



SUBMITTAL DATA SHEET

**Multi Zone Heat Pump** **ES-27Z-M3B**

Location: _____ Engineer: _____ Submitted to: _____ Submitted by: _____ Reference: _____	Approval: _____ Date: _____ Construction: _____ Unit #: _____ Drawing #: _____
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<b>Set Code</b>	22022310003043
Indoor unit code	22022011016181
Outdoor unit code	22022316001285
<b>Set Model</b>	
Indoor unit model	ES-27Z-M3B
Outdoor unit model	
<b>Certified</b>	
AHRI	
UL	



**SYSTEM PERFORMANCE DATA**

<b>Power supply</b>		
Normal Operational Voltage	(V, Ph, Hz)	208/230V, 1Ph, 60Hz
Voltage Range	(V)	187-253
<b>Electrical</b>		
Minimum circuit ampacity	(A)	24.5
Max.fuse	(A)	30.0
Connection wiring		14AWG*4 Stranded, unshielded
<b>Cooling</b>		
Capacity	(Btu/h)	28000(9838-30438)
Power Input	(W)	2240(341-3246)
Current	(A)	11(2.32-14.5)
SEER2	(Btu/W)	24.6
EER2	(Btu/W)	12.7
<b>Heating</b>		
Capacity	(Btu/h)	28000(8218-31000)
Power Input	(W)	2200(465-3120)
Current	(A)	10.5(3.3-14.2)
HSPF2-4	(Btu/W)	9.3
HSPF2-5	(Btu/W)	7.1
COP	W/W	3.73
Heat at 17F(H32)	(Btu/h)	21000
Heat at 5F(H42)	(Btu/h)	19000
COP at 5F(H42)	W/W	2.00

Outdoor(cooling)	(Deg. °F)	5~122
	(Deg. °C)	-15~50
Outdoor(heating)	(Deg. °F)	-13~75
	(Deg. °C)	-25~24

**REFRIGERANT PIPE DATA**

Design pressure	(PSIG)	550/340
Refrigerant Type		R410A
Refrigerant charge	oz	91.7
Refrigerant precharge	(ft)	25x3
Additional charge for each ft (Φ6.35 (1/4") liquid pipe)	(oz/ft)	0.16
	(g/ft)	15.0
Additional charge for each ft (Φ9.52 (3/8") liquid pipe)	(oz/ft)	0.32
	(g/ft)	30.0
Liquid side	(inch)	3x1/4"
	(mm)	3x6.35
Gas side	(inch)	3x3/8"
	(mm)	3x9.52
Max. length for all rooms	(ft)	196.9
	(m)	60.0
Max. length for one indoor unit	(ft)	98.4
	(m)	30.0
Max. height difference between indoor and outdoor unit	(ft)	49.2
	(m)	15.0
Max. height difference between indoor units	(ft)	33.0
	(m)	10.0

**OUTDOOR UNIT DATA**

<b>Compressor</b>		
Type		Twin-ROTARY
Model		KTM240D43UKT
Brand		GMCC
Capacity	(Btu/h)	25931
Input	(W)	2045
Rated current (RLA)	(A)	14
Refrigerant oil/oil charge	(ml)	ESTER OIL VG74 620
<b>Outdoor fan motor</b>		
Model		ZKFN-120-8-2
Qty		1
Input	(W)	150.00
Output	(W)	120.00
RLA	(A)	1.70
Speed	(r/min)	1050/900/850
<b>Air flow &amp; Noise level</b>		
Outdoor air flow (Max.)	(CFM)	2129.41
Outdoor noise level	[dB(A)]	61.00
<b>Outdoor unit</b>		
Dimension (W×D×H)	(inch)	37.24x16.14x31.89
	(mm)	946x410x810
Packing (W×D×H)	(inch)	42.91x19.69x34.84
	(mm)	1090x500x885
Net/ Gross weight	(lbs.)	139.77/150.57
	(kg)	63.4/68.3

Outdoor unit dimension

