

# MATSUSHITA Compressor

## MODEL# SD39C77JAU6 (10 $\mu$ F Run Cap.)

Single Phase  
R-134a

115 V  
60 Hz

**Voltage Range** . . . . . 103 Volts to 127 Volts @ 60 Hz  
**Application** . . . . . Low Back Pressure  
**Compressor Cooling** . . . . . Static Cooling

**Refrigerant Control** . . . . . Capillary Tube  
**Evaporator**  
**Temp. Range** . . . . . -31°F to 23°F / -35°C to -5°C

### Rated Performance Data

**Capacity** . . . . . 396 Btu/h  $\pm$ 10% \*  
**E.E.R.** . . . . . 4.13 Btu/Wh  $\pm$ 10% \*  
**Current** . . . . . 0.90 Amps \*

**Nominal Motor Data** Motor Input . . . . . 96 Watts\*  
 Rated Current . . . . . 0.90 Amps  
 Type . . . . . RSCR, PTC relay

**Locked Rotor** . . . . . 7.50 Amps  
**Start Current** . . . . . 12.99 Amps  
**Coil Resistances** Run . . . . . 5.06 Ohms  
 @ 68°F (20°C) Start . . . . . 10.78 Ohms

### \*Test Conditions for Performance Specifications

Test Oil . . . . . Freol  $\alpha$  22  
 Shell Temp . . . . . 170.0°F / 76.0°C  
 Condensing Temp . . . . . 130.0°F / 54.4°C  
 Evaporating Temp . . . . . -10.0°F / -23.3°C  
 Ambient Temp . . . . . 90.0°F / 32.2°C  
 Gas Superheat . . . . . 90.0°F / 32.2°C  
 Liquid Sub-Cooling . . . . . 90.0°F / 32.2°C

### Electrical Accessories

#### Overload Protector

Nominal Operating Characteristics

Model Name T135AH3-1  
 Manufacturer Matsushita  
 Temperature To . . . . . Open: 275°F  $\pm$  9°F / 135°C  $\pm$  5°C  
 Close: 176°F  $\pm$  27°F / 80°C  $\pm$  15°C  
 Trip Current . . . . . @212°F (100°C) 3.5 to 4.5 Amps  
 @77°F (25°C) 11.7 Amps @ 13 sec. max.

#### P.T.C. Starting Device<sup>†</sup>

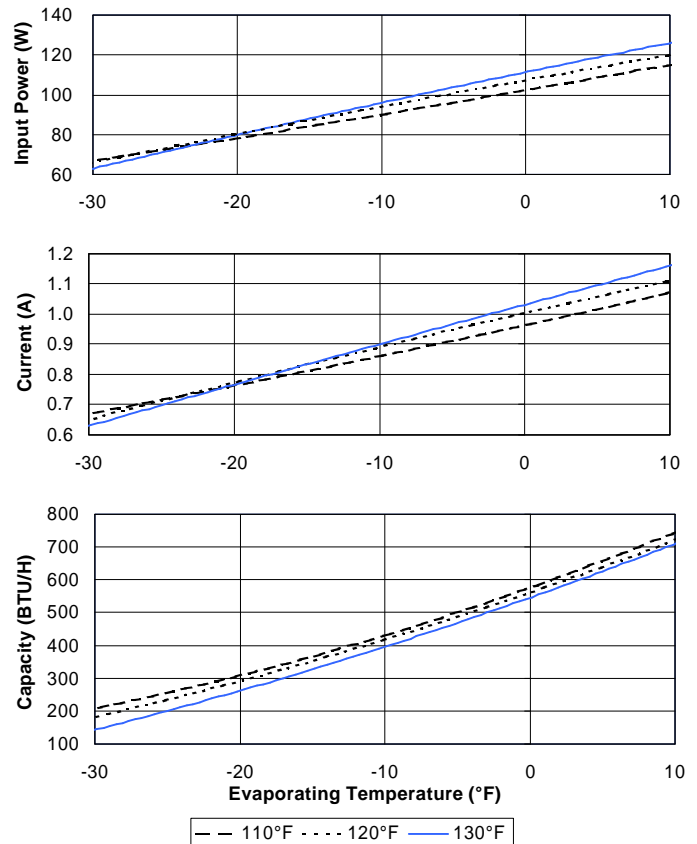
Nominal Operating Characteristics

Model Name	PTH490D-AS4R7	PTH7M4R7MD2	
Manufacturer	Murata Mfg.	Murata Mfg.	
Base resistance			
@ 77°F(25°C) $\pm$ 20%	4.7	4.7	Ohms
Power Consumption (max)	3.3	3.0	Watts
Operation time	1.3 to 3.0	0.7 to 2.2	seconds
Recovery time (max)	65	70	seconds

**Run Capacitor** 10  $\mu$ F 180 V (min.)

<sup>†</sup>Although these accessories are listed by UL/CSA for use with this compressor, Matsushita assumes no responsibility whatsoever for these or any other components sourced by the refrigeration system manufacturer from third parties.

### Performance Curves



### 9 - Point Data

Condensing Temp.	Rating	Evaporating Temp.		
		-30°F	-10°F	+10°F
130°F	Btu/h	143	396	710
	Watts	63	96	126
	Amps	0.63	0.90	1.16
	E.E.R.	2.27	4.13	5.63
120°F	Btu/h	181	417	720
	Watts	66	94	120
	Amps	0.65	0.89	1.11
	E.E.R.	2.74	4.44	6.00
110°F	Btu/h	208	430	744
	Watts	67	90	115
	Amps	0.67	0.86	1.07
	E.E.R.	3.10	4.78	6.47



**Panasonic Industrial Company**  
**Refrigeration Products Department**  
 Tel: 201 - 392 - 4249  
 Fax: 201 - 392 - 4315

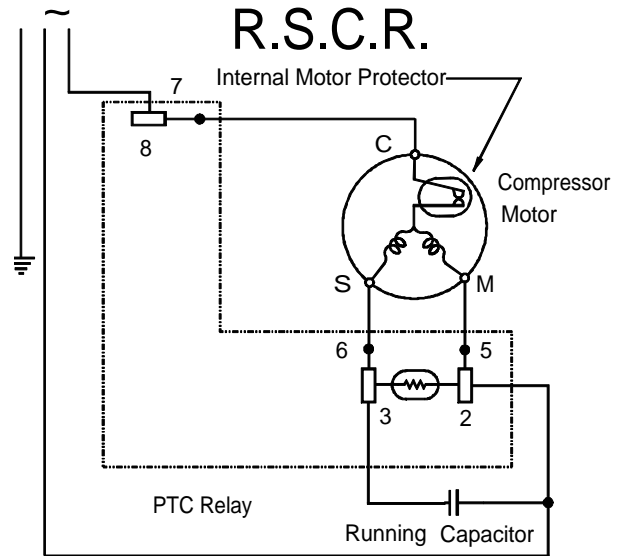
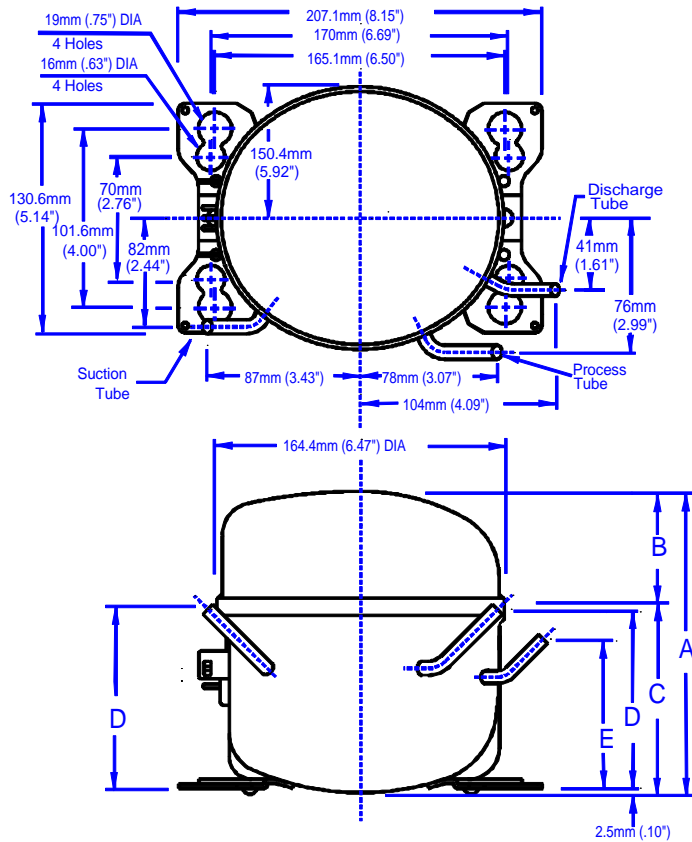
Rev#1-5/9

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### Dimensions\*

	mm	inches
<b>A</b>	172.1	6.78
<b>B</b>	60.9	2.40
<b>C</b>	111.2	4.38
<b>D</b>	102.0	4.02
<b>E</b>	85.0	3.35

\* All dimensions are for reference only

This document sets forth certain operational parameters and conditions for operation of this product. If this product is operated outside of the parameters and conditions stated herein, buyer assumes sole and full responsibility and shall indemnify seller with respect to all product failures and all consequences thereof. Operation of the product outside of the parameters and conditions specified herein shall serve to invalidate all seller warranties, if any, with respect to the product. This document is for reference only. For specifications, please contact Panasonic's engineering department.

Tubes	Tube O.D.	Wall	Material
Suction	0.33 in. / 8.3 mm	0.035 in. / 0.9 mm	Copper
Process	0.3125 in. / 7.94 mm	0.028 in. / 0.7 mm	Copper
Discharge	0.28 in. / 7.0 mm	0.041 in. / 1.05 mm	Copper

**U.L. File #** . . . . . SA 4615

**C.S.A. File #'s** . . . . . LR - 36593

General Data	Oil Charge	Net Weight With Oil	Approved Oils	Residual Moisture	Impurities	Displacement
	195 cc $\pm$ 5 cc / 11.9 cu.in. $\pm$ 0.3 cu.in.	16.3 lbs, 7.4 kg	FREOL $\alpha$ 22, FREOL $\alpha$ 22E	120 mg max.	7 mg max.	3.90 cc. / 0.238 cu. in.

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