

SPECIFICATION OF PANASONIC COMPRESSOR

Model: **ENI57C13DGH DC Motor**

No. : **EN057H0YFC0C**

Application:
Low back pressure
Refrigerant:
R134a (CF₃ CH₂F)
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 | 52 |
|---------------|-------------|------|------|
| Capacity * | W ±5 % | 68.5 | 173 |
| | kcal/h ±5 % | 59 | 149 |
| | Btu/h ±5 % | 234 | 591 |
| Motor input * | W | 39.8 | 102 |
| Current * | A | 0.82 | 1.87 |
| C.O.P. * | ±5 % | 1.72 | 1.69 |
| E.E.R. * | Btu/Wh ±5 % | 5.88 | 5.79 |

***Test conditions**

| | (rps) | 27 | 52 |
|------------------------------------|--|-----------------|-----------------|
| Evaporating temp.: | | -30.0°C (-22°F) | -23.3°C (-10°F) |
| Condensing temp.: | | 40.0°C (104°F) | 54.4°C (130°F) |
| Ambient temp.: | | 32.2°C (90°F) | 32.2°C (90°F) |
| Gas superheated to: | | 32.2°C (90°F) | 32.2°C (90°F) |
| Liquid subcooled to: | | 32.2°C (90°F) | 32.2°C (90°F) |
| Comp. shell temp.: | | 50°C (122°F) | 65°C (150°F) |
| Inverter board model | '06 Compact Global Board (Provisional Name) | | |
| Input voltage for inverter board : | 115V 60Hz | | |
| Oil : | VG 10 | | |

| | | | |
|-----------------------------------|--------------------------------------|----------|----------|
| Displacement | cm ³ | 5.65 | |
| | in ³ | 0.345 | |
| Oil charge | cm ³ ±5 cm ³ | 215 | |
| | in ³ ±0.3 in ³ | 13.1 | |
| Weight (with oil) | kg | 7.1 | |
| | lbs | 15.6 | |
| Motor voltage | rps | 27 | 37 |
| | V | 137 | 157 |
| Motor current | A | 0.30 | 0.30 |
| | U-W ohm ±5 % | 8.44 | |
| Winding resistance (T: 20°C 68°F) | U-V ohm ±5 % | 8.44 | |
| | V-W ohm ±5 % | 8.44 | |
| | Operating Speed Range | rps | 20 to 72 |
| Prohibited Speed Range | rps | 44 to 47 | |
| High potential test | V/s | 1800 | |
| Residual moisture | mg max. | 120 | |
| Impurities | mg max. | 10 | |

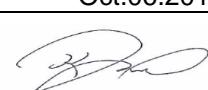
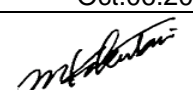
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|----------------|---------------------|
| Approved oils: | |
| FREOL | Alpha 10, Alpha 10E |
| EMKARATE | RL10H, RL10HLN |
| SUNISO | SL10SC, SL10S |

| | | |
|--|-----------|-----------------|
| Motor protector model | | MM3-71CC |
| #1 | | |
| 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 |
| | A | 17.0 |
| Trip current (T: 25°C 77°F, t: 16 s max) | A | |

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.

| | | |
|-------------------------------|------|--|
| Inverter Board | Type | 3 phase full bridge PWM inverter |
| Made by Panasonic Corporation | | '06 Compact Global Board (Provisional Name) |

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| DATE: Oct.06.2010 | DATE: Oct.06.2010 |
|  K. MASUDA APPROVED BY |  M.KAKUTANI PREPARED BY |