

**CH-M09DTUI/CH-ES09-230VO 9,000 BTU/H(208/230V) Wall Mounted Heat Pump System**

Location: \_\_\_\_\_ Approval: \_\_\_\_\_  
 Engineer: \_\_\_\_\_ Date: \_\_\_\_\_  
 Submitted to: \_\_\_\_\_ Construction: \_\_\_\_\_  
 Submitted by: \_\_\_\_\_ Unit #: \_\_\_\_\_  
 Reference: \_\_\_\_\_ Drawing #: \_\_\_\_\_

**Set Model**  
 Indoor unit model CH-M09DTUI  
 Outdoor unit model CH-ES09-230VO

**Certified**  
 AHRI   
 UL



**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) 13.0  
 Max.fuse (A) 15.0

**Cooling**  
 Rated Capacity (Btu/h) 9000  
 Capacity Range (Btu/h) 2220~11600  
 Power Input (Max) (W) 667  
 Rated current (A) 3.05  
 SEER (Btu/W) 21  
 EER (Btu/W) 13.5

**Heating at 47F**  
 Rated Capacity (Btu/h) 10000  
 Capacity Range (Btu/h) 2240~13350  
 Power Input (Max) (W) 780  
 Rated current (A) 3.57  
 HSPF4 (Btu/W) 11.5  
 HSPF5 (Btu/W) 9.2  
 COP W/W 3.76

**Heating at 17F**  
 Max Capacity (Btu/h) 10038

**INDOOR UNIT DATA**

**Indoor fan motor**  
 Type Cross-Flow  
 Model ZKFN-55-8-22-1  
 Qty 1  
 Input (W) 130.0  
 RLA (A) -  
 LRA (A) -  
 Winding Resistance (Ω) -  
 Capacitor (uF) -  
 Speed(Hi/Mi/Lo) (r/min) 1170/1030/850

**Air flow & Noise level**  
 Indoor air flow (Hi/Med/Lo) (N) (CFM) 352.94/282.35/176.47  
 Indoor noise level (Hi/Med/Lo) [dB(A)] 33.5/28.5/27

**Dehumidification** (Pint/H) -

**Indoor unit**  
 Dimension (WxDxH) (inch) 27.56x19.92x7.87  
 (mm) 700/506/200  
 Packing(WxDxH) (inch) 33.86x21.26x11.22  
 (mm) 860/540/285  
 Net/Gross weight (lbs.) 37.5/48.3  
 (kg) 17.7/21.9

**OUTDOOR UNIT DATA**

**Compressor**  
 Type KSK103D33UEZ3  
 Model ROTARY  
 Brand GMCC  
 Capacity (Btu/h) 6944 / 11107  
 Input (W) 325 / 826  
 Rated current (RLA) (A) -  
 Refrigerant oil/oil charge (ml) -  
 Throttle Capillary +EXV

**Outdoor fan motor**  
 Model ZKFN-34-10-1  
 Qty 1  
 Input (W) -  
 RLA (A) -  
 Speed (r/min) 800/600

**Air flow & Noise level**  
 Outdoor air flow (Max.) (CFM) 1294.10  
 Outdoor noise level [dB(A)] 53

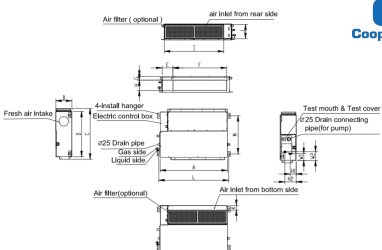
**Outdoor unit**  
 Dimension (WxDxH) (inch) 30.12x11.93x21.85  
 (mm) 765x303x555  
 Packing (WxDxH) (inch) 34.92x13.27x24.02  
 (mm) 887x337x610  
 Net/ Gross weight (lbs.) 63.71/69.00  
 (kg) 28.9/31.3

**REFRIGERANT PIPE DATA**

Design pressure (PSIG) 550/340  
 Refrigerant Type (Oz) R410A/38.1  
 Refrigerant precharge (ft) 25.0  
 (m) 7.6  
 Additional charge for each ft (oz/ft) 0.16  
 (g/ft) 15  
 Liquid side/ Gas side (inch) 1/4" / 3/8"  
 (mm) 6.35/9.52  
 Max. pipe length (ft) 82.0  
 (m) 25.0  
 Max. difference in level (ft) 32.8  
 (m) 10.0  
 Connection method (Flared)

Indoor(cooling/ heating) (Deg. °F) 63~90 / 32~86  
 (Deg. °C) 17~32 / 0~30  
 Outdoor(cooling/heating) (Deg. °F) -13~122 / -13~75  
 (Deg. °C) -25~50 / -25~24  
 Application area (sq.ft) 129.17~193.75  
 (m2) 12~18

**Indoor unit dimension**



Model (KBtu/h)	unit	A	B	C	D	E	F	G	H	I	J	K	L	M	H1	H2	W1	W2
9/12	mm	700	200	606	450	137	537	30	152	999	186	50	741	390	84	140	84	84
	inch	27.6	7.9	19.9	17.7	5.4	21.1	1.2	6.0	23.6	7.3	2.0	29.2	14.2	3.3	5.5	3.3	3.3
18	mm	880	210	674	600	140	706	50	136	782	190	40	920	508	78	148	88	112
	inch	34.6	8.3	26.5	23.6	5.5	27.8	2.0	5.4	30.8	7.5	1.6	36.2	20.0	3.1	5.8	3.5	4.4
24	mm	1100	249	774	700	140	926	50	175	1001	228	5	1140	598	80	150	130	156
	inch	43.3	9.8	30.5	27.6	5.5	36.5	2.0	6.9	39.4	9.0	0.2	44.9	23.5	3.1	5.9	5.1	6.1
36	mm	1360	249	774	700	140	1186	50	175	1261	228	5	1400	598	80	150	130	156
	inch	53.5	9.8	30.5	27.6	5.5	46.7	2.0	6.9	49.6	9.0	0.2	55.1	23.5	3.1	5.9	5.1	6.1
48	mm	1200	300	674	800	125	1044	50	227	1101	280	5	1240	697	80	150	185	210
	inch	47.2	11.8	34.4	31.5	4.8	41.1	2.0	8.9	43.3	11.0	0.2	48.8	27.4	3.1	5.9	7.3	8.3

**Outdoor unit dimension**

