

MDV

Air Conditioning Systems

CONCEALED DUCT

Inverter Series

High Efficiency

Up to **21.4** SEER

AHRI CERTIFIED™
www.ahridirectory.org

simple.
modern.
practical.

Concealed Duct

Residential & Light Commercial



Timeless ducted systems from **MDV**. No need to change your living room layout, our inverter systems will blend easily to your existing ceiling ducted paneling hardware, but with a welcome to added modern energy efficiency. Convenience, simple installation and a no-regrets ducted system from Midea!

Models MTIU-24HWFN1-M | MTI-36HWFN1-M | MTI-48HWFN1-M | MHG-60HWFN1-MW

Requires professional installation - R410A Refrigerant - 220v Applications - Up to 21.4 SEER
Consult your Air Conditioning professional for more details. See reverse for product information.

OLDACH
REFRIGERATION, AIR CONDITIONING & VENTILATION SUPPLIER



CONCEALED DUCT Specifications Sheet

Inverter Series

INDOOR MODEL		MTIU-24HWFN1-M	MTI-36HWFN1-M	MTI-48HW+F1:F41FN1-M	MHG-60HWFN1-MW	
INDOOR FAN MOTOR	Qty	1	1	1	1	
	INPUT	W	90	250	420.0	
	RLA	A	2	2	0	
	Speed	r/min	880/820/690	1130/2050/990	1020/800/600	1060/910/790
INDOOR AIR FLOW ((H/MED/ LO) (NO DUCT)		M3/H	1318.3/1178.2/739.3	1839/1551/1195	2088.3/1752.7/1214.9	3665/2906/2145
INDOOR AIR FLOW ((H/MED/ LO) (NO DUCT)		CFM	776-693-435	1082/913/703	1229/1032/715	2155.88/1709.41/1261.76
ESP	RANGE	Pa	0-160	0-160	0-160	0-200
	RANGE	in. WG.	0-0.64	0-0.64	0-0.64	/
INDOOR LEVEL NOISE		dB(A)	44/41/34	45.5/42/38.5	50.5/48.5/46	57/54/51
THROTTLE TYPE			/	/	/	/
INDOOR UNIT	DIMENSION (WxDxH)	mm	1100x774x249	1360x774x249	1200x874x300	1400x858x440
		inch	43x30x10	54x30x10	47.24x34.41x11.81	55.12x33.78x17.32
	PACKING (WxDxH)	mm	1305x805x305	1570x805x305	1405x915x355	1605x910x515
		inch	51x32x12	62x32x12	55.31x36.02x13.98	63.19x35.83x19.88
	NET/GROSS WEIGHT	kg	39.4/46.7	48.3/55.5	54.3/64.3	74/86
		lbs	87 / 103	106 / 122	54.3/64.3	163.14/189.60
Design pressure		PSIG	550/340 PSIG	550/340 PSIG	550/340 PSIG	550/340 PSIG
Drainage water pipe diameter		mm	ODΦ25	ODΦ25	ODΦ26	ODΦ25mm
Refrigerant piping	Liquid side/ Gas side	mm	Φ9.52/Φ15.9(3/8"/5/8")	Φ9.52/Φ15.9(3/8"/5/8")	Φ9.52/Φ15.9(3/8"/5/8")	9.52mm(3/8in)/19mm(3/4in)
Controller			Wired control	Wired control	Wired control	Wired control
Power supply	V,Hz,Ph		208-230-1-60	208-230-1-60	208-230,1,60	208/230V,1Ph, 60Hz
Max. fuse	A		25.0	50.0	50	0
Minimum circuit ampacity	A		15.0	35.0	35	0
Compressor	Type		ROTARY	ROTARY	ROTARY	ROTARY
	Capacity	Btu/h	24345	32380	44697	13100
	Input	W	1970	2600	3420	3420
	Rated current (RLA)	A	6.95	5.10	6.85	/
	Locked rotor Amp(LRA)	A	----	----	----	/
	Thermal protector position			EXTERNAL	EXTERNAL	INTERNAL
Refrigerant oil	ml		POE(VG74)/670	POE(VG74)/1000	Ester Oil VG74/1400	VG74/1400
OUTDOOR Model			MOD30-24HFN1-MT0W	MOD30U-36HFN1-M	MOE30U-48HFN1-M	MOE30U-60HFN1-M
Outdoor fan motor	SEER		21.50	16.50	17.4	18
	EER		12.50	9.00	9.2	10
	Qty		1	1	2	2
	Input	W	150	150	126	126.0
	RLA	A	0.6	1.0	1.2	0
	LRA	A	----	----	----	/
	Speed	r/min	810	950	900	900/800
Outdoor air flow (Max.)		m3/h	4000	4300	7600	7500
Outdoor air flow (Max.)		CFM	2354	2530	4470	4411.76
Outdoor noise level		dB(A)	59	64	63	64
Throttle type			Capillary +EXV	Capillary +EXV	Capillary +EXV	Capillary +EXV
Outdoor unit	Dimension (W×D×H)	mm	946x410x810	946x410x810	952x415x1333	952x415x1333
		inch	37.24x16.14x31.89	37.24x16.14x31.89	37.48x16.34x52.48	37.48x16.34x52.48
	Packing (W×D×H)	mm	1090x500x875	1090x500x875	1095x495x1480	1095x495x1480
		inch	42.91x19.69x34.45	42.91x19.69x34.45	43.11x19.49x58.27	43.11x19.49x58.27
	Net/ Gross weight	kg	64/69	67.4/73	101/115	102.1/115.4
lbs.		141.09/152.12	148.59/160.94	222.66/253.53	225.09/254.41	
Refrigerant type/Quantity	Type/Charged volume	Oz	R410A/82.9	R410A/108	R410A/148	R410A/163
Refrigerant precharge		ft	25	25	25	30
Additional charge for each ft		oz	0.32	0.32	0.32	0.32
Design pressure		PSIG	550/340	550/340	550/340	550/340
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ9.52/Φ15.9(3/8"/5/8")	Φ9.52/Φ15.9(3/8"/5/8")	Φ9.52/Φ15.9(3/8"/5/8")	9.52mm(3/8in)/19mm(3/4in)
		m	50	65	65	65
	Max. pipe length	ft	164	213	213	213.25
		m	25	30	30	30
Max. difference in level	ft	82	98	98	98.42	
	m	25	30	30	30	
Ambient temperature	Cooling	°C	-25~50	-15~50	-15~50	-15~50
		°F	-13~122	5~122	5~122	5~122
	Heating	°C	-25~30	-15~30	-15~30	-15~30
		°F	-13~86	5~86	5~86	5~86
Qty/per 20' /40' /40'HQ		Outdoor	44/96/144	44/96/144	22/46/46	22/48/48

Notes:

1) Capacities are based on the following conditions:

Cooling(T1):

Indoor Temperature 26.7°C(80°F) DB/19.4°C (64°F) WB
 Outdoor Temperature 35°C(95°F) DB/23.9°C (75°F) WB
 Interconnecting Piping Length 7.5 m(24.6ft)
 Level Difference of Zero

Heating:

Indoor Temperature 21.1°C(70°F) DB/±15.6°C (±60°F) WB
 Outdoor Temperature 8.3°C(47°F) DB/6.1°C (43°F) WB
 Interconnecting Piping Length 7.5 m(24.6ft)
 Level Difference of Zero



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2) Capacities are net capacities

3) Due to our policy of innovation some specifications may be changed without notification