

# ERFA-031E-TAD

HCFC, R-22, 60Hz, 3- Phase, 460 V  
High Temp



**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     | 20 / 120     |
| RG(°F)/Liq(°F)               | 65.0 / 130.0 | 65.0 / 120.0 |
| Capacity (Btu/hr)            | 35200        | 21800        |
| Power (Watts):               | 3840         | 3020         |
| Current (Amps):              | 5.80         | 4.80         |
| EER (Btu/Wh):                | 9.20         | 7.20         |
| Mass Flow (lbs/hr):          | 555          | 320          |
| Sound Power (dBA):           | 0 Avg        | 0 Max        |
| Vibration (mils(peak-peak)): | 0.0 Avg      | 0.0 Max      |
| Record Date:                 | 2006-12-22   |              |

## Mechanical

|   |             |                              |         |
|---|-------------|------------------------------|---------|
| Number of Cylinders:  | 2           | Displ(in <sup>3</sup> /Rev): | 7.59    |
| Bore Size(in):  | 1.88        | Displ(ft <sup>3</sup> /hr):  | 461.38  |
| Stroke(in):   | 1.38        |                              |         |
| Overall Length (in):  | 17.69       | Mounting Length (in):        | 10.06   |
| Overall Width (in):   | 12.00       | Mounting Width (in):         | 10.50   |
| Overall Height (in):  | 12.91       | Mounting Height (in):        | 13.94 * |
| Suction Size (in):  | 1 1/8 Sweat |                              |         |
| Discharge Size (in):  | 5/8 Flare   |                              |         |
| Oil Recharge (oz):  | 55          |                              |         |
| Initial Oil Charge (oz):  | 60          |                              |         |
| Net Weight (lbs):   | 178         |                              |         |
| Internal Free Volume (in <sup>3</sup> ):  |             |                              |         |
| Horse Power:  |             |                              |         |
| *Overall compressor height on Copeland Brand Product's specified mounting grommets. |             |                              |         |

## Electrical

|   |      |                        |      |               |             |
|---|------|------------------------|------|---------------|-------------|
| LRA-High*:  | 41.0 | MCC (Amps):            | 8.1  | UL File No:   | SA-2337     |
| LRA-Half Winding:   |      | RPM:                   | 3500 | UL File Date: | 10-Sep-1984 |
| LRA Low*:   |      | Max Operating Current: |      |               |             |
| RLA(=MCC/1.4;use for contactor selection):  |      |                        | 5.8  |               |             |
| RLA(=MCC/1.56;use for breaker & wire size selection):   |      |                        | 5.2  |               |             |
| *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-22 HCFC   | 60        | 3     | 460     | UL Medium Temp     |
| R-502 CFC   | 60        | 3     | 460     |                    |
| R-404A HFC  | 60        | 3     | 460     | Medium Temperature |
| R-507 HFC   | 60        | 3     | 460     |                    |
| R-22 HCFC   | 50        | 3     | 380/400 | High Temp          |
| R-22 HCFC   | 50        | 3     | 380/400 | UL Medium Temp     |
| R-502 CFC   | 50        | 3     | 380/400 | Medium Temperature |
| R-404A HFC  | 50        | 3     | 380/400 | Medium Temperature |
| R-507 HFC   | 50        | 3     | 380/400 |                    |