



# tecumseh

# CAJ4517Z

220 - 240V 1~ 50 Hz

Compressor

AJ4517Z-FZ3C

HBP

R-404A / R-448A / R-449A / R-452A / R-22 / R-407C

Voltage Code : FZ

| Refrigerant | Frequency | Nominal Cooling Capacity (*) |       | Sound Power<br>ISO3745 / ISO 3743-1 |
|-------------|-----------|------------------------------|-------|-------------------------------------|
|             |           | Watts                        | BTU/h |                                     |
| R-452A      | 50HZ      | 3985                         | 13590 | 64 dBA                              |
| R-404A      | 50HZ      | 4030                         | 13742 |                                     |
| R-448A      | 50HZ      | 3857                         | 13153 |                                     |
| R-449A      | 50HZ      | 3868                         | 13191 |                                     |
| R-407C      | 50HZ      | 3636                         | 12397 |                                     |
| R-22        | 50HZ      | 3753                         | 12799 |                                     |

(\*) Operating conditions ASHRAE : Dew / T°Cond. 130°F / T°Evap 45°F / T°Return gas temp. 95°F / T°Subcooling 15°F



\*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                           |
| 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)       | 1.7                  |
| Start Winding (Ohm)      | 6.8                  |
| Current RLA 50Hz (A)     | 7.3                  |
| Current MCC (A)          | 12.7                 |
| Current LRA (A)          | 38.5                 |
| Start Capacitor          | 100-115 µF / 330 V   |
| Run Capacitor            | 17.5 µF / 400 V      |
| Overload                 | MST00AGZ-3290        |
| - Time Check             | 2.8s - 5.2s / 35.5 A |
| - Open Temp / Close Temp | 120 °C / 61 °C       |
| Potential Relay          | RVA 4AP3D            |
| - Pick Up / Drop Out     | 300-328 V / 60-121 V |

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



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**CAJ4517Z**

220 - 240V 1~ 50 Hz

Performances are given at rating conditions ASHRAE  
Conditions DEW

Return gas temp. : 95 °F  
Subcooling : 15 °F

## 50HZ R-452A

| Condensing | Evaporating      | (°F)    | -15 | -5   | 5    | 15    | 25    | 35    | 45    | 55    |
|------------|------------------|---------|-----|------|------|-------|-------|-------|-------|-------|
| <b>90</b>  | Refrig. Capacity | (Btu/h) |     | 6126 | 8028 | 10306 | 13018 | 16226 | 19989 | 24370 |
|            | Power Input      | (W)     |     | 801  | 885  | 966   | 1045  | 1125  | 1210  | 1304  |
|            | Amps             | (A)     |     | 4.18 | 4.52 | 4.85  | 5.17  | 5.49  | 5.79  | 6.09  |
| <b>105</b> | Refrig. Capacity | (Btu/h) |     |      | 6947 | 8997  | 11418 | 14271 | 17621 | 21535 |
|            | Power Input      | (W)     |     |      | 942  | 1043  | 1141  | 1239  | 1338  | 1444  |
|            | Amps             | (A)     |     |      | 4.83 | 5.28  | 5.72  | 6.16  | 6.58  | 7     |
| <b>120</b> | Refrig. Capacity | (Btu/h) |     |      |      | 7654  | 9780  | 12277 | 15213 | 18658 |
|            | Power Input      | (W)     |     |      |      | 1106  | 1228  | 1347  | 1466  | 1589  |
|            | Amps             | (A)     |     |      |      | 5.56  | 6.12  | 6.68  | 7.22  | 7.76  |
| <b>140</b> | Refrig. Capacity | (Btu/h) |     |      |      |       | 7553  | 9578  | 11965 | 14798 |
|            | Power Input      | (W)     |     |      |      |       | 1322  | 1478  | 1630  | 1783  |
|            | Amps             | (A)     |     |      |      |       | 6.41  | 7.13  | 7.84  | 8.55  |

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## 50HZ R-404A

| Condensing | Evaporating      | (°F)    | -15 | -5   | 5    | 15    | 25    | 35    | 45    | 55    |
|------------|------------------|---------|-----|------|------|-------|-------|-------|-------|-------|
| <b>90</b>  | Refrig. Capacity | (Btu/h) |     | 6520 | 8454 | 10757 | 13488 | 16702 | 20462 | 24830 |
|            | Power Input      | (W)     |     | 846  | 931  | 1012  | 1090  | 1169  | 1253  | 1343  |
|            | Amps             | (A)     |     | 4.42 | 4.76 | 5.09  | 5.4   | 5.7   | 5.99  | 6.27  |
| <b>105</b> | Refrig. Capacity | (Btu/h) |     |      | 7313 | 9375  | 11794 | 14633 | 17955 | 21828 |
|            | Power Input      | (W)     |     |      | 993  | 1095  | 1192  | 1287  | 1384  | 1486  |
|            | Amps             | (A)     |     |      | 5.1  | 5.54  | 5.98  | 6.4   | 6.81  | 7.2   |
| <b>120</b> | Refrig. Capacity | (Btu/h) |     |      |      | 7968  | 10077 | 12541 | 15426 | 18807 |
|            | Power Input      | (W)     |     |      |      | 1163  | 1283  | 1400  | 1515  | 1633  |
|            | Amps             | (A)     |     |      |      | 5.85  | 6.4   | 6.94  | 7.46  | 7.98  |
| <b>140</b> | Refrig. Capacity | (Btu/h) |     |      |      |       | 7793  | 9767  | 12086 | 14837 |
|            | Power Input      | (W)     |     |      |      |       | 1386  | 1538  | 1685  | 1831  |
|            | Amps             | (A)     |     |      |      |       | 6.72  | 7.42  | 8.1   | 8.78  |



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**CAJ4517Z**

220 - 240V 1~ 50 Hz

Performances are given at rating conditions ASHRAE  
Conditions DEW

Return gas temp. : 95 °F  
Subcooling : 15 °F

### 50HZ R-448A\*

| Condensing | Evaporating      | (°F)    | -15 | -5 | 5    | 15   | 25    | 35    | 45    | 55    |
|------------|------------------|---------|-----|----|------|------|-------|-------|-------|-------|
| <b>90</b>  | Refrig. Capacity | (Btu/h) |     |    | 7183 | 9371 | 11993 | 15114 | 18797 | 23107 |
|            | Power Input      | (W)     |     |    | 826  | 903  | 979   | 1057  | 1139  | 1226  |
|            | Amps             | (A)     |     |    | 4.22 | 4.54 | 4.85  | 5.16  | 5.45  | 5.72  |
| <b>105</b> | Refrig. Capacity | (Btu/h) |     |    | 6224 | 8205 | 10564 | 13367 | 16678 | 20566 |
|            | Power Input      | (W)     |     |    | 884  | 980  | 1074  | 1168  | 1263  | 1362  |
|            | Amps             | (A)     |     |    | 4.54 | 4.97 | 5.39  | 5.81  | 6.21  | 6.6   |
| <b>120</b> | Refrig. Capacity | (Btu/h) |     |    |      | 7028 | 9127  | 11614 | 14557 | 18027 |
|            | Power Input      | (W)     |     |    |      | 1046 | 1164  | 1280  | 1395  | 1512  |
|            | Amps             | (A)     |     |    |      | 5.26 | 5.8   | 6.34  | 6.87  | 7.39  |
| <b>140</b> | Refrig. Capacity | (Btu/h) |     |    |      |      | 7233  | 9306  | 11766 | 14688 |
|            | Power Input      | (W)     |     |    |      |      | 1265  | 1420  | 1572  | 1723  |
|            | Amps             | (A)     |     |    |      |      | 6.13  | 6.85  | 7.56  | 8.26  |

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### 50HZ R-449A\*

| Condensing | Evaporating      | (°F)    | -15 | -5 | 5    | 15   | 25    | 35    | 45    | 55    |
|------------|------------------|---------|-----|----|------|------|-------|-------|-------|-------|
| <b>90</b>  | Refrig. Capacity | (Btu/h) |     |    | 7195 | 9386 | 12013 | 15139 | 18829 | 23148 |
|            | Power Input      | (W)     |     |    | 826  | 903  | 979   | 1057  | 1139  | 1226  |
|            | Amps             | (A)     |     |    | 4.22 | 4.54 | 4.85  | 5.16  | 5.45  | 5.72  |
| <b>105</b> | Refrig. Capacity | (Btu/h) |     |    | 6236 | 8221 | 10585 | 13393 | 16712 | 20610 |
|            | Power Input      | (W)     |     |    | 884  | 980  | 1074  | 1168  | 1263  | 1362  |
|            | Amps             | (A)     |     |    | 4.54 | 4.97 | 5.39  | 5.81  | 6.21  | 6.6   |
| <b>120</b> | Refrig. Capacity | (Btu/h) |     |    |      | 7044 | 9149  | 11642 | 14593 | 18074 |
|            | Power Input      | (W)     |     |    |      | 1046 | 1164  | 1280  | 1395  | 1512  |
|            | Amps             | (A)     |     |    |      | 5.26 | 5.8   | 6.34  | 6.87  | 7.39  |
| <b>140</b> | Refrig. Capacity | (Btu/h) |     |    |      |      | 7256  | 9337  | 11806 | 14741 |
|            | Power Input      | (W)     |     |    |      |      | 1265  | 1420  | 1572  | 1723  |
|            | Amps             | (A)     |     |    |      |      | 6.13  | 6.85  | 7.56  | 8.26  |

\* 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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**CAJ4517Z**

220 - 240V 1~ 50 Hz

Performances are given at rating conditions ASHRAE  
Conditions DEW

Return gas temp. : 95 °F  
Subcooling : 15 °F

## 50HZ R-407C

| Condensing | Evaporating      | (°F)    | -15 | -5   | 5    | 15   | 25    | 35    | 45    | 55    |
|------------|------------------|---------|-----|------|------|------|-------|-------|-------|-------|
| <b>90</b>  | Refrig. Capacity | (Btu/h) |     | 4812 | 6482 | 8526 | 11005 | 13983 | 17521 | 21682 |
|            | Power Input      | (W)     |     | 703  | 781  | 853  | 922   | 992   | 1064  | 1141  |
|            | Amps             | (A)     |     | 3.68 | 3.99 | 4.29 | 4.57  | 4.83  | 5.09  | 5.33  |
| <b>105</b> | Refrig. Capacity | (Btu/h) |     | 4093 | 5628 | 7483 | 9723  | 12410 | 15609 | 19384 |
|            | Power Input      | (W)     |     | 729  | 830  | 924  | 1013  | 1101  | 1189  | 1281  |
|            | Amps             | (A)     |     | 3.83 | 4.26 | 4.68 | 5.08  | 5.47  | 5.85  | 6.21  |
| <b>120</b> | Refrig. Capacity | (Btu/h) |     |      | 4748 | 6417 | 8419  | 10817 | 13678 | 17070 |
|            | Power Input      | (W)     |     |      | 859  | 979  | 1094  | 1204  | 1314  | 1425  |
|            | Amps             | (A)     |     |      | 4.38 | 4.93 | 5.45  | 5.97  | 6.47  | 6.96  |
| <b>140</b> | Refrig. Capacity | (Btu/h) |     |      | 3587 | 5013 | 6701  | 8718  | 11133 | 14020 |
|            | Power Input      | (W)     |     |      | 859  | 1023 | 1179  | 1327  | 1473  | 1618  |
|            | Amps             | (A)     |     |      | 4.29 | 5.01 | 5.71  | 6.41  | 7.09  | 7.75  |

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## 50HZ R-22

| Condensing | Evaporating      | (°F)    | -5 | 5    | 15   | 25    | 35    | 45    | 55    |
|------------|------------------|---------|----|------|------|-------|-------|-------|-------|
| <b>105</b> | Refrig. Capacity | (Btu/h) |    | 6170 | 7962 | 10107 | 12652 | 15649 | 19146 |
|            | Power Input      | (W)     |    | 913  | 1001 | 1086  | 1171  | 1258  | 1351  |
|            | Amps             | (A)     |    | 4.69 | 5.07 | 5.45  | 5.82  | 6.19  | 6.55  |
| <b>120</b> | Refrig. Capacity | (Btu/h) |    |      | 6996 | 8928  | 11224 | 13934 | 17108 |
|            | Power Input      | (W)     |    |      | 1074 | 1181  | 1286  | 1392  | 1502  |
|            | Amps             | (A)     |    |      | 5.4  | 5.89  | 6.38  | 6.86  | 7.34  |
| <b>140</b> | Refrig. Capacity | (Btu/h) |    |      |      | 7386  | 9352  | 11683 | 14432 |
|            | Power Input      | (W)     |    |      |      | 1296  | 1435  | 1573  | 1712  |
|            | Amps             | (A)     |    |      |      | 6.28  | 6.92  | 7.56  | 8.2   |