

# 3DRHF46KE-TFC



HFC, R-507, Mid Point, 60 Hz, 3 - Phase, 208/230 V

Low Temp, Low Condensing

**Production Status:** Available for sale to all U.S. customers. Please check with your local Emerson Climate Technologies representative for international availability.

## Performance

|                              |                 |         |
|------------------------------|-----------------|---------|
| Evap(°F)/Cond(°F)            | -25/105         | -40/105 |
| RG(°F)/Liq(°F)               | 65/105          | 65/105  |
| Capacity (Btu/hr):           | 47300           | 30300   |
| Power (Watts):               | 8750            | 6700    |
| Current (Amps):              | 27.4            | 22.8    |
| EER (Btu/Wh):                | 5.4             | 4.5     |
| Mass Flow (lbs/hr):          | 875.0           | 550.0   |
| Sound Power(dBA):            | 0 Ave 0 Max     |         |
| Vibration (mils(peak-peak)): | 0.0 Ave 0.0 Max |         |
| Record Date:                 | 2006-07-05      |         |

## Mechanical

|                                                                                     |             |                       |          |
|-------------------------------------------------------------------------------------|-------------|-----------------------|----------|
| Number of Cylinders:                                                                | 3           | Displ (in^3/Rev):     | 35.012   |
| Bore Size (in):                                                                     | 2.438       | Displ (ft^3/hr):      | 2127.413 |
| Stroke (in):                                                                        | 2.5         |                       |          |
| Overall Length (in):                                                                | 26.78       | Mounting Length (in): | 15.0     |
| Overall Width (in):                                                                 | 15.06       | Mounting Width(in):   | 12.0     |
| Overall Height (in):                                                                | 21.31       | Mounting Height (in): | 22.34*   |
| Suction Size (in):                                                                  | 1 3/8 Sweat |                       |          |
| Discharge Size (in):                                                                | 1 1/8 Sweat |                       |          |
| Initial Oil Charge (oz):                                                            | 125         |                       |          |
| Oil Recharge (oz):                                                                  | 115         |                       |          |
| Net Weight (lbs):                                                                   | 385.0       |                       |          |
| Internal Free Volume (in^3):                                                        |             |                       |          |
| HorsePower                                                                          | 7.0         |                       |          |
| * Overall compressor height on Copeland Brand Product's specified mounting brackets |             |                       |          |

## Electrical

|                                                                                                 |       |                        |      |               |             |
|-------------------------------------------------------------------------------------------------|-------|------------------------|------|---------------|-------------|
| LRA-High*:                                                                                      | 215.0 | MCC (Amps):            | 58.0 | UL File No.:  | SA-2337     |
| LRA-Half Winding:                                                                               |       | RPM:                   |      | UL File Date: | 26-Jul-1985 |
| LRA-Low*:                                                                                       |       | Max Operating Current: |      |               |             |
| RLA(=MCC/1.4; use for contactor selection):                                                     | 41.4  |                        |      |               |             |
| RLA ( =MCC/1.56; use for breaker & wire size selection):                                        | 37.2  |                        |      |               |             |
| *Low and High refer to the low and high nominal voltage ranges for which the motor is approved. |       |                        |      |               |             |

## Alternate Applications

| Refrigerant | Frequency(Hz) | Phase | Voltage | Application              |
|-------------|---------------|-------|---------|--------------------------|
| R-404A HFC  | 50            | 3     | 200/220 | Low Temp, Low Condensing |
| R-507 HFC   | 50            | 3     | 200/220 | Low Temp, Low Condensing |
| R-404A HFC  | 60            | 3     | 208/230 | Low Temp, Low Condensing |

# 3DRHF46KE-TFC



HFC, R-507, Mid Point, 60 Hz, 3 - Phase, 208/230 V

Low Temp, Low

**Condensing Status:** Available for sale to all U.S. customers. Please check with your local Emerson Climate Technologies representative for international availability.

## Service Parts

| <u>Reference</u> | <u>Component</u> | <u>Quantity</u> | <u>Description</u>       | <u>Comments</u>                                          |
|------------------|------------------|-----------------|--------------------------|----------------------------------------------------------|
| 65               | 003-0107-00      | 1               | PLATE-RESTRICTOR         | 2474138                                                  |
| 31               | 003-0770-00      | 1               | PLATE-BOTTOM             | 2728153                                                  |
| 10               | 005-0650-03      | 1               | COVER-STATOR             |                                                          |
| 13               | 020-0012-09      | 1               | GASKET-SERVICE VALVE     | 2880908 SUCTION                                          |
| 64               | 020-0012-09      | 2               | GASKET-SERVICE VALVE     | 2880908 GASKET REQUIRED ON BOTH SIDES OF MUFFLER PLATE   |
| 35               | 020-0028-03      | 1               | SEAL-ROTALOCK FITTING    | TEFLON 1.500 O.D. DISCHARGE                              |
| 15               | 020-0146-00      | 1               | GASKET-TERM MTG PLATE    |                                                          |
| 61               | 020-0297-13      | 1               | GASKET-SENTRONIC SENSOR  |                                                          |
| 36               | 020-0678-00      | 1               | GASKET-CLOSURE PLATE     |                                                          |
| 7                | 020-0681-02      | 1               | GASKET-BOTTOM PLATE      | 2951502                                                  |
| 9                | 020-0709-00      | 1               | GASKET-STATOR COVER      |                                                          |
| 37               | 020-0726-00      | 1               | GASKET-COVER PLATE       |                                                          |
| 38               | 020-0727-00      | 1               | GASKET-SPACER PLATE      |                                                          |
| 1                | 020-0730-00      | 1               | GASKET-CYLINDER HEAD     |                                                          |
| 5                | 020-0732-00      | 1               | GASKET-OIL PUMP          | 2942708                                                  |
| 4                | 020-0749-00      | 1               | GASKET-HOUSING COVER     |                                                          |
| 39               | 020-0783-00      | 1               | GASKET-UNLOADER VALVE    |                                                          |
| 25               | 020-0844-04      | 1               | SEAL-SIGHT GLASS         | 2042028                                                  |
|                  | 023-0039-01      | 1               | COIL-SOLENOID            | 120V                                                     |
| 60               | 023-0039-02      | 1               | COIL-SOLENOID            | 208/240V                                                 |
| 52               | 030-0187-00      | 1               | SLEEVE-HEATER            |                                                          |
| 17               | 062-0205-00      | 1               | BOX-TERMINAL             |                                                          |
| 44               | 080-0026-00      | 1               | BLOCK-TERMINAL           |                                                          |
| 19               | 503-0804-00      | 1               | PLATE-TERMINAL GROUP     |                                                          |
| 20               | 505-0281-08      | 1               | COVER-TERMINAL ASSM      |                                                          |
| 33               | 510-0142-00      | 1               | VALVE-OIL CHECK ASSM     | 2852661                                                  |
| 24               | 510-0191-00      | 1               | VALVE-SCHRADER TEE       | INSTALLED IN OIL PUMP                                    |
| 41               | 527-0045-00      | 1               | SPACER-MOUNTING ASSM     |                                                          |
| 30               | 918-0028-00      | 1               | HEATER-CC--100W/120V     | WELD                                                     |
| 30               | 918-0028-01      | 1               | HEATER-CC--100W/240V     | WELD                                                     |
| 72               | 920-0981-03      | 1               | V-PLATE GASKET KIT       | DELTA REED                                               |
| 8                | 998-0002-02      | 1               | SIGHT GLASS KIT          |                                                          |
| 6                | 998-0008-33      | 1               | OIL PUMP KIT             | WITH OIL PUMPBOLTSGASKETS& ADAPTER RING                  |
| 46               | 998-0036-00      | 1               | ROTALOCK ADAPTER KIT     | ADAPTER USED TO MOUNT A ROTALOCK DISCHARGE SERVICE VALVE |
| 66               | 998-0326-00      | 1               | MODULD VALVE & GKT       |                                                          |
| 67               | 998-0326-02      | 1               | MODULD VALVE & GKT 120V  |                                                          |
| 68               | 998-0326-03      | 1               | MODULD VALVE & GKT 240V  |                                                          |
| 21               | 998-0429-00      | 1               | PROTECTOR & GASKET KIT   |                                                          |
| 26               | 998-0510-02      | 1               | SERV VALVE KIT 1 1/8 SWT | ROTALOCKDISCHARGE                                        |
| 14               | 998-0510-11      | 1               | SERV VALVE KIT 1 3/8 SWT | 2 BOLTSUCTION                                            |
| 29               | 998-0513-03      | 1               | OIL SCREEN KIT           |                                                          |
| 62               | 998-0513-04      | 1               | SUCTION SCREEN KIT       |                                                          |
| 32               | 998-0700-02      | 1               | BRACKET KIT              |                                                          |
| 40               | 998-1669-04      | 1               | GASKET SET               |                                                          |
| 3                | 998-2661-45      | 1               | VALVE PLATE KIT          |                                                          |
| 27               | 998-5100-02      | 1               | SUCT & DISCH VALVE KIT   | WITH VALVESBOLTS& GASKETS                                |