



# tecumseh

# CAJ2446Z

220 - 240V 1~ 50 Hz

Compressor

AJ2446Z-FZ3B

LBP

R-452A / R-404A

Voltage Code : FZ

| Refrigerant | Frequency | Nominal Cooling Capacity (*) |       | Sound Power<br>ISO3745 / ISO 3743-1 |
|-------------|-----------|------------------------------|-------|-------------------------------------|
|             |           | Watts                        | BTU/h |                                     |
| R-452A      | 50HZ      | 577                          | 1967  | 57 dBA                              |
| R-404A      | 50HZ      | 627                          | 2137  |                                     |
| R-448A      | 50HZ      | 487                          | 1662  |                                     |
| R-449A      | 50HZ      | 487                          | 1662  |                                     |

(\*) Operating conditions EN12900 : Dew / T°Cond. 104°F / T°Evap -31°F / T°Return gas temp. 68°F / T°Subcooling 0°F



\*Non-contractual picture

## Dimensions

|                  |                  |
|------------------|------------------|
| Weight           | 21.7 kg (48 lb)  |
| Length           | 246 mm (9.7 in)  |
| Width            | 218 mm (8.6 in)  |
| Height           | 280 mm (11 in)   |
| Ø Suction Tube   | 1/2 in (12.7mm)  |
| Ø Discharge Tube | 5/16 in (7.93mm) |

## Certificates



## General

|                         |                                  |
|-------------------------|----------------------------------|
| Compressor Type         | Reciprocating                    |
| Displacement (cc)       | 26.2                             |
| Horse Power             | 3/4                              |
| Compressor Cooling      | Fan                              |
| Evaporating Temp. Range | -40°C to -12.2°C (-40°F to 10°F) |
| Expansion Device        | Capil. Tube/Expans. Valve        |
| Oil Type                | P.O.E 32                         |
| Oil Charge (cc)         | 475                              |

## Electrical

|                          |                      |
|--------------------------|----------------------|
| Motor Type               | CSR                  |
| Main Winding (Ohm)       | 2.94                 |
| Start Winding (Ohm)      | 8.83                 |
| Current RLA 50Hz (A)     | 4                    |
| Current MCC (A)          | 8.2                  |
| Current LRA (A)          | 29.5                 |
| Start Capacitor          | 88-101 µF / 330 V    |
| Run Capacitor            | 15 µF / 400 V        |
| Overload                 | MST18AIN-3291        |
| - Time Check             | 7.5s - 14s / 20.7 A  |
| - Open Temp / Close Temp | 120 °C / 69 °C       |
| Potential Relay          | RVA 4O3D             |
| - Pick Up / Drop Out     | 280-310 V / 60-121 V |

Note : Tecumseh reserves the right to change information contained in this document without notification.



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**CAJ2446Z**

220 - 240V 1~ 50 Hz

Performances are given at rating conditions EN12900  
Conditions DEW

Return gas temp. : 68 °F  
Subcooling : 0 °F

## 50HZ R-452A

| Condensing | Evaporating      | (°F)    | -40  | -30  | -20  | -10  | 0    | 10   |
|------------|------------------|---------|------|------|------|------|------|------|
| <b>90</b>  | Refrig. Capacity | (Btu/h) | 1679 | 2474 | 3447 | 4628 | 6044 | 7721 |
|            | Power Input      | (W)     | 478  | 571  | 665  | 759  | 855  | 954  |
|            | Amps             | (A)     | 2.26 | 2.6  | 2.99 | 3.42 | 3.89 | 4.41 |
| <b>105</b> | Refrig. Capacity | (Btu/h) |      | 2014 | 2881 | 3930 | 5189 | 6686 |
|            | Power Input      | (W)     |      | 568  | 678  | 791  | 907  | 1026 |
|            | Amps             | (A)     |      | 2.6  | 3.07 | 3.57 | 4.11 | 4.69 |
| <b>120</b> | Refrig. Capacity | (Btu/h) |      | 1556 | 2304 | 3210 | 4302 | 5606 |
|            | Power Input      | (W)     |      | 552  | 679  | 810  | 945  | 1085 |
|            | Amps             | (A)     |      | 2.59 | 3.12 | 3.7  | 4.31 | 4.96 |
| <b>140</b> | Refrig. Capacity | (Btu/h) |      |      | 1565 | 2262 | 3111 | 4140 |
|            | Power Input      | (W)     |      |      | 664  | 819  | 980  | 1147 |
|            | Amps             | (A)     |      |      | 3.17 | 3.84 | 4.54 | 5.28 |

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## 50HZ R-404A

| Condensing | Evaporating      | (°F)    | -40  | -30  | -20  | -10  | 0    | 10   |
|------------|------------------|---------|------|------|------|------|------|------|
| <b>90</b>  | Refrig. Capacity | (Btu/h) | 1842 | 2684 | 3703 | 4922 | 6363 | 8048 |
|            | Power Input      | (W)     | 514  | 614  | 714  | 812  | 910  | 1008 |
|            | Amps             | (A)     | 2.42 | 2.8  | 3.21 | 3.66 | 4.14 | 4.65 |
| <b>105</b> | Refrig. Capacity | (Btu/h) | 1437 | 2185 | 3084 | 4155 | 5420 | 6901 |
|            | Power Input      | (W)     | 500  | 615  | 730  | 847  | 965  | 1085 |
|            | Amps             | (A)     | 2.37 | 2.82 | 3.3  | 3.82 | 4.37 | 4.96 |
| <b>120</b> | Refrig. Capacity | (Btu/h) |      | 1691 | 2463 | 3380 | 4464 | 5736 |
|            | Power Input      | (W)     |      | 603  | 735  | 870  | 1008 | 1150 |
|            | Amps             | (A)     |      | 2.83 | 3.38 | 3.97 | 4.59 | 5.25 |
| <b>140</b> | Refrig. Capacity | (Btu/h) |      |      | 1657 | 2360 | 3192 | 4177 |
|            | Power Input      | (W)     |      |      | 726  | 885  | 1051 | 1222 |
|            | Amps             | (A)     |      |      | 3.47 | 4.15 | 4.87 | 5.62 |



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220 - 240V 1~ 50 Hz

Performances are given at rating conditions EN12900  
Conditions DEW

Return gas temp. : 68 °F  
Subcooling : 0 °F

### 50HZ R-448A\*

| Condensing | Evaporating      | (°F)    | -40  | -30  | -20  | -10  | 0    | 10   |
|------------|------------------|---------|------|------|------|------|------|------|
| <b>90</b>  | Refrig. Capacity | (Btu/h) | 1340 | 2103 | 3063 | 4246 | 5677 | 7384 |
|            | Power Input      | (W)     | 439  | 532  | 624  | 717  | 809  | 904  |
|            | Amps             | (A)     | 2.07 | 2.42 | 2.81 | 3.23 | 3.68 | 4.17 |
| <b>105</b> | Refrig. Capacity | (Btu/h) |      | 1712 | 2564 | 3615 | 4893 | 6423 |
|            | Power Input      | (W)     |      | 534  | 642  | 750  | 860  | 972  |
|            | Amps             | (A)     |      | 2.45 | 2.9  | 3.38 | 3.9  | 4.44 |
| <b>120</b> | Refrig. Capacity | (Btu/h) |      |      | 2079 | 3000 | 4124 | 5478 |
|            | Power Input      | (W)     |      |      | 648  | 773  | 901  | 1032 |
|            | Amps             | (A)     |      |      | 2.98 | 3.53 | 4.11 | 4.71 |
| <b>140</b> | Refrig. Capacity | (Btu/h) |      |      |      | 2245 | 3164 | 4284 |
|            | Power Input      | (W)     |      |      |      | 788  | 943  | 1102 |
|            | Amps             | (A)     |      |      |      | 3.69 | 4.37 | 5.07 |

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### 50HZ R-449A\*

| Condensing | Evaporating      | (°F)    | -40  | -30  | -20  | -10  | 0    | 10   |
|------------|------------------|---------|------|------|------|------|------|------|
| <b>90</b>  | Refrig. Capacity | (Btu/h) | 1340 | 2103 | 3063 | 4246 | 5677 | 7384 |
|            | Power Input      | (W)     | 439  | 532  | 624  | 717  | 809  | 904  |
|            | Amps             | (A)     | 2.07 | 2.42 | 2.81 | 3.23 | 3.68 | 4.17 |
| <b>105</b> | Refrig. Capacity | (Btu/h) |      | 1712 | 2564 | 3615 | 4893 | 6423 |
|            | Power Input      | (W)     |      | 534  | 642  | 750  | 860  | 972  |
|            | Amps             | (A)     |      | 2.45 | 2.9  | 3.38 | 3.9  | 4.44 |
| <b>120</b> | Refrig. Capacity | (Btu/h) |      |      | 2079 | 3000 | 4124 | 5478 |
|            | Power Input      | (W)     |      |      | 648  | 773  | 901  | 1032 |
|            | Amps             | (A)     |      |      | 2.98 | 3.53 | 4.11 | 4.71 |
| <b>140</b> | Refrig. Capacity | (Btu/h) |      |      |      | 2245 | 3164 | 4284 |
|            | Power Input      | (W)     |      |      |      | 788  | 943  | 1102 |
|            | Amps             | (A)     |      |      |      | 3.69 | 4.37 | 5.07 |

\* Due to very high discharge temperature especially on LBP conditions, please strictly refer to Tecumseh Guidelines & Marketing Bulletin when using this refrigerant.