

# MATSUSHITA Compressor

MODEL# QA91K22CAU6 (80 $\mu$ F Start Cap.)

Single Phase  
R-134a

115 V  
60 Hz

Voltage Range . . . . . 103 Volts to 127 Volts @ 60 Hz  
Application . . . . . High Back Pressure  
Compressor Cooling . . . . Fan Cooling

Refrigerant Control . . . Capillary Tube  
Evaporator  
Temp. Range . . . . . 23°F to 59°F / -5°C to 15°C

## Rated Performance Data

Capacity . . . . . 3,175 Btu/h  $\pm$ 10% \*  
E.E.R. . . . . 7.40 Btu/Wh  $\pm$ 10% \*  
Current . . . . . 4.85 Amps \*

Nominal Motor Data      Motor Input . . . . 429 Watts\*  
                                 Rated Current . . . 3.99 Amps  
                                 Type . . . . . CSIR, Current relay

Start Current . . . . . 23.1 Amps  
Coil Resistances          Run . . . . 1.41 Ohms  
@ 68°F (20°C)              Start . . . . 7.93 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 . . . . 45.0°F / 7.2°C  
Ambient Temp . . . . . 95.0°F / 35.0°C  
Gas Superheat . . . . . 95.0°F / 35.0°C  
Liquid Sub-Cooling . . . . 115.0°F / 46.1°C

## Electrical Accessories<sup>†</sup>

Overload Protector  
Nominal Operating Characteristics

Model Name                  MSP24ALZ  
Manufacturer                Texas Instruments  
Temperature To . . . . . Open: 248°F  $\pm$  9°F / 120°C  $\pm$  5°C  
                                 Close: 142°F  $\pm$  20°F / 61°C  $\pm$  11°C  
Trip Current . . . . . @ 158°F (70°C) 6.7 Amps  $\pm$  7.5%  
                                 @ 77°F (25°C) 17.5 Amps @ 18 sec. max.

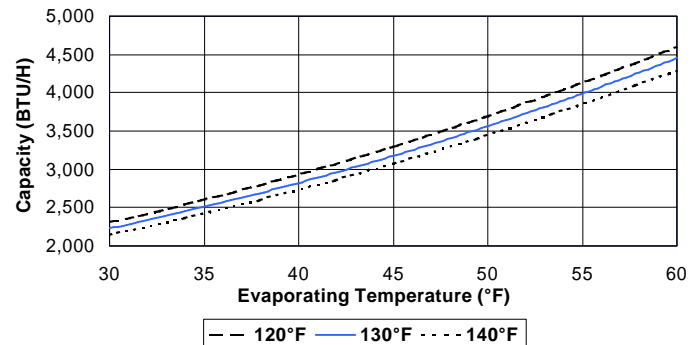
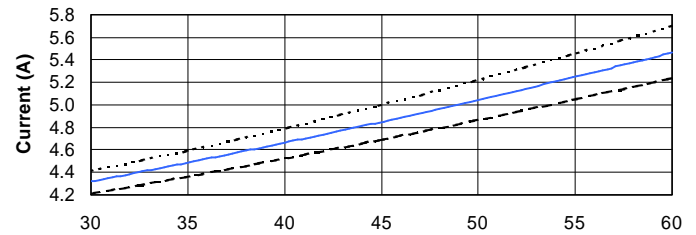
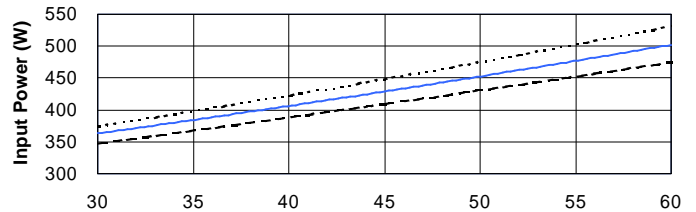
Current Relay Model  
Nominal Operating Characteristics

Model Name                  MM5-D2CH  
Manufacturer                Matsushita  
Pick Up Current              13.2 max.                  Amps  
Drop Out Current              11.1 max.                  Amps

Start Capacitor              80  $\mu$ F 160 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

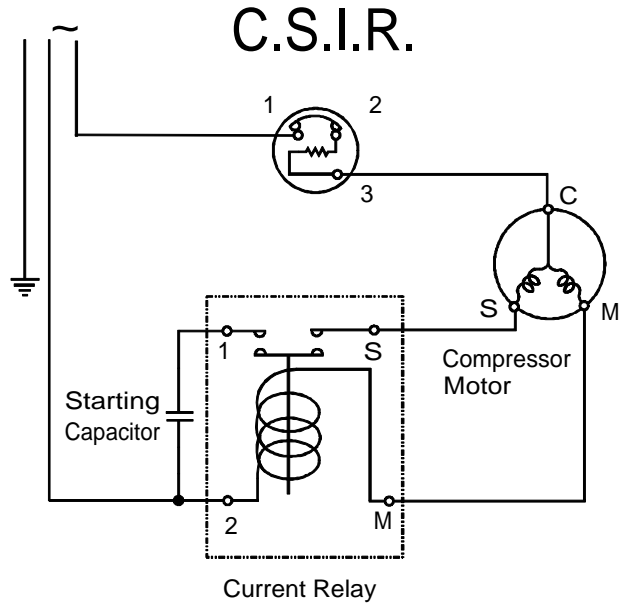
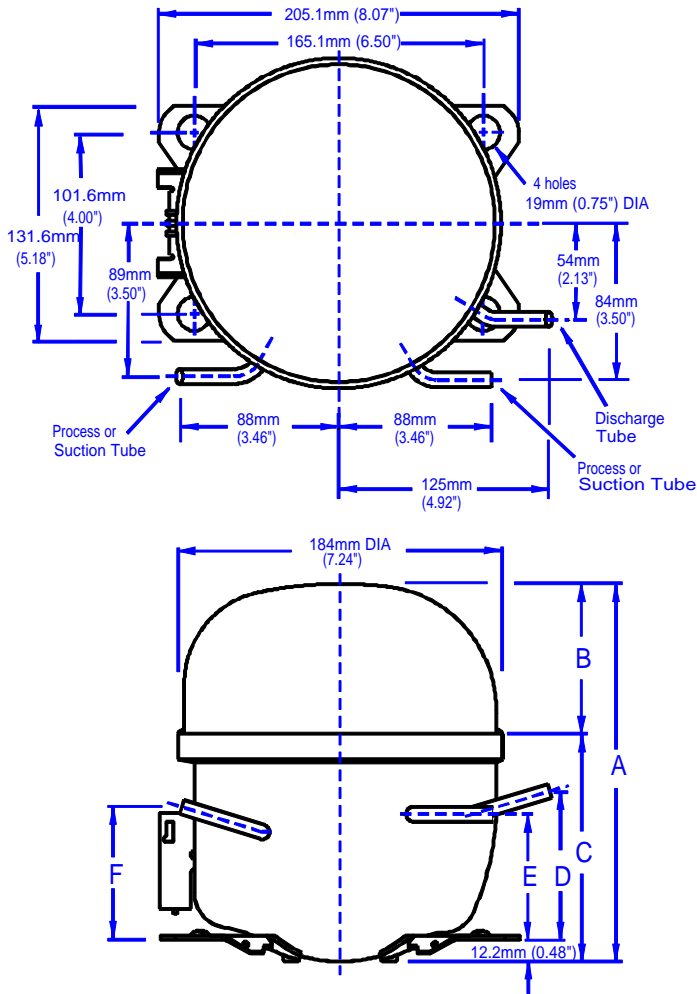
Condensing Temp.	Rating	Evaporating Temp.		
		+30°F	+45°F	+59°F
140°F	Btu/h	2,141	3,073	4,196
	Watts	374	448	525
	Amps	4.41	5.00	5.65
	E.E.R.	5.72	6.86	7.99
130°F	Btu/h	2,229	3,175	4,357
	Watts	363	429	497
	Amps	4.32	4.85	5.42
	E.E.R.	6.14	7.40	8.77
120°F	Btu/h	2,305	3,295	4,500
	Watts	347	409	470
	Amps	4.21	4.69	5.20
	E.E.R.	6.64	8.06	9.57

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## Dimensions\*

	mm	inches
A	208.6	8.21
B	92.8	3.65
C	115.8	4.56
D	77.0	3.03
E	62.2	2.45
F	77.0	3.03

\* 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	0.39 in. / 10 mm	0.035 in. / 0.9 mm	Copper
Process	0.39 in. / 10 mm	0.035 in. / 0.9 mm	Copper
Discharge	0.33 in. / 8.3 mm	0.035 in. / 0.9 mm	Copper

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

C.S.A. File #'s . . . . . LR - 34080

LR - 36593

LR - 100738

General Data	Oil Charge	Oil Charge
Oil Charge	250 cc $\pm$ 5 cc / 15.3 cu.in. $\pm$ 0.3 cu.in.	
Net Weight With Oil	21.4 lbs, 9.7 kg	
Approved Oils	FREOL $\alpha$ 22	
Residual Moisture	120 mg max.	
Impurities	10 mg max.	
Displacement	9.07 cc. / 0.553 cu. in.	

# Panasonic

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