



**tecumseh**

**FHT4538ZHR-XC**

220 - 240V 1~ 50 Hz

Condensing unit

3H33930202

HBP

R-452A / R-404A

Voltage Code : XC

| Refrigerant | Frequency | Nominal Cooling Capacity (*) |       |
|-------------|-----------|------------------------------|-------|
|             |           | Watts                        | BTU/h |
| R-452A      | 50HZ      | 4813                         | 16411 |
| R-404A      | 50HZ      | 5191                         | 17700 |
| R-448A      | 50HZ      | 4675                         | 15941 |
| R-449A      | 50HZ      | 4666                         | 15911 |

(\*) Operating conditions EN13215 : Dew / T°Ambient 32°C / T°Evap -10°C / T°Return gas temp. 20°C / T°Subcooling 3K

#### General

|                             |                  |
|-----------------------------|------------------|
| Condensing Unit Type        | Indoor           |
| Family Condensing Unit      | Standard         |
| Horse Power                 | 3 hp             |
| Design Ambient Temp °C (°F) | 43 (109)         |
| Compressor Model            | 1 x FH4538Z-XC3A |

#### Electrical

|                          |                      |
|--------------------------|----------------------|
| Motor Type               | CSR                  |
| Current RLA 50Hz (A)     | 17.4                 |
| Current LRA (A)          | 85                   |
| Run Capacitor            | 50 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 4G3D             |
| - Pick Up / Drop Out     | 180-195 V / 40-105 V |

#### Pressure Equipment Directive

|                     |            |
|---------------------|------------|
| PED Category        | Category I |
| Maximum BP Pressure | 17 bar     |
| Maximum HP Pressure | 32 bar     |

#### Dimensions

|        |                  |
|--------|------------------|
| Weight | 63 kg (139 lb)   |
| Length | 643 mm (25.3 in) |
| Width  | 592 mm (23.3 in) |
| Height | 540 mm (21.3 in) |

#### Certificates



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



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**FHT4538ZHR-XC**

220 - 240V 1~ 50 Hz

Performances are given at rating conditions EN13215  
Conditions DEW

Return gas temp. : 20 °C  
Subcooling : 3 K

## 50HZ R-452A

| Ambient   | Evaporating      | (°C)   | -25 | -20  | -15  | -10  | -5   | 0    | 5    | 10   | 15    |
|-----------|------------------|--------|-----|------|------|------|------|------|------|------|-------|
| <b>32</b> | Refrig. Capacity | (Watt) |     | 3021 | 3887 | 4813 | 5793 | 6821 | 7887 | 8980 | 10092 |
|           | Power Input      | (W)    |     | 2083 | 2363 | 2643 | 2929 | 3225 | 3534 | 3863 | 4214  |
|           | Amps             | (A)    |     | 10.3 | 11.5 | 12.7 | 14   | 15.3 | 16.8 | 18.3 | 19.8  |
|           | Condensing       | (°C)   |     | 43.1 | 44.9 | 46.9 | 49   | 51.2 | 53.6 | 56   | 58.6  |
| <b>38</b> | Refrig. Capacity | (Watt) |     |      | 3445 | 4302 | 5199 | 6129 | 7085 | 8061 | 9053  |
|           | Power Input      | (W)    |     |      | 2391 | 2699 | 3010 | 3329 | 3661 | 4011 | 4382  |
|           | Amps             | (A)    |     |      | 11.6 | 12.9 | 14.3 | 15.8 | 17.3 | 18.9 | 20.6  |
|           | Condensing       | (°C)   |     |      | 49.7 | 51.6 | 53.5 | 55.6 | 57.8 | 60.1 | 62.6  |
| <b>46</b> | Refrig. Capacity | (Watt) |     |      | 2852 | 3615 | 4398 | 5197 | 6011 |      |       |
|           | Power Input      | (W)    |     |      | 2405 | 2752 | 3100 | 3455 | 3819 |      |       |
|           | Amps             | (A)    |     |      | 11.5 | 13.1 | 14.7 | 16.3 | 18   |      |       |
|           | Condensing       | (°C)   |     |      | 56.1 | 57.8 | 59.6 | 61.5 | 63.5 |      |       |

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## 50HZ R-404A

| Ambient   | Evaporating      | (°C)   | -25 | -20  | -15  | -10  | -5   | 0    | 5    | 10   | 15    |
|-----------|------------------|--------|-----|------|------|------|------|------|------|------|-------|
| <b>32</b> | Refrig. Capacity | (Watt) |     | 3399 | 4262 | 5191 | 6177 | 7207 | 8267 | 9338 | 10405 |
|           | Power Input      | (W)    |     | 2145 | 2398 | 2653 | 2911 | 3178 | 3456 | 3749 | 4063  |
|           | Amps             | (A)    |     | 10.6 | 11.7 | 12.8 | 13.9 | 15.2 | 16.5 | 17.8 | 19.2  |
|           | Condensing       | (°C)   |     | 40.3 | 42.1 | 44.1 | 46.1 | 48.4 | 50.7 | 53.2 | 55.8  |
| <b>38</b> | Refrig. Capacity | (Watt) |     | 2996 | 3800 | 4651 | 5542 | 6463 | 7400 | 8340 | 9275  |
|           | Power Input      | (W)    |     | 2168 | 2446 | 2724 | 3005 | 3294 | 3594 | 3909 | 4243  |
|           | Amps             | (A)    |     | 10.7 | 11.9 | 13.1 | 14.4 | 15.7 | 17.1 | 18.5 | 20    |
|           | Condensing       | (°C)   |     | 45.4 | 47.1 | 48.9 | 50.9 | 53   | 55.2 | 57.6 | 60.1  |
| <b>46</b> | Refrig. Capacity | (Watt) |     |      | 3173 | 3918 | 4681 | 5456 | 6233 |      |       |
|           | Power Input      | (W)    |     |      | 2495 | 2806 | 3120 | 3441 | 3771 |      |       |
|           | Amps             | (A)    |     |      | 12.1 | 13.4 | 14.9 | 16.3 | 17.9 |      |       |
|           | Condensing       | (°C)   |     |      | 53.8 | 55.5 | 57.2 | 59.2 | 61.2 |      |       |



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**FHT4538ZHR-XC**

220 - 240V 1~ 50 Hz

Performances are given at rating conditions EN13215  
Conditions DEW

Return gas temp. : 20 °C  
Subcooling : 3 K

### 50HZ R-448A\*

| Ambient   | Evaporating (°C)        | -25 | -20  | -15  | -10  | -5   | 0    | 5    | 10   | 15    |
|-----------|-------------------------|-----|------|------|------|------|------|------|------|-------|
| <b>32</b> | Refrig. Capacity (Watt) |     | 2817 | 3698 | 4675 | 5750 | 6924 | 8194 | 9558 | 11012 |
|           | Power Input (W)         |     | 1985 | 2235 | 2490 | 2754 | 3029 | 3320 | 3629 | 3961  |
|           | Amps (A)                |     | 9.8  | 10.8 | 12   | 13.2 | 14.4 | 15.8 | 17.2 | 18.6  |
|           | Condensing (°C)         |     | 42.5 | 44   | 45.7 | 47.6 | 49.6 | 51.8 | 54.2 | 56.6  |
| <b>38</b> | Refrig. Capacity (Watt) |     |      | 3304 | 4217 | 5215 | 6299 | 7468 | 8721 | 10056 |
|           | Power Input (W)         |     |      | 2276 | 2557 | 2847 | 3148 | 3465 | 3801 | 4160  |
|           | Amps (A)                |     |      | 11   | 12.3 | 13.6 | 15   | 16.4 | 18   | 19.5  |
|           | Condensing (°C)         |     |      | 49   | 50.6 | 52.3 | 54.2 | 56.3 | 58.5 | 60.9  |
| <b>46</b> | Refrig. Capacity (Watt) |     |      |      | 3603 | 4496 | 5459 | 6492 | 7597 |       |
|           | Power Input (W)         |     |      |      | 2634 | 2960 | 3299 | 3654 | 4028 |       |
|           | Amps (A)                |     |      |      | 12.5 | 14   | 15.6 | 17.2 | 18.9 |       |
|           | Condensing (°C)         |     |      |      | 57.1 | 58.7 | 60.4 | 62.3 | 64.4 |       |

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### 50HZ R-449A\*

| Ambient   | Evaporating (°C)        | -25 | -20  | -15  | -10  | -5   | 0    | 5    | 10   | 15    |
|-----------|-------------------------|-----|------|------|------|------|------|------|------|-------|
| <b>32</b> | Refrig. Capacity (Watt) |     | 2814 | 3693 | 4666 | 5737 | 6904 | 8167 | 9522 | 10965 |
|           | Power Input (W)         |     | 1986 | 2236 | 2492 | 2757 | 3034 | 3326 | 3638 | 3974  |
|           | Amps (A)                |     | 9.8  | 10.8 | 12   | 13.2 | 14.4 | 15.8 | 17.2 | 18.7  |
|           | Condensing (°C)         |     | 42.5 | 44.1 | 45.8 | 47.7 | 49.8 | 52   | 54.4 | 56.9  |
| <b>38</b> | Refrig. Capacity (Watt) |     |      | 3298 | 4208 | 5201 | 6279 | 7440 | 8684 | 10007 |
|           | Power Input (W)         |     |      | 2277 | 2559 | 2850 | 3153 | 3472 | 3811 | 4173  |
|           | Amps (A)                |     |      | 11   | 12.3 | 13.6 | 15   | 16.5 | 18   | 19.6  |
|           | Condensing (°C)         |     |      | 49.1 | 50.7 | 52.5 | 54.4 | 56.5 | 58.7 | 61.1  |
| <b>46</b> | Refrig. Capacity (Watt) |     |      |      | 3594 | 4482 | 5438 | 6463 | 7558 |       |
|           | Power Input (W)         |     |      |      | 2635 | 2963 | 3304 | 3661 | 4037 |       |
|           | Amps (A)                |     |      |      | 12.5 | 14   | 15.6 | 17.2 | 19   |       |
|           | Condensing (°C)         |     |      |      | 57.3 | 58.9 | 60.6 | 62.6 | 64.6 |       |

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