



Submittal Data

A-VMH48PU-1 Outdoor Unit

Project Name:	
Location:	
Engineer:	
Submitted to:	
Submitted by:	
Reference:	
Outdoor Model	A-VMH48PU-1
Outdoor Unit Factory Mod.	M5OF-48HFN1-M

Approval:	
Date:	
Construction:	
Unit #:	
Drawing #:	



Outdoor fan motor

PERFORMANCE DATA		
Power supply	Ph-V-Hz	208-230V~60Hz , 1Ph
Number of Zones		5
Cooling		
Capacity	Btu/h	48000
EER	Btu/w	12.5
SEER	Btu/w	22.4
Heating		
Capacity	Btu/h	48000
COP	W/W	3.6
HSPF4		10.2
HSPF5		8.3
Heating at 5 F (-15°C)	Btu/w	34900
MINIMUM CIRCUIT AMPACITY	A	35.0
MAX.FUSE	A	50.0
Compressor Electrical		
Model		ATQ360D1UMU
Type		Twin-ROTARY
Brand		GMCC
Capacity	Btu/h	38214
Input	W	3040
Rated current(RLA)	A	21.00
Coil Treatment		Gold Fin
Refrigerant oil/oil charge	ml	Ester Oil VG74/1400
Connection wiring		14/4 STRANDED
Air flow & Noise level		
Outdoor air flow	CFM	4500
Outdoor noise level	dB(A)	64

Model		ZKFN-85-8-22
Input	W	126
RLA	A	0.39
Speed	r/min	150 to 870

Outdoor unit

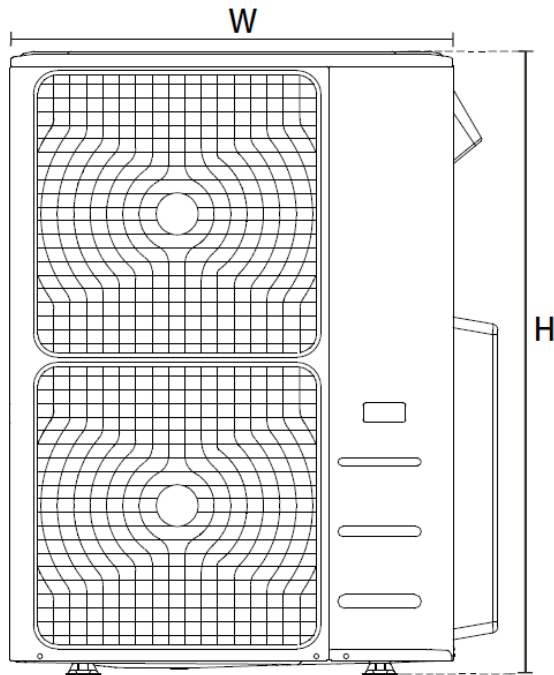
Dimension(W*D*H)	inch	37.48x16.34x52.48
Packing (W*D*H)	inch	43.11x19.49x58.27
Net/Gross weight	lbs.	223.77/255.07

SYSTEM DATA

Design pressure	PSIG	550/340
Refrigerant type	oz	R410A/162.3
Refrigerant precharge	ft	125
Additional charge per ft.	oz	0.32
Liquid side/ Gas side	(in)	5x1/4"/3x3/8"+2x1/2"
Max. length 1 unit	ft	115
Max. length all units	ft	262
Max. height diff. in to in	ft	33
Max. height diff. in/out	ft	49
Thermostat type		Remote control

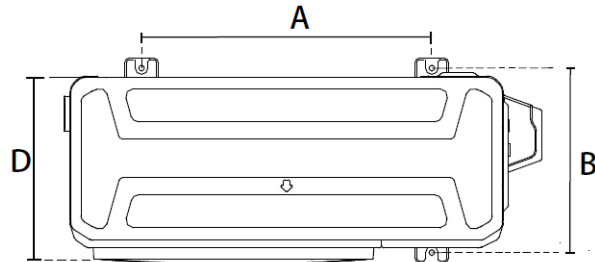
Ambient temperature

Outdoor(cooling)	Deg. F	-13
Outdoor(heating)	Deg. F	-13



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Accessories

- 93640 Mini-Split Bracket 260lb. Limit
- 93641 Mini-Split Bracket 330lb. Limit
- 93642 Mini-Split Bracket 400lb. Limit
- 93540 Mini-Split Pad 18" x 38" x 3"

Model	W (inch)	D (inch)	H (inch)
A-VMH48PU-1	37.48	16.34	52.48

A (inch)	B (inch)
24.96	15.9

COOLING PERFORMANCE DATA

Model	Cooling		Outdoor conditions (DB)																		
	Indoor		-22F (-30C)	-13F (-25C)	-5F (-20.6C)	-4F (-20C)	0F (-17.8C)	5F (-15C)	15F (-9.4C)	25F (-3.9C)	35F (1.7C)	45F (7.2C)	55F (12.8C)	65F (18.3C)	75F (23.9C)	85F (29.4C)	95F (35C)	105F (40.6C)	115F (46.1C)	122F (50C)	
	DB	WB																			
5 zone(48K) Non-Ducted (208-230V)	65F (18.3C)	54F TC	36.74	38.68	38.87	39.11	38.52	37.94	38.16	38.39	38.61	38.48	38.31	38.15	36.17	33.36	30.33	27.47	24.42		
		54F SC	25.72	27.08	27.21	27.38	26.97	26.56	27.10	27.65	28.19	30.21	32.24	34.26	33.91	32.69	30.33	27.47	24.42		
	70F (21.1C)	59F TC	39.94	42.04	42.25	42.51	41.87	41.24	41.48	41.73	41.97	41.80	41.64	41.47	39.32	36.26	32.97	29.86	26.54		
		59F SC	27.96	29.43	29.58	29.76	29.31	28.87	29.46	30.05	30.64	32.84	35.04	37.24	36.86	35.53	32.97	29.86	26.54		
	75F (23.9C)	63F TC	43.13	45.40	45.63	45.91	45.22	44.54	44.80	45.07	45.33	45.15	44.97	44.79	42.47	39.16	35.61	32.25	28.66		
		63F SC	31.49	33.14	33.31	33.51	33.01	32.51	33.31	34.10	34.90	35.66	36.41	37.17	36.10	34.07	32.05	32.25	28.66		
	80F (26.7C)	67F TC	51.18	53.87	54.14	54.68	54.58	55.15	55.67	56.20	56.72	57.90	59.08	60.26	56.82	53.16	40.95	38.57	35.24		
		67F SC	39.10	41.15	41.36	41.01	42.12	42.11	42.25	42.40	42.54	43.71	44.87	46.04	44.49	42.79	37.95	38.57	35.24		

HEATING PERFORMANCE DATA

Model	Heating		Outdoor conditions (DB)															
	Indoor	Conditions DB	-22F (-30C)	-13F (-25C)	-5F (-20.6C)	0F (-17.8C)	5F (-15C)	17F (-8.3C)	19.4F (-7C)	24.8F (-4C)	32F (0C)	35F (1.7C)	39.2F (4C)	44.6F (7C)	47F (8.3C)	53.6F (12C)	57F (13.9C)	
	DB	WB															Input	Input
5 zone(48K) Non-Ducted (208-230V)	60F (15.6C)	TC	20.35	23.94	25.31	27.13	29.48	33.67	34.15	36.61	40.56	44.08	50.41	56.74	57.87	66.65	67.67	
		Input	4.15	4.26	4.26	4.28	4.30	4.32	4.48	4.06	4.28	4.32	4.36	4.40	4.34	4.41		
	65F (18.3C)	TC	23.58	24.93	26.72	29.04	33.16	33.64	36.06	39.95	43.42	49.66	55.89	57.01	65.65	66.65		
		Input	4.21	4.32	4.32	4.34	4.36	4.38	4.54	4.12	4.34	4.38	4.42	4.46	4.40	4.47		
	70F (21.1C)	TC	15.64	17.45	24.88	24.12	30.07	30.42	35.94	38.56	42.09	48.96	55.83	56.95	64.75	65.74		
		Input	3.56	3.66	4.70	3.94	4.16	4.19	4.58	4.43	4.63	4.67	4.71	4.76	4.96	5.04		
	75F (23.9C)	TC	15.33	17.10	24.38	25.60	29.47	29.81	35.22	37.79	41.25	47.98	54.71	55.80	63.46	64.43		
		Input	3.61	3.65	4.75	4.09	4.21	4.24	4.63	4.48	4.68	4.72	4.76	4.81	5.01	5.09		