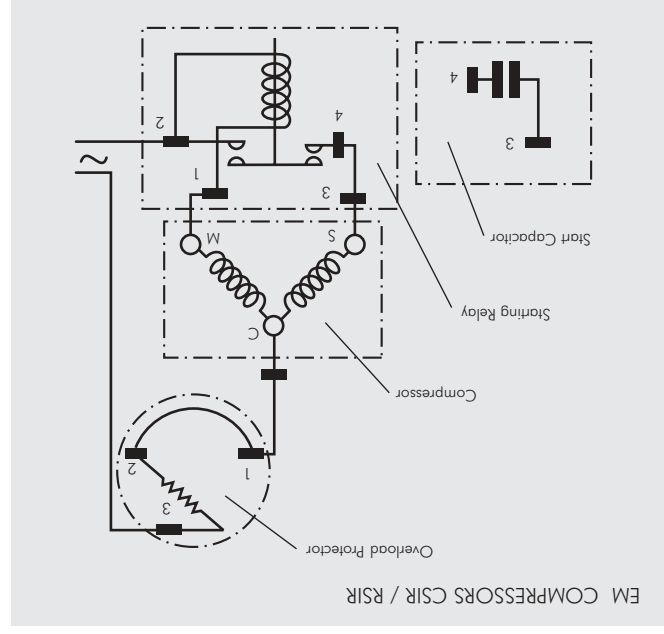
R 600a - R 134a - R 12 (Blends)



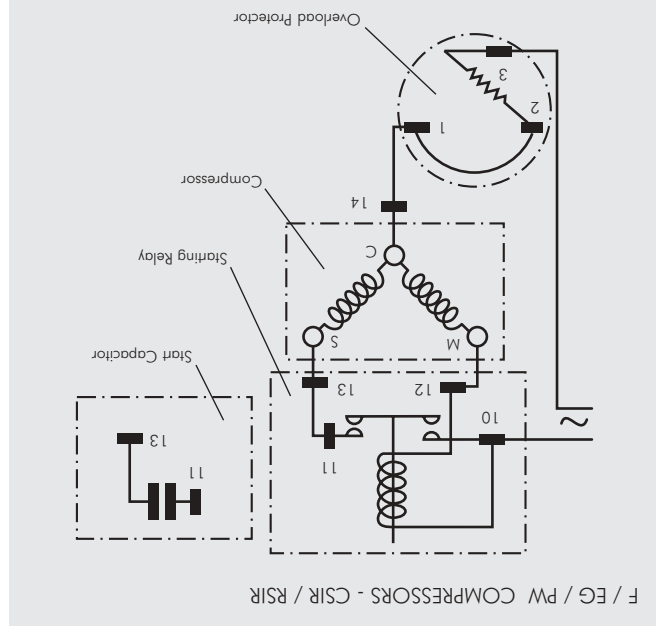
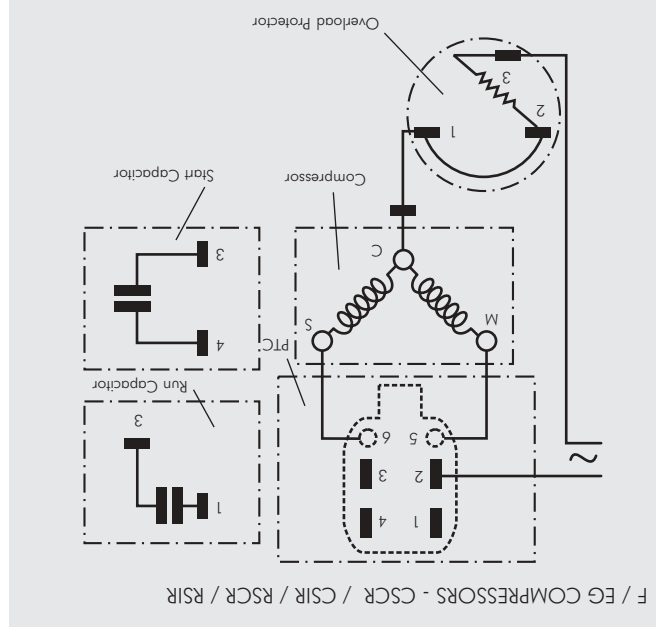
10) - ELECTRICAL DIAGRAMS



Compressors with a run capacitor must use PTC with 3 terminals.
Compressors without run capacitor use PTC with 1 terminal.



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.



If application of a start capacitor is necessary, then it must be connected between terminals 1 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 below.

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

COMPRESSOR APPROVED TO BE USED WITH BLENDS LISTED BELOW

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					
CONDENSING TEMPERATURE	54.4	130	54.4	130	55	131
EVAPORATING TEMPERATURE	7.2	45	-23.3	-10	-25	-13

7) - CONVERSION

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

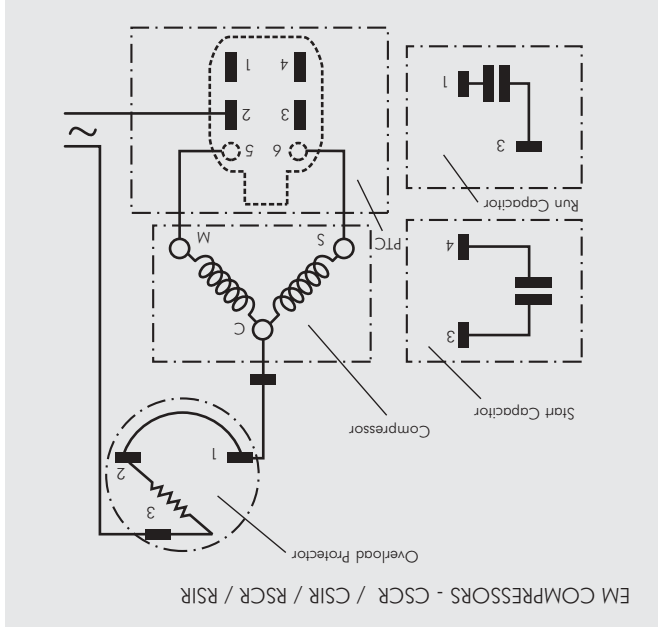
Capacity = ±5%
Power Consumption = ±5%
Current Consumption = ±5%
Efficiency = ±7%

8) - TOLERANCES

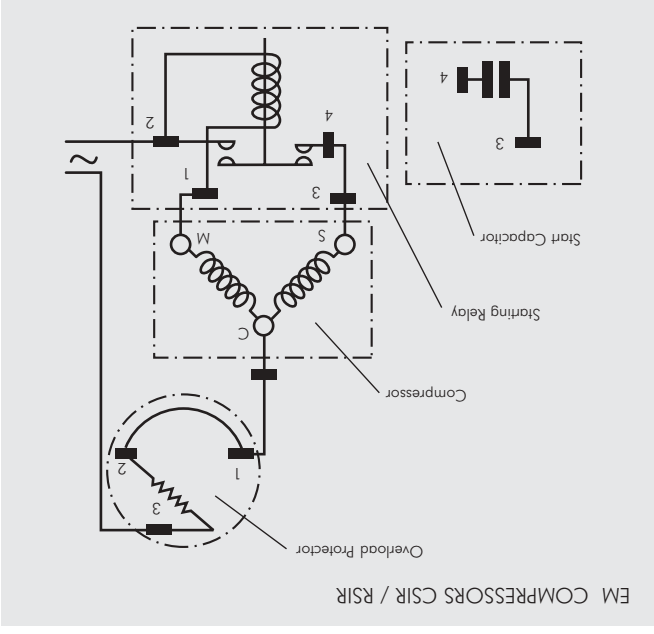
R 600a - R 134a - R 12 (Blends)



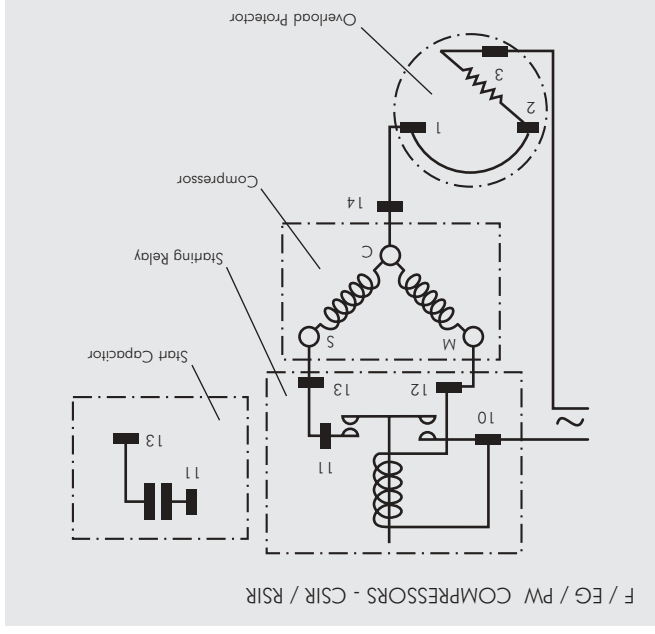
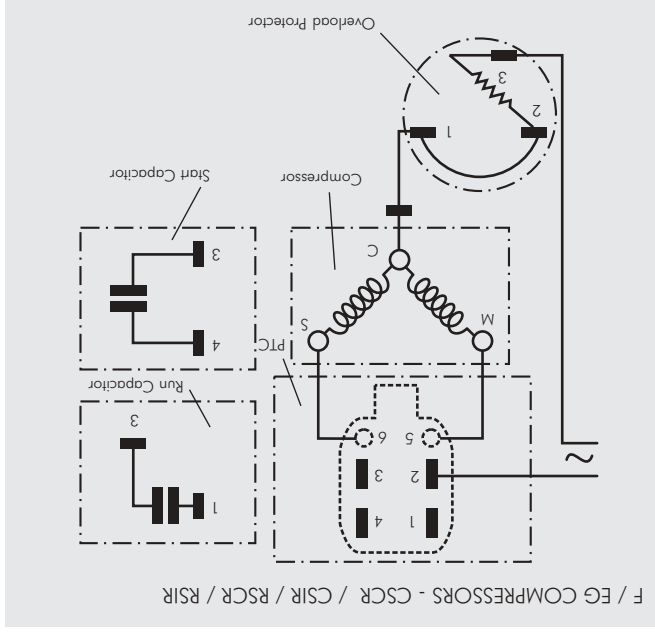
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Please note the use of any capacitor other than the ones listed in the tables of this catalog or in the Application Table, will cause the starting relay and overload protector not to work properly and may even cause the compressor motor to burn.
It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

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- 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 below.

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6) - TEST CONDITIONS

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

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

8) - TOLERANCES

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



1) - COMPRESSOR COOLING TYPE

1.1) - Static Cooling (S)
The compressor does not require fan cooling and must be installed in such a 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 performance 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

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

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

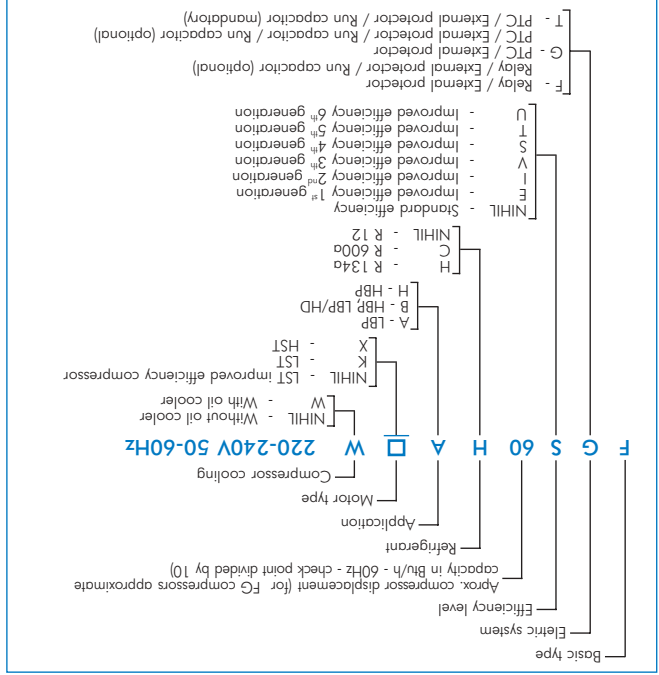
RSIR (PTCSR) - Resistive Start - Inductive Run
Does not use capacitors

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

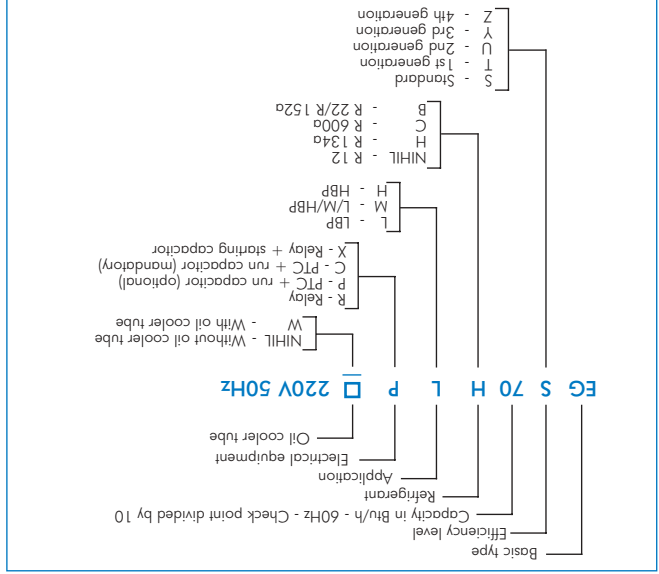
RSR (PTCSR) - Resistive Start - Capacitive Run
Uses permanent capacitor (running)

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

11) - COMPRESSOR DENOMINATION

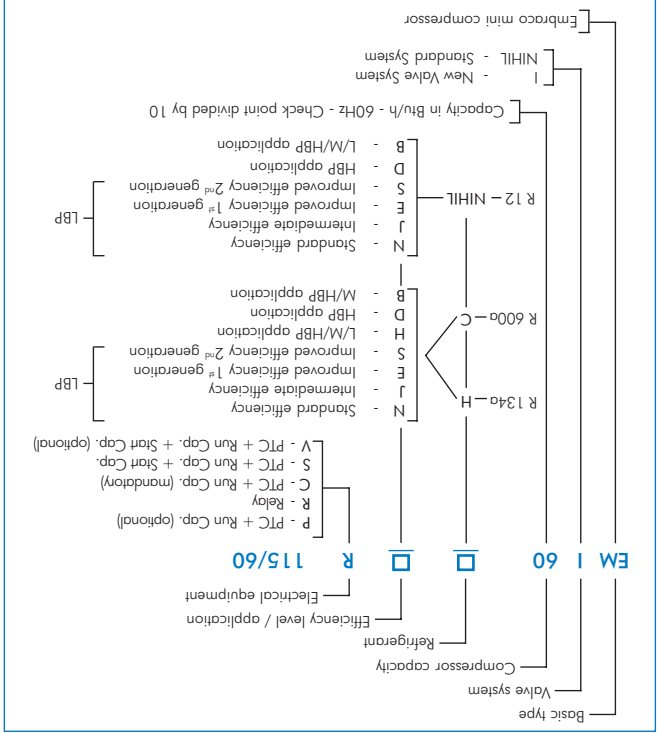


11.1) - F

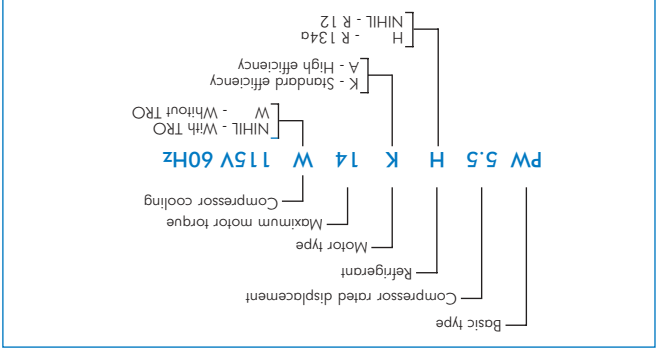


11.3) - EG

11.2) - EM



11.4) - PW



R 134a - Performance Table



APPLICATION	MODEL	VOLTAGE / FREQUENCY	DISPLACEMENT cm ³	OPERATING VOLTAGE RANGE (V)	COOLING TYPE*	OIL VISCOSITY	CHECK POINT DATA CECOMAF (CALCULATED)		PERFORMANCE / EVAPORATING TEMPERATURE °C - ASHRAE																												MOTOR TYPE	STARTING RELAY SUBASSEMBLY CODE	OVERLOAD PROTECTOR	RUN CAPACITOR μF	STARTING CAPACITOR μF
									CHECK POINT DATA -23.3								CHECK POINT DATA +7.2																								
							CAPACITY (W)		COP (W/W)		-35		-25		-15		-5		0		+5		+10		+15		CAPACITY		POWER CONSUMPTION W		CURRENT CONSUMPTION A		EFFICIENCY								
							Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W	Btu/h	W					
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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
		220V 50-60Hz (60Hz data)		198 - 242			110	1.03	228	67	458	134	510	149	115	0.75	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)		198 - 255			124	1.05	270	79	524	153	571	167	126	1.89	4.54	1.33	869	255	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		220-240V 50Hz		98 - 135			98	0.96	191	56	412	121	455	133	109	0.78	4.16	1.22	709	208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	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			102	0.90	215	63	421	123	470	138	121	1.05	3.88	1.14	738	216	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		220V 50-60Hz (60Hz data)		187 - 242			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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
		220V 60Hz		198 - 242																																			S/F	ISO10	124
	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	-	-		
		115V 60Hz		98 - 135			153	1.06	343	100	647	190	705	207	154	2.13	4.58	1.34	1056	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		220V 50Hz		187 - 242			S/F	ISO22	123	0.93	261	77	511	150	565	166	140	1.08	4.04	1.18	871	255	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514067	4TM762PFBZZ-53	-	270-324
	EMI 70HER	220V 60Hz	5.89	187 - 242	S	ISO10	153	1.06	343	100	647	190	705	207	154	1.08	4.58	1.34	1056	310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	213514130	4TM739LFBYY-53	-	-		
		115-127V 60Hz		98 - 140			S	ISO10	147	1.11	321	94	614	180	680	199	142	1.94	4.80	1.41	1067	313	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	EMY 70HER	220V 60Hz	5.72	187 - 242	S	ISO10	147	1.11	321	94	614	180	680	199	142	1.03	4.80	1.41	1067	313	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
		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	5																												

R 134a - Performance Table



APPLICATION	MODEL	VOLTAGE / FREQUENCY	DISPLACEMENT cm ³	OPERATING VOLTAGE RANGE (V)	COOLING TYPE*	OIL VISCOSITY	CHECK POINT DATA CECOMAF (CALCULATED)		PERFORMANCE / EVAPORATING TEMPERATURE °C - ASHRAE																												MOTOR TYPE	STARTING RELAY SUBASSEMBLY CODE	OVERLOAD PROTECTOR	RUN CAPACITOR μF	STARTING CAPACITOR μF	
									DADOS CHECK POINT -23.3								CHECK POINT DATA +7.2																									
							CAPACITY (W)	COP (W/W)	-35		-25		-15		-5		0		+5		+10		+15		Capacity	Power Consumption W	Current Consumption A	Efficiency														
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		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	LST / RSIR-CSIR	213514121	5TM 771RFBZZ-53	-	270-324			
		220V 50-60Hz (50Hz data)		477			1.89	-	-	-	-	-	-	-	-	-	-	-	-	-	1327	389	1657	486	2026	594	2200	645	270	1.91	8.15	2.39	2434	713		2881	844	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	4TM757UFBYY-53	-	-	
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	LST / RSIR	213514067	4TM762NFBZZ-53	-	-				
		220-240V 50-60Hz (50Hz data)		394			2.13	-	-	-	-	-	-	-	-	-	-	-	-	-	1117	327	1367	401	1661	487	1820	533	198	1.25	19.97	585	2377		697	213514130	4TM734KDBYY-53	-	-			
		220-240V 50-60Hz (60Hz data)		466			2.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1292	379	1612	472	1982	581	2150	630	242	1.35	8.88	2.60		2400	704	2868	841	4TM734LFBYY-53	-	-	
	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	-	-				
EM 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



APPLICATION	MODEL	VOLTAGE / FREQUENCY	DISPLACEMENT cm ³	OPERATING VOLTAGE RANGE (V)	COOLING TYPE*	OIL VISCOSITY	CHECK POINT DATA CECOMAF (CALCULATED)		PERFORMANCE / EVAPORATING TEMPERATURE °C - ASHRAE																												MOTOR TYPE	STARTING RELAY SUBASSEMBLY CODE	OVERLOAD PROTECTOR	RUN CAPACITOR μF	STARTING CAPACITOR μF	
									DADOS CHECK POINT -23.3								CHECK POINT DATA +7.2																									
							CAPACITY (W)	COP (W/W)	-35		-25		-15		-5		0		+5		+10		+15		Capacity	Power Consumption W	Current Consumption A	Efficiency														
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)		75			0.89	167	49	309	91	340	100	88	0.72	3.85	1.13	522	153	836	245	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
		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)		82			0.87	171	50	331	97	371	109	99	0.98	3.76	1.10	582	171	906	266	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
		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	4TM189HFBYY-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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
		115V 60Hz		168			1.12	333	98	669	196	766	224	158	2.26	4.85	1.42	1192	349	1796	526	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	EG 70CLP	220V 50-60Hz (50Hz data)	11.14	187 - 242	S	ISO10	134	1.00	299	87	554	162	612	179	142	1.25	4.31	1.26	950	278	1523	446	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
115V 60Hz		178		1.11			366	107	745	218	808	237	168	2.23	4.81	1.41	1247	365	1920	563	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
EG 80CLP	220V 50-60Hz (50Hz data)	12.21	187 - 242	S	ISO10	148	1.08	323	95	630	185	673	197	144	1.23	4.68	1.37	1060	311	1669	489	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	115-127V 60Hz		187			1.22	438	128	773	226	850	249	160	2.21	5.30	1.55	1311	384	2016	591	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
EGS 80CLP	220-240V 50-60Hz (60Hz data)	11.14	187 - 242	S	ISO10	187	1.22	438	128	772	226	850	249	160	1.14	5.30	1.55	1303	382	1999	586	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR	7M220MC1	4TM276RFBYY-53	-	-	

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

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

CODE 03015

R 12 - Performance Table



APPLICATION	MODEL	VOLTAGE / FREQUENCY	DISPLACEMENT cm ³	OPERATING VOLTAGE RANGE (V)	COOLING TYPE*	OIL VISCOSITY	CHECK POINT DATA CECOMAF (CALCULATED)		PERFORMANCE / EVAPORATING TEMPERATURE °C - ASHRAE																												MOTOR TYPE	STARTING RELAY SUBASSEMBLY CODE	OVERLOAD PROTECTOR	RUN CAPACITOR μF	STARTING CAPACITOR μF						
							CAPACITY (W)	COP (W/W)	CHECK POINT DATA -23.3				-15				-5				0				+5				CHECK POINT DATA +7.2				+10									+15					
									Btu/h		W		Btu/h		W		Btu/h		W		Btu/h		W		Btu/h		W		Btu/h		W		Btu/h		W							Btu/h		W		Btu/h	
							W	A	W	W/W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W						W	W	W	W	W	W
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 220V 60Hz	2.27	103 - 127 198 - 242	S	ISO32	46	0.72	80	23	184	54	205	60	66	0.40	3.10	0.91	341	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514024 213514032	4TM711MHBY-53 4TM703KFBYY-53	-	145-175 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 220V 60Hz	3.00	103 - 127 198 - 242	S	ISO32	71	0.82	139	41	284	83	315	92	89	1.10	3.54	1.04	494	145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514008 213514016	4TM734LFBYY-53 4TM711KFBYY-53	-	145-175 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 220V 50-60Hz (50Hz data) 220V 50-60Hz (60Hz data)	3.00	98 - 140 187 - 242	S	ISO32	79	0.95	116	34	306	90	350	103	85	1.07	4.10	1.20	540	158	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514008 213514032	4TM734LFBYY-53 4TM189KFBYY-53	-	64-77 72-88					
	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 220V 60Hz	3.77	103 - 127 198 - 242	S	ISO32	95	0.85	202	59	389	114	420	123	114	1.45	3.68	1.08	642	188	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514040 213514059	4TM743PFBYY-53 4TM711MHBY-53	-	145-175 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	4TM724REBY-53	12	77-64				
	EMI 45ER	115-127V 60Hz 220V 50-60Hz (50Hz data) 220V 50-60Hz (60Hz data)	3.77	98 - 140 187 - 242	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	-	-				
	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	4TM189RHBY-53	-	-				
	EM 55NR	115V 60Hz 220V 60Hz	4.99	103 - 135 198 - 242	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	-	-				
	EMI 55ER	115-127V 60Hz 220V 50-60Hz (50Hz data) 220V 50-60Hz (60Hz data)	4.60	98 - 140 198 - 255 198 - 242	S/F	ISO32	129	1.03	251	73	504	148	570	167	128	1.63	4.45	1.30	887	260	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514059 213514105 213514059	4TM734LFBYY-53 4TM757MDBYY-53 4TM 718NFBYY-53	-	53-64 233-280 108-130				
	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	4TM189RHBY-53	4	-				
	EM 65NR	115V 60Hz 220V 60Hz	5.54	103 - 132 198 - 242	S	ISO32	143	0.96 0.93	315	92	585	171	635	186	154 158	1.97 1.06	4.12 4.02	1.21 1.18	957	280	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213514083 213514148	4TM757NFBYY-53 4TM734LFBYY-53	-	216-259 53-64				
	FGS 80A	220-240V 50-60Hz (50Hz data) 220-240V 50-60Hz (60Hz data)	7.15	198 - 255 198 - 242	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	-				
	FGS 95A	115-127V 60Hz 220-240V 50-60Hz (50Hz data) 220-240V 50-60Hz (60Hz data)	7.15	103 - 140 198 - 255 198 - 242	S	ISO32	212	1.21	478	140	849	249	940	275	180	0.72	5.21	1.53	1364	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSCR	8EA5B3	4TM414RFBYY-53	20	-				
	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-RSCR	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 220V 60Hz	5.96	103 - 140 187 - 242	S	ISO32	167	1.00	391	115	701	205	740	217	172	2.33	4.30	1.26	1145	336	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516272 213516159	4TM762NFBZZ-53 4TM743KDBYY-53	-	158-190 64-77				
EG 80LR	115V 60Hz 220V 60Hz	6.76	97 - 140 187 - 242	S	ISO32	196	1.07	410	121	809	237	870	255	188	2.35	4.63	1.36	1348	395	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516060 213516159	4TM762PFBZZ-53 4TM743KDBYY-53	-	175-228 64-77					
L/MBP	FFU 70AK	115-127V 60Hz 220-240V 50-60Hz (50Hz data) 220-240V 50-60Hz (60Hz data)	6.36	98 - 140 187 - 255 187 - 242	S/F	ISO32	189	1.15	462	136	769	225	840	246	170	2.12	4.95	1.45	1253	367	1891	554	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516272 213516159	4TM762MFBZZ-53 4TM283NFBYY-53	-	175-228 64-77				
	FFU 80AK	115-127V 60Hz 220-240V 50-60Hz (50Hz data) 220-240V 50-60Hz (60Hz data)	6.76	98 - 140 187 - 255 187 - 242	S/F	ISO32	206	1.15	485	142	835	245	910	267	184	2.39	4.95	1.45	1338	392	2034	596	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516094 213516086	4TM762PFBZZ-53 4TM743KDBYY-53	-	243-292 108-130			
	FFU 100AK	115-127V 60Hz 220V 50-60Hz	7.95	103 - 140 198 - 242	S/F	ISO32	237	1.11	563	165	990	290	1050	308	219	2.96	4.80	1.41	1583	464	2389	700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LST / RSIR-CSIR	213516248 213516035	4TM771NFBZZ-53 4TM757KFBYY-53	-	233-280 53-64			
	FFU 130AX	115-127V 60Hz 220V 60Hz	10.61	98 - 140 198 - 242	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				
					S/F		305	1.02	686	201	1233	361	1350	396	307	2.45	4.40	1.29	2040	598	3080	903	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
L/M/HBP	EM 20BR	115V 60Hz 220V 60Hz	2.27	98 - 135 187 - 242	S/F	ISO32	208	1.89	76	22	182	53	200	59	69	0.94 0.50	2.90	0.85	336	98	556	163	696	204	858	252	920	270	113	1.26 0.66	8.14	2.39	1046	307	1261	370	-	-	-	-	LST / RSIR-CSIR	213514024 213514032	4TM730KFBYY-53 4TM189NFBYY-53	-	124-149 70-84		
	EM 30BR	115V 60Hz 220V 60Hz	3.00	98 - 135 187 - 242	S/F	ISO32	286	1.89	136	40	293	86	320	94	100	1.72 0.75	3.20	0.94	513	150	813	238	1000	293	1214	356	1270	372	156	2.02 0.94	8.14	2.39	1457	427	1733	508	-	-	-	-	L						

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