



# tecumseh

# AE4456Y-FZ1C

220 - 240V 1~ 50 Hz

Compressor

CBP/HBP (M-HBP)

R-134a

Voltage Code : FZ

| Refrigerant | Frequency | Nominal Cooling Capacity (*) |       | Sound Power<br>ISO3745 / ISO 3743-1 |
|-------------|-----------|------------------------------|-------|-------------------------------------|
|             |           | Watts                        | BTU/h |                                     |
| R-134a      | 50HZ      | 791                          | 2698  |                                     |
| R-513A      | 50HZ      | 843                          | 2875  |                                     |

(\*) Operating conditions ARI 520-90 : Dew / T°Cond. 120°F / T°Evap 20°F / T°Evaporating 20°F / T°Superheat 32°F



\*Non-contractual picture

## Dimensions

|                  |                 |
|------------------|-----------------|
| Weight           | 11.5 kg (25 lb) |
| Length           | 251 mm (9.9 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)       | 14.5                        |
| 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               | CSIR                 |
| Main Winding (Ohm)       | 4.09                 |
| Start Winding (Ohm)      | 22.86                |
| Current RLA 50Hz (A)     | 3.66                 |
| Current LRA (A)          | 17.5                 |
| Start Capacitor          | 64-77 µF / 330 V     |
| Overload                 | MSP28APW-5587        |
| - Time Check             | 6.5s - 15s / 14.00 A |
| - Open Temp / Close Temp | 135 °C / 61 °C       |
| Current Relay            | MTRP003031           |
| - Pick Up / Drop Out     | 9.15 A / 7.7 A       |

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



**tecumseh**

**AE4456Y-FZ1C**

220 - 240V 1~ 50 Hz

Performances are given at rating conditions ARI 520-90  
Conditions DEW

Evaporating : 20 °F  
Superheat : 32 °F

## 50HZ R-134a

| Condensing | Evaporating      | (°F)    | -15  | -5   | 5    | 15   | 25   | 35   | 45   | 55   |
|------------|------------------|---------|------|------|------|------|------|------|------|------|
| <b>90</b>  | Refrig. Capacity | (Btu/h) | 1027 | 1421 | 1907 | 2495 | 3199 | 4029 | 4997 | 6114 |
|            | Power Input      | (W)     | 287  | 319  | 354  | 389  | 425  | 462  | 497  | 530  |
|            | Amps             | (A)     | 2.57 | 2.62 | 2.69 | 2.78 | 2.89 | 3.01 | 3.12 | 3.24 |
| <b>105</b> | Refrig. Capacity | (Btu/h) | 1035 | 1433 | 1914 | 2492 | 3178 | 3983 | 4919 | 5997 |
|            | Power Input      | (W)     | 299  | 337  | 377  | 418  | 461  | 504  | 546  | 587  |
|            | Amps             | (A)     | 2.59 | 2.66 | 2.75 | 2.87 | 3.01 | 3.16 | 3.31 | 3.47 |
| <b>120</b> | Refrig. Capacity | (Btu/h) |      | 1333 | 1811 | 2378 | 3045 | 3825 | 4728 | 5767 |
|            | Power Input      | (W)     |      | 348  | 396  | 446  | 497  | 549  | 600  | 650  |
|            | Amps             | (A)     |      | 2.68 | 2.8  | 2.95 | 3.13 | 3.32 | 3.52 | 3.72 |
| <b>140</b> | Refrig. Capacity | (Btu/h) |      |      | 1634 | 2185 | 2827 | 3572 | 4430 | 5414 |
|            | Power Input      | (W)     |      |      | 411  | 475  | 541  | 608  | 674  | 741  |
|            | Amps             | (A)     |      |      | 2.84 | 3.04 | 3.28 | 3.54 | 3.81 | 4.08 |

© 2025 Tecumseh Products Company

## 50HZ R-513A

| Condensing | Evaporating      | (°F)    | -15  | -5   | 5    | 15   | 25   | 35   | 45   | 55   |
|------------|------------------|---------|------|------|------|------|------|------|------|------|
| <b>90</b>  | Refrig. Capacity | (Btu/h) | 1219 | 1634 | 2273 | 3111 | 4122 | 5280 | 6559 | 7932 |
|            | Power Input      | (W)     | 231  | 282  | 335  | 389  | 443  | 497  | 551  | 604  |
|            | Amps             | (A)     | 1.92 | 2.25 | 2.51 | 2.72 | 2.9  | 3.07 | 3.25 | 3.46 |
| <b>105</b> | Refrig. Capacity | (Btu/h) | 1431 | 1710 | 2213 | 2916 | 3794 | 4820 | 5970 | 7218 |
|            | Power Input      | (W)     | 289  | 334  | 381  | 432  | 484  | 538  | 594  | 650  |
|            | Amps             | (A)     | 2.09 | 2.39 | 2.63 | 2.84 | 3.03 | 3.22 | 3.42 | 3.67 |
| <b>120</b> | Refrig. Capacity | (Btu/h) |      | 1587 | 1955 | 2524 | 3268 | 4162 | 5183 | 6303 |
|            | Power Input      | (W)     |      | 356  | 404  | 455  | 510  | 569  | 631  | 694  |
|            | Amps             | (A)     |      | 2.48 | 2.71 | 2.93 | 3.13 | 3.35 | 3.6  | 3.9  |
| <b>140</b> | Refrig. Capacity | (Btu/h) |      |      | 1562 | 1953 | 2520 | 3238 | 4084 | 5032 |
|            | Power Input      | (W)     |      |      | 414  | 475  | 541  | 613  | 690  | 771  |
|            | Amps             | (A)     |      |      | 2.77 | 3.01 | 3.26 | 3.54 | 3.87 | 4.27 |