

Console Heat Pump System

Location: _____
 Engineer: _____
 Submitted to: _____
 Submitted by: _____
 Reference: _____

Approval: _____
 Date: _____
 Construction: _____
 Unit #: _____
 Drawing #: _____

Set Model
 Indoor unit model CH-16MMC-230VI
 Outdoor unit model CH-ES18-230VO

Certified

AHRI


SYSTEM PERFORMANCE DATA
Power supply

Normal Operational Voltage (V, Ph, Hz) 208/230V, 1Ph, 60Hz

Voltage Range (V) 187-253

Electrical

Minimum circuit ampacity(Outdoor) (A) 19.0

Max. fuse(Outdoor) (A) 30.0

Connection wiring 14AWG*4

Cooling

Capacity (Btu/h) 16000(6600-17200)

Power Input (W) 1281(603-1700)

Current (A) 6.13(2.67-7.54)

SEER2 (Btu/W) 22.4

EER2 (Btu/W) 12.5

Heating

Capacity (Btu/h) 17000(6800-21600)

Power Input (W) 1661(500-2100)

Current (A) 7.40(2.231-9.3)

HSPF2.4 (Btu/W) 10.4

HSPF2.5 (Btu/W) 8.2

COP W/W 3.00

Heat at 17F(H32) (Btu/h) 13400

Heat at 5F(H42) (Btu/h) 12700

COP at 5F(H42) W/W 2.32

REFRIGERANT PIPE DATA

Throttle type Indoor unit N/A

Throttle type Outdoor unit EXV+Throttle valve

Design pressure (PSIG) 550/340

Refrigerant Type R410A

Refrigerant charge oz 56.44

Refrigerant precharge (ft) 25.0

Refrigerant precharge (m) 7.5

Additional charge for each ft (oz/ft) 0.16

Additional charge for each m (g/m) 15.0

Liquid side/ Gas side(indoor) (inch) 1/4"/1/2"

Liquid side/ Gas side(indoor) (mm) 6.35/12.7

Liquid side/ Gas side(outdoor) (inch) 1/4"/1/2"

Liquid side/ Gas side(outdoor) (mm) 6.35/12.7

Max. pipe length (ft) 98.4

Max. pipe length (m) 30.0

Max. difference in level (ft) 65.6

Max. difference in level (m) 20.0

Connection method Flared

Indoor(cooling) (Deg. °F) 60~90

Indoor(cooling) (Deg. °C) 16~32

Indoor(heating) (Deg. °F) 32~86

Indoor(heating) (Deg. °C) 0~30

Outdoor(cooling) (Deg. °F) -13-122

Outdoor(cooling) (Deg. °C) -25-50

Outdoor(heating) (Deg. °F) -13~75

Outdoor(heating) (Deg. °C) -25~24

INDOOR UNIT DATA
Indoor fan motor

Model ZKFP-13-8-136+ZKFP-13-8-104

Qty 1+1

Input (W) /

Output (W) 13.0

RLA (A) 1.03

Speed(Hi/Mi/Lo) (r/min) 1100/1000/900

Air flow & Noise level

Indoor air flow (Hi/Med/Lo) (No duct) (CFM) 500.00/441.18/382.35/323.53

Indoor noise level (Hi/Med/Lo) [dB(A)] 45/43.5/30.5

Dehumidification (L/H) 2.05

Indoor unit

Dimension (WxDxH) (inch) 31.26x7.87x24.45

Dimension (WxDxH) (mm) 794x200x621

Packing(WxDxH) (inch) 34.06x11.02x28.31

Packing(WxDxH) (mm) 865x280x719

Net/Gross weight (lbs.) 32.85/41.45

Net/Gross weight (kg) 14.9/18.8

OUTDOOR UNIT DATA
Compressor

Type ROTARY

Model KSN140D58UFZ

Brand GMCC

Capacity (Btu/h) 14723

Input (W) 1090

Rated current (RLA) (A) 12.0

Refrigerant oil/oil charge (ml) ESTER OIL VG74 440

Outdoor fan motor

Model ZKFN-80-8-3

Qty 1

Input (W) /

Output (W) 80.00

RLA (A) 0.76

Speed (r/min) 810/720

Air flow & Noise level

Outdoor air flow (Max.) (CFM) 2058.8

Outdoor noise level [dB(A)] 58.0

Outdoor unit

Dimension (WxDxH) (inch) 35.04x13.46x26.50

Dimension (WxDxH) (mm) 890x342x673

Packing (WxDxH) (inch) 39.17x15.67x29.13

Packing (WxDxH) (mm) 995x398x740

Net/ Gross weight (lbs.) 94.36/100.97

Net/ Gross weight (kg) 42.8/45.8

