

# manuflow hvac

## SEER 19 to 23 DC INVERTER



GMCC (TOSHIBA) Compressor

### Indoor units

Models number			MS11M-09HRFN1-MX4W	MS11M-12HRFN1-MW0W	MS11M-18HRFN1-MU0W	MS11M-24HRDN1-MT0W	
Power supply		Ph-V-Hz	208-230V~ 60Hz, 1Ph	208-230V~ 60Hz, 1Ph	208-230V~ 60Hz, 1Ph	208-230V~ 60Hz, 1Ph	
Cooling	Capacity	Btu/h	9000	12000	17500	23000	
	EER	Btu/w	15	13,5	12,5	12,5	
	SEER	Btu/w	24,4	23	21	19	
Heating	Capacity	Btu/h	11000	12000	18000	24000	
	HSPF4	Btu/w	10,5	10	9,5	9	
	HSPF5	Btu/w	8	8	7,2	7,2	
MINIMUM CIRCUIT AMPACITY		A	7,5	8	13.0	15.0	
MAX.FUSE		A	15	15	20.0	25.0	
Moisture Removal		L/h	1	1,2	1.7	2.5	
Compressor	Model		ASM98D1UFZA	ASM108D1UFZA	DA130M1C-31FZ	DA250S2C-30MT	
	Type		ROTARY	ROTARY	ROTARY	Twin-rotary	
	Brand		GMCC	GMCC	GMCC	GMCC	
	Capacity	Btu/h	10048	11178	13443	26289	
	Input	W	740	840	1005	2120	
	Rated current(RLA)	A	5,25	5,65	3,95	8,85	
	Speed(Hi/Mi/Lo)	r/min	1150/950/750	1150/950/750	1150 / 900 / 700	1250 / 1100 / 900	
Indoor air flow (Hi/Mi/Lo)		m3/h	720/600/470	720/600/470	1200/950/750	1450/1300/1050	
Indoor air flow (Hi/Mi/Lo)		CFM	425/350/280	425/350/280	710/560/440	850/770/620	
Indoor noise level (Hi/Mi/Lo)		dB(A)	43/38/28	43/38/28	47/40/31	50/45/40	
Indoor unit	Dimension(W*D*H)		mm	835x198x280	835x198x280	990x218x315	1186x258x340
	Dimension(W*D*H)		inch	32.87x7.80x11.02	32.87x7.80x11.02	38.98x8.58x12.40	46.69x10.16x13.39
	Packing (W*D*H)		mm	910x270x355	910x270x355	1065x300x400	1265x420x340
	Packing (W*D*H)		inch	35.83x10.63x13.98	35.83x10.63x13.98	41.93x11.81x15.75	49.80x16.53x13.39
	Net/Gross weight	Kg	8.7 / 11.2	8.7 / 11.2	12 / 14	18.5/23	
	Net/Gross weight	lbs.	19.18/24.69	19.18/24.69	26.46/30.86	40.79/50.71	
	Speed	r/min	900	900	800	850	
Outdoor air flow		m3/h	1900	2000	2500	3500	
Outdoor air flow		CFM	1120	1180	1470	2060	
Outdoor noise level		dB(A)	57	57	60	60	
Outdoor unit	Dimension(W*D*H)		mm	810x310x558	810x310x558	845x320x700	900x315x860
	Dimension(W*D*H)		inch	31.89x12.20x21.97	31.89x12.20x21.97	33.27x12.60x27.56	35.43x12.40x33.86
	Packing (W*D*H)		mm	930x400x615	930x400x615	965x395x755	1043x395x915
	Packing (W*D*H)		inch	36.61x15.75x24.21	36.61x15.75x24.21	37.99x15.55x29.72	41.06x15.55x36.02
	Net/Gross weight	Kg	37.4 / 40	37 / 39.8	46.5/50.5	59/63	
	Net/Gross weight	lbs.	82.3/88	81.4/87.6	102.51/111.33	130.07/138.89	
Refrigerant type		g	R410A/1250	R410A/1250	R410A/1900g	R410A/2430g	
Refrigerant type		oz	R410A/44.09	R410A/44.09	R410A/67.0	R410A/85.7	
Refrigerant precharge		ft	25	25	25	25	
Additional charge for each ft		oz	0.161	0.161	0.161	0.322	
Design pressure		PSIG	550/340PSIG	550/340PSIG	550/340 PSIG	550/340 PSIG	
Refrigerant piping	Liquid side/ Gas side		mm(inch)	Φ6.35/Φ9.52(1/4"/3/8")	Φ6.35/Φ9.52(1/4"/3/8")	Φ6.35/Φ12.7(1/4"/1/2")	Φ9.52/Φ15.9(3/8"/5/8")
	Max. refrigerant pipe length		m	25	25	30	30
	Max. refrigerant pipe length		ft	82	82	98	98
	Max. difference in level		m	10	10	20	20
	Max. difference in level		ft	33	33	66	66
Thermostat type			Remote Control	Remote Control	Remote Control	Remote Control	

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