



# 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      | 2529                         | 8623  | 61 dBA                              |
| R-134a      | 50HZ      | 2714                         | 9253  |                                     |
| R-513A      | 50HZ      | 2747                         | 9368  |                                     |

(\*) Operating conditions EN12900 : Dew / T°Cond. 50°C / T°Evap 5°C / T°Return gas temp. 20°C / T°Subcooling 0K



\*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 EN12900  
Conditions DEW

Return gas temp. : 20 °C  
Subcooling : 0 K

## 50HZ R-1234yf



| Condensing | Evaporating      | (°C)   | -25  | -20  | -15  | -10  | -5   | 0    | 5    | 10   | 15   |
|------------|------------------|--------|------|------|------|------|------|------|------|------|------|
| <b>30</b>  | Refrig. Capacity | (Watt) | 893  | 1183 | 1528 | 1932 | 2401 | 2940 | 3553 | 4246 | 5023 |
|            | Power Input      | (W)    | 526  | 595  | 660  | 721  | 775  | 820  | 853  | 874  | 879  |
|            | Amps             | (A)    | 2.73 | 3    | 3.26 | 3.49 | 3.71 | 3.91 | 4.09 | 4.25 | 4.39 |
| <b>40</b>  | Refrig. Capacity | (Watt) |      | 974  | 1281 | 1635 | 2041 | 2504 | 3028 | 3618 | 4281 |
|            | Power Input      | (W)    |      | 612  | 696  | 779  | 858  | 932  | 998  | 1054 | 1098 |
|            | Amps             | (A)    |      | 2.95 | 3.34 | 3.71 | 4.07 | 4.4  | 4.71 | 5.01 | 5.28 |
| <b>50</b>  | Refrig. Capacity | (Watt) |      |      | 1030 | 1341 | 1692 | 2086 | 2529 | 3025 | 3581 |
|            | Power Input      | (W)    |      |      | 708  | 812  | 915  | 1015 | 1111 | 1201 | 1282 |
|            | Amps             | (A)    |      |      | 3.32 | 3.83 | 4.32 | 4.79 | 5.24 | 5.67 | 6.08 |
| <b>60</b>  | Refrig. Capacity | (Watt) |      |      |      | 1037 | 1340 | 1674 | 2044 | 2454 | 2911 |
|            | Power Input      | (W)    |      |      |      | 822  | 947  | 1073 | 1198 | 1319 | 1436 |
|            | Amps             | (A)    |      |      |      | 3.85 | 4.47 | 5.07 | 5.66 | 6.22 | 6.77 |

## 50HZ R-134a



| Condensing | Evaporating      | (°C)   | -25  | -20  | -15  | -10  | -5   | 0    | 5    | 10   | 15   |
|------------|------------------|--------|------|------|------|------|------|------|------|------|------|
| <b>30</b>  | Refrig. Capacity | (Watt) | 815  | 1116 | 1474 | 1899 | 2399 | 2985 | 3665 | 4448 | 5343 |
|            | Power Input      | (W)    | 491  | 565  | 632  | 696  | 759  | 826  | 901  | 987  | 1087 |
|            | Amps             | (A)    | 2.33 | 2.64 | 2.94 | 3.24 | 3.53 | 3.83 | 4.13 | 4.42 | 4.71 |
| <b>40</b>  | Refrig. Capacity | (Watt) |      | 924  | 1252 | 1634 | 2079 | 2597 | 3196 | 3885 | 4674 |
|            | Power Input      | (W)    |      | 575  | 664  | 746  | 825  | 904  | 986  | 1076 | 1177 |
|            | Amps             | (A)    |      | 2.64 | 3.03 | 3.42 | 3.81 | 4.2  | 4.58 | 4.97 | 5.35 |
| <b>50</b>  | Refrig. Capacity | (Watt) |      |      | 1014 | 1354 | 1744 | 2195 | 2714 | 3310 | 3994 |
|            | Power Input      | (W)    |      |      | 672  | 781  | 883  | 982  | 1081 | 1184 | 1294 |
|            | Amps             | (A)    |      |      | 3.06 | 3.54 | 4.02 | 4.5  | 4.97 | 5.45 | 5.92 |
| <b>60</b>  | Refrig. Capacity | (Watt) |      |      |      | 1063 | 1400 | 1784 | 2223 | 2729 | 3308 |
|            | Power Input      | (W)    |      |      |      | 794  | 928  | 1055 | 1178 | 1302 | 1430 |
|            | Amps             | (A)    |      |      |      | 3.6  | 4.17 | 4.74 | 5.3  | 5.87 | 6.43 |



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220 - 240V 1~ 50 Hz

Performances are given at rating conditions EN12900  
Conditions DEW

Return gas temp. : 20 °C  
Subcooling : 0 K

## 50HZ R-513A

| Condensing | Evaporating (°C)        | -25  | -20  | -15  | -10  | -5   | 0    | 5    | 10   | 15   |
|------------|-------------------------|------|------|------|------|------|------|------|------|------|
| 30         | Refrig. Capacity (Watt) | 955  | 1270 | 1639 | 2070 | 2572 | 3155 | 3826 | 4596 | 5472 |
|            | Power Input (W)         | 542  | 619  | 689  | 754  | 819  | 889  | 968  | 1060 | 1169 |
|            | Amps (A)                | 2.33 | 2.64 | 2.94 | 3.24 | 3.53 | 3.83 | 4.13 | 4.42 | 4.71 |
| 40         | Refrig. Capacity (Watt) | 746  | 1042 | 1377 | 1761 | 2201 | 2706 | 3286 | 3949 | 4704 |
|            | Power Input (W)         | 514  | 620  | 714  | 800  | 882  | 964  | 1052 | 1148 | 1257 |
|            | Amps (A)                | 2.25 | 2.64 | 3.03 | 3.42 | 3.81 | 4.2  | 4.58 | 4.97 | 5.35 |
| 50         | Refrig. Capacity (Watt) |      | 793  | 1100 | 1440 | 1822 | 2254 | 2747 | 3309 | 3947 |
|            | Power Input (W)         |      | 585  | 713  | 830  | 938  | 1043 | 1148 | 1259 | 1379 |
|            | Amps (A)                |      | 2.58 | 3.06 | 3.54 | 4.02 | 4.5  | 4.97 | 5.45 | 5.92 |
| 60         | Refrig. Capacity (Watt) |      |      | 806  | 1107 | 1435 | 1800 | 2210 | 2674 | 3201 |
|            | Power Input (W)         |      |      | 679  | 836  | 980  | 1117 | 1251 | 1385 | 1525 |
|            | Amps (A)                |      |      | 3.03 | 3.6  | 4.17 | 4.74 | 5.3  | 5.87 | 6.43 |

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