



# tecumseh

# AE4470Z-FZ3C

220 - 240V 1~ 50 Hz

Compressor

CBP/HBP (M-HBP)

R-404A

Voltage Code : FZ

| Refrigerant | Frequency | Nominal Cooling Capacity (*) |       | Sound Power<br>ISO3745 / ISO 3743-1 |
|-------------|-----------|------------------------------|-------|-------------------------------------|
|             |           | Watts                        | BTU/h |                                     |
| R-452A      | 50HZ      | 1514                         | 5164  |                                     |
| R-404A      | 50HZ      | 1497                         | 5106  |                                     |
| R-448A      | 50HZ      | 1623                         | 5533  |                                     |
| R-449A      | 50HZ      | 1618                         | 5519  |                                     |

(\*) 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           | 12.3 kg (27 lb) |
| Length           | 198 mm (7.8 in) |
| Width            | 161 mm (6.3 in) |
| Height           | 207 mm (8.2 in) |
| Ø Suction Tube   | 3/8 in (9.52mm) |
| Ø Discharge Tube | 1/4 in (6.35mm) |

## Certificates



## General

|                         |                             |
|-------------------------|-----------------------------|
| Compressor Type         | Reciprocating               |
| Displacement (cc)       | 12                          |
| Horse Power             | 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)         | 366                         |

## Electrical

|                          |                    |
|--------------------------|--------------------|
| Motor Type               | CSR                |
| Main Winding (Ohm)       | 4.86               |
| Start Winding (Ohm)      | 12.16              |
| Current RLA 50Hz (A)     | 3.9                |
| Current LRA (A)          | 18.2               |
| Start Capacitor          | 88-108 µF / 330 V  |
| Run Capacitor            | 20 µF / 400 V      |
| Overload                 | MSP28APW-122       |
| - Time Check             | 6.5-15.0s / 14.0 A |
| - Open Temp / Close Temp | 135 °C / 61 °C     |
| Potential Relay          | RVA6M3C            |
| - Pick Up / Drop Out     | / 60-135 V         |

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



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**AE4470Z-FZ3C**

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) | 653  | 821  | 1017 | 1244 | 1506 | 1806 | 2148 | 2536 | 2971 |
|            | Power Input (W)         | 529  | 524  | 533  | 552  | 579  | 614  | 652  | 694  | 735  |
|            | Amps (A)                | 2.14 | 2.27 | 2.4  | 2.54 | 2.69 | 2.85 | 3.02 | 3.2  | 3.39 |
| <b>40</b>  | Refrig. Capacity (Watt) |      | 713  | 877  | 1067 | 1286 | 1538 | 1826 | 2152 | 2521 |
|            | Power Input (W)         |      | 554  | 568  | 592  | 625  | 665  | 708  | 754  | 799  |
|            | Amps (A)                |      | 2.39 | 2.55 | 2.71 | 2.89 | 3.07 | 3.27 | 3.47 | 3.68 |
| <b>50</b>  | Refrig. Capacity (Watt) |      |      | 734  | 890  | 1070 | 1277 | 1514 | 1784 | 2088 |
|            | Power Input (W)         |      |      | 599  | 630  | 668  | 713  | 762  | 812  | 863  |
|            | Amps (A)                |      |      | 2.69 | 2.88 | 3.08 | 3.29 | 3.5  | 3.73 | 3.97 |
| <b>60</b>  | Refrig. Capacity (Watt) |      |      |      | 716  | 860  | 1025 | 1213 | 1426 | 1667 |
|            | Power Input (W)         |      |      |      | 665  | 710  | 761  | 815  | 871  | 926  |
|            | Amps (A)                |      |      |      | 3.04 | 3.27 | 3.5  | 3.74 | 3.99 | 4.25 |

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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) | 509  | 632  | 785  | 969  | 1185 | 1434 | 1716 | 2032 | 2382 |
|            | Power Input (W)         | 488  | 512  | 539  | 568  | 597  | 624  | 650  | 671  | 687  |
|            | Amps (A)                | 2.23 | 2.34 | 2.47 | 2.6  | 2.73 | 2.86 | 2.97 | 3.07 | 3.14 |
| <b>40</b>  | Refrig. Capacity (Watt) | 505  | 625  | 772  | 945  | 1146 | 1376 | 1635 | 1923 | 2240 |
|            | Power Input (W)         | 490  | 523  | 559  | 597  | 636  | 673  | 708  | 738  | 764  |
|            | Amps (A)                | 2.27 | 2.42 | 2.59 | 2.76 | 2.94 | 3.11 | 3.27 | 3.41 | 3.53 |
| <b>50</b>  | Refrig. Capacity (Watt) |      | 560  | 700  | 864  | 1051 | 1262 | 1497 | 1757 | 2040 |
|            | Power Input (W)         |      | 544  | 592  | 642  | 692  | 740  | 787  | 829  | 866  |
|            | Amps (A)                |      | 2.52 | 2.74 | 2.96 | 3.19 | 3.42 | 3.63 | 3.83 | 4.01 |
| <b>60</b>  | Refrig. Capacity (Watt) |      |      | 614  | 765  | 936  | 1125 | 1334 | 1560 | 1803 |
|            | Power Input (W)         |      |      | 617  | 680  | 743  | 806  | 866  | 922  | 973  |
|            | Amps (A)                |      |      | 2.85 | 3.14 | 3.43 | 3.72 | 4    | 4.26 | 4.5  |



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**AE4470Z-FZ3C**

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) | 685  | 862  | 1068 | 1307 | 1583 | 1899 | 2259 | 2668 | 3127 |
|            | Power Input (W)         | 508  | 504  | 511  | 530  | 556  | 589  | 626  | 666  | 706  |
|            | Amps (A)                | 2.12 | 2.24 | 2.37 | 2.51 | 2.66 | 2.82 | 2.99 | 3.17 | 3.36 |
| <b>40</b>  | Refrig. Capacity (Watt) |      | 753  | 927  | 1128 | 1361 | 1628 | 1934 | 2282 | 2674 |
|            | Power Input (W)         |      | 532  | 545  | 569  | 600  | 638  | 680  | 724  | 768  |
|            | Amps (A)                |      | 2.37 | 2.52 | 2.68 | 2.86 | 3.04 | 3.23 | 3.43 | 3.64 |
| <b>50</b>  | Refrig. Capacity (Watt) |      |      | 784  | 952  | 1145 | 1367 | 1623 | 1913 | 2243 |
|            | Power Input (W)         |      |      | 575  | 604  | 642  | 685  | 731  | 780  | 828  |
|            | Amps (A)                |      |      | 2.66 | 2.85 | 3.05 | 3.25 | 3.47 | 3.69 | 3.92 |
| <b>60</b>  | Refrig. Capacity (Watt) |      |      |      | 781  | 938  | 1120 | 1328 | 1565 | 1835 |
|            | Power Input (W)         |      |      |      | 639  | 682  | 731  | 783  | 836  | 890  |
|            | Amps (A)                |      |      |      | 3.01 | 3.23 | 3.46 | 3.7  | 3.94 | 4.2  |

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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) | 684  | 861  | 1067 | 1305 | 1580 | 1896 | 2256 | 2663 | 3122 |
|            | Power Input (W)         | 508  | 504  | 511  | 530  | 556  | 589  | 626  | 666  | 706  |
|            | Amps (A)                | 2.12 | 2.24 | 2.37 | 2.51 | 2.66 | 2.82 | 2.99 | 3.17 | 3.36 |
| <b>40</b>  | Refrig. Capacity (Watt) |      | 752  | 925  | 1126 | 1358 | 1625 | 1930 | 2277 | 2669 |
|            | Power Input (W)         |      | 532  | 545  | 569  | 600  | 638  | 680  | 724  | 768  |
|            | Amps (A)                |      | 2.37 | 2.52 | 2.68 | 2.86 | 3.04 | 3.23 | 3.43 | 3.64 |
| <b>50</b>  | Refrig. Capacity (Watt) |      |      | 782  | 949  | 1142 | 1364 | 1618 | 1908 | 2237 |
|            | Power Input (W)         |      |      | 575  | 604  | 642  | 685  | 731  | 780  | 828  |
|            | Amps (A)                |      |      | 2.66 | 2.85 | 3.05 | 3.25 | 3.47 | 3.69 | 3.92 |
| <b>60</b>  | Refrig. Capacity (Watt) |      |      |      | 778  | 935  | 1116 | 1323 | 1560 | 1829 |
|            | Power Input (W)         |      |      |      | 639  | 682  | 731  | 783  | 836  | 890  |
|            | Amps (A)                |      |      |      | 3.01 | 3.23 | 3.46 | 3.7  | 3.94 | 4.2  |

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