

**Model: AE4450Y-AA1A**

(AE4450Y-AA)

## **Product Description**

**Compressor Type:** Reciprocating

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

**Refrigerant:** R-134a/R-513A

**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):** 13.24

**Oil Type:** Polyolester

**Viscosity (cSt):** 32

**Oil Charge (cc):** 366.3

## Electrical

**Locked Rotor Amps (LRA):** 42

**Rated Load Amps (RLA 60Hz):** 7.75

**Voltage Range (60Hz):** 103-127

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

**Max. Continuous Current (MCC in Amps):** 12.68

**Motor Resistance (Ohm) - Main:** 1.14

**Motor Resistance (Ohm) - Start:** 3.8

**Motor Type:** CSIR

## Agency Approval

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

# Performance

[See all performance data](#)

## ASHRAE (R-134a)

Test Voltage	115V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	5450
(R) Refrigeration Capacity (Kcal/h)	1373
(R) Refrigeration Capacity (W)	1597
Input Power (W)	732
(E) Efficiency (BTU/Wh)	7.45
(E) Efficiency (Kcal/Wh)	1.88
(E) Efficiency (W/W)	2.18
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-513A)

Test Voltage	115V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	5583
(R) Refrigeration Capacity (Kcal/h)	1407
(R) Refrigeration Capacity (W)	1636
Input Power (W)	755
(E) Efficiency (BTU/Wh)	7.4
(E) Efficiency (Kcal/Wh)	1.86
(E) Efficiency (W/W)	2.17
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)

## ARI (R-513A)

Test Voltage	115V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	5298
(R) Refrigeration Capacity (Kcal/h)	1335
(R) Refrigeration Capacity (W)	1552
Input Power (W)	747
(E) Efficiency (BTU/Wh)	7.1
(E) Efficiency (Kcal/Wh)	1.79
(E) Efficiency (W/W)	2.08
EVAP TEMP	7.2°C (45°F)
COND TEMP	54°C (130°F)
AMBIENT TEMP	35°C (95°F)
RETURN GAS	18.3°C (65°F)
LIQUID TEMP	46°C (115°F)

## Item

AE-1065-BF-M

AE1104BR

AE-1104-E

AE1151BR

AE1154E-209-A4

AE1154E-209-B4

AE1154E-209-C4

AE1154E-209-J7

AE-1172-BF

AE-1173-BF

AE-1173-BF-M

AE-1174-BF

AE-1174-BF-M

AE1243BR

AE-1246-E

AE1392BR

AE1395E-220-J7

AE1418BR

AE-1421-E

AE1427BR

AE1604BR

AE-1607-E

AE1990BR

AE-1996-E

AE2081BR

AE-2081-E

AE1059BR (Discontinued)

AE-1059-E (Discontinued)

AE1128BR (Discontinued)

AE-1131-E (Discontinued)

AE1154E-209-K7 (Discontinued)

AE-1329-E (Discontinued)

AE1498BR (Discontinued)

AE-1501-E (Discontinued)

AE1690BR (Discontinued)

AE-1693-E (Discontinued)

AE1154E-209-J9 (Inactive)

AE1243BRD (Inactive)

AE1326BR (Inactive)

AE1326BRD (Inactive)

AE1430E-214-S7 (Inactive)

WAAE-1065-BF-M (Inactive)