

# SPECIFICATION OF MATSUSHITA COMPRESSOR

Model: **SB48C90RAU6**

**115V 60Hz**

No. : **SB048UERSA0A**

Application:  
Low back pressure  
Refrigerant:  
R134a (CF<sub>3</sub> CH<sub>2</sub>F)  
Design type:  
Reciprocating connecting rod  
Compressor cooling:  
Static cooling

Evaporating temp. range:  
-35 to -5 °C (-31 to 23 °F)  
Refrigerant control:  
Capillary tube  
Motor type:  
RSCR, PTC relay  
Voltage range:  
103 to 127V, 60Hz

Capacity *	W ±7%	133
	kcal/h ±7%	114
	Btu/h ±7%	454
Motor input *	W	114
Current *	A	1.01
C.O.P. *	±10%	1.17
E.E.R. *	Btu/Wh ±10%	3.98

**\*Test conditions**



Evaporating temp.:  
-23.3°C (-10°F)  
Condensing temp.:  
54.4°C (130°F)  
Ambient temp.:  
32.2°C (90°F)  
Gas superheated to:  
32.2°C (90°F)  
Liquid subcooled to:  
32.2°C (90°F)  
Comp. shell temp.:  
76°C (170°F)  
Power source:  
115V 60Hz  
Oil:  
VG22

Displacement	cm <sup>3</sup>	4.85
	in <sup>3</sup>	0.296
Oil charge	cm <sup>3</sup> ±5	195
	in <sup>3</sup> ±0.3	11.9
Weight (with oil)	kg	7.1
	lbs	15.6
Rated current	A	1.11
Starting current	A	14.7
Winding resistance M (T: 20°C 68°F)	ohm	4.08
	ohm	8.20
High potential test	V/s	1400
Residual moisture	mg max.	120
Impurities	mg max.	7

Approved oils:	FREOL	alpha22,22E
	ICI	RL22HNL, 22H

Motor protector model #1		4TM302MHBYY Texas Instruments	5TM302MHBYY Texas Instruments
Opening temperature	°C ±5	115	115
	°F ±9	239	239
Closing temperature	°C ±9	69	69
	°F ±16	156	156
Trip current (T: 70°C 158°F)	A ±7.5%	2.13	2.13
	A	10.5	10.5
Trip current (T: 25°C 77°F, t: 16 s max)	A	10.5	10.5
	A	10.5	10.5
PTC relay model #1		<b>7M4R7M</b> Murata Manufacturing co., Ltd.	
Resistance (T: 25°C 77°F)	ohm ±20%	4.7	
Power consumption	W max.	3.0	
Operating time	s	0.7 to 2.2	
Recovery time	s max.	70	
Starting capacitor #1		- microF. - V min.	
Running capacitor #1		15 microF. 180 V min.	

Note:  
#1: **Although these components have passed test for use with this compressor, Matsushita assumes no responsibility whatsoever for these or any other components sourced by the refrigerator manufacturer from third parties.**  
  
## Where tolerances are not indicated, data is shown for reference only.

DATE: Jan.10.2003	DATE: Jan.10.2003
 S.TAKAHASHI	 Y.MUKAI
APPROVED BY	PREPARED BY