

**embraco**

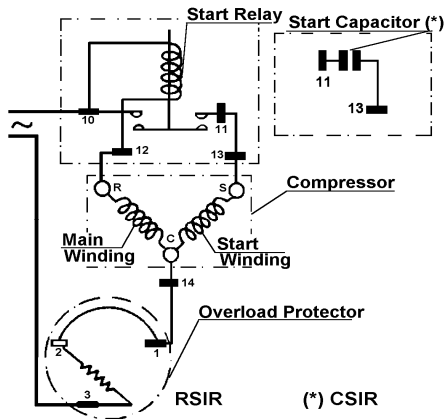
**FF8.5BK**

LBP-MBP-HBP

**115 V**

**Blend**

**Wiring Diagram**



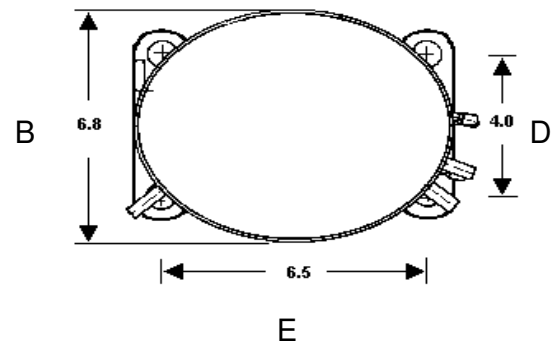
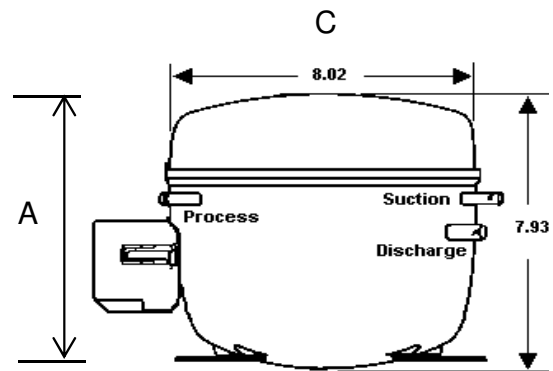
**Compressor Terminals**

- C = Common
- R = Run
- S = Start

Electrical components are supplied unassembled. Use of components other than specified will void warranty.

**Dimensions (inches)**

A: 7.93" B: 6.8" C: 8.02" D: 4.0" E: 6.5"




**Tube Diameter**

ID	Inch	MM
process	.255	6.5
suction	.325	8.3
discharge	.255	6.5

**Technical Specifications**

Rev 6-2013

Mechanical Data	English	Metric	Electrical Data	
Bore	.886 in	22.5 mm	<b>Motor:</b>	RSIR/CSIR
Stroke	.787 in	20 mm	2 pole - 1 phase	115v / 60 Hz
Displacement	.48 cu in	7.95 cc	Voltage	103-135v
Speed	3,500 rpm	3,500 rpm	Voltage range	2.15 Ω
Weight	23.6 lb	10.7 kg	Run winding resistance at 25° C	7.3 Ω
Oil Charge	9.47 oz.	280 ml	Start winding resistance at 25° C	33 amps
Oil type	Alkylbenzene	ISO32	Locked rotor current	4.1 amps
<b>Compressor Cooling:</b>			FLA: L/MBP-60Hz	4.9 amps
Static			FLA HBP-60Hz	
Fan Cooled by forced draft over shell with 6 watt minimum fan.				
<b>Restrictor:</b>			<b>Capacitor:</b>	
Capillary Tube			Start cap	189-227 mfd
			Run cap	N/A
				165V
				N/A

	<b>FF8.5BK</b>	LBP-MBP-HBP	<b>115 V</b>	<b>Blend</b>
<b>Specifications</b>			<b>Usage</b>	
Approximate H. P.	1/4		Drinking Water Coolers	
Starting Torque	Normal		Dehumidifiers	
Refrigerant	Blend		Ice Machines	
Evaporator Temperature	Low/Med/High		Reach In Refrigerators	
Evaporator Temperature	-31° to 59°F		Beer Coolers	

<b>LBP Performance</b>					
<b>Temperature °F</b>	-22	<b>-10</b>	5	14	32
<b>Capacity BTU/Hr</b>	597	<b>850</b>	1,231	1,528	2,297
<b>Power W</b>	181	<b>223</b>	276	311	381
<b>Current Amps</b>	2.85	<b>3.14</b>	3.19	3.38	3.89
<b>Temperature °C</b>	-30	<b>-23.3</b>	-15	-10	0
<b>Capacity Kcal/Hr</b>	150	<b>214</b>	310	385	579
<b>HBP Performance</b>					
<b>Temperature °F</b>	14	23	32	<b>45</b>	50
<b>Capacity BTU/Hr</b>	1,528	1,880	2,297	<b>3,080</b>	3,358
<b>Power W</b>	311	346	381	<b>435</b>	450
<b>Current Amps</b>	3.38	3.61	3.89	<b>4.48</b>	4.57
<b>Temperature °C</b>	-10	-5	0	<b>7.2</b>	10
<b>Capacity Kcal/Hr</b>	385	474	579	<b>776</b>	846
<b>LBP Rating</b>	<b>ASHRAE</b>	<b>Rating Point (bolded above)</b>	<b>HBP Rating</b>	<b>ASHRAE</b>	
Condensing	130°F		Condensing	130°F	
Evaporator	-10°F		Evaporator	45°F	
Return Gas	90°F		Return Gas	95°F	
Ambient	90°F		Ambient	95°F	
Liquid Temp.	90°F		Liquid Temp.	115°F	

<b>Material</b>	<b>Part number</b>	<b>Description</b>	<b>Compressor Cross Ref.</b>	
Compressor	513200271	FF8.5BK	Model	Appl.
Relay	513506783	For use on RSIR applications	AEA3430AXA	HBP, LST
Relay	513506791	For use on CSIR applications		
*Overload	13554007	MST26AIK-5590		
Start Cap	513556537	189-227 / 165v		
Grommet	2221003			
Sleeve	2222015			

\*Included in relay kit

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