

AHU Heat Pump System

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

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

Set Code #REF! CH-M18AHU
 Indoor unit code #REF!
 Outdoor unit code #REF! CH-HPR18-230VO


SYSTEM PERFORMANCE DATA

Power supply
 Normal Operational Voltage (V, Ph, Hz) 208/230, 1, 60
 Voltage Range (V) 187-253

Electrical
 Minimum circuit ampacity (A) 16.0
 Max.fuse (A) 25.0
 Connection wiring 14AWG*2 Stranded, shielded

Cooling
 Rated Capacity (Btu/h) 18000
 Capacity Range (Btu/h) 6800-20000
 Power Input (W) 1440
 Rated current (A) 9.1
 SEER (Btu/W) 20
 EER (Btu/W) 12.5

Heating at 47F
 Rated Capacity (Btu/h) 19000
 Capacity Range (Btu/h) 5800-21000
 Power Input (W) 1540
 Rated current (A) 9.3
 HSPF4 (Btu/W) 10.8
 HSPF5 (Btu/W) 9
 COP W/W 3.62

REFRIGERANT PIPE DATA

Throttle type Indoor unit EXV
 Outdoor unit EXV
 Design pressure (PSIG) 550/340
 Refrigerant Type (Oz) R410A/65.2
 Refrigerant precharge (ft) 25.0
 (m) 7.5
 Additional charge for each ft (oz/ft) 0.16
 (g/m) 15
 Liquid side/ Gas side (inch) 1/4" / 1/2"
 (mm) 6.35/12.7
 Max. pipe length (ft) 98.0
 (m) 30
 Max. difference in level (ft) 66.0
 (m) 20
 Connection method Flared

Indoor(cooling/ heating) (Deg. °F) 60-90/32-88
 (Deg. °C) 16-32/0-30
 Outdoor(cooling/heating) (Deg. °F) -30-122/-30-75
 (Deg. °C) -30-50/-30-24
 Application area (sq.ft) 258.33~376.74
 (m2) 24~35

INDOOR UNIT DATA

Indoor fan motor
 Type Centrifugal
 Model ZKFD-250-8-1
 Qty 1
 Input (W) 67.8
 RLA (A) ---
 LRA (A) ---
 Winding Resistance (Ω) ---
 Capacitor (uF) ---
 Speed(Hi/Mi/Lo) (r/min) -

Air flow & Noise level
 Indoor air flow (Hi/Med/Lo) (CFM) 576.47/529.41/488.24
 Indoor noise level (Hi/Med/Lc) [dB(A)] 39/37/35
 (Pint/H) ---

Indoor unit
 Dimension (WxDxH) (inch) 21.02x17.52x45.00
 (mm) 534x445x1143
 Packing(WxDxH) (inch) 26.57x20.87x48.62
 (mm) 675x530x1235
 Net/Gross weight (lbs.) 48.4/57.7
 (kg) 106.70/127.21

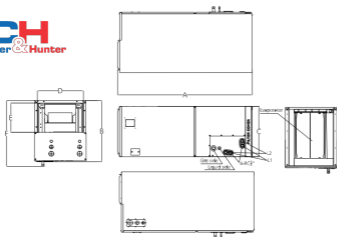
OUTDOOR UNIT DATA

Compressor
 Type DUAL ROTARY
 Model KTM240043UKT
 Brand GMCC
 Capacity (Btu/h) 6.38:02 AM
 Input (W) 2045
 Rated current (RLA) (A) -
 Refrigerant oil/oil charge (ml) VG74/620

Outdoor fan motor
 Model ZKFN-80-8-3
 Qty 1
 Input (W) 88.00
 RLA (A) ---
 Speed (r/min) 810/720

Air flow & Noise level
 Outdoor air flow (Max.) (CFM) 1765
 Outdoor noise level [dB(A)] 59

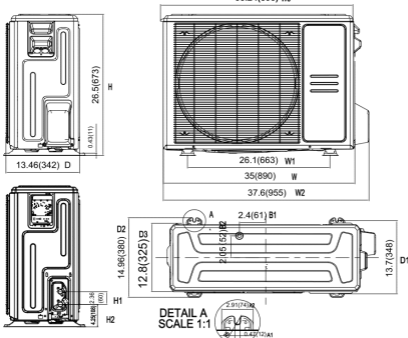
Outdoor unit
 Dimension (WxDxH) (inch) 35.04x13.46x26.50
 (mm) 890x342x673
 Packing (WxDxH) (inch) 39.17x15.67x29.13
 (mm) 995x398x740
 Net/ Gross weight (lbs.) 100.97/108.03
 (kg) 45.8/49



Model	Unit	Dimensions(mm)						Drain hole	
		A	B	C	D	E	F	L1	L2
18k-24k	mm	1143	534	445	400	260	585	Main drain	Overflow drain
	inch	45	21	17-1/2	15-3/4	10-1/4	23		
30k-48k	mm	1245	534	534	490	260	585		
	inch	49	21	21	19-5/16	10-1/4	23		
60k	mm	1346	534	622	580	260	585		
	inch	53	21	24-1/2	22-7/8	10-1/4	23		

Outdoor

35.24(895) W3



DETAIL A
SCALE 1:1



