



# tecumseh

# FH2511Z-XC3A

220 - 240V 1~ 50 Hz

Compressor

LBP

R-452A / R-404A

Voltage Code : XC

| Refrigerant | Frequency | Nominal Cooling Capacity (*) |       | Sound Power<br>ISO3745 / ISO 3743-1 |
|-------------|-----------|------------------------------|-------|-------------------------------------|
|             |           | Watts                        | BTU/h |                                     |
| R-452A      | 50HZ      | 1639                         | 5589  | 75 dBA                              |
| R-404A      | 50HZ      | 1832                         | 6246  |                                     |
| R-448A      | 50HZ      | 1435                         | 4893  |                                     |
| R-449A      | 50HZ      | 1435                         | 4893  |                                     |

(\*) Operating conditions EN12900 : Dew / T°Cond. 40°C / T°Evap -35°C / T°Return gas temp. 20°C / T°Subcooling 0K



\*Non-contractual picture

## Dimensions

|                  |                     |
|------------------|---------------------|
| Weight           | 33.5 kg (74 lb)     |
| Length           | 274 mm (10.8 in)    |
| Width            | 288 mm (11.3 in)    |
| Height           | 354 mm (13.9 in)    |
| Ø Suction Tube   | 1-1/4 in (Rotolock) |
| Ø Discharge Tube | 1-1/4 in (Rotolock) |

## Certificates



## General

|                         |                                  |
|-------------------------|----------------------------------|
| Compressor Type         | Reciprocating                    |
| Displacement (cc)       | 68                               |
| Horse Power             | 3                                |
| Compressor Cooling      | Fan                              |
| Evaporating Temp. Range | -40°C to -12.2°C (-40°F to 10°F) |
| Oil Type                | P.O.E 32                         |
| Oil Charge (cc)         | 1140                             |

## Electrical

|                          |                      |
|--------------------------|----------------------|
| Motor Type               | CSR                  |
| Main Winding (Ohm)       | 0.75                 |
| Start Winding (Ohm)      | 2.02                 |
| Current RLA 50Hz (A)     | 8.03                 |
| Current MCC (A)          | 24                   |
| Current LRA (A)          | 71                   |
| Start Capacitor          | 161-193 µF / 330 V   |
| Run Capacitor            | 60 µF / 400 V        |
| Overload                 | 15HM 2357-148        |
| - Time Check             | 2.0-10s / 64 A       |
| - Open Temp / Close Temp | 130 °C / 69 °C       |
| Potential Relay          | RVA 3AH3D            |
| - Pick Up / Drop Out     | 190-215 V / 40-105 V |

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



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**FH2511Z-XC3A**

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)        | -40  | -35  | -30  | -25  | -20  | -15  | -10  |
|------------|-------------------------|------|------|------|------|------|------|------|
| <b>30</b>  | Refrig. Capacity (Watt) | 1491 | 2217 | 3117 | 4214 | 5527 | 7079 | 8892 |
|            | Power Input (W)         | 1201 | 1482 | 1761 | 2034 | 2295 | 2537 | 2756 |
|            | Amps (A)                | 7.01 | 7.4  | 7.83 | 8.29 | 8.8  | 9.35 | 9.94 |
| <b>40</b>  | Refrig. Capacity (Watt) | 994  | 1639 | 2435 | 3402 | 4562 | 5937 | 7548 |
|            | Power Input (W)         | 1100 | 1430 | 1767 | 2106 | 2441 | 2767 | 3078 |
|            | Amps (A)                | 6.73 | 7.29 | 7.88 | 8.52 | 9.18 | 9.89 | 10.6 |
| <b>50</b>  | Refrig. Capacity (Watt) |      |      | 1744 | 2570 | 3566 | 4751 | 6149 |
|            | Power Input (W)         |      |      | 1695 | 2101 | 2512 | 2922 | 3325 |
|            | Amps (A)                |      |      | 7.69 | 8.5  | 9.34 | 10.2 | 11.1 |
| <b>60</b>  | Refrig. Capacity (Watt) |      |      |      | 1743 | 2561 | 3546 | 4717 |
|            | Power Input (W)         |      |      |      | 2008 | 2496 | 2992 | 3489 |
|            | Amps (A)                |      |      |      | 8.22 | 9.25 | 10.3 | 11.4 |

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## 50HZ R-404A

| Condensing | Evaporating (°C)        | -40  | -35  | -30  | -25  | -20  | -15  | -10  |
|------------|-------------------------|------|------|------|------|------|------|------|
| <b>30</b>  | Refrig. Capacity (Watt) | 1681 | 2431 | 3355 | 4472 | 5802 | 7365 | 9181 |
|            | Power Input (W)         | 1315 | 1607 | 1896 | 2175 | 2439 | 2682 | 2899 |
|            | Amps (A)                | 7.68 | 8.03 | 8.42 | 8.87 | 9.35 | 9.88 | 10.5 |
| <b>40</b>  | Refrig. Capacity (Watt) | 1168 | 1832 | 2642 | 3620 | 4783 | 6154 | 7750 |
|            | Power Input (W)         | 1232 | 1575 | 1923 | 2270 | 2610 | 2938 | 3247 |
|            | Amps (A)                | 7.53 | 8.03 | 8.58 | 9.17 | 9.81 | 10.5 | 11.2 |
| <b>50</b>  | Refrig. Capacity (Watt) |      | 1242 | 1928 | 2754 | 3741 | 4907 | 6273 |
|            | Power Input (W)         |      | 1470 | 1877 | 2292 | 2709 | 3122 | 3525 |
|            | Amps (A)                |      | 7.82 | 8.53 | 9.28 | 10.1 | 10.9 | 11.8 |
| <b>60</b>  | Refrig. Capacity (Watt) |      |      | 1237 | 1901 | 2698 | 3649 | 4773 |
|            | Power Input (W)         |      |      | 1753 | 2237 | 2731 | 3230 | 3727 |
|            | Amps (A)                |      |      | 8.26 | 9.17 | 10.1 | 11.1 | 12.2 |



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**FH2511Z-XC3A**

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)        | -40  | -35  | -30  | -25  | -20  | -15  | -10  |
|------------|-------------------------|------|------|------|------|------|------|------|
| <b>30</b>  | Refrig. Capacity (Watt) | 1272 | 1943 | 2785 | 3821 | 5076 | 6574 | 8339 |
|            | Power Input (W)         | 1105 | 1373 | 1641 | 1905 | 2158 | 2395 | 2608 |
|            | Amps (A)                | 6.45 | 6.86 | 7.3  | 7.77 | 8.28 | 8.82 | 9.4  |
| <b>40</b>  | Refrig. Capacity (Watt) |      | 1435 | 2189 | 3117 | 4244 | 5594 | 7190 |
|            | Power Input (W)         |      | 1316 | 1640 | 1969 | 2295 | 2614 | 2918 |
|            | Amps (A)                |      | 6.71 | 7.32 | 7.96 | 8.64 | 9.34 | 10.1 |
| <b>50</b>  | Refrig. Capacity (Watt) |      |      | 1582 | 2394 | 3385 | 4578 | 5998 |
|            | Power Input (W)         |      |      | 1564 | 1958 | 2359 | 2761 | 3158 |
|            | Amps (A)                |      |      | 7.1  | 7.92 | 8.78 | 9.66 | 10.6 |
| <b>60</b>  | Refrig. Capacity (Watt) |      |      |      | 1680 | 2526 | 3555 | 4790 |
|            | Power Input (W)         |      |      |      | 1865 | 2341 | 2827 | 3317 |
|            | Amps (A)                |      |      |      | 7.64 | 8.67 | 9.74 | 10.8 |

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### 50HZ R-449A\*

| Condensing | Evaporating (°C)        | -40  | -35  | -30  | -25  | -20  | -15  | -10  |
|------------|-------------------------|------|------|------|------|------|------|------|
| <b>30</b>  | Refrig. Capacity (Watt) | 1272 | 1943 | 2785 | 3821 | 5076 | 6574 | 8339 |
|            | Power Input (W)         | 1105 | 1373 | 1641 | 1905 | 2158 | 2395 | 2608 |
|            | Amps (A)                | 6.45 | 6.86 | 7.3  | 7.77 | 8.28 | 8.82 | 9.4  |
| <b>40</b>  | Refrig. Capacity (Watt) |      | 1435 | 2189 | 3117 | 4244 | 5594 | 7190 |
|            | Power Input (W)         |      | 1316 | 1640 | 1969 | 2295 | 2614 | 2918 |
|            | Amps (A)                |      | 6.71 | 7.32 | 7.96 | 8.64 | 9.34 | 10.1 |
| <b>50</b>  | Refrig. Capacity (Watt) |      |      | 1582 | 2394 | 3385 | 4578 | 5998 |
|            | Power Input (W)         |      |      | 1564 | 1958 | 2359 | 2761 | 3158 |
|            | Amps (A)                |      |      | 7.1  | 7.92 | 8.78 | 9.66 | 10.6 |
| <b>60</b>  | Refrig. Capacity (Watt) |      |      |      | 1680 | 2526 | 3555 | 4790 |
|            | Power Input (W)         |      |      |      | 1865 | 2341 | 2827 | 3317 |
|            | Amps (A)                |      |      |      | 7.64 | 8.67 | 9.74 | 10.8 |

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