



Model: AK4513Z-NA3C

Product Description

Compressor Type: Reciprocating

Application: HBP/CBP - High/Commercial Back Pressure

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

Voltage/Frequency: 208-230V ~ 60Hz

Version: AK2 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: 35 LB
- Displacement (cc): 20.453
- Oil Type: Polyolester
- Viscosity (cSt): 32
- Oil Charge (cc): 512

Electrical

- Locked Rotor Amps (LRA): 31.3
- Rated Load Amps (RLA 60Hz): 6.6
- Voltage Range (60Hz): 187-254
- Rated Load Amps (RLA 50Hz): 0
- Max. Continuous Current (MCC in Amps): 11.1
- Motor Resistance (Ohm) - Main: 1.71
- Motor Resistance (Ohm) - Start: 3.01
- Motor Type: CSR

Agency Approval

- CE_LISTED, cURus_RECOGNIZED

Performance

[See all performance data](#)

ARI (R-407A)

Test Voltage	230V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	14645
(R) Refrigeration Capacity (Kcal/h)	3693
(R) Refrigeration Capacity (W)	4292
Input Power (W)W	1800
(E) Efficiency (BTU/Wh)	8.14
(E) Efficiency (Kcal/Wh)	2.05
(E) Efficiency (W/W)	2.38
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)

ARI (R-452A)

Test Voltage	230V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	12201
(R) Refrigeration Capacity (Kcal/h)	3076
(R) Refrigeration Capacity (W)	3575
Input Power (W)W	1454
(E) Efficiency (BTU/Wh)	8.39
(E) Efficiency (Kcal/Wh)	2.11
(E) Efficiency (W/W)	2.45
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)

ASHRAE (R-449A)

Test Voltage	230V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	13234
(R) Refrigeration Capacity (Kcal/h)	3337
(R) Refrigeration Capacity (W)	3878
Input Power (W)W	1377
(E) Efficiency (BTU/Wh)	9.61
(E) Efficiency (Kcal/Wh)	2.42
(E) Efficiency (W/W)	2.81
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-449A)

Test Voltage	230V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	12266
(R) Refrigeration Capacity (Kcal/h)	3093
(R) Refrigeration Capacity (W)	3594
Input Power (W)W	1384
(E) Efficiency (BTU/Wh)	8.86
(E) Efficiency (Kcal/Wh)	2.23
(E) Efficiency (W/W)	2.59
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)

ASHRAE (R-452A)

Test Voltage	230V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	13120
(R) Refrigeration Capacity (Kcal/h)	3308
(R) Refrigeration Capacity (W)	3845
Input Power (W)W	1455
(E) Efficiency (BTU/Wh)	9.01
(E) Efficiency (Kcal/Wh)	2.27

ASHRAE (R-448A)

Test Voltage	230V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	13234
(R) Refrigeration Capacity (Kcal/h)	3337
(R) Refrigeration Capacity (W)	3878
Input Power (W)W	1377
(E) Efficiency (BTU/Wh)	9.61
(E) Efficiency (Kcal/Wh)	2.42

ASHRAE (R-452A)

(E) Efficiency (W/W)	2.64
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)

(E) Efficiency (W/W)	2.81
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-448A)

Test Voltage	230V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	12266
(R) Refrigeration Capacity (Kcal/h)	3093
(R) Refrigeration Capacity (W)	3594
Input Power (W)W	1384
(E) Efficiency (BTU/Wh)	8.86
(E) Efficiency (Kcal/Wh)	2.23
(E) Efficiency (W/W)	2.59
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)

ASHRAE (R-404A)

Test Voltage	230V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	13080
(R) Refrigeration Capacity (Kcal/h)	3296
(R) Refrigeration Capacity (W)	3834
Input Power (W)W	1519
(E) Efficiency (BTU/Wh)	8.61
(E) Efficiency (Kcal/Wh)	2.17
(E) Efficiency (W/W)	2.52
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-404A)

Test Voltage	230V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	12040
(R) Refrigeration Capacity (Kcal/h)	3034
(R) Refrigeration Capacity (W)	3529
Input Power (W)W	1520
(E) Efficiency (BTU/Wh)	7.92
(E) Efficiency (Kcal/Wh)	2
(E) Efficiency (W/W)	2.32
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

- AK4ZC1ER107J70
- AK4ZC1ET101J70 (Discontinued)
- AK4ZC1ER101J20 (Inactive)
- AK4ZC1ER101P20 (Inactive)
- AK4ZC1ER107A40 (Inactive)
- AK4ZC1ER107J20 (Inactive)
- AK4ZC1ER107P20 (Inactive)
- AK4ZC1ET101A40 (Inactive)
- AK4ZC1ET107A40 (Inactive)
- AK4ZC1ET107J70 (Inactive)