

# SPECIFICATION OF PANASONIC COMPRESSOR

Model: **EEI68C13DCH**      **DC Motor**

No. : **EEI068H0YFB0A**

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

Evaporating temp. range:  
-35 °C to -5 °C (-31 °F to 23 °F)  
Refrigerant control:  
Capillary tube  
Motor type:  
Brushless D.C. motor  
Rated voltage at secondary side:  
Maximum 240Vrms

		27	29	52	
Capacity *	W	±5 %	<b>90</b>	<b>140</b>	<b>235</b>
	kcal/h	±5 %	77	120	202
	Btu/h	±5 %	307	478	802
Motor input *	W		<b>48.9</b>	<b>65.1</b>	<b>132</b>
Current *	A		<b>0.99</b>	<b>1.26</b>	<b>2.27</b>
C.O.P. *		±5 %	<b>1.84</b>	<b>2.15</b>	<b>1.78</b>
E.E.R. *	Btu/Wh	±5 %	<b>6.28</b>	<b>7.34</b>	<b>6.08</b>

**\*Test conditions**

(rps)	27	29	52
Evaporating temp.:	<b>-30.0°C (-22°F)</b>	<b>-23.3°C (-10°F)</b>	<b>-23.3°C (-10°F)</b>
Condensing temp.:	40.0°C (104°F)	40.6°C (105°F)	54.4°C (130°F)
Ambient temp.:	32.2°C (90°F)	32.2°C (90°F)	32.2°C (90°F)
Gas superheated to:	32.2°C (90°F)	32.2°C (90°F)	32.2°C (90°F)
Liquid subcooled to:	32.2°C (90°F)	32.2°C (90°F)	32.2°C (90°F)
Comp. shell temp.:	50°C (122°F)	50°C (122°F)	65°C (150°F)
Inverter board model	MCBE1UN / MCBE2UN		
Input voltage for inverter board :	115V 60Hz		
Oil :	VG 10		



Displacement	cm <sup>3</sup>		<b>6.80</b>
	in <sup>3</sup>		<b>0.415</b>
Oil charge	cm <sup>3</sup>	±5 cm <sup>3</sup>	<b>215</b>
	in <sup>3</sup>	±0.3 in <sup>3</sup>	<b>13.1</b>
Weight (with oil)	kg		<b>7.1</b>
	lbs		<b>15.6</b>
Motor voltage	rps		27      37
	V		<b>150</b> <b>172</b>
Motor current	A		<b>0.24</b> <b>0.24</b>
	Limit of demagnetizing current (T: -20°C -3°F)	A <sub>peak</sub>	<b>5.2</b>
Winding resistance U-W (T: 20°C 68°F)	ohm	±5 %	<b>12.4</b>
	ohm	±5 %	<b>12.4</b>
	ohm	±5 %	<b>12.4</b>
Operating Speed Range	rps		<b>20 to 72</b>
Prohibited Speed Range	rps		<b>45 to 49</b>
High potential test	V/s		<b>1800</b>
Residual moisture	mg max.		<b>120</b>
Impurities	mg max.		<b>10</b>

Approved oils:  
**FREOL Alpha10, 10E**

Note:  
  
#1: **Although these components have passed test for use with this compressor, Panasonic 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.

Motor protector model #1		<b>MM3-71CC</b>	
Opening temperature	°C	±5 °C	<b>100</b>
	°F	±9 °F	<b>212</b>
Closing temperature	°C	±8 °C	<b>61</b>
	°F	±15 °F	<b>142</b>
Trip current (T: 70°C 158°F)	A	±7.5 %	<b>7.1</b>
	A		<b>17</b>

Inverter Board	Type	<b>3 phase full bridge PWM inverter</b>
Made by Panasonic Corporation		<b>MCBE1UN / MCBE2UN</b>

DATE: Jan.28.2014	DATE: Jan.28.2014
 A. TERASAKI APPROVED BY	 KM. SIM PREPARED BY

# SPECIFICATION OF PANASONIC COMPRESSOR

Model: **EEI76C13DCH**      **DC Motor**

No. : **EEI076H0YFB0A**

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

Evaporating temp. range:  
-35 °C to -5 °C (-31 °F to 23 °F)  
Refrigerant control:  
Capillary tube  
Motor type:  
Brushless D.C. motor  
Rated voltage at secondary side:  
Maximum 240Vrms

rps		27	29	52
Capacity *	W ±5 %	103	159	266
	kcal/h ±5 %	89	137	229
	Btu/h ±5 %	352	543	908
Motor input *	W	55.1	72.6	149.4
Current *	A	1.09	1.38	2.56
C.O.P. *	±5 %	1.87	2.19	1.78
E.E.R. *	Btu/Wh ±5 %	6.38	7.48	6.08

**\*Test conditions**

(rps)	27	29	52
Evaporating temp.:	-30.0°C (-22°F)	-23.3°C (-10°F)	-23.3°C (-10°F)
Condensing temp.:	40.0°C (104°F)	40.6°C (105°F)	54.4°C (130°F)
Ambient temp.:	32.2°C (90°F)	32.2°C (90°F)	32.2°C (90°F)
Gas superheated to:	32.2°C (90°F)	32.2°C (90°F)	32.2°C (90°F)
Liquid subcooled to:	32.2°C (90°F)	32.2°C (90°F)	32.2°C (90°F)
Comp. shell temp.:	50°C (122°F)	50°C (122°F)	65°C (150°F)
Inverter board model	MCBE1UN / MCBE2UN		
Input voltage for inverter board :	115V 60Hz		
Oil :	VG 10		

Displacement	cm <sup>3</sup>	7.60	
	in <sup>3</sup>	0.464	
Oil charge	cm <sup>3</sup> ±5 cm <sup>3</sup>	215	
	in <sup>3</sup> ±0.3 in <sup>3</sup>	13.1	
Weight (with oil)	kg	7.1	
	lbs	15.6	
Motor voltage	rps	27	37
	V	146	168
Motor current	A	0.25	0.25
Limit of demagnetizing current (T: -20°C -3°F)	A <sub>peak</sub>	5.2	
Winding resistance U-W (T: 20°C 68°F)	ohm ±5 %	12.4	
	ohm ±5 %	12.4	
	ohm ±5 %	12.4	
Operating Speed Range	rps	20 to 72	
Prohibited Speed Range	rps	45 to 49	
High potential test	V/s	1800	
Residual moisture	mg max.	120	
Impurities	mg max.	10	

Approved oils:

FREOL Alpha10, 10E

Note:

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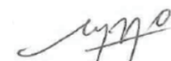
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Motor protector model #1		<b>MM3-71CC</b>
Opening temperature	°C ±5 °C	100
	°F ±9 °F	212
Closing temperature	°C ±8 °C	61
	°F ±15 °F	142
Trip current (T: 70°C 158°F)	A ±7.5 %	7.1
Trip current (T: 25°C 77°F, t: 16 s max)	A	17
Inverter Board Type		<b>3 phase full bridge PWM inverter</b>
Made by Panasonic Corporation		<b>MCBE1UN / MCBE2UN</b>

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