

### 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)	40.0
Max.fuse	(A)	60.0
Connection wiring		14AWG*4 Stranded, unshielded
<b>Cooling</b>		
Capacity	(Btu/h)	55000(11600~56900)
Power Input	(W)	5238(810~5800)
Current	(A)	23.5(3.9~26)
SEER2	(Btu/W)	20.2
EER2	(Btu/W)	10.5
<b>Heating</b>		
Capacity	(Btu/h)	55000(33000~63000)
Power Input	(W)	5117(2860~5650)
Current	(A)	22.5(12.7~25.5)
HSPF2-4	(Btu/W)	9.6
HSPF2-5	(Btu/W)	7.0
COP	W/W	3.15
Heat at 17F(H32)	(Btu/h)	36400
Heat at 5F(H42)	(Btu/h)	33200
COP at 5F(H42)	W/W	1.80
Outdoor(cooling)	(Deg. °F)	5~122
Outdoor(heating)	(Deg. °F)	-13~75



### DiamondAir Five Zone 55K BTU Submittal Data Sheet

#### Set Model

Indoor unit model DF2009HMSI2\*2DF2012HMSI2\*3  
 Outdoor unit model DF55M2Z5

#### Certified



### REFRIGERANT PIPE DATA

Design pressure	(PSIG)	550/340
Refrigerant Type		R410A
Refrigerant charge	oz	162.0
Refrigerant precharge	(ft)	25x5
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)	5x1/4"
	(mm)	5x6.35
Gas side	(inch)	3x3/8"+2x1/2"
	(mm)	3x9.52+2x12.7
Max. length for all rooms	(ft)	262.5
	(m)	80.0
Max. length for one indoor unit	(ft)	114.8
	(m)	35.0
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		ROTARY
Model		KTQ420D1UMU
Brand		GMCC
Capacity	(Btu/h)	46744
Input	(W)	3700
Rated current (RLA)	(A)	25.0
Refrigerant oil/oil charge	(ml)	VG74/1400
<b>Outdoor fan motor</b>		
Model		ZKFN-85-8-22-5
Qty		2
Input	(W)	126.0
Output	(W)	85.0
RLA	(A)	2.5
Speed	(r/min)	900/850/800/750
<b>Air flow &amp; Noise level</b>		
Outdoor air flow (Max.)	(CFM)	4500.00
Outdoor noise level	[dB(A)]	62.00
<b>Outdoor unit</b>		
Dimension (W×D×H)	(inch)	37.48x16.34x52.48
	(mm)	952x415x1333
Packing (W×D×H)	(inch)	43.11x19.49x58.27
	(mm)	1095x495x1480
Net/ Gross weight	(lbs.)	224.21/257.28
	(kg)	101.7/116.7

Outdoor unit dimension

