



January 21, 2014  
Revision: REL

# Tecumseh Compressor Company

## Hermetic Condensing Units

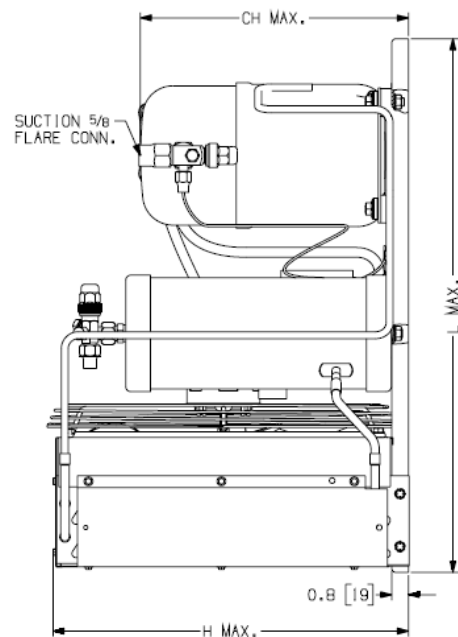
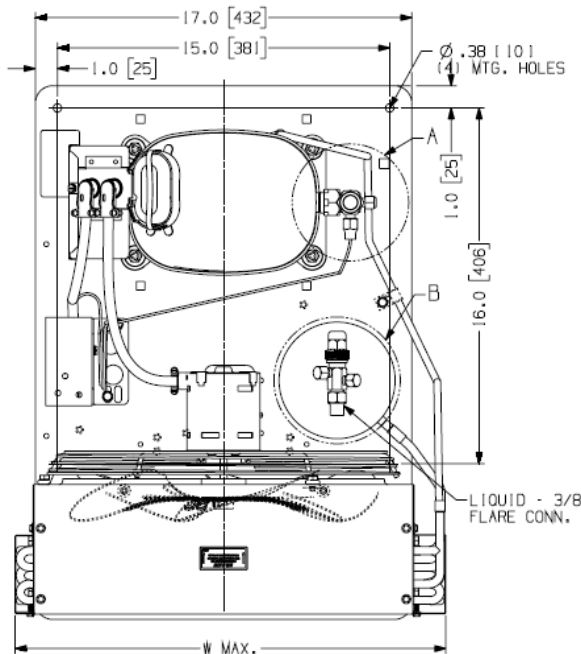
Model: AJA7494ZDXC

BoM: 2B1106-1

R-404a

1 1/4 HP

Air Cooled



| Model       | Dimensions, inches |      |      |      | Line Connection* |        | Pumpdown  | Air | Oil | Gr. |
|-------------|--------------------|------|------|------|------------------|--------|-----------|-----|-----|-----|
|             | L                  | W    | H    | CH   | Suction          | Liquid | 90 °F 90% | CFM | Ch  | Wt. |
| AJA7494ZDXC | 24.0               | 19.4 | 16.1 | 12.0 | 5/8" F           | 3/8" F | 10.8 lbs  | 840 | 27  | 100 |

\* F = Flare, S = Solder, RF or RS = Rotolock with Flare or Solder Connections, C = Compression Fitting  
Factory charge: 20 PSIG Nitrogen – **MUST BE EVACUATED**

| Evaporator T, |      | Ambient Temperatures |       |        |       |       |        |       |       |        |       |       |        |
|---------------|------|----------------------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|--------|
|               |      | 80°F                 |       |        | 90°F  |       |        | 100°F |       |        | 110°F |       |        |
| °F            | PSIG | BTUH                 | Watts | Cond T | BTUH  | Watts | Cond T | BTUH  | Watts | Cond T | BTUH  | Watts | Cond T |
| -10           | 23.6 | 5720                 | 1284  | 96     | 4881  | 1273  | 104    | 4085  | 1230  | 112    | 3423  | 1193  | 120    |
| -5            | 27.9 | 6551                 | 1352  | 98     | 5627  | 1373  | 106    | 4816  | 1345  | 114    | 4023  | 1322  | 122    |
| 0             | 32.6 | 7355                 | 1435  | 100    | 6352  | 1473  | 108    | 5500  | 1459  | 116    | 4607  | 1442  | 125    |
| 5             | 37.7 | 8152                 | 1529  | 102    | 7074  | 1573  | 110    | 6158  | 1573  | 118    | 5188  | 1558  | 127    |
| 10            | 43.2 | 8963                 | 1630  | 105    | 7810  | 1674  | 113    | 6813  | 1686  | 120    | 5776  | 1672  | 129    |
| 15            | 49.1 | 9806                 | 1735  | 107    | 8578  | 1777  | 115    | 7485  | 1799  | 123    | 6384  | 1788  | 131    |
| 20            | 55.4 | 10701                | 1842  | 110    | 9396  | 1883  | 118    | 8198  | 1913  | 125    | 7025  | 1910  | 133    |
| 25            | 62.2 | 11666                | 1945  | 112    | 10279 | 1993  | 120    | 8972  | 2027  | 127    | 7709  | 2039  | 135    |
| 30            | 69.6 | 12720                | 2043  | 115    | 11247 | 2107  | 123    | 9830  | 2142  | 130    | 8451  | 2180  | 137    |

### 60 Hz Performance

Return gas temp. 40°F, 5°F sub cooling

## Specifications/ Parts:

|                         |                    |
|-------------------------|--------------------|
| <b>Model</b>            | <b>AJA7494ZDXC</b> |
| Unit Bill of Material   | 2B1106-1           |
| Nominal Volts-Hz-Ph     | 208-230-60-1       |
| Refrigeration Range     | -10° F to +30° F   |
| Design Pressure Low     | 181                |
| Design Pressure High    | 450                |
| Voltage Range           | 187 to 253         |
| Min. Circuit Ampacity   | 12.2               |
| Max. Fuse Size (amps)   | 20                 |
| Compressor Model        | AJA7494ZXD         |
| Comp. Bill of Material  | AJ202ET-188-P2     |
| Compressor RLA/LRA      | 9.2 / 54.0         |
| Overload                | INTERNAL           |
| Relay                   | 820RVAM25          |
| Run Capacitor           | 85PR370F20         |
| Run Capacitor Rating    | 25 MFD @ 370V      |
| Start Capacitor         | 85PS250D84         |
| Start Capacitor Rating  | 216-259 MFD @ 250V |
| Capacitor Cabinet Assy. | AE1170-043A        |
| Unit Drawing            | DGU1893-48         |
| Wiring Diagram          | 90657-9            |

|                       |            |
|-----------------------|------------|
| Fan Motor             | 810F050C20 |
| Fan Motor RLA         | 0.7        |
| Fan Blade             | 51533-3    |
| Fan Guard             | 70831      |
| Fan Shroud            | 70727-2    |
| Low Pressure Control  | 84026-2    |
| Dual Pressure Control | N/A        |
| Condenser             | 50797-4    |
| Receiver Tank         | 51081-1    |
| Liquid Valve          | 31578-1    |
| Rotolock Valve Gasket | 30334      |
| Suction Valve         | 31071-2    |

## Electrical Diagram

