

Model: TCW410U-GS3H

Product Description

Compressor Type: Reciprocating

Application: MBP/LBP - Medium/Low Back Pressure

Refrigerant: R-290

Voltage/Frequency: 220V ~ 50Hz / 220V ~ 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: Static/Fan

Mechanical

Weight: 8 KG

Displacement (cc): 6.06

Oil Type: Polyolester

Viscosity (cSt): 10

Oil Charge (cc): 174

Electrical

Locked Rotor Amps (LRA): 13.5

Rated Load Amps (RLA 60Hz): 1.7

Voltage Range (50Hz): 180-242

Voltage Range (60Hz): 187-242

Rated Load Amps (RLA 50Hz): 1.26

Max. Continuous Current (MCC in Amps): 0

Motor Resistance (Ohm) - Main: 11.18

Motor Resistance (Ohm) - Start: 9.37

Motor Type: PTCS_CR

Performance

[See all performance data](#)

ASHRAE (R-290)

Test Voltage	220V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	2220
(R) Refrigeration Capacity (Kcal/h)	559
(R) Refrigeration Capacity (W)	651
Input Power (W)W	294
(E) Efficiency (BTU/Wh)	7.55
(E) Efficiency (Kcal/Wh)	1.9
(E) Efficiency (W/W)	2.21
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 (R-290)

Test Voltage	220V ~ 50HZ
(R) Refrigeration Capacity (BTU/h)	1800
(R) Refrigeration Capacity (Kcal/h)	454
(R) Refrigeration Capacity (W)	528
Input Power (W)W	250
(E) Efficiency (BTU/Wh)	7.2
(E) Efficiency (Kcal/Wh)	1.81
(E) Efficiency (W/W)	2.11
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	220V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	1050
(R) Refrigeration Capacity (Kcal/h)	265
(R) Refrigeration Capacity (W)	308
Input Power (W)W	205
(E) Efficiency (BTU/Wh)	5.12
(E) Efficiency (Kcal/Wh)	1.29
(E) Efficiency (W/W)	1.5
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-290)

Test Voltage	220V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	2300
(R) Refrigeration Capacity (Kcal/h)	580
(R) Refrigeration Capacity (W)	674
Input Power (W)W	298
(E) Efficiency (BTU/Wh)	7.72
(E) Efficiency (Kcal/Wh)	1.94
(E) Efficiency (W/W)	2.26
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	220V ~ 60HZ
(R) Refrigeration Capacity (BTU/h)	1140
(R) Refrigeration Capacity (Kcal/h)	287
(R) Refrigeration Capacity (W)	334
Input Power (W)W	205
(E) Efficiency (BTU/Wh)	5.56
(E) Efficiency (Kcal/Wh)	1.4

ASHRAE (R-290)

Test Voltage	220V ~ 50HZ
(R) Refrigeration Capacity (BTU/h)	1900
(R) Refrigeration Capacity (Kcal/h)	479
(R) Refrigeration Capacity (W)	557
Input Power (W)W	250
(E) Efficiency (BTU/Wh)	7.6
(E) Efficiency (Kcal/Wh)	1.92

ASHRAE

(E) Efficiency (W/W)	1.63
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-290)

(E) Efficiency (W/W)	2.23
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	220V ~ 50HZ
(R) Refrigeration Capacity (BTU/h)	940
(R) Refrigeration Capacity (Kcal/h)	237
(R) Refrigeration Capacity (W)	276
Input Power (W)W	185
(E) Efficiency (BTU/Wh)	5.08
(E) Efficiency (Kcal/Wh)	1.28
(E) Efficiency (W/W)	1.49
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	220V ~ 50HZ
(R) Refrigeration Capacity (BTU/h)	900
(R) Refrigeration Capacity (Kcal/h)	227
(R) Refrigeration Capacity (W)	264
Input Power (W)W	185
(E) Efficiency (BTU/Wh)	4.86
(E) Efficiency (Kcal/Wh)	1.23
(E) Efficiency (W/W)	1.43
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)

Item

TC1196BR

TC-1196-E

TC1229BR

TC-1229-E

TC1253BR

TC-1253-E

TC1282BR

TC-1282-E

TC1197BR (Inactive)

TC-1197-E (Inactive)

TC1259BR (Inactive)

TC-1259-E (Inactive)