



# tecumseh

# AJ4517P

220 - 240V 1~ 50 Hz

Compressor

AJ4517P-FZ3A

HBP

R-404A / R-448A / R-449A / R-452A / R-454C / R-455A

Voltage Code : FZ

| Refrigerant | Frequency | Nominal Cooling Capacity (*) |       | Sound Power<br>ISO3745 / ISO 3743-1 |
|-------------|-----------|------------------------------|-------|-------------------------------------|
|             |           | Watts                        | BTU/h |                                     |
| R-452A      | 50HZ      | 3268                         | 11142 | 64 dBA                              |
| R-404A      | 50HZ      | 3255                         | 11101 |                                     |
| R-448A      | 50HZ      | 3267                         | 11139 |                                     |
| R-449A      | 50HZ      | 3267                         | 11139 |                                     |
| R-454C      | 50HZ      | 2925                         | 9974  |                                     |
| R-455A      | 50HZ      | 3140                         | 10708 |                                     |

(\*) 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           | 22.1 kg (49 lb) |
| Length           | 246 mm (9.7 in) |
| Width            | 218 mm (8.6 in) |
| Height           | 280 mm (11 in)  |
| Ø Suction Tube   | 5/8 in (15.9mm) |
| Ø Discharge Tube | 3/8 in (9.52mm) |

## Certificates



## General

|                         |                             |
|-------------------------|-----------------------------|
| Compressor Type         | Reciprocating               |
| Displacement (cc)       | 26                          |
| Horse Power             | 1-1/2                       |
| 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)       | 2.03                 |
| Start Winding (Ohm)      | 7.6                  |
| Current RLA 50Hz (A)     | 7.6                  |
| Current MCC (A)          | 11.2                 |
| Current LRA (A)          | 42.2                 |
| Start Capacitor          | 88-101 µF / 330 V    |
| Run Capacitor            | 17.5 µF / 400 V      |
| Overload                 | MST16AHW             |
| - Time Check             | 2.8s - 5.2s / 32.5 A |
| - Open Temp / Close Temp | 135 °C / 61 °C       |
| Potential Relay          | RVA 6M3D             |
| - Pick Up / Drop Out     | / 60-135 V           |

## Pressure Equipment Directive

|                             |          |
|-----------------------------|----------|
| Max. Ambient Temp. (°C)     | +46      |
| Max. Allowable Press. (bar) | 21.5     |
| Ambient Temp. Range (°C)    | -35/+150 |
| Leak Test pressure (bar)    | 23.7     |
| Free Volume (l)             | 4.7      |

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



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**AJ4517P**

220 - 240V 1~ 50 Hz

Performances are given at rating conditions EN12900  
Conditions DEW

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

## 50HZ R-452A

| Condensing | Evaporating (°C)        | -25  | -20  | -15  | -10  | -5   | 0    | 5    | 10   | 15   |
|------------|-------------------------|------|------|------|------|------|------|------|------|------|
| <b>30</b>  | Refrig. Capacity (Watt) | 1239 | 1627 | 2074 | 2591 | 3189 | 3877 | 4666 | 5567 | 6591 |
|            | Power Input (W)         | 726  | 815  | 894  | 964  | 1024 | 1075 | 1115 | 1146 | 1166 |
|            | Amps (A)                | 3.81 | 4.14 | 4.46 | 4.78 | 5.09 | 5.4  | 5.71 | 6.02 | 6.34 |
| <b>40</b>  | Refrig. Capacity (Watt) |      | 1320 | 1727 | 2187 | 2711 | 3309 | 3992 | 4771 | 5655 |
|            | Power Input (W)         |      | 846  | 950  | 1047 | 1139 | 1225 | 1305 | 1378 | 1445 |
|            | Amps (A)                |      | 4.31 | 4.74 | 5.16 | 5.56 | 5.95 | 6.34 | 6.72 | 7.1  |
| <b>50</b>  | Refrig. Capacity (Watt) |      |      | 1355 | 1752 | 2196 | 2697 | 3268 | 3917 | 4655 |
|            | Power Input (W)         |      |      | 985  | 1106 | 1224 | 1339 | 1452 | 1563 | 1670 |
|            | Amps (A)                |      |      | 4.9  | 5.46 | 6    | 6.52 | 7.02 | 7.51 | 7.99 |
| <b>60</b>  | Refrig. Capacity (Watt) |      |      |      | 1302 | 1659 | 2058 | 2508 | 3022 | 3608 |
|            | Power Input (W)         |      |      |      | 1160 | 1298 | 1438 | 1579 | 1720 | 1863 |
|            | Amps (A)                |      |      |      | 5.6  | 6.32 | 7    | 7.66 | 8.3  | 8.93 |

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## 50HZ R-404A

| Condensing | Evaporating (°C)        | -25  | -20  | -15  | -10  | -5   | 0    | 5    | 10   | 15   |
|------------|-------------------------|------|------|------|------|------|------|------|------|------|
| <b>30</b>  | Refrig. Capacity (Watt) | 1323 | 1716 | 2168 | 2688 | 3288 | 3975 | 4761 | 5655 | 6667 |
|            | Power Input (W)         | 777  | 857  | 932  | 1002 | 1069 | 1134 | 1197 | 1260 | 1323 |
|            | Amps (A)                | 3.98 | 4.33 | 4.66 | 4.98 | 5.3  | 5.6  | 5.9  | 6.2  | 6.5  |
| <b>40</b>  | Refrig. Capacity (Watt) | 1028 | 1392 | 1797 | 2254 | 2772 | 3361 | 4031 | 4792 | 5653 |
|            | Power Input (W)         | 799  | 904  | 1002 | 1095 | 1184 | 1268 | 1351 | 1432 | 1512 |
|            | Amps (A)                | 4.1  | 4.54 | 4.97 | 5.38 | 5.78 | 6.17 | 6.55 | 6.93 | 7.3  |
| <b>50</b>  | Refrig. Capacity (Watt) |      | 1053 | 1406 | 1793 | 2223 | 2708 | 3255 | 3876 | 4580 |
|            | Power Input (W)         |      | 921  | 1049 | 1170 | 1285 | 1396 | 1503 | 1608 | 1711 |
|            | Amps (A)                |      | 4.63 | 5.19 | 5.73 | 6.25 | 6.75 | 7.25 | 7.74 | 8.22 |
| <b>60</b>  | Refrig. Capacity (Watt) |      |      | 1009 | 1320 | 1656 | 2030 | 2449 | 2923 | 3464 |
|            | Power Input (W)         |      |      | 1062 | 1217 | 1366 | 1509 | 1647 | 1781 | 1913 |
|            | Amps (A)                |      |      | 5.25 | 5.95 | 6.63 | 7.29 | 7.93 | 8.56 | 9.19 |



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## AJ4517P

220 - 240V 1~ 50 Hz

Performances are given at rating conditions EN12900  
Conditions DEW

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

### 50HZ R-448A\*

| Condensing | Evaporating (°C)        | -25  | -20  | -15  | -10  | -5   | 0    | 5    | 10   | 15   |
|------------|-------------------------|------|------|------|------|------|------|------|------|------|
| <b>30</b>  | Refrig. Capacity (Watt) | 1093 | 1469 | 1908 | 2420 | 3017 | 3709 | 4509 | 5426 | 6473 |
|            | Power Input (W)         | 684  | 756  | 826  | 893  | 959  | 1023 | 1086 | 1148 | 1210 |
|            | Amps (A)                | 3.51 | 3.82 | 4.13 | 4.44 | 4.75 | 5.06 | 5.36 | 5.65 | 5.94 |
| <b>40</b>  | Refrig. Capacity (Watt) |      | 1199 | 1600 | 2059 | 2589 | 3200 | 3904 | 4712 | 5634 |
|            | Power Input (W)         |      | 801  | 892  | 980  | 1065 | 1149 | 1230 | 1309 | 1388 |
|            | Amps (A)                |      | 4.02 | 4.42 | 4.81 | 5.2  | 5.59 | 5.96 | 6.33 | 6.7  |
| <b>50</b>  | Refrig. Capacity (Watt) |      |      | 1276 | 1679 | 2137 | 2663 | 3267 | 3960 | 4754 |
|            | Power Input (W)         |      |      | 935  | 1051 | 1165 | 1275 | 1382 | 1487 | 1591 |
|            | Amps (A)                |      |      | 4.63 | 5.15 | 5.66 | 6.17 | 6.67 | 7.16 | 7.64 |
| <b>60</b>  | Refrig. Capacity (Watt) |      |      |      | 1297 | 1680 | 2115 | 2615 | 3190 | 3852 |
|            | Power Input (W)         |      |      |      | 1094 | 1243 | 1389 | 1530 | 1669 | 1805 |
|            | Amps (A)                |      |      |      | 5.34 | 6.03 | 6.71 | 7.37 | 8.03 | 8.67 |

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### 50HZ R-449A\*

| Condensing | Evaporating (°C)        | -25  | -20  | -15  | -10  | -5   | 0    | 5    | 10   | 15   |
|------------|-------------------------|------|------|------|------|------|------|------|------|------|
| <b>30</b>  | Refrig. Capacity (Watt) | 1093 | 1469 | 1908 | 2420 | 3017 | 3709 | 4509 | 5426 | 6473 |
|            | Power Input (W)         | 684  | 756  | 826  | 893  | 959  | 1023 | 1086 | 1148 | 1210 |
|            | Amps (A)                | 3.51 | 3.82 | 4.13 | 4.44 | 4.75 | 5.06 | 5.36 | 5.65 | 5.94 |
| <b>40</b>  | Refrig. Capacity (Watt) |      | 1199 | 1600 | 2059 | 2589 | 3200 | 3904 | 4712 | 5634 |
|            | Power Input (W)         |      | 801  | 892  | 980  | 1065 | 1149 | 1230 | 1309 | 1388 |
|            | Amps (A)                |      | 4.02 | 4.42 | 4.81 | 5.2  | 5.59 | 5.96 | 6.33 | 6.7  |
| <b>50</b>  | Refrig. Capacity (Watt) |      |      | 1276 | 1679 | 2137 | 2663 | 3267 | 3960 | 4754 |
|            | Power Input (W)         |      |      | 935  | 1051 | 1165 | 1275 | 1382 | 1487 | 1591 |
|            | Amps (A)                |      |      | 4.63 | 5.15 | 5.66 | 6.17 | 6.67 | 7.16 | 7.64 |
| <b>60</b>  | Refrig. Capacity (Watt) |      |      |      | 1297 | 1680 | 2115 | 2615 | 3190 | 3852 |
|            | Power Input (W)         |      |      |      | 1094 | 1243 | 1389 | 1530 | 1669 | 1805 |
|            | Amps (A)                |      |      |      | 5.34 | 6.03 | 6.71 | 7.37 | 8.03 | 8.67 |

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



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**AJ4517P**

220 - 240V 1~ 50 Hz

Performances are given at rating conditions EN12900  
Conditions DEW

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

## 50HZ R-454C



| Condensing | Evaporating      | (°C)   | -25  | -20  | -15  | -10  | -5   | 0    | 5    | 10   | 15   |
|------------|------------------|--------|------|------|------|------|------|------|------|------|------|
| <b>30</b>  | Refrig. Capacity | (Watt) | 918  | 1263 | 1667 | 2139 | 2689 | 3327 | 4064 | 4908 | 5870 |
|            | Power Input      | (W)    | 610  | 676  | 735  | 789  | 838  | 880  | 918  | 950  | 977  |
|            | Amps             | (A)    | 3.22 | 3.48 | 3.74 | 3.97 | 4.18 | 4.37 | 4.53 | 4.67 | 4.79 |
| <b>40</b>  | Refrig. Capacity | (Watt) |      | 1015 | 1383 | 1807 | 2296 | 2860 | 3510 | 4256 | 5106 |
|            | Power Input      | (W)    |      | 715  | 794  | 867  | 933  | 994  | 1048 | 1096 | 1138 |
|            | Amps             | (A)    |      | 3.65 | 3.99 | 4.3  | 4.59 | 4.86 | 5.11 | 5.32 | 5.51 |
| <b>50</b>  | Refrig. Capacity | (Watt) |      |      | 1087 | 1457 | 1880 | 2366 | 2925 | 3566 | 4300 |
|            | Power Input      | (W)    |      |      | 826  | 925  | 1017 | 1102 | 1180 | 1251 | 1316 |
|            | Amps             | (A)    |      |      | 4.13 | 4.56 | 4.96 | 5.35 | 5.7  | 6.03 | 6.33 |
| <b>60</b>  | Refrig. Capacity | (Watt) |      |      |      | 1110 | 1462 | 1865 | 2327 | 2859 | 3471 |
|            | Power Input      | (W)    |      |      |      | 953  | 1078 | 1195 | 1304 | 1405 | 1499 |
|            | Amps             | (A)    |      |      |      | 4.67 | 5.23 | 5.76 | 6.26 | 6.73 | 7.17 |

## 50HZ R-455A



| Condensing | Evaporating      | (°C)   | -25  | -20  | -15  | -10  | -5   | 0    | 5    | 10   | 15   |
|------------|------------------|--------|------|------|------|------|------|------|------|------|------|
| <b>30</b>  | Refrig. Capacity | (Watt) | 968  | 1347 | 1791 | 2314 | 2926 | 3639 | 4463 | 5410 | 6492 |
|            | Power Input      | (W)    | 638  | 710  | 774  | 831  | 880  | 921  | 953  | 977  | 992  |
|            | Amps             | (A)    | 3.35 | 3.65 | 3.92 | 4.17 | 4.39 | 4.58 | 4.73 | 4.85 | 4.93 |
| <b>40</b>  | Refrig. Capacity | (Watt) |      | 1068 | 1466 | 1928 | 2464 | 3085 | 3804 | 4631 | 5577 |
|            | Power Input      | (W)    |      | 745  | 833  | 913  | 987  | 1052 | 1111 | 1161 | 1203 |
|            | Amps             | (A)    |      | 3.81 | 4.18 | 4.53 | 4.85 | 5.14 | 5.4  | 5.62 | 5.8  |
| <b>50</b>  | Refrig. Capacity | (Watt) |      |      | 1146 | 1543 | 2001 | 2529 | 3140 | 3844 | 4653 |
|            | Power Input      | (W)    |      |      | 869  | 976  | 1076 | 1170 | 1257 | 1336 | 1408 |
|            | Amps             | (A)    |      |      | 4.32 | 4.81 | 5.27 | 5.69 | 6.08 | 6.44 | 6.75 |
| <b>60</b>  | Refrig. Capacity | (Watt) |      |      |      | 1180 | 1557 | 1990 | 2491 | 3070 | 3739 |
|            | Power Input      | (W)    |      |      |      | 1017 | 1147 | 1272 | 1389 | 1501 | 1605 |
|            | Amps             | (A)    |      |      |      | 4.91 | 5.53 | 6.13 | 6.69 | 7.21 | 7.7  |