



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)	27000(8500~32000)
Power Input	(W)	2250(310~3200)
Current	(A)	11(3.3~15.0)
SEER2	(Btu/W)	23.5
EER2	(Btu/W)	12.2
<b>Heating</b>		
Capacity	(Btu/h)	28000(8200~35000)
Power Input	(W)	2250(480~3170)
Current	(A)	11(4.1~14.6)
HSPF2-4	(Btu/W)	9.2
HSPF2-5	(Btu/W)	7.1
COP	W/W	3.65
Heat at 17F(H32)	(Btu/h)	20000
Heat at 5F(H42)	(Btu/h)	19000
COP at 5F(H42)	W/W	2.00
Outdoor(cooling)	(Deg. °F)	5~122
Outdoor(heating)	(Deg. °F)	-13~75

DiamondAir Three Zone Submittal Data Sheet	
<b>Set Model</b>	
Indoor unit model	DF2009HMSI2*3
Outdoor unit model	DF30M2Z3
<b>Certified</b>	
AHRI	
UL	



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)]	60.00
<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

