

**Model: TCW413Y-DS8E**

**Product Description**

**Compressor Type:** Reciprocating

**Application:** MBP/LBP - Medium/Low Back Pressure

**Refrigerant:** R-134a

**Voltage/Frequency:** 115-127V ~ 60Hz

**Version:** TC Series

# Specifications

## General

**Evaporating Temp. Range** : -35°C to -5°C (-31°F to 23°F)

**Motor Torque**: Low Start Torque (LST)

**Compressor Cooling**: Fan

## Mechanical

**Weight**: 9 KG

**Displacement (cc)**: 10.87

**Oil Type**: Polyolester

**Viscosity (cSt)**: 32

**Oil Charge (cc)**: 174

## Electrical

**Locked Rotor Amps (LRA)**: 28.5

**Rated Load Amps (RLA 60Hz)**: 4.75

**Voltage Range (60Hz)**: 100-140

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

**Max. Continuous Current (MCC in Amps)**: 5.44

**Motor Resistance (Ohm) - Main**: 1.84

**Motor Resistance (Ohm) - Start**: 4.28

**Motor Type**: CSIR

## Agency Approval

**cURus\_RECOGNIZED**

# Performance

[See all performance data](#)

## ASHRAE (R-134a)

Test Voltage	115V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	1150
(R) Refrigeration Capacity (Kcal/h)	290
(R) Refrigeration Capacity (W)	337
Input Power (W)W	251
(E) Efficiency (BTU/Wh)	4.58
(E) Efficiency (Kcal/Wh)	1.15
(E) Efficiency (W/W)	1.34
EVAP TEMP	-23°C (-10°F)
COND TEMP	54°C (130°F)
AMBIENT TEMP	32°C (90°F)
RETURN GAS	32°C (90°F)
LIQUID TEMP	32°C (90°F)

## ASHRAE (R-134a)

Test Voltage	127V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	1160
(R) Refrigeration Capacity (Kcal/h)	292
(R) Refrigeration Capacity (W)	340
Input Power (W)W	269
(E) Efficiency (BTU/Wh)	4.31
(E) Efficiency (Kcal/Wh)	1.09
(E) Efficiency (W/W)	1.26
EVAP TEMP	-23°C (-10°F)
COND TEMP	54°C (130°F)
AMBIENT TEMP	32°C (90°F)
RETURN GAS	32°C (90°F)
LIQUID TEMP	32°C (90°F)

## ASHRAE

Test Voltage	115V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	2770
(R) Refrigeration Capacity (Kcal/h)	698
(R) Refrigeration Capacity (W)	812
Input Power (W)W	421
(E) Efficiency (BTU/Wh)	6.58
(E) Efficiency (Kcal/Wh)	1.66
(E) Efficiency (W/W)	1.93
EVAP TEMP	-6.7°C (20°F)
COND TEMP	54°C (130°F)
AMBIENT TEMP	32°C (90°F)
RETURN GAS	32°C (90°F)
LIQUID TEMP	32°C (90°F)

## ASHRAE

Test Voltage	127V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	2770
(R) Refrigeration Capacity (Kcal/h)	698
(R) Refrigeration Capacity (W)	812
Input Power (W)W	424
(E) Efficiency (BTU/Wh)	6.53
(E) Efficiency (Kcal/Wh)	1.65
(E) Efficiency (W/W)	1.91
EVAP TEMP	-6.7°C (20°F)
COND TEMP	54°C (130°F)
AMBIENT TEMP	32°C (90°F)
RETURN GAS	32°C (90°F)
LIQUID TEMP	32°C (90°F)

## Item

TC1051BR

TC-1051-E

TC1051E-038-J7

TC1051E-038-JF

TC1055BR

TC-1055-E

TC1122BR

TC-1122-E

TC1127BR

TC-1127-E

TC1134BR

TC-1134-E

TC1156BR

TC-1156-E

TC1154BR (Discontinued)

TC-1154-E (Discontinued)

TC1159BR (Discontinued)

TC-1159-E (Discontinued)

TC1244BR (Discontinued)

TC1234BR (Inactive)