

# LALA-032E-TAD

HFC, R-404A, 60Hz, 3- Phase, 460 V

Low Temperature



**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)                                 | 65.0 / 105.0 | 65.0 / 105.0 |
| Capacity (Btu/hr)                              | 13000        | 7460         |
| Power (Watts):                                 | 2930         | 2180         |
| Current (Amps):                                | 5.30         | 4.50         |
| EER (Btu/Wh):                                  | 4.40         | 3.40         |
| Mass Flow (lbs/hr):                            | 234          | 133          |
| Sound Power (dBA):                             | 0 Avg        | 0 Max        |
| Vibration (mils(peak-<br>Vibration (mils(peak- | 0.0 Avg      | 0.0 Max      |
| Record Date:                                   | 2006-07-12   |              |

## Mechanical

|   |       |                              |         |
|---|-------|------------------------------|---------|
| Number of Cylinders:  | 2     | Displ(in <sup>3</sup> /Rev): | 12.74   |
| Bore Size(in):  | 2.38  | Displ(ft <sup>3</sup> /hr):  | 774.18  |
| Stroke(in):   | 1.44  |                              |         |
| Overall Length (in):  | 18.63 | Mounting Length (in):        | 11.63   |
| Overall Width (in):   | 14.00 | Mounting Width (in):         | 11.00   |
| Overall Height (in):  | 14.72 | Mounting Height (in):        | 15.75 * |
| Suction Size (in):  |       | 1 1/8 Sweat                  |         |
| Discharge Size (in):  |       | 5/8 Flare                    |         |
| Oil Recharge (oz):  |       | 75                           |         |
| Initial Oil Charge (oz):  |       | 80                           |         |
| Net Weight (lbs):   |       | 201                          |         |
| Internal Free Volume (in <sup>3</sup> ):  |       |                              |         |
| Horse Power:  |       |                              |         |
| *Overall compressor height on Copeland Brand Product's specified mounting grommets. |       |                              |         |

## Electrical

|   |      |                        |      |               |             |
|---|------|------------------------|------|---------------|-------------|
| LRA-High*:  | 56.0 | MCC (Amps):            | 8.7  | UL File No:   | SA-2337     |
| LRA-Half Winding:   |      | RPM:                   | 3500 | UL File Date: | 17-May-1961 |
| LRA Low*:   |      | Max Operating Current: |      |               |             |
| RLA(=MCC/1.4;use for contactor selection):  |      | 6.2                    |      |               |             |
| RLA(=MCC/1.56;use for breaker & wire size   |      | 5.6                    |      |               |             |
| *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-404A HFC  | 50        | 3     | 380/400 | Low Temperature |
| R-507 HFC   | 50        | 3     | 380/400 | Low Temperature |
| R-507 HFC   | 60        | 3     | 460     | Low Temperature |

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## Service Parts

| <u>Reference</u> | <u>Component</u> | <u>Quantity</u> | <u>Description</u>       | <u>Comment</u>           |
|------------------|------------------|-----------------|--------------------------|--------------------------|
| 20               | 003-0099-00      | 1               | PLATE-BOTTOM             |                          |
| 35               | 003-0129-00      | 1               | PLATE-TERMINAL MTG       |                          |
| 17               | 005-0163-00      | 1               | COVER-TERMINAL BOX       |                          |
| 10               | 013-0038-00      | 1               | SCREEN-SUCTION           |                          |
| 9                | 020-0012-10      | 1               | GASKET-SERVICE VALVE     | DISCHARGE                |
| 8                | 020-0012-11      | 1               | GASKET-SERVICE VALVE     | SUCTION                  |
| 6                | 020-0054-00      | 1               | GASKET-STATOR COVER      |                          |
| 34               | 020-0146-00      | 1               | GASKET-TERM MTG PLATE    |                          |
| 5                | 020-0159-00      | 1               | GASKET-BOTTOM PLATE      |                          |
| 24               | 020-0330-00      | 1               | GASKET-ADAPTER MTG       |                          |
| 4                | 020-0749-00      | 1               | GASKET-HOUSING COVER     |                          |
| 37               | 020-0844-02      | 2               | SEAL                     |                          |
| 3                | 020-0918-00      | 1               | GASKET-VALVE PLATE       |                          |
| 1                | 020-0954-00      | 1               | GASKET-CYL HD            |                          |
| 23               | 034-0031-00      | 1               | ADAPTER                  | SUCTION BLOCK            |
| 18               | 062-0058-00      | 1               | BOX-TERMINAL             |                          |
| 15               | 071-0090-46      | 1               | PROTECTOR                |                          |
| 28               | 510-0003-00      | 1               | VALVE-CHECK ASSM         |                          |
| 14               | 521-0017-00      | 1               | TERMINAL-FUSED CLUSTER   |                          |
| 14               | 521-0018-00      | 1               | TERMINAL-FUSED CLUSTER   |                          |
| 21               | 521-0128-00      | 1               | TERMINAL-PLATE GROUP     |                          |
| 29               | 527-0007-00      | 1               | SPACER-MOUNTING ASSM     |                          |
| 11               | 918-0009-00      | 1               | HEATER-CRANKCASE 120V    | 120V 65W BOLT ON         |
| 11               | 918-0009-01      | 1               | HEATER CRANKCASE 240V    | 65W BOLT ON              |
| 38               | 921-0227-00      | 1               | CONNECTOR BLOCK KIT      |                          |
| 22               | 998-0002-04      | 1               | SIGHT GLASS KIT          |                          |
| 13               | 998-0510-13      | 1               | SERV VALVE KIT 1 1/8 SWT | 1 1/8 SWT 2 BOLT SUCTION |

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| <u>Reference</u> | <u>Component</u> | <u>Quantity</u> | <u>Description</u>     | <u>Comment</u>              |
|------------------|------------------|-----------------|------------------------|-----------------------------|
| 12               | 998-0510-23      | 1               | SERV VALVE KIT 5/8 FL  | 5/8 FLARE 2 BOLT DISCHARGE  |
| 2                | 998-0661-37      | 1               | VALVE PLATE KIT        |                             |
| 30               | 998-0669-18      | 1               | GASKET SET             |                             |
| 7                | 998-5100-34      | 1               | SUCT & DISCH VALVE KIT | WITH VALVES BOLTS & GASKETS |

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## Accessories

| <u>PartNumber</u> | <u>Description</u>  |
|-------------------|---|
| 024-0200-00       | Fan Guard, Top, for Head Cooling Fan  |
| 083-0118-00       | Fan Blade, for Head Cooling Fan   |
| 085-0160-00       | 3 Phase Voltage Monitor. For use with all Copeland 3 Phase Compressors. Consult model family nomenclature for electrical definition in the model number.                              |
| 918-0009-00       | Crankcase Heater Kit, 120V, 65W, bolt on. For usage on specific Copeland Copelametic & Discus Compressor except deep sump models. Includes crankcase heater, and reference drawings.  |
| 918-0009-01       | Crankcase Heater Kit, 240V, 65W, bolt on. For usage on specific Copeland Copelametic, & Discus Compressor except deep sump models. Includes crankcase heater, and reference drawings. |
| 918-0009-02       | Crankcase Heater Kit, 480V, 65W, bolt on. For usage on specific Copeland Copelametic, & Discus Compressor except deep sump models. Includes crankcase heater, and reference drawings. |
| 918-0009-03       | Crankcase Heater Kit, 600V, 65W, bolt on. For usage on specific Copeland Copelametic, & Discus Compressor except deep sump models. Includes crankcase heater, and reference drawings. |
| 998-0550-00       | Fan Motor Blade & Guard Assembly 230V, Does not include mounting bracket. Must be ordered separately  |
| 998-0550-01       | Fan Motor Blade & Guard Assembly 460V, Does not include mounting bracket. Must be ordered separately  |
| 998-0550-02       | Fan Motor Blade & Guard Assembly 115V, Does not include mounting bracket. Must be ordered separately  |
| 998-0550-03       | Fan Motor, 230V, Includes fan motor mounted to bottom guard   |
| 998-0550-04       | Fan Motor, 460V, Includes fan motor mounted to bottom guard   |
| 998-0550-05       | Fan Motor, 115V, Includes fan motor mounted to bottom guard   |
| 998-0574-00       | Fan Mounting Kit, Vertical fan mount on top of compressor head  |
| 998-0683-00       | Shipping Plate, Gasket, and Bolt (Discharge all 2D) (Discharge) (Suction & Discharge) 2 kits required   |
| 998-AB52-01       | Akylbenzene Oil. Approved for use with specific Copeland Semi Hermetic After Market Compressors. Consult model family nomenclatures for oil identifier in the model number.           |
| 998-E022-01       | Polyol Ester Oil. Approved for use with specific Copeland Hermetic & Semi Hermetic models. Consult specific model family nomenclatures for oil identifier in the model number.        |

**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 |
|-----|--------------------|--------------|----------------------|----------------|-----------------------|-------------------|-------------|------------------|-----------------|--------------|----------------|
| 800 |                    |              |                      |                |                       | -                 | -           | -                | -               | -            | -              |
| 8R0 |                    |              |                      |                | SCREW                 | -                 | -           | -                | -               | -            | -              |
| 8S0 |                    |              |                      |                |                       | -                 | -           | -                | -               | -            | -              |

\* 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.