



# tecumseh

# AJ4511N

220 - 240V 1~ 50 Hz

Compressor

AJ4511N-FZ3B

HBP

R-134a / R-1234yf / R-513A

Voltage Code : FZ

| Refrigerant | Frequency | Nominal Cooling Capacity (*) |       | Sound Power<br>ISO3745 / ISO 3743-1 |
|-------------|-----------|------------------------------|-------|-------------------------------------|
|             |           | Watts                        | BTU/h |                                     |
| R-1234yf    | 50HZ      | 1456                         | 4966  | 61 dBA                              |
| R-134a      | 50HZ      | 1541                         | 5255  |                                     |
| R-513A      | 50HZ      | 1591                         | 5426  |                                     |

(\*) Operating conditions ARI 520-90 : Dew / T°Cond. 120°F / T°Evap 20°F / T°Evaporating 20°F / T°Superheat 32°F



\*Non-contractual picture

## Dimensions

|                  |                  |
|------------------|------------------|
| Weight           | 21 kg (46 lb)    |
| Length           | 246 mm (9.7 in)  |
| Width            | 178 mm (7 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)       | 32.7                        |
| Horse Power             | 1                           |
| Compressor Cooling      | Fan                         |
| Evaporating Temp. Range | -15°C to 15°C (5°F to 59°F) |
| Expansion Device        | Capil. Tube/Expans. Valve   |
| Oil Type                | P.O.E 32                    |
| Oil Charge (cc)         | 475                         |

## Electrical

|                          |                      |
|--------------------------|----------------------|
| Motor Type               | CSR                  |
| Main Winding (Ohm)       | 2.9                  |
| Start Winding (Ohm)      | 8.8                  |
| Current RLA 50Hz (A)     | 5.7                  |
| Current MCC (A)          | 8.4                  |
| Current LRA (A)          | 29.5                 |
| Start Capacitor          | 88-101 µF / 330 V    |
| Run Capacitor            | 15 µF / 400 V        |
| Overload                 | MRA38088             |
| - Time Check             | 2.8s - 5.2s / 27.5 A |
| - Open Temp / Close Temp | 105 °C / 57 °C       |
| Potential Relay          | RVA 6M3D             |
| - Pick Up / Drop Out     | / 60-135 V           |

## Pressure Equipment Directive

|                             |          |
|-----------------------------|----------|
| Max. Ambient Temp. (°C)     | +46      |
| Max. Allowable Press. (bar) | 11.5     |
| Ambient Temp. Range (°C)    | -35/+150 |
| Leak Test pressure (bar)    | 12.7     |
| Free Volume (l)             | 4.7      |

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



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**AJ4511N**

220 - 240V 1~ 50 Hz

Performances are given at rating conditions ARI 520-90  
Conditions DEW

Evaporating : 20 °F  
Superheat : 32 °F

## 50HZ R-1234yf

| Condensing | Evaporating      | (°F)    | -15 | -5   | 5    | 15   | 25   | 35   | 45    | 55    |
|------------|------------------|---------|-----|------|------|------|------|------|-------|-------|
| <b>90</b>  | Refrig. Capacity | (Btu/h) |     | 3259 | 4476 | 5976 | 7799 | 9989 | 12591 | 15654 |
|            | Power Input      | (W)     |     | 593  | 671  | 743  | 808  | 862  | 903   | 927   |
|            | Amps             | (A)     |     | 2.97 | 3.29 | 3.58 | 3.85 | 4.1  | 4.32  | 4.52  |
| <b>105</b> | Refrig. Capacity | (Btu/h) |     | 2693 | 3788 | 5124 | 6740 | 8680 | 10988 | 13714 |
|            | Power Input      | (W)     |     | 602  | 697  | 791  | 879  | 961  | 1032  | 1090  |
|            | Amps             | (A)     |     | 2.9  | 3.34 | 3.76 | 4.16 | 4.53 | 4.88  | 5.21  |
| <b>120</b> | Refrig. Capacity | (Btu/h) |     |      | 3095 | 4284 | 5712 | 7420 | 9455  | 11865 |
|            | Power Input      | (W)     |     |      | 708  | 820  | 932  | 1039 | 1139  | 1230  |
|            | Amps             | (A)     |     |      | 3.33 | 3.88 | 4.4  | 4.9  | 5.37  | 5.82  |
| <b>140</b> | Refrig. Capacity | (Btu/h) |     |      |      | 3147 | 4349 | 5776 | 7475  | 9496  |
|            | Power Input      | (W)     |     |      |      | 836  | 975  | 1115 | 1252  | 1385  |
|            | Amps             | (A)     |     |      |      | 3.92 | 4.61 | 5.27 | 5.91  | 6.53  |

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## 50HZ R-134a

| Condensing | Evaporating      | (°F)    | -15 | -5   | 5    | 15   | 25   | 35    | 45    | 55    |
|------------|------------------|---------|-----|------|------|------|------|-------|-------|-------|
| <b>90</b>  | Refrig. Capacity | (Btu/h) |     | 3222 | 4503 | 6083 | 8019 | 10366 | 13188 | 16546 |
|            | Power Input      | (W)     |     | 562  | 641  | 715  | 789  | 867   | 956   | 1058  |
|            | Amps             | (A)     |     | 2.61 | 2.96 | 3.32 | 3.67 | 4.02  | 4.37  | 4.72  |
| <b>105</b> | Refrig. Capacity | (Btu/h) |     | 2692 | 3873 | 5311 | 7061 | 9182  | 11734 | 14782 |
|            | Power Input      | (W)     |     | 564  | 666  | 758  | 846  | 935   | 1030  | 1137  |
|            | Amps             | (A)     |     | 2.6  | 3.04 | 3.47 | 3.91 | 4.35  | 4.78  | 5.21  |
| <b>120</b> | Refrig. Capacity | (Btu/h) |     |      | 3213 | 4509 | 6075 | 7969  | 10252 | 12990 |
|            | Power Input      | (W)     |     |      | 673  | 790  | 899  | 1005  | 1114  | 1230  |
|            | Amps             | (A)     |     |      | 3.06 | 3.59 | 4.11 | 4.62  | 5.14  | 5.65  |
| <b>140</b> | Refrig. Capacity | (Btu/h) |     |      |      | 3414 | 4734 | 6325  | 8249  | 10573 |
|            | Power Input      | (W)     |     |      |      | 809  | 957  | 1096  | 1233  | 1373  |
|            | Amps             | (A)     |     |      |      | 3.66 | 4.29 | 4.92  | 5.55  | 6.18  |



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## AJ4511N

220 - 240V 1~ 50 Hz

Performances are given at rating conditions ARI 520-90  
Conditions DEW

Evaporating : 20 °F  
Superheat : 32 °F

### 50HZ R-513A

| Condensing | Evaporating      | (°F)    | -15  | -5   | 5    | 15   | 25   | 35    | 45    | 55    |
|------------|------------------|---------|------|------|------|------|------|-------|-------|-------|
| <b>90</b>  | Refrig. Capacity | (Btu/h) | 2499 | 3577 | 4893 | 6498 | 8450 | 10808 | 13636 | 17001 |
|            | Power Input      | (W)     | 519  | 614  | 696  | 773  | 849  | 931   | 1024  | 1135  |
|            | Amps             | (A)     | 2.25 | 2.61 | 2.96 | 3.32 | 3.67 | 4.02  | 4.37  | 4.72  |
| <b>105</b> | Refrig. Capacity | (Btu/h) | 1940 | 2951 | 4154 | 5602 | 7347 | 9449  | 11972 | 14984 |
|            | Power Input      | (W)     | 485  | 608  | 715  | 811  | 904  | 997   | 1098  | 1213  |
|            | Amps             | (A)     | 2.15 | 2.6  | 3.04 | 3.47 | 3.91 | 4.35  | 4.78  | 5.21  |
| <b>120</b> | Refrig. Capacity | (Btu/h) |      | 2292 | 3390 | 4687 | 6234 | 8089  | 10317 | 12986 |
|            | Power Input      | (W)     |      | 576  | 715  | 839  | 955  | 1068  | 1185  | 1310  |
|            | Amps             | (A)     |      | 2.54 | 3.06 | 3.59 | 4.11 | 4.62  | 5.14  | 5.65  |
| <b>140</b> | Refrig. Capacity | (Btu/h) |      |      | 2339 | 3444 | 4738 | 6278  | 8124  | 10349 |
|            | Power Input      | (W)     |      |      | 679  | 852  | 1011 | 1162  | 1310  | 1462  |
|            | Amps             | (A)     |      |      | 3.03 | 3.66 | 4.29 | 4.92  | 5.55  | 6.18  |

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