

# Donper L65CZ1 Compressor Specs and Replacements

Category: Refrigeration

written by [www.mbsm.pro](http://www.mbsm.pro) | 20 February 2026



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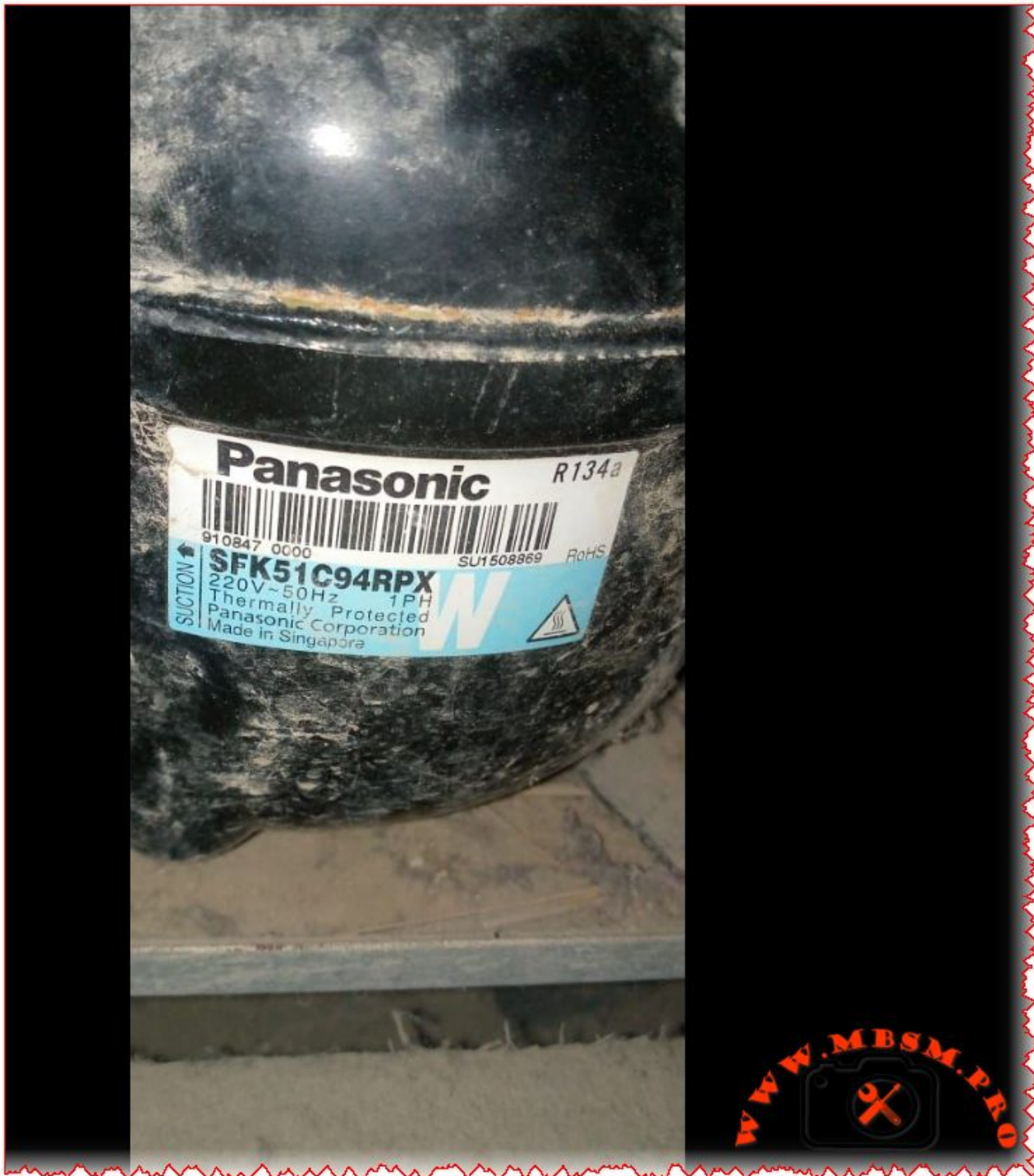
The Donper L65CZ1 is a reliable 1/5 HP compressor designed for R134a LBP systems, commonly found in domestic refrigerators and freezers up to 280L capacity. This guide provides the full technical data sheet, including cooling capacity (158-170W at ASHRAE), oil requirements (280-320ml), and a comprehensive list of compatible replacements for both R134a and modern alternative refrigerants to ensure your repair is successful.

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## Panasonic SFK51C94RPX Compressor Specs and Replacements

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The Panasonic SFK51C94RPX is a reliable 1/6 HP compressor designed for R134a LBP systems, commonly found in domestic refrigerators and freezers up to 250L capacity. This guide provides the full technical data sheet, including cooling capacity (157W at ASHRAE), oil requirements (280-320ml), and a comprehensive list of compatible replacements for both R134a and modern alternative refrigerants to ensure your repair is successful.

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## Panasonic QB66C13GAX5 Compressor

# Specs and Replacements

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The Panasonic QB66C13GAX5 is a reliable 1/5 HP compressor designed for R134a LBP systems, commonly found in domestic refrigerators and freezers up to 250L capacity. This guide provides the full technical data sheet, including cooling capacity (165W at ASHRAE), oil requirements (280-320ml), and a comprehensive list of compatible replacements for both R134a and modern alternative refrigerants to ensure your repair is successful.

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# Tecumseh THG1374YFS Compressor Specs and Replacements

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The Tecumseh THG1374YFS (TH271-FS-316) is a reliable 1/4 HP compressor designed for R134a LBP systems, commonly found in domestic refrigerators and small freezers. This guide provides the full technical data sheet, including cooling capacity in Watts and BTU, oil requirements (243ml POE), and a comprehensive list of compatible replacements for both R134a and modern alternative

refrigerants to ensure your repair is successful.

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## Compressor Mk183g-l2u

Category: compressor

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Mbsm.pro, Compressor, Samsung, mk183g-l2u, series MK, 1/3 hp, 236 w, Lbp, 203 KCL, 806 BTU, r134a, 3.8 cc, 220-240V ~ 50Hz, Low Back Pressure, compressor static without fan, PTC-RSCR (Optional RSIR)

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## DG77C16GAX5 compressor 0.25 hp

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Mbsm.pro, Compressor, DG77C16GAX5, 1/5 hp++, 1/4 hp-, 225 w, Low Back Pressure, Refrigerant: R134a

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Mbsm.pro, Compressor, Tecumseh,  
TPG1390YMR, 805 btu/h, 236w, 1/3hp,  
LBP, Low Back Pressure, R134a,  
208-230V ~ 60Hz, 220-240V ~ 50Hz,

# Reciprocating Compressor, TP143-MR-232-B8

Category: Archivation,compressor  
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Mbsm.pro, Compressor, Tecumseh, TPG1390YMR, 805 btu/h, 236w, 1/3hp, LBP, Low Back Pressure, R134a, 208-230V ~ 60Hz, 220-240V ~ 50Hz, Reciprocating Compressor, TP143-MR-232-B8

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# Compressor, Zanussi, HLY80AA, 1/7Hp, 220-240V 50Hz ~1, R600a, ZEM, Low Back Pressure, RSIR

Category: compressor

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Technical Data Sheet

Compressor model HLY80AAa

Voltage 220-240V 50Hz ~1

Refrigerant R600a

APPLICATION COMPRESSOR MOTOR

Application Low Back Pressure Displacement 8,10 cm<sup>3</sup> Nominal Power 1/7 hp

Refrigerant R600a Diameter 24,29 mm Voltage/Frequency 220-240V 50Hz  
Evaporating Temp. -35,0 °C to -10,0 °C Stroke 17,47 mm Voltage range 187-264 V  
Expansion Capillar Net Weight 9,45 Kg Type RSIR  
Comp. Cooling Static Oil type ISO VG 10 MINER Phase number 1 PH  
Max. ambient temp. 43,0 °C Oil charge 205 cm<sup>3</sup> Locked Rotor Amps (LRA) 8,60 A  
Max. Cont. Current (MCC) 1,00 A  
Main W. resist. at 25°C 22,02 Ω  
Start W. resist. at 25°C 22,53 Ω

#### NOMINAL PERFORMANCE

##### ASHRAE CECOMAF

Cooling Capacity 113 kCal/h 99 W  
COP 1,41 W/W 1,11 W/W  
EER 1,22 kCal/Wh 0,96 kCal/Wh  
Input Power 93 W 89 W  
Current 0,62 A 0,60 A

#### TEST CYCLE CONDITIONS

##### ASHRAE CECOMAF

LBP (B) LBP (A)

Evaporating temp. -23,3 °C -25,0 °C  
Condensing temp. 55,0 °C 55,0 °C  
Liquid temp. 32,0 °C 55,0 °C  
Ambient temp. 32,0 °C 32,0 °C  
Suction temp. 32,0 °C 32,0 °C  
Voltage/Frequency 220 V 50 Hz 220 V 50 Hz

#### ELECTRICAL COMPONENTS

Relay Option 1

Reference PTC K100

Voltage 200-240 V

Resistance 14.00 Ω

Protector Option 1 Option 2 Option 3 Option 4

Reference MSP318LZ 4TM189NFBYY T0462 AE37FJ

Current 5,90 A 5,50 A 6,20 A 5,90 A

Time check 7,5-14 seg 5-15 seg 7,5-14 seg 7,5-14 seg

Disc temp. (Open/Close) 120,00 / 61,00 °C 120,00 / 61,00 °C 110,00 / 62,00 °C  
115,00 / 62,00 °C

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# Kulthorn, compressor, Kulthorn compressor, c-qn76l6f, c-qn76l6f-l, 1/10 Hp, 1Ph, Serie C-q, R134a, 76 watt, Low back pressure, 200-220V/50hz, 220v/60hz, Compressor modéfier

Category: compressor

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Kulthorn, compressor, Kulthorn compressor, c-qn76l6f, 1/10 Hp, 1Ph, Serie C-q, R134a, 76 watt, Low back pressure, 200-220V/50hz, 220v/60hz, Compressor modéfier Compressor Motor Protectors

Each compressor incorporates a motor protection device or system. Generally, the larger the compressor, the more sophisticated the motor protector.

It is essential that an electric motor is protected against conditions that could

otherwise result in damage to the motor or to the electrical supply system. For this

reason, every Kulthorn compressor is supplied with a motor protector, sometimes referred

to as an overload. The more expensive the compressor, the greater is the economic justification for specifying a motor protector that has the ability to protect over a wider range of conditions.

#### 1. External Motor Protectors

A smaller compressor (such as an AZ, AE or WJ) is fitted with an external motor protector. Most commonly, this is a compact, cylindrical device that contains a snapaction bimetallic disc. The protector is mounted in contact with the surface of the compressor housing, inside the terminal guard.

The compressor current passes through the bimetallic disc. The resistance of this disc causes the disc temperature to increase as the motor current increases. There is usually

a small heater, located under the disc and connected in series with the disc itself. This

heater further raises the temperature of the disc. There is also the impact of the

compressor shell temperature, and a hot compressor will further increase the disc

temperature. The temperature of the disc is thus influenced by the combined effects of –

- the compressor motor current
- the compressor shell temperature

When the bimetallic disc reaches a predetermined temperature (often either 105°C or

120°C) the disc will snap open, and power supply to the compressor will be interrupted.

The compressor will cool, and at a reduced disc temperature the protector will reset

and the compressor will restart, or attempt to restart. If the abnormal condition that

caused the protector to trip in the first place still exists, the compressor is likely to continue

to cycle on the overload until that condition is corrected.

There are two situations where a motor protector is expected to operate.

2. When the compressor is running under extreme conditions.

3. When the compressor is in a locked rotor condition. This is a situation where the

compressor cannot start because the voltage is too low, the system pressures are

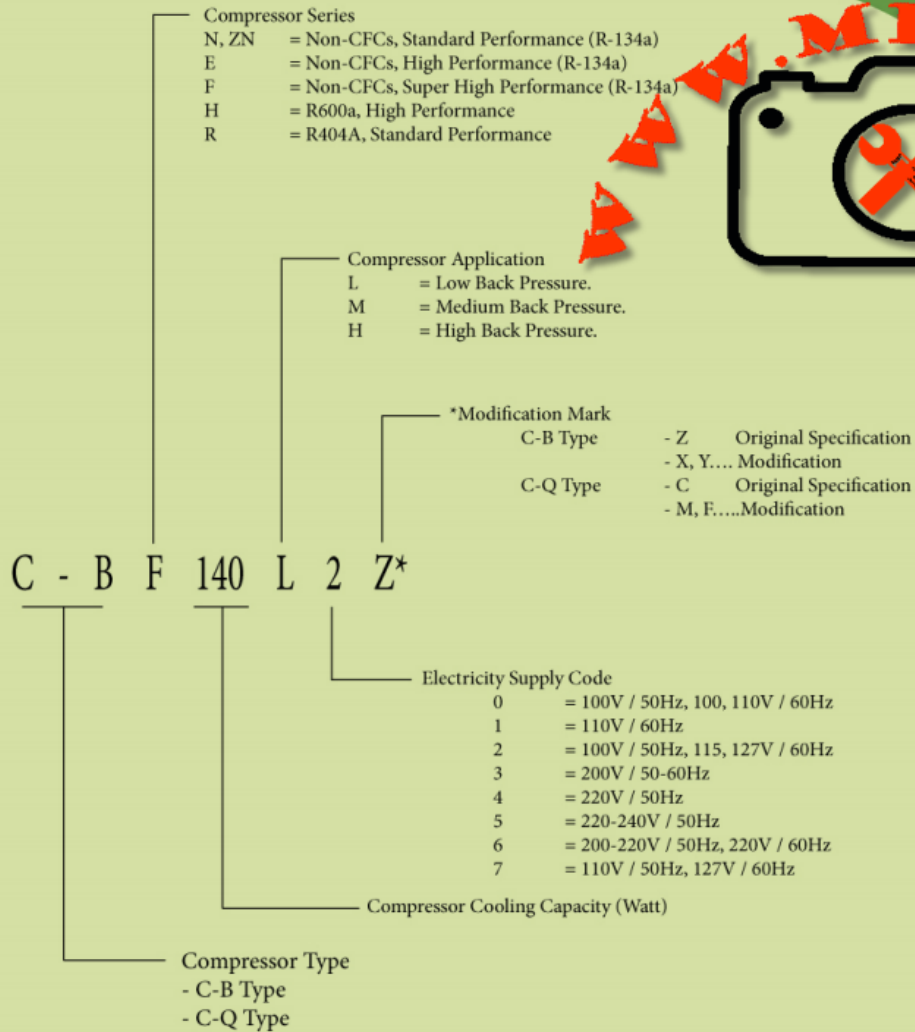
outside the range for which the compressor is approved, there is internal damage to

the compressor, or there is some other reason why the compressor is incapable of

starting



## Model Number System



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# KULTHORN

## COMPRESSOR

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Name: Kulthorn Premier Company Limited (KPC)  
Established: December 1982  
Registered Capital: Baht 1,125 Million  
Address: 446/3 Moo 9 Chachoengsao – Nakornratchasima Road,  
Kabinburi Industrial Estate, Nongki, Kabinburi, Prachinburi 25160, Thailand  
Telephone: (037) 204835, 455516  
Fax: (037) 455525, 204844  
E-mail: sales\_kpc@kulthorn.com  
kamjorn@kulthorn.com  
Employees: 900 persons  
Land area: 91 rai (145,600 m<sup>2</sup>)  
Building of area: 41,500 m<sup>2</sup>  
Business Products: Hermetic Reciprocating Compressor (Scotch Yoke Mechanism)  
(Product under license SANYO Japan) Size 30-250 Watt.

**Compressor series / Refrigerant**

C-BN, C-BZN, C-BE, C-BF / R-134a  
C-QN / R-134a  
C-BH / R-600a  
C-BR / R-404A

Shareholder: Kulthorn Kirby Public Company Limited 100%  
Customers: **Domestic** – Haier, Sanyo, Toshiba, Hitachi, Daewoo, Samsung, Sanden, etc.  
**Total = 35%**  
**Export** – Daewoo, Sanyo Group, GE, Sanden, Haier, Singer, Videocon,  
Toshiba, etc.  
**Total = 65%**

Quality System: ISO 9001:2000 Certified by TUV Nord Year 2003  
Q-Mark Certified by F.T.I. Year 2007



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Sangchai refrigeration, Fl series, Rl series, Cl series, Hitachi Compressor, FL1675-sc, 1/5 Hp, R-134A, Low back pressure, 160 w, Displacement 7.5 cm cube, 220-240 v 50 hz

Category: compressor

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**Hitachi Hermetic Compressors**

**FL Series**

**STANDARD MODEL**

Application & Refrigerant LBP R134a

| Model  | Nominal Power |     | F  | Cooling Capacity |     |        | D    | Cooling |     |   | O   | Wg   | Motor Type | Power Source |     |     |    |   | Dimension |
|--------|---------------|-----|----|------------------|-----|--------|------|---------|-----|---|-----|------|------------|--------------|-----|-----|----|---|-----------|
|        | HP            | W   |    | Hz               | W   | Kcal/h |      | BTU/h   | cm3 | N |     |      |            | Oil          | Fan | cm3 | Kg | 1 |           |
|        |               |     |    |                  |     |        |      |         |     |   |     |      |            | H            | P   | R   | S  | T | Type - H  |
| FL0634 | 1/12          | 65  | 50 | 78               | 67  | 266    | 3.42 |         |     |   | 200 | 6.8  |            | •            |     |     |    | • | Type1-165 |
|        |               |     | 60 | 90               | 77  | 307    |      |         |     |   |     |      |            | •            |     |     |    |   |           |
| FL0739 | 1/10          | 75  | 50 | 95               | 82  | 324    | 3.94 |         |     |   | 270 | 7.8  |            | •            |     |     |    | • | Type1-179 |
|        |               |     | 60 | 108              | 93  | 368    |      |         |     |   |     |      |            | •            |     |     |    |   |           |
| FL0845 | 1/8           | 85  | 50 | 105              | 90  | 358    | 4.50 |         |     |   | 270 | 8.1  | RSIR       | •            |     |     |    | • | Type1-179 |
|        |               |     | 60 | 118              | 101 | 403    |      |         |     |   |     |      |            | •            |     |     |    |   |           |
| FL1052 | 1/6           | 100 | 50 | 120              | 103 | 409    | 5.19 | •       |     |   | 270 | 8.3  | CSIR       | •            |     |     |    | • | Type2-180 |
|        |               |     | 60 | 140              | 120 | 478    |      |         |     |   |     |      |            | •            |     |     |    |   |           |
| FL1157 | 1/6           | 110 | 50 | 135              | 116 | 461    | 5.70 |         |     |   | 240 | 8.7  |            | •            |     |     |    | • | Type1-195 |
|        |               |     | 60 | 158              | 136 | 539    |      |         |     |   |     |      |            | •            |     |     |    |   |           |
| FL1262 | 1/5           | 125 | 50 | 150              | 129 | 512    | 6.23 | •       |     |   | 320 | 9.5  |            | •            |     |     |    | • | Type2-200 |
|        |               |     | 60 | 170              | 146 | 580    |      |         |     |   |     |      |            | •            |     |     |    |   |           |
| FL1675 | 1/5           | 160 | 50 | 185              | 159 | 631    | 7.47 |         | •   | • | 300 | 10.6 |            | •            |     |     |    | • | Type3-211 |
|        |               |     | 60 | 210              | 181 | 717    |      |         |     |   |     |      |            | •            |     |     |    |   |           |
| FL1888 | 1/4           | 180 | 50 | 215              | 185 | 734    | 8.83 |         | •   | • | 300 | 11.1 |            | •            |     |     |    | • | Type4-216 |
|        |               |     | 60 | 250              | 215 | 853    |      |         |     |   |     |      |            | •            |     |     |    |   |           |

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Sangchai refrigeration, Fl series, Rl series, Cl series, Hitachi Compressor, FL1675-sc, 1/5 Hp, R-134A, Low back pressure, 160 w, Displacement 7.5, 220-240 v 50 hz

**Hitachi Hermetic Compressors**

**FL Series**

**STANDARD MODEL**

Application & Refrigerant LBP R134a

| Model  | Nominal Power |     | F  | Cooling Capacity |     |        | D    | Cooling |     |   | O   | Wg   | Motor Type | Power Source |     |     |    |   | Dimension |
|--------|---------------|-----|----|------------------|-----|--------|------|---------|-----|---|-----|------|------------|--------------|-----|-----|----|---|-----------|
|        | HP            | W   |    | Hz               | W   | Kcal/h |      | BTU/h   | cm3 | N |     |      |            | Oil          | Fan | cm3 | Kg | 1 |           |
|        |               |     |    |                  |     |        |      |         |     |   |     |      |            | H            | P   | R   | S  | T | Type - H  |
| FL0634 | 1/12          | 65  | 50 | 78               | 67  | 266    | 3.42 |         |     |   | 200 | 6.8  |            | •            |     |     |    | • | Type1-165 |
|        |               |     | 60 | 90               | 77  | 307    |      |         |     |   |     |      |            | •            |     |     |    |   |           |
| FL0739 | 1/10          | 75  | 50 | 95               | 82  | 324    | 3.94 |         |     |   | 270 | 7.8  |            | •            |     |     |    | • | Type1-179 |
|        |               |     | 60 | 108              | 93  | 368    |      |         |     |   |     |      |            | •            |     |     |    |   |           |
| FL0845 | 1/8           | 85  | 50 | 105              | 90  | 358    | 4.50 |         |     |   | 270 | 8.1  | RSIR       | •            |     |     |    | • | Type1-179 |
|        |               |     | 60 | 118              | 101 | 403    |      |         |     |   |     |      |            | •            |     |     |    |   |           |
| FL1052 | 1/6           | 100 | 50 | 120              | 103 | 409    | 5.19 | •       |     |   | 270 | 8.3  | CSIR       | •            |     |     |    | • | Type2-180 |
|        |               |     | 60 | 140              | 120 | 478    |      |         |     |   |     |      |            | •            |     |     |    |   |           |
| FL1157 | 1/6           | 110 | 50 | 135              | 116 | 461    | 5.70 |         |     |   | 240 | 8.7  |            | •            |     |     |    | • | Type1-195 |
|        |               |     | 60 | 158              | 136 | 539    |      |         |     |   |     |      |            | •            |     |     |    |   |           |
| FL1262 | 1/5           | 125 | 50 | 150              | 129 | 512    | 6.23 | •       |     |   | 320 | 9.5  |            | •            |     |     |    | • | Type2-200 |
|        |               |     | 60 | 170              | 146 | 580    |      |         |     |   |     |      |            | •            |     |     |    |   |           |
| FL1675 | 1/5           | 160 | 50 | 185              | 159 | 631    | 7.47 |         | •   | • | 300 | 10.6 |            | •            |     |     |    | • | Type3-211 |
|        |               |     | 60 | 210              | 181 | 717    |      |         |     |   |     |      |            | •            |     |     |    |   |           |
| FL1888 | 1/4           | 180 | 50 | 215              | 185 | 734    | 8.83 |         | •   | • | 300 | 11.1 |            | •            |     |     |    | • | Type4-216 |
|        |               |     | 60 | 250              | 215 | 853    |      |         |     |   |     |      |            | •            |     |     |    |   |           |

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### Detail of Label

**F L 14 62 - S B**

**Series name/Refrigerant**

- F =R134a
- R =R404A
- C =R600a

**Application category**

- L = Low back pressure
- H = High back pressure

**Development**

- A = With oil charge
- T = With out oil charge

| Nominal power (Out. psat) |           |      |           |
|---------------------------|-----------|------|-----------|
| Sign                      | Output(W) | Sign | Output(W) |
| 04                        | 45        | 15   | 150       |
| 05                        | 55        | 16   | 160       |
| 06                        | 65        | 17   | 170       |
| 07                        | 75        | 18   | 180       |
| 08                        | 85        | 20   | 200       |
| 10                        | 100       | 25   | 250       |
| 11                        | 110       | 35   | 350       |
| 12                        | 125       | 40   | 400       |
| 14                        | 140       | 45   | 450       |

| Nominal voltages / Power source |                         |      |                         |
|---------------------------------|-------------------------|------|-------------------------|
| Sign                            | Phase/voltage/frequency | Sign | Phase/voltage/frequency |
| H                               | 1Ø 100 V 50/60 Hz       | S    | 1Ø 220 ~ 240 V 50 Hz    |
| P                               | 1Ø 110 V 120 V 60 Hz    | D    | 1Ø 100 V 50/60 Hz       |
| U                               | 1Ø 127 V 60 Hz          | T    | 3Ø 200 V 50/60 Hz       |
| R                               | 1Ø 200 ~ 220 V 60 Hz    |      |                         |

| Displacement |                                |      |                                |
|--------------|--------------------------------|------|--------------------------------|
| Sign         | Displacement(Cm <sup>3</sup> ) | Sign | Displacement(Cm <sup>3</sup> ) |
| 24           | 2.4                            | 62   | 6.2                            |
| 26           | 2.6                            | 66   | 6.6                            |
| 34           | 3.4                            | 75   | 7.5                            |
| 39           | 3.9                            | 86   | 8.6                            |
| 45           | 4.5                            | 97   | 9.7                            |
| 52           | 5.2                            | 11   | 11.0                           |
| 57           | 5.7                            |      |                                |

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