



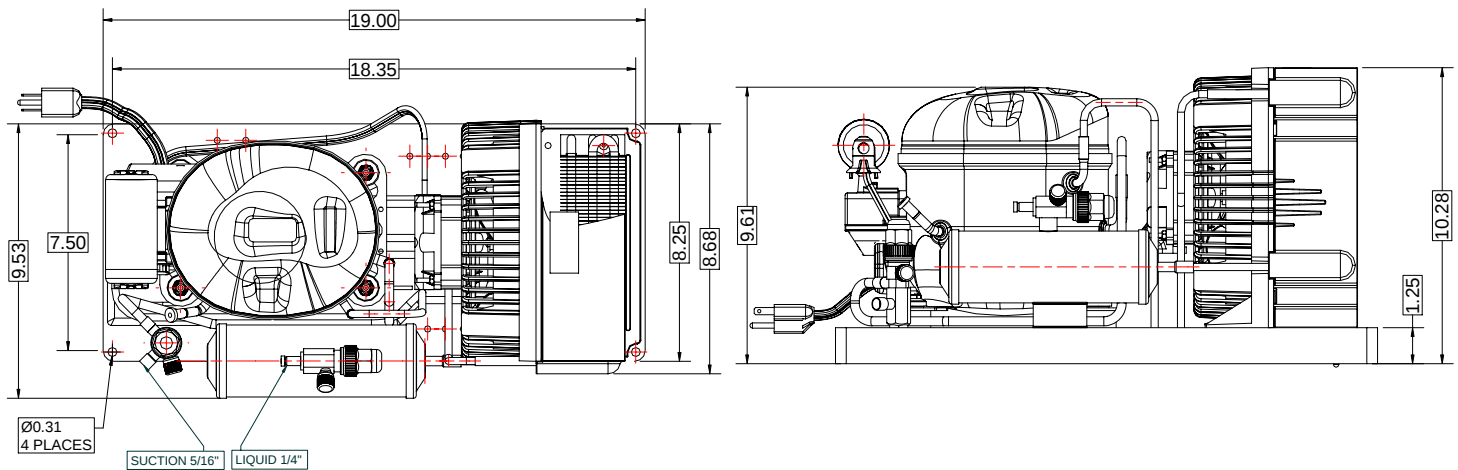
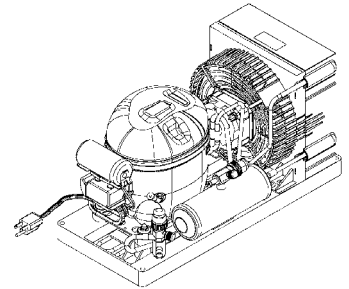
# TECUMSEH HERMETIC CONDENSING UNIT

AE4440Y-AA1AGL  
Revision: REL  
May 7, 2012

**Model** AE4440Y-AA1AGL, GK, GB, GC  
**BOM** 32Y360-2, -3, -4, -5

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**Air Cooled** 1/3 HP  
**Application** High Temp  
**Refrigerant** R 134a



| Model          | Dimensions (inch) |     |      | Line connections |                 | Pumpdown  | Air flow | Oil Ch. | Gross weight |
|----------------|-------------------|-----|------|------------------|-----------------|-----------|----------|---------|--------------|
|                | L                 | W   | H    | Suction          | Liquid          | 90% @90°F | CFM      | Oz.     | Lbs          |
| AE4440Y-AA1AGL | 19                | 8.7 | 10.3 | 5/16 Sweat       | 1/4 Sweat       | n/a       | 240      | 16      | 39.6         |
| AE4440Y-AA1AGK |                   |     |      |                  |                 | 2.09      |          |         | 40.2         |
| AE4440Y-AA1AGB | 19                | 9.7 | 10.3 | 5/16 Valve Sweat | 1/4 Valve Sweat | 2.47      |          |         | 40.8         |
| AE4440Y-AA1AGC |                   |     |      |                  |                 |           |          |         |              |

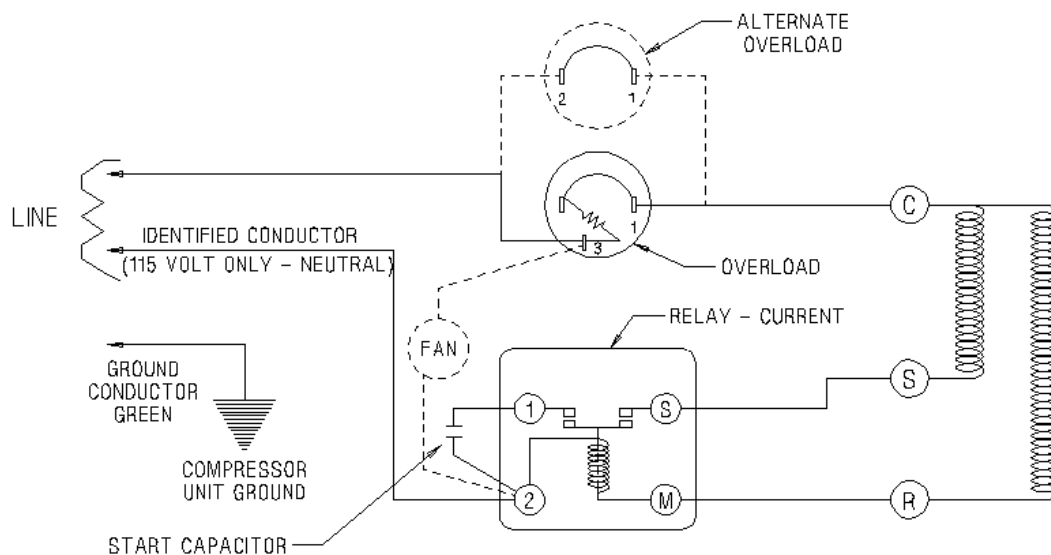
Factory charge 20 psig dry air, **MUST BE EVACUATED**

| Evaporator |      | Ambient Temperatures |       |      |        |      |       |      |        |       |       |      |        |       |       |      |        |
|------------|------|----------------------|-------|------|--------|------|-------|------|--------|-------|-------|------|--------|-------|-------|------|--------|
|            |      | 80°F                 |       |      |        | 90°F |       |      |        | 100°F |       |      |        | 110°F |       |      |        |
| °F         | Psig | BTUH                 | Watts | Head | Cond T | BTUH | Watts | Head | Cond T | BTUH  | Watts | Head | Cond T | BTUH  | Watts | Head | Cond T |
| 20         | 18.4 | 2560                 | 440   | 142  | 108    | 2360 | 460   | 163  | 116    | 2160  | 470   | 187  | 125    | 1990  | 480   | 212  | 134    |
| 25         | 22.1 | 2810                 | 470   | 150  | 111    | 2610 | 480   | 171  | 120    | 2400  | 500   | 196  | 128    | 2210  | 520   | 221  | 137    |
| 30         | 26.0 | 3080                 | 500   | 159  | 115    | 2860 | 520   | 181  | 123    | 2640  | 530   | 205  | 132    | 2420  | 560   | 232  | 140    |
| 35         | 30.3 | 3350                 | 530   | 168  | 118    | 3110 | 550   | 191  | 127    | 2870  | 570   | 216  | 135    | 2620  | 600   | 242  | 143    |
| 40         | 35.0 | 3630                 | 570   | 178  | 122    | 3370 | 590   | 201  | 130    | 3110  | 620   | 227  | 139    | 2830  | 640   | 253  | 147    |
| 45         | 40.0 | 3920                 | 610   | 189  | 126    | 3620 | 640   | 213  | 134    | 3340  | 660   | 238  | 142    | 3020  | 690   | 265  | 150    |
| 50         | 45.3 | 4220                 | 650   | 201  | 130    | 3890 | 690   | 225  | 138    | 3570  | 710   | 249  | 146    | 3220  | 740   | 277  | 154    |

Performance @ 60 Hz, Return gas 65°F, SubCooling 5°F

## Parts/Specifications

|                        |                       |                                  |                       |
|------------------------|-----------------------|----------------------------------|-----------------------|
| <b>Unit BOM</b>        | <b>32Y360-2</b>       | Condenser                        | 50734-G02             |
| <b>Unit MODEL</b>      | <b>AE4440Y-AA1AGL</b> | Shroud                           | 71030-GS              |
|                        |                       | Fan Guard                        | 71030-GB              |
| Refrigeration RANGE    | 20°F to 55°F          |                                  |                       |
| Design Pressure Low    | 150                   | Replacement Fan Motor            | 9W115                 |
| Design Pressure High   | 300                   | F. M., blade, guard assy         | XFBG-109              |
| Volts - HZ - Ph        | 115-60-1              | F. M., blade, guard, shroud assy | XFBGS-109             |
| Voltage Range          | 126.5 to 103.5        |                                  |                       |
| Min. Circuit Ampacity  | 11.51                 | Electrical Diagram               | DEAE-10               |
| Max. Fuse Size         | 20                    | Unit Drawing                     | DGBU-061              |
|                        |                       |                                  |                       |
| Compressor MODEL       | AE4440Y-AA1A          | <b>Unit BOM</b>                  | <b>32Y360-3</b>       |
| Compressor BOM         | AE-1022-E             | <b>Unit MODEL</b>                | <b>AE4440Y-AA1AGK</b> |
| Compressor LRA         | 32                    | Power Cord                       | 85106-10              |
| Compressor RLA         | 8.74                  | Unit Drawing                     | DGBU-061              |
|                        |                       |                                  |                       |
| OverLoad               | 830-10024             | <b>Unit BOM</b>                  | <b>32Y360-4</b>       |
| Relay                  | 820-10031             | <b>Unit MODEL</b>                | <b>AE4440Y-AA1AGB</b> |
| Run Capacitor          |                       | Receiver                         | 51085-1H              |
| Run Capacitor Rating   |                       | Unit Drawing                     | DGBU-061R             |
| Start Capacitor        | 85PS165D64            |                                  |                       |
| Start Capacitor Rating | 324-389 MFD 165V      | <b>Unit BOM</b>                  | <b>32Y360-5</b>       |
|                        |                       | <b>Unit MODEL</b>                | <b>AE4440Y-AA1AGC</b> |
| Fan Motor              | NUT6B09PUN301         | Receiver w/Liquid Valve          | 51085-1HV             |
| Fan Motor RLA          | 0.58                  | Suction Valve                    | 56580-1               |
| Fan Blade              | 4VEA010               | Unit Drawing                     | DGBU-061V             |



115 OR 230 VOLT - SCHEMATIC WIRING DIAGRAM - CSIR

REF. DWG. MD472-1

WARNING - WIRING DIAGRAM MUST BE FOLLOWED AS SHOWN. ANY MISWIRING CAN CAUSE SERIOUS ELECTRICAL HAZARD AND POTENTIAL DAMAGE OR RUPTURE OF COMPONENT ELECTRICAL PARTS.

DEAE-10