

**ZRT144KCE-TF5****Tandem**

HCFC, R-22, 60Hz, 3- Phase, 200/230 V

Air Conditioning

**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)                                | 45 / 130   | 45 / 100 |
| RG(°F)/Liq(°F)                                   | 65 / 115   | 65 / 85  |
| Capacity (Btu/hr)                                | 144000     | 169000   |
| Power (Watts):                                   | 12600      | 9100     |
| Current (Amps):                                  | 36.60      | 28.30    |
| EER (Btu/Wh):                                    | 11.40      | 18.60    |
| Mass Flow (lbs/hr):                              | 2110       | 2170     |
| Sound Power (dBA):                               | 75 Avg     | 80 Max   |
| Vibration (mils(peak-<br>Vibration (mils(peak-)) | 2.0 Avg    | 3.0 Max  |
| Record Date:                                     | 2014-03-06 |          |

### Mechanical

|   |                              |                             |         |
|---|------------------------------|-----------------------------|---------|
| Number of Cylinders:0   | Displ(in <sup>3</sup> /Rev): | 11.97                       |         |
| Bore Size(in):  | 0.00                         | Displ(ft <sup>3</sup> /hr): | 1454.20 |
| Stroke(in):   | 0.00                         |                             |         |
| Overall Length (in):  | 24.65                        | Mounting Length (in):       | 21.50   |
| Overall Width (in):   | 11.69                        | Mounting Width (in):        | 7.50    |
| Overall Height (in):  | 18.80                        | Mounting Height (in):       | 19.13 * |
| Suction Size (in):  | 1 1/8 Stub                   |                             |         |
| Discharge Size (in):  | 3/4 Stub                     |                             |         |
| Oil Recharge (oz):  | 106                          |                             |         |
| Initial Oil Charge (oz):  | 114                          |                             |         |
| Net Weight (lbs):   | 205                          |                             |         |
| Internal Free Volume (in <sup>3</sup> ):  | 496.0                        |                             |         |
| Horse Power:  |                              |                             |         |
| *Overall compressor height on Copeland Brand Product's specified mounting grommets. |                              |                             |         |

### Electrical

|   |                        |     |               |             |
|---|------------------------|-----|---------------|-------------|
| LRA-High*:  | MCC (Amps):            | 0.0 | UL File No:   | SA-2337     |
| LRA-Half Winding:   | RPM:                   |     | UL File Date: | 26-Jul-1993 |
| LRA Low*:   | Max Operating Current: |     |               |             |
| RLA(=MCC/1.4;use for contactor selection):  |                        |     |               |             |
| RLA(=MCC/1.56;use for breaker & wire size   |                        |     |               |             |
| *Low and High refer to the low and high nominal voltage ranges for which the motor is approved. |                        |     |               |             |

### Alternate Applications

| Refrigerant | Freq (Hz) | Phase | Voltage | Application              |
|-------------|-----------|-------|---------|--------------------------|
| R-134a HFC  | 50        | 3     | 200/220 | A/C, Half of Even Tandem |
| R-134a HFC  | 60        | 3     | 200/230 | A/C, Half of Even Tandem |
| R-407C HFC  | 50        | 3     | 200/220 | A/C, Half of Even Tandem |
| R-22 HCFC   | 50        | 3     | 200/220 | A/C, Half of Even Tandem |
| R-407C HFC  | 60        | 3     | 200/230 | A/C, Half of Even Tandem |
| R-22 HCFC   | 60        | 3     | 200/230 | A/C, Half of Even Tandem |
| R-134a HFC  | 50        | 3     | 200/220 | Air Conditioning         |
| R-134a HFC  | 60        | 3     | 200/230 | Air Conditioning         |
| R-407C HFC  | 50        | 3     | 200/220 | Air Conditioning         |
| R-22 HCFC   | 50        | 3     | 200/220 | Air Conditioning         |

## Alternate Applications

| <u>Refrigerant</u> | <u>Freq (Hz)</u> | <u>Phase</u> | <u>Voltage</u> | <u>Application</u> |
|--------------------|------------------|--------------|----------------|--------------------|
| R-407C HFC         | 60               | 3            | 200/230        | Air Conditioning   |

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### Service Parts

| <u>Reference</u> | <u>Component</u>  | <u>Quantity</u> | <u>Description</u>   | <u>Comment</u>       |
|------------------|-------------------|-----------------|----------------------|----------------------|
| 99               | 527-0150-00       | 1               | SPACER-MOUNTING ASSM |                      |
| 99               | 527-0181-00       | 2               | SPACER-MOUNTING KIT  |                      |
| 99               | 918-0043-00       | 2               | HEATER-CRANKCASE     | 240V 70W WRAP AROUND |
| 99               | 918-0043-01       | 2               | HEATER-CRANKCASE     | 480V 70W WRAP AROUND |
| 99               | ZRT144KCE-TF5-950 | 1               | WELD COMP            |                      |

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### Accessories

| <u>PartNumber</u> | <u>Description</u>                           |
|-------------------|--|
| 018-0095-00       | Crankcase Heater, 240V, 70W, 21" Lead Length |
| 018-0095-01       | Crankcase Heater, 480V, 70W, 21" Lead Length |
| 018-0095-02       | Crankcase Heater, 575V, 70W, 21" Lead Length |
| 018-0095-03       | Crankcase Heater, 240V, 70W, 32" Lead Length |
| 018-0095-04       | Crankcase Heater, 240V, 70W, 48" Lead Length |
| 018-0095-05       | Crankcase Heater, 480V, 70W, 48" Lead Length |
| 018-0095-06       | Crankcase Heater, 575V, 70W, 48" Lead Length |
| 018-0095-07       | Crankcase Heater, 120V, 70W, 48" Lead Length |
| 018-0095-08       | Crankcase Heater, 400V, 70W, 48" Lead Length |
| 018-0095-09       | Crankcase Heater, 277V, 70W, 21" Lead Length |

**Common U.S. OEM Bill Of Materials**

|     | Suction Connection | Suction Size | Discharge Connection | Discharge Size | Electrical Connection | Mounting Assembly | Sight Glass | Crankcase Heater | Schraeder Valve | Tandem Ready | Module Voltage |
|-----|--------------------|--------------|----------------------|----------------|-----------------------|-------------------|-------------|------------------|-----------------|--------------|----------------|
| 259 | Stub               | 1 1/8"       | Stub                 | 3/4"           |                       | -                 | -           | -                | -               | -            | -              |
| 255 | Stub               | 1 1/8"       | Stub                 | 3/4"           | SCREW                 | Yes               | -           | -                | -               | -            | -              |
| 250 | Stub               | 1 1/8"       | Stub                 | 3/4"           | SCREW                 | Yes               | -           | -                | -               | -            | -              |

**Common U.S. Service Bill Of Materials**

|     | Suction Connection | Suction Size | Discharge Connection | Discharge Size | Electrical Connection | Mounting Assembly | Sight Glass | Crankcase Heater | Schraeder Valve | Tandem Ready | Module Voltage |
|-----|--------------------|--------------|----------------------|----------------|-----------------------|-------------------|-------------|------------------|-----------------|--------------|----------------|
| 950 | Stub               | 1 1/8"       | Stub                 | 3/4"           | SCREW                 | Yes               | -           | -                | -               | -            | -              |

\* Note: For all other Bill Of Material descriptions (Including International and Customer Specific Bills of Materials) contact your sales representative or the Application Engineering Department.