



MULTI- ZONE HEAT PUMPS

HIGH WALL MOUNT INDOOR MODEL No.

MSEPB-06HRFN1-MY5W

MSEPB-09HRFN1-MY5W(GA)

MSEPB-12HRFN1-MY5W(GA)

MSEPC-18HRFN1-MU0W

MSEPD-24HRFN1-MU0W

MULTI- ZONE OUTDOOR MODEL No.

M3OJ-27HFN1-M

M4OG-36HFN1-M

HYPER HEAT -30°C

M2OI-18HFN1-M

M3OI-28HFN1-M

M4OI-36HFN1-M

M5OG-48HFN1-M-[X]



Submittal Data

Submittal Data Model No.: **MSEPb-06HRFN1-MY5W**

Description: **6000 BTU/HR HIGH WALL MOUNTED INDOOR UNIT**

Job Name:

Location:

Date:

Purchaser:

Engineer:

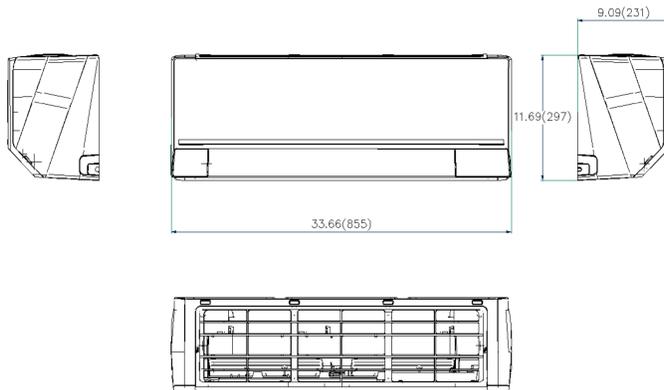
Submitted to:

For:

Review

Approval:

Indoor Model		MSEPb-06HRFN1-MY5W	
Power supply		V, Hz, Ph	208-230V,1Ph,60Hz
Indoor air flow (Hi/Med/Lo) (No duct)		m^3/h	540/370/285
Indoor air flow (Hi/Med/Lo) (No duct)		CFM	317.65/217.65/167.65
Indoor noise level (Hi/Med/Lo)		dB(A)	36/32/23
Indoor unit	Dimension (WxDxH)	mm	795x225x295
		inch	33.66x9.09x11.69
	Packing (WxDxH)	mm	870x370x305
		inch	34.25x14.57x12.01
	Net/Gross weight	kg	10.3/13.1
		lbs.	22.71/28.88
Refrigerant piping	Liquid side/Gas side	mm	Φ6.35/Φ9.52 (1/4"/3/8")
Application area (cooling standard)		m^2	8~12
Application area (cooling standard)		Sq. ft	86.11~129.17





Submittal Data

Submittal Data Model No.: **MSEPb-09HRFN1-MY5W(GA)**

Description: **9000 BTU/HR HIGH WALL MOUNTED INDOOR UNIT**

Job Name:

Location:

Date:

Purchaser:

Engineer:

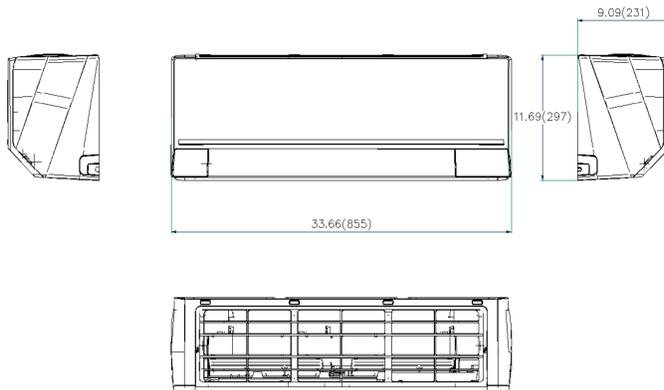
Submitted to:

For:

Review

Approval:

Indoor Model		MSEPb-09HRFN1-MY5W(GA)	
Power supply	V, Hz, Ph	208-230V,1Ph,60Hz	
Indoor air flow (Hi/Med/Lo) (No duct)	m^3/h	570/390/300	
Indoor air flow (Hi/Med/Lo) (No duct)	CFM	335.29/229.41/176.47	
Indoor noise level (Hi/Med/Lo)	dB(A)	38/33.5/23.5	
Indoor unit	Dimension (WxDxH)	mm	795x225x295
		inch	34.25x14.57x12.01
	Packing (WxDxH)	mm	870x370x305
		inch	34.25x14.57x12.01
	Net/Gross weight	kg	10.3/13.1
		lbs.	22.71/28.88
Refrigerant piping	Liquid side/Gas side	mm	Φ6.35/Φ9.52 (1/4"/3/8")
Application area (cooling standard)		m^2	12~18
Application area (cooling standard)		Sq. ft	129.17~193.75





Submittal Data

Submittal Data Model No.: **MSEPb-12HRFN1-MW5W(GA)**

Description: **12,000 BTU/HR HIGH WALL MOUNTED INDOOR UNIT**

Job Name:

Location:

Date:

Purchaser:

Engineer:

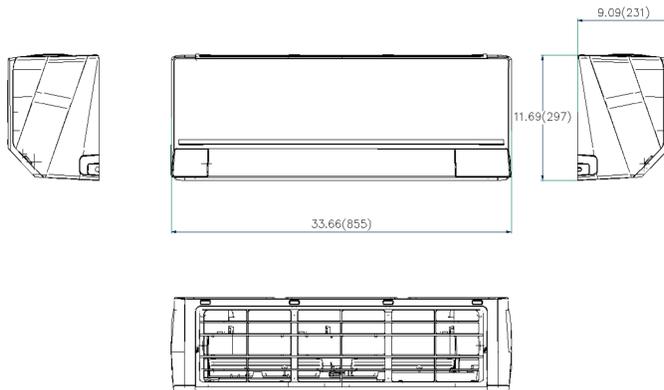
Submitted to:

For:

Review

Approval:

Indoor Model		MSEPb-12HRFN1-MW5W(GA)	
Power supply	V, Hz, Ph	208-230V,1Ph,60Hz	
Indoor air flow (Hi/Med/Lo) (No duct)	m^3/h	570/390/300	
Indoor air flow (Hi/Med/Lo) (No duct)	CFM	335.29/229.41/176.47	
Indoor noise level (Hi/Med/Lo)	dB(A)	38/33.5/23.5	
Indoor unit	Dimension (WxDxH)	mm	795x225x295
		inch	31.30x8.86x11.61
	Packing (WxDxH)	mm	870x370x305
		inch	34.25x14.57x12.01
	Net/Gross weight	kg	10.4/13.1
		lbs.	22.93/28.88
Refrigerant piping	Liquid side/Gas side	mm	$\Phi 6.35/\Phi 12.7$ (1/4"/1/2")
Application area (cooling standard)		m^2	16~23
Application area (cooling standard)		Sq. ft	172.22~247.57





Submittal Data

Submittal Data Model No.: **MSEPC-18HRFN1-MU0W**

Description: **18,000 BTU/HR HIGH WALL MOUNTED INDOOR UNIT**

Job Name:

Location:

Date:

Purchaser:

Engineer:

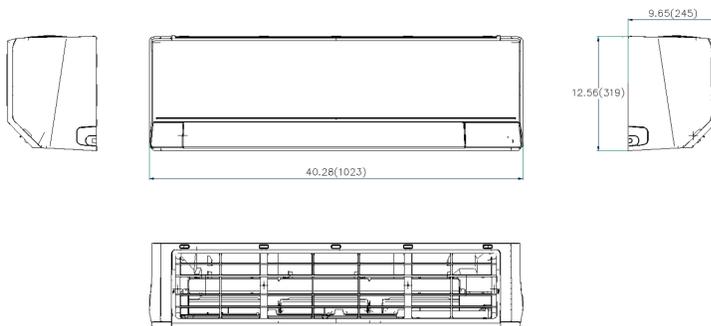
Submitted to:

For:

Review

Approval:

Indoor Model		MSEPC-18HRFN1-MU0W	
Power supply	V, Hz, Ph	208-230V,1Ph,60Hz	
Indoor air flow (Hi/Med/Lo) (No duct)	m^3/h	890/640/520	
Indoor air flow (Hi/Med/Lo) (No duct)	CFM	523.53/376.47/305.88	
Indoor noise level (Hi/Med/Lo)	dB(A)	46/42/24	
Indoor unit	Dimension (WxDxH)	mm	965x239x319
		inch	37.99x9.41x12.56
	Packing (WxDxH)	mm	1045x400x325
		inch	41.14x15.75x12.80
	Net/Gross weight	kg	12.3/16.2
		lbs.	27.12/35.71
Refrigerant piping	Liquid side/Gas side	mm	Φ6.35/Φ12.7 (1/4"/1/2")
Application area (cooling standard)	m^2	24~35	
Application area (cooling standard)	Sq. ft	258.33~376.74	





Submittal Data

Submittal Data Model No.: **MSEPD-24HRFN1-MU0W**

Description: **24,000 BTU/HR HIGH WALL MOUNTED INDOOR UNIT**

Job Name:

Location:

Date:

Purchaser:

Engineer:

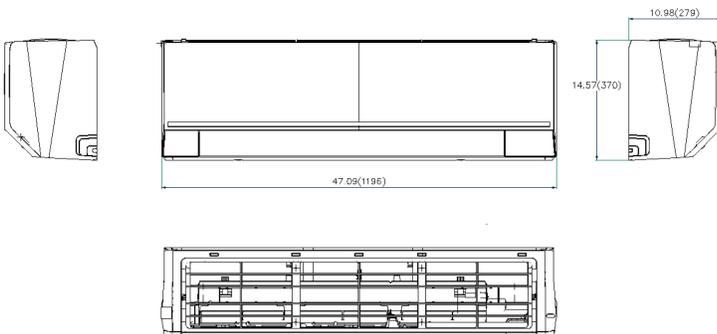
Submitted to:

For:

Review

Approval:

Indoor Model		MSEPD-24HRFN1-MU0W	
Power supply	V, Hz, Ph	208-230V,1Ph,60Hz	
Indoor air flow (Hi/Med/Lo) (No duct)	m^3/h	1390/704/542	
Indoor air flow (Hi/Med/Lo) (No duct)	CFM	611.18/414.12/318.82	
Indoor noise level (Hi/Med/Lo)	dB(A)	46/39/34	
Indoor unit	Dimension (WxDxH)	mm	1140x275x370
		inch	44.88x10.83x14.57
	Packing (WxDxH)	mm	1230x455x355
		inch	48.43x17.91x13.98
	Net/Gross weight	kg	19.8/24.9
		lbs.	43.65/54.89
Refrigerant piping	Liquid side/Gas side	mm	Φ9.52/Φ15.9 (3/8"/5/8")
Application area (cooling standard)		m^2	32~47
Application area (cooling standard)		Sq. ft	344.44~505.90





Submittal Data

Submittal Data Model No.: **M3OJ-27HFN1-M**

Description: **27,000 BTU/HR 3 ZONE HEAT PUMP OUTDOOR**

Job Name:

Location:

Date:

Purchaser:

Engineer:

Submitted to:

For:

Review

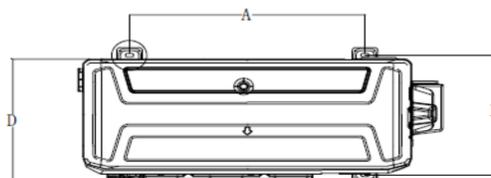
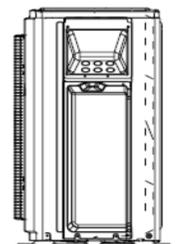
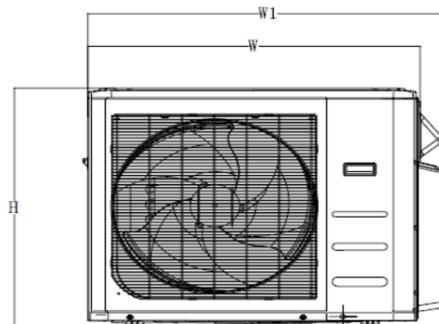
Approval:

Outdoor Model		M3OJ-27HFN1-M	
Output unit data			
Power supply	Normal Operational Voltage	(V, Hz, Ph)	208-230,1,60
	Voltage Range	(V)	187-253
Electrical	Minimum circuit ampacity	(A)	24.5
	Max. fuse	(A)	30.0
Outdoor fan motor	Model		ZKFN-120-8-2
	Qty		1
	Input	(W)	150.0
	RLA	(A)	-
	Speed	r/min	1050/900/850
Refrigerant data			
Design pressure		(PSIG)	550/340
Refrigerant type		(Oz)	R410A/91.7
Refrigerant precharge		(ft)	74.0
Additional charge for each ft-Φ6.35 (1/4") liquid pipe		(oz/ft)	0.161
Additional charge for each ft-Φ9.52 (3/8") liquid pipe		(oz/ft)	0.322
Liquid state/Gas state		(inch)	3 x 1/4"/3 x 3/8"
Max. length for all rooms		(ft)	197
Max. length for one indoor unit		(ft)	98.0
Max height difference between indoor and outdoor unit		(ft)	49
Max length between the indoor units		(ft)	33



Outdoor unit data			
Compressor	Model		KTM240D43UKT
	Type		ROTARY
	Brand		GMCC
	Capacity	(Btu/h)	24293.44
	Input	(W)	1895
	Rated current (RLA)	(A)	-
	Refrigerant oil/oil charge	(ml)	VG74/620
	Throttle		Capillary +EXV
Air flow & Noise level	Outdoor air flow	(CFM)	2129.41
	Outdoor noise level	[dB/(A)]	61
Outdoor unit	Dimension (WxDxH)	(inch)	37.24 x 16.14 x 31.89
	Packing (WxDxH)	(inch)	42.91 x 19.69 x 34.84
	Net/Gross weight	(lbs.)	139.77/150.57
		(kg)	63.4/68.3
Outdoor (cooling/heating)		(Deg F)	-13~122/ -13~86
		(Deg C)	-25~50/ -25~30

Unit	W	D	H	W1	A	B
(mm)	946	410	810	1034	673	403
inch)	37.2	16.5	31.9	40.6	26.5	15.9





Submittal Data

Submittal Data Model No.: **M4OG-36HFN1-M**

Description: **36,000 BTU/HR 4 ZONE HEAT PUMP OUTDOOR**

Job Name:

Location:

Date:

Purchaser:

Engineer:

Submitted to:

For:

Review

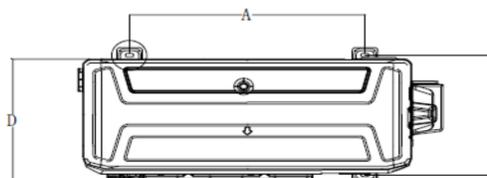
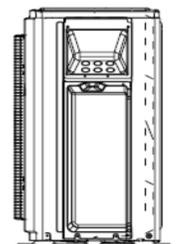
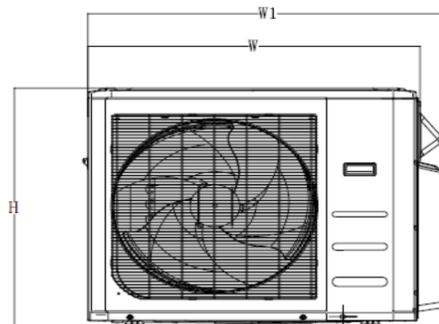
Approval:

Outdoor Model		M4OG-36HFN1-M	
Output unit data			
Power supply	Normal Operational Voltage	(V, Hz, Ph)	208-230,1,60
	Voltage Range	(V)	187-253
Electrical	Minimum circuit ampacity	(A)	25.0
	Max. fuse	(A)	40.0
Outdoor fan motor	Model		ZKFN-120-8-2
	Qty		1
	Input	(W)	150.0
	RLA	(A)	-
	Speed	r/min	1000/900/750
Refrigerant data			
Design pressure		(PSIG)	550/340
Refrigerant type		(Oz)	R410A/134.04
Refrigerant precharge		(ft)	98.0
Additional charge for each ft-Φ6.35 (1/4") liquid pipe		(oz/ft)	0.161
Additional charge for each ft-Φ9.52 (3/8") liquid pipe		(oz/ft)	0.322
Liquid state/Gas state		(inch)	4 x 1/4"/3 x 3/8" + 1 x 1/2"
Max. length for all rooms		(ft)	262
Max. length for one indoor unit		(ft)	115.0
Max height difference between indoor and outdoor unit		(ft)	49
Max length between the indoor units		(ft)	33



Outdoor unit data			
Compressor	Model		KTF310D43UMT
	Type		ROTARY
	Brand		GMCC
	Capacity	(Btu/h)	32380
	Input	(W)	2600
	Rated current (RLA)	(A)	-
	Refrigerant oil/oil charge	(ml)	VG74/1000
	Throttle		Capillary +EXV
Air flow & Noise level	Outdoor air flow	(CFM)	2147.06
	Outdoor noise level	[dB/(A)]	63
Outdoor unit	Dimension (WxDxH)	(inch)	37.24 x 16.14 x 31.89
	Packing (WxDxH)	(inch)	42.91 x 19.69 x 34.84
	Net/Gross weight	(lbs.)	169.09/181.44
		(kg)	76.7/82.3
Outdoor (cooling/heating)		(Deg F)	-13~122/ -13~86
		(Deg C)	-25~50/ -25~30

Unit	W	D	H	W1	A	B
(mm)	946	410	810	1034	673	403
inch)	37.2	16.5	31.9	40.6	26.5	15.9





Submittal Data

Submittal Data Model No.: **M2OI-18HFN1-M Hyper Heat -30°C**

Description: **18,000 BTU/HR 2 ZONE HEAT PUMP OUTDOOR**

Job Name:

Location:

Date:

Purchaser:

Engineer:

Submitted to:

For:

Review

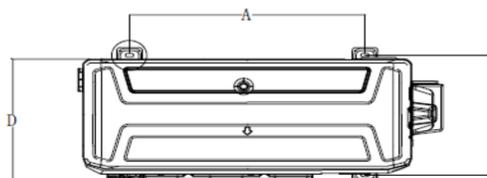
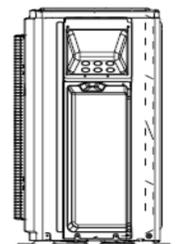
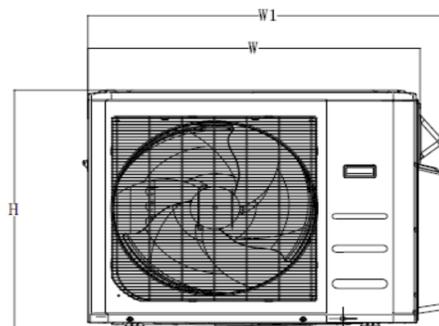
Approval:

Outdoor Model		M2OI-18HFN1-M	
Output unit data			
Power supply	Normal Operational Voltage	(V, Hz, Ph)	208-230,1,60
	Voltage Range	(V)	187-253
Electrical	Minimum circuit ampacity	(A)	20.0
	Max. fuse	(A)	25.0
Outdoor fan motor	Model		ZKFN-120-8-2
	Qty		1
	Input	(W)	150.0
	RLA	(A)	-
	Speed	r/min	1050/900/850
Refrigerant data			
Design pressure		(PSIG)	550/340
Refrigerant type		(Oz)	R410A/91.7
Refrigerant precharge		(ft)	49.0
Additional charge for each ft-Φ6.35 (1/4") liquid pipe		(oz/ft)	0.161
Additional charge for each ft-Φ9.52 (3/8") liquid pipe		(oz/ft)	0.322
Liquid state/Gas state		(inch)	2 x 1/4"/2 x 3/8"
Max. length for all rooms		(ft)	131
Max. length for one indoor unit		(ft)	82.0
Max height difference between indoor and outdoor unit		(ft)	49
Max length between the indoor units		(ft)	33



Outdoor unit data			
Compressor	Model		KTM240D43UKT
	Type		ROTARY
	Brand		GMCC
	Capacity	(Btu/h)	24293.44
	Input	(W)	1895
	Rated current (RLA)	(A)	-
	Refrigerant oil/oil charge	(ml)	VG74/620
	Throttle		Capillary +EXV
Air flow & Noise level	Outdoor air flow	(CFM)	2129.41
	Outdoor noise level	[dB/(A)]	61
Outdoor unit	Dimension (WxDxH)	(inch)	37.24 x 16.14 x 31.89
	Packing (WxDxH)	(inch)	42.91 x 19.69 x 34.84
	Net/Gross weight	(lbs.)	138.23/149.03
		(kg)	62.7/67.6
Outdoor (cooling/heating)		(Deg F)	-22~122/ -22~86
		(Deg C)	-30~50/ -30~30

Unit	W	D	H	W1	A	B
(mm)	946	410	810	1034	673	403
inch)	37.2	16.5	31.9	40.6	26.5	15.9





Submittal Data

Submittal Data Model No.: **M3OI-28HFN1-M Hyper Heat -30°C**

Description: **27,000 BTU/HR 3 ZONE HEAT PUMP OUTDOOR**

Job Name:

Location:

Date:

Purchaser:

Engineer:

Submitted to:

For:

Review

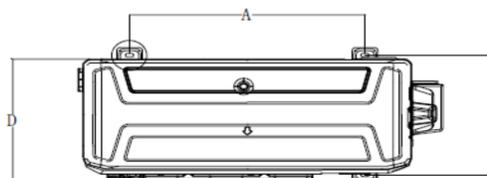
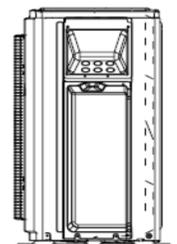
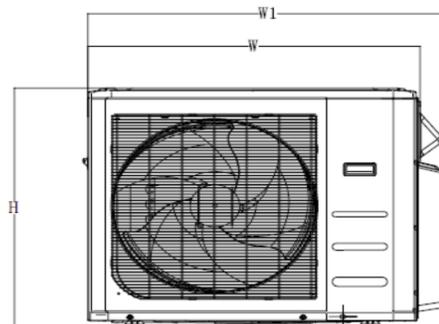
Approval:

Outdoor Model		M3OI-28HFN1-M	
Output unit data			
Power supply	Normal Operational Voltage	(V, Hz, Ph)	208-230,1,60
	Voltage Range	(V)	187-253
Electrical	Minimum circuit ampacity	(A)	25.0
	Max. fuse	(A)	40.0
Outdoor fan motor	Model		ZKFN-120-8-2
	Qty		1
	Input	(W)	150.0
	RLA	(A)	-
	Speed	r/min	1000/900/750
Refrigerant data			
Design pressure		(PSIG)	550/340
Refrigerant type		(Oz)	R410A/134.04
Refrigerant precharge		(ft)	74.0
Additional charge for each ft-Φ6.35 (1/4") liquid pipe		(oz/ft)	0.161
Additional charge for each ft-Φ9.52 (3/8") liquid pipe		(oz/ft)	0.322
Liquid state/Gas state		(inch)	3 x 1/4"/3 x 3/8"
Max. length for all rooms		(ft)	197
Max. length for one indoor unit		(ft)	98.0
Max height difference between indoor and outdoor unit		(ft)	49
Max length between the indoor units		(ft)	33



Outdoor unit data			
Compressor	Model		KTF310D43UMT
	Type		ROTARY
	Brand		GMCC
	Capacity	(Btu/h)	32380
	Input	(W)	2600
	Rated current (RLA)	(A)	-
	Refrigerant oil/oil charge	(ml)	VG74/1000
	Throttle		Capillary +EXV
Air flow & Noise level	Outdoor air flow	(CFM)	2147.06
	Outdoor noise level	[dB/(A)]	63
Outdoor unit	Dimension (WxDxH)	(inch)	37.24 x 16.14 x 31.89
	Packing (WxDxH)	(inch)	42.91 x 19.69 x 34.84
	Net/Gross weight	(lbs.)	167.99/179.67
		(kg)	76.2/81.5
Outdoor (cooling/heating)		(Deg F)	-22~122/ -22~86
		(Deg C)	-30~50/ -30~30

Unit	W	D	H	W1	A	B
(mm)	946	410	810	1034	673	403
inch)	37.2	16.5	31.9	40.6	26.5	15.9





Submittal Data

Submittal Data Model No.: **M4OI-36HFN1-M Hyper Heat -30°C**

Description: **36,000 BTU/HR 4 ZONE HEAT PUMP OUTDOOR**

Job Name:

Location:

Date:

Purchaser:

Engineer:

Submitted to:

For:

Review

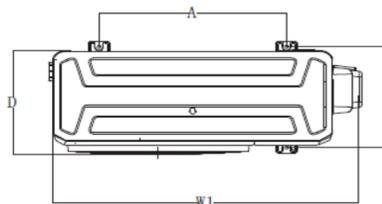
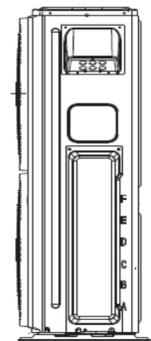
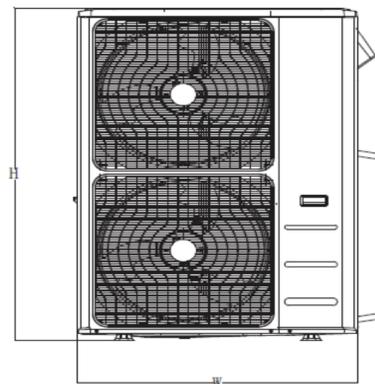
Approval:

Outdoor Model		M4OI-36HFN1-M	
Output unit data			
Power supply	Normal Operational Voltage	(V, Hz, Ph)	208-230,1,60
	Voltage Range	(V)	187-253
Electrical	Minimum circuit ampacity	(A)	40.0
	Max. fuse	(A)	60.0
Outdoor fan motor	Model		ZKFN-85-8-22-5
	Qty		2
	Input	(W)	126.0
	RLA	(A)	1.0 + 1.0
	Speed	r/min	800/700/600
Refrigerant data			
Design pressure		(PSIG)	550/340
Refrigerant type		(Oz)	R410A/162
Refrigerant precharge		(ft)	98.0
Additional charge for each ft-Φ6.35 (1/4") liquid pipe		(oz/ft)	0.161
Additional charge for each ft-Φ9.52 (3/8") liquid pipe		(oz/ft)	0.322
Liquid state/Gas state		(inch)	4 x 1/4"/3 x 3/8" + 1 x 1/2"
Max. length for all rooms		(ft)	262
Max. length for one indoor unit		(ft)	115
Max height difference between indoor and outdoor unit		(ft)	49
Max length between the indoor units		(ft)	33



Outdoor unit data			
Compressor	Model		ATQ360D1UMU
	Type		ROTARY
	Brand		GMCC
	Capacity	(Btu/h)	38214
	Input	(W)	3040
	Rated current (RLA)	(A)	-
	Refrigerant oil/oil charge	(ml)	VG74/1400
	Throttle		Capillary +EXV
Air flow & Noise level	Outdoor air flow	(CFM)	4500.00
	Outdoor noise level	[dB/(A)]	63
Outdoor unit	Dimension (WxDxH)	(inch)	37.48 x 16.34 x 52.48
	Packing (WxDxH)	(inch)	43.11 x 19.49 x 58.27
	Net/Gross weight	(lbs.)	223.11/253.97
		(kg)	101.2/115.2
Outdoor (cooling/heating)		(Deg F)	-22~122/ -22~86
		(Deg C)	-30~50/ -30~30

Unit	W	D	H	W1	A	B
(mm)	952	415	1333	1060	634	404
inch)	37.5	16.3	52.5	41.7	25.0	15.9





Submittal Data

Submittal Data Model No.: **M5OG-48HFN1-M-[X] Hyper Heat -30°C**

Description: **48,000 BTU/HR 5 ZONE HEAT PUMP OUTDOOR**

Job Name:

Location:

Date:

Purchaser:

Engineer:

Submitted to:

For:

Review

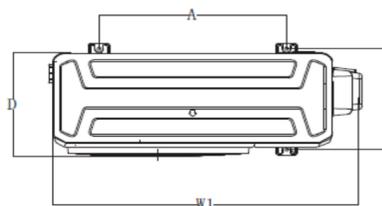
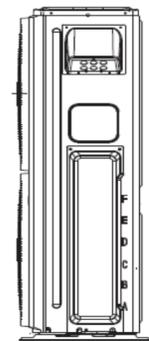
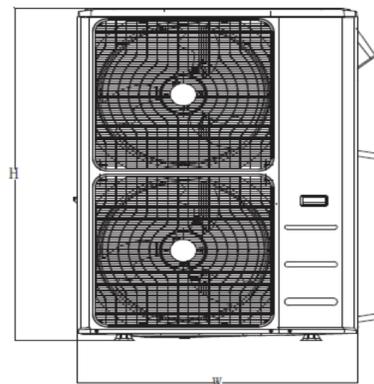
Approval:

Outdoor Model		M5OG-48HFN1-M-[X]	
Output unit data			
Power supply	Normal Operational Voltage	(V, Hz, Ph)	208-230,1,60
	Voltage Range	(V)	187-253
Electrical	Minimum circuit ampacity	(A)	42.0
	Max. fuse	(A)	50.0
Outdoor fan motor	Model		ZKFN-85-8-22-5
	Qty		2
	Input	(W)	126.0
	RLA	(A)	1.0 + 1.0
	Speed	r/min	900/850/800/750
Refrigerant data			
Design pressure		(PSIG)	550/340
Refrigerant type		(Oz)	R410A/162
Refrigerant precharge		(ft)	123.0
Additional charge for each ft-Φ6.35 (1/4") liquid pipe		(oz/ft)	0.161
Additional charge for each ft-Φ9.52 (3/8") liquid pipe		(oz/ft)	0.322
Liquid state/Gas state		(inch)	5 x 1/4"/3 x 3/8" + 2 x 1/2"
Max. length for all rooms		(ft)	262
Max. length for one indoor unit		(ft)	115
Max height difference between indoor and outdoor unit		(ft)	49
Max length between the indoor units		(ft)	33



Outdoor unit data			
Compressor	Model		EAPQ420D1UMUA
	Type		ROTARY
	Brand		GMCC
	Capacity	(Btu/h)	44015
	Input	(W)	3565
	Rated current (RLA)	(A)	30
	Refrigerant oil/oil charge	(ml)	1400±15ml ESTER OIL VG74
	Throttle		Capillary +EXV
Air flow & Noise level	Outdoor air flow	(CFM)	4500.00
	Outdoor noise level	[dB/(A)]	65
Outdoor unit	Dimension (WxDxH)	(inch)	37.48 x 16.34 x 52.48
	Packing (WxDxH)	(inch)	43.11 x 19.49 x 58.27
	Net/Gross weight	(lbs.)	238.32/269.84
		(kg)	108.1/122.4
Outdoor (cooling/heating)		(Deg F)	-22~122/ -22~86
		(Deg C)	-30~50/ -30~30

Unit	W	D	H	W1	A	B
(mm)	952	415	1333	1060	634	404
inch)	37.5	16.3	52.5	41.7	25.0	15.9





Submittal Data

Submittal Data Model No.: **M5OG-48HFN1-M-[X] Hyper Heat -30°C**

Description: **48,000 BTU/HR 5 ZONE HEAT PUMP OUTDOOR**

Job Name:

Location:

Date:

Purchaser:

Engineer:

Submitted to:

For:

Review

Approval:

Outdoor Model		M5OG-48HFN1-M-[X]	
Output unit data			
Power supply	Normal Operational Voltage	(V, Hz, Ph)	208-230,1,60
	Voltage Range	(V)	187-253
Electrical	Minimum circuit ampacity	(A)	40.0
	Max. fuse	(A)	60.0
Outdoor fan motor	Model		ZKFN-85-8-22-5
	Qty		2
	Input	(W)	126.0
	RLA	(A)	1.0 + 1.0
	Speed	r/min	900/850/800/750
Refrigerant data			
Design pressure		(PSIG)	550/340
Refrigerant type		(Oz)	R410A/162
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- 209319647 Non-ducted
- 209319648 Ducted
- 209319649 Mixed

