

Model: AHC4540EKZ
Product Description

Type: Reciprocating Compressors
Application: HBP - High Back Pressure
ProductDescription: R-22
Voltage/Frequency: 220V 3~ 60Hz 220V 3~ 50Hz
Version: N/A


Product Specifications
Performance

| Condition | Test Voltage | Refrigeration Capacity | | | Input Power (I) W | (E) Efficiency | | | EVAP TEMP | Condition | AMBIENT TEMP | RETURN GAS | LIQUID TEMP |
|-----------|--------------|------------------------|---------------|----------|----------------------|----------------|----------------|------|--------------|--------------|-----------------|---------------|----------------|
| | | (R) Btu/h | (R) kcal/h | (R) W | | (E) Btu/Wh | (E) kcal/Wh | W/W | | | | | |
| EN12900 | 220V 3~ 50HZ | 33956 | 8557 | 9949 | 3419 | 9.93 | 2.5 | 2.91 | 5°C (41°F) | 45°C (113°F) | 32°C (90°F) | 15°C (59°F) | 45°C (113°F) |

General

Evaporating Temp. Range: -6.7°C to 12.8°C (20°F to 55°F)
Motor Torque:
Compressor Cooling:

Mechanical

Weight: 34
Weight Unit of Measure: KG
Displacement (cc): 74.25
Oil Type:
Viscosity (cSt):
Oil Charge (cc): 0

Electrical

Voltage Range (50 Hz):
Voltage Range (60 Hz):
Locked Rotor Amps (LRA): 0
Rated Load Amps (RLA 50 Hz): 12
Rated Load Amps (RLA 60 Hz): 13
Max. Continuous Current (MCC in Amps): 0
Motor Resistance (Ohm) - Main: 1.17

Motor Resistance (Ohm) - Start:

Motor Type:

Overload Type:

Relay Type:

[Agency Approval](#)

CE Listed, GOST RUSSIA Listed, GOST UKRAINE Listed

Performance Data Sheet

AHC4540EKZ

General

| | | | |
|------------|-----------------------|-------------------|--------------|
| Model | AHC4540EKZ | Unit of Measure | Celsius |
| Condition | Tecumseh Europe(R-22) | Voltage/Frequency | 220V 3~ 50HZ |
| RETURN GAS | | MotorType | |

Performance Information

| EVAP TEMP (°C) | Condensing Temperature (°C) | | | | | | | | |
|----------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 |
| -6.7 | Watts (Capacity) | 8120 | 7580 | 7010 | 6430 | 5830 | 5230 | 4630 | 4040 |
| | Watts (Power) | 2640 | 2680 | 2740 | 2810 | 2870 | 2940 | 3000 | 3060 |
| | Amps | 9.43 | 9.52 | 9.62 | 9.74 | 9.86 | 9.99 | 10.1 | 10.2 |
| -5 | Watts (Capacity) | 8810 | 8230 | 7620 | 7000 | 6370 | 5730 | 5100 | 4480 |
| | Watts (Power) | 2690 | 2750 | 2830 | 2900 | 2990 | 3070 | 3150 | 3220 |
| | Amps | 9.50 | 9.63 | 9.78 | 9.94 | 10.1 | 10.3 | 10.5 | 10.6 |
| 0 | Watts (Capacity) | 10900 | 10200 | 9520 | 8780 | 8050 | 7310 | 6570 | 5850 |
| | Watts (Power) | 2840 | 2940 | 3060 | 3180 | 3300 | 3420 | 3540 | 3660 |
| | Amps | 9.69 | 9.95 | 10.2 | 10.5 | 10.8 | 11.1 | 11.4 | 11.7 |
| 5 | Watts (Capacity) | 13200 | 12400 | 11600 | 10700 | 9860 | 9020 | 8180 | 7360 |
| | Watts (Power) | 2970 | 3110 | 3260 | 3420 | 3580 | 3740 | 3900 | 4050 |
| | Amps | 9.86 | 10.3 | 10.7 | 11.1 | 11.5 | 11.9 | 12.3 | 12.7 |
| 7.2 | Watts (Capacity) | 14300 | 13400 | 12500 | 11600 | 10700 | 9820 | 8930 | 8070 |
| | Watts (Power) | 3020 | 3180 | 3340 | 3510 | 3690 | 3870 | 4040 | 4210 |
| | Amps | 9.94 | 10.4 | 10.8 | 11.3 | 11.8 | 12.2 | 12.7 | 13.2 |
| 10 | Watts (Capacity) | 15700 | 14700 | 13800 | 12800 | 11800 | 10900 | 9930 | 9000 |
| | Watts (Power) | 3080 | 3250 | 3440 | 3630 | 3820 | 4020 | 4210 | 4400 |
| | Amps | 10.0 | 10.5 | 11.1 | 11.6 | 12.1 | 12.7 | 13.2 | 13.7 |
| 15 | Watts (Capacity) | 18300 | 17200 | 16100 | 15000 | 13900 | 12900 | 11800 | 10800 |
| | Watts (Power) | 3170 | 3370 | 3590 | 3810 | 4030 | 4260 | 4490 | 4710 |
| | Amps | 10.2 | 10.8 | 11.4 | 12.1 | 12.8 | 13.4 | 14.1 | 14.7 |

| COEFFICIENTS | CAPACITY | POWER | CURRENT | MASS FLOW |
|--------------|---------------|---------------|---------------|-----------|
| C1 | 1.450000E+04 | 2.690000E+03 | 8.580000E+00 | |
| C2 | 6.090000E+02 | -1.720000E+01 | -1.220000E-01 | |
| C3 | -9.090000E+01 | -1.280000E+01 | 1.860000E-02 | |
| C4 | 3.640000E+00 | 3.900000E-03 | 3.720000E-05 | |
| C5 | -6.060000E+00 | 1.470000E+00 | 5.420000E-03 | |
| C6 | -1.150000E+00 | 7.460000E-01 | 7.470000E-04 | |
| C7 | -2.000000E-16 | 1.000000E-16 | 0.000000E+00 | |
| C8 | -1.530000E-02 | -1.370000E-02 | -1.130000E-05 | |
| C9 | 1.740000E-02 | 1.150000E-03 | -4.450000E-06 | |
| C10 | 7.720000E-03 | -4.920000E-03 | -4.550000E-06 | |

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

T_c = Condensing Temperature