

Model: AE4450Z-AA1A

(AE4450Z-AA)

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: 115V ~ 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: 10 KG

Displacement (cc): 8.85

Oil Type: Polyolester

Viscosity (cSt): 32

Oil Charge (cc): 366.3

Electrical

Locked Rotor Amps (LRA): 38

Rated Load Amps (RLA 60Hz): 8.15

Voltage Range (60Hz): 103-127

Rated Load Amps (RLA 50Hz): 0

Max. Continuous Current (MCC in Amps): 14.39

Motor Resistance (Ohm) - Main: 1.17

Motor Resistance (Ohm) - Start: 3.61

Motor Type: CSIR

Agency Approval

CE_LISTED, cURus_RECOGNIZED

Performance

[See all performance data](#)

ASHRAE (R-404A)

Test Voltage	115V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	5800
(R) Refrigeration Capacity (Kcal/h)	1462
(R) Refrigeration Capacity (W)	1700
Input Power (W)W	778
(E) Efficiency (BTU/Wh)	7.46
(E) Efficiency (Kcal/Wh)	1.88
(E) Efficiency (W/W)	2.19
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	115V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	5659
(R) Refrigeration Capacity (Kcal/h)	1427
(R) Refrigeration Capacity (W)	1658
Input Power (W)W	713
(E) Efficiency (BTU/Wh)	7.93
(E) Efficiency (Kcal/Wh)	2
(E) Efficiency (W/W)	2.33
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	115V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	5483
(R) Refrigeration Capacity (Kcal/h)	1383
(R) Refrigeration Capacity (W)	1607
Input Power (W)W	745
(E) Efficiency (BTU/Wh)	7.36
(E) Efficiency (Kcal/Wh)	1.86
(E) Efficiency (W/W)	2.16
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	115V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	5659
(R) Refrigeration Capacity (Kcal/h)	1427
(R) Refrigeration Capacity (W)	1658
Input Power (W)W	713
(E) Efficiency (BTU/Wh)	7.93
(E) Efficiency (Kcal/Wh)	2
(E) Efficiency (W/W)	2.33
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-407A)

Test Voltage	115V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	5441
(R) Refrigeration Capacity (Kcal/h)	1372
(R) Refrigeration Capacity (W)	1595
Input Power (W)W	717
(E) Efficiency (BTU/Wh)	7.59
(E) Efficiency (Kcal/Wh)	1.91

ASHRAE (R-407A)

(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)

Item

AE-1141-BF

AE-1142-BF

AE-1142-BF-M

AE1161BR

AE1164E-209-J7

AE1472BR

AE-1475-E

AE1548BR

AE-1551-E

AE1963BR

AE-1969-E

AE1974BR

AE-1980-E

AE1006BR (Discontinued)

AE-1006-E (Discontinued)

AE1088BR (Inactive)

AE-1088-E (Inactive)

AE1164E-209-A4 (Inactive)

AE1472BRD (Inactive)