



SUBMITTAL DATA SHEET

**Multi Zone Heat Pump** ES-18Z-M2B

Location: _____ Engineer: _____ Submitted to: _____ Submitted by: _____ Reference: _____	Approval: _____ Date: _____ Construction: _____ Unit #: _____ Drawing #: _____
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<b>Set Code</b>	22022310003206
Indoor unit code	22022011016181
Outdoor unit code	22022316001345
<b>Set Model</b>	
Indoor unit model	ES-18Z-M2B
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)	18.0
Max.fuse	(A)	25.0
Connection wiring		14AWG*4 Stranded, unshielded
<b>Cooling</b>		
Capacity	(Btu/h)	18000(5650-22000)
Power Input	(W)	1295(217-2027)
Current	(A)	6.2(1.76-8.93)
SEER2	(Btu/W)	22.9
EER2	(Btu/W)	13.9
<b>Heating</b>		
Capacity	(Btu/h)	19000(5050-24400)
Power Input	(W)	1489(304-2095)
Current	(A)	6.3(2.31-9.21)
HSPF2-4	(Btu/W)	10.5
HSPF2-5	(Btu/W)	8.0
COP	W/W	3.74
Heat at 17F(H32)	(Btu/h)	14300
Heat at 5F(H42)	(Btu/h)	12600
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	65.3
Refrigerant precharge	(ft)	25x2
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)	2x1/4"
	(mm)	2x6.35
Gas side	(inch)	2x3/8"
	(mm)	2x9.52
Max. length for all rooms	(ft)	131.2
	(m)	40.0
Max. length for one indoor unit	(ft)	82.0
	(m)	25.0
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		KTN150D30UFZA
Brand		GMCC
Capacity	(Btu/h)	16139
Input	(W)	1250
Rated current (RLA)	(A)	/
Refrigerant oil/oil charge	(ml)	ESTER OIL VG74 450
<b>Outdoor fan motor</b>		
Model		ZKFN-80-8-3
Qty		1
Input	(W)	/
Output	(W)	80.00
RLA	(A)	/
Speed	(r/min)	750/600/500
<b>Air flow &amp; Noise level</b>		
Outdoor air flow (Max.)	(CFM)	1764.71
Outdoor noise level	[dB(A)]	58.50
<b>Outdoor unit</b>		
Dimension (W×D×H)	(inch)	35.04x13.46x26.50
	(mm)	890x342x673
Packing (W×D×H)	(inch)	40.55x17.24x29.53
	(mm)	1030x438x750
Net/ Gross weight	(lbs.)	100.31/108.69
	(kg)	45.5/49.3

Outdoor unit dimension

