

## **Model: AE4470Z-ES3C**

(AE4470Z-ES)

### **Product Description**

**Compressor Type:** Reciprocating

**Application:** HBP/CBP - High/Commercial Back Pressure

**Refrigerant:** R-404A/R-407A/R-448A/R-449A/R-452A

**Voltage/Frequency:** 220V ~ 60Hz

**Version:** AE Series

# Specifications

## General

**Evaporating Temp. Range** :-15°C to 15°C (5°F to 59°F)

**Motor Torque:** High Start Torque (HST)

**Compressor Cooling:** Fan

## Mechanical

**Weight:** 11 KG

**Displacement (cc):** 12.01

**Oil Type:** Polyolester

**Viscosity (cSt):** 32

**Oil Charge (cc):** 366.3

## Electrical

**Locked Rotor Amps (LRA):** 29

**Rated Load Amps (RLA 60Hz):** 5.05

**Voltage Range (60Hz):** 187-242

**Rated Load Amps (RLA 50Hz):** 0

**Max. Continuous Current (MCC in Amps):** 6.91

**Motor Resistance (Ohm) - Main:** 2.36

**Motor Resistance (Ohm) - Start:** 7.37

**Motor Type:** CSR

## Agency Approval

**CE\_LISTED, SASO\_LISTED, cURus\_RECOGNIZED**

# Performance

[See all performance data](#)

## ASHRAE (R-407A)

Test Voltage	220V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	7411
(R) Refrigeration Capacity (Kcal/h)	1869
(R) Refrigeration Capacity (W)	2172
Input Power (W)W	949
(E) Efficiency (BTU/Wh)	7.81
(E) Efficiency (Kcal/Wh)	1.97
(E) Efficiency (W/W)	2.29
EVAP TEMP	7.2°C (45°F)
COND TEMP	54°C (130°F)
AMBIENT TEMP	35°C (95°F)
RETURN GAS	35°C (95°F)
LIQUID TEMP	46°C (115°F)

## ASHRAE (R-449A)

Test Voltage	220V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	7630
(R) Refrigeration Capacity (Kcal/h)	1924
(R) Refrigeration Capacity (W)	2236
Input Power (W)W	946
(E) Efficiency (BTU/Wh)	8.07
(E) Efficiency (Kcal/Wh)	2.03
(E) Efficiency (W/W)	2.36
EVAP TEMP	7.2°C (45°F)
COND TEMP	54°C (130°F)
AMBIENT TEMP	35°C (95°F)
RETURN GAS	35°C (95°F)
LIQUID TEMP	46°C (115°F)

## ASHRAE (R-448A)

Test Voltage	220V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	7630
(R) Refrigeration Capacity (Kcal/h)	1924
(R) Refrigeration Capacity (W)	2236
Input Power (W)W	946
(E) Efficiency (BTU/Wh)	8.07
(E) Efficiency (Kcal/Wh)	2.03
(E) Efficiency (W/W)	2.36
EVAP TEMP	7.2°C (45°F)
COND TEMP	54°C (130°F)
AMBIENT TEMP	35°C (95°F)
RETURN GAS	35°C (95°F)
LIQUID TEMP	46°C (115°F)

## ASHRAE (R-452A)

Test Voltage	220V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	7468
(R) Refrigeration Capacity (Kcal/h)	1883
(R) Refrigeration Capacity (W)	2189
Input Power (W)W	985
(E) Efficiency (BTU/Wh)	7.58
(E) Efficiency (Kcal/Wh)	1.91
(E) Efficiency (W/W)	2.22
EVAP TEMP	7.2°C (45°F)
COND TEMP	54°C (130°F)
AMBIENT TEMP	35°C (95°F)
RETURN GAS	35°C (95°F)
LIQUID TEMP	46°C (115°F)

## ASHRAE (R-404A)

Test Voltage	220V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	7900
(R) Refrigeration Capacity (Kcal/h)	1991
(R) Refrigeration Capacity (W)	2315
Input Power (W)W	1029
(E) Efficiency (BTU/Wh)	7.68
(E) Efficiency (Kcal/Wh)	1.93

**ASHRAE (R-404A)**

(E) Efficiency (W/W) 2.25

EVAP TEMP 7.2°C (45°F)

COND TEMP 54°C (130°F)

AMBIENT TEMP 35°C (95°F)

RETURN GAS 35°C (95°F)

LIQUID TEMP 46°C (115°F)

## Item

**AE-1196-BF**

**AE-1196-BF-M**

**AE1683BR**

**AE-1686-E**

**AE1752BR**

**AE-1756-E**

**AE1945BR**

**AE-1950-E**

**AE1982BR**

**AE-1988-E**

**AE-1069-FR (Discontinued)**

**AE-1125-FR-M (Discontinued)**

**AE1702BR (Discontinued)**

**AE-1705-E (Discontinued)**

**AE1774BR (Discontinued)**

**AE-1778-E (Discontinued)**

**AE1788BR (Discontinued)**

**AE-1792-E (Discontinued)**

**AE1887BR (Discontinued)**

**AE-1891-E (Discontinued)**

**BAE-1069-FR (Discontinued)**

**AE-1069-FR-M (Inactive)**

**AE-1197-BF-M (Inactive)**