

2. General Specifications

Indoor model			MTIU-12HWFNX-QRD0W(GA)	MTIU-18HWFNX-QRD0W(GA)	MTI-24HWFNX-QRD0W(GA)
Outdoor model			MOX230-12HFN1-QRD0W(GA)	MOX330U-18HFN1-QRD0W(GA)	MOX431U-24HFN1-QRD0W(GA)
Power supply (Indoor)		V- Ph-Hz	220~240-1-50	220~240-1-50	220~240-1-50
Power Supply (Outdoor)		V-Ph-Hz	220~240-1-50	220~240-1-50	220~240-1-50
Rated Power Input		W	2100	2950	3700
Rated Current		A	9.1	13.5	19
Indoor fan motor	Model		ZKFN-55-8-22-1	ZKFN-160-8-1-2	ZKFN-160-8-1-2
	Qty		1	1	1
	Insulation class		B	B	B
	IP rating		IP20	IP40	IP40
	Output	W	55	160	160
	Capacitor	uF	-	/	/
	Speed(Hi/Mi/Lo)	r/min	1256/384	1650/1300/1000	1200/-
Indoor coil	Number of rows		3	3	3
	Tube pitch(a)x row pitch(b)	mm	21x13.37	21x13.37	21x13.37
	Fin spacing	mm	1.4	1.4	1.4
	Fin type (code)		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	Tube outside dia.and type	mm	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube
	Coil length x height x width	mm	526x210x40.11	695x252x40.11	915x294x40.11
	Number of circuits		4	4	7
Indoor air flow (Hi/Mi/Lo)		m3/h	600/480/300	911/706.3/515.2	1229/1035/825.1
ESP	Rated	Pa	25	25	25
	Range	Pa	0-60	0-100	0-160
Indoor sound pressure level		dB(A)	38/34/25	41/38/34	41/39/37
Indoor sound power level		dB(A)	52	60	58
Indoor unit	Dimension(W*D*H)	mm	700x506x200	880x674x210	1100x774x249
	Packing (W*D*H)	mm	860x540x285	1070x725x280	1305x805x315
	Net/Gross weight	Kg	17.8/21.5	24.4/29.6	32.3/39.1
Drainage water pipe diameter		mm	ODΦ25mm	ODΦ25mm	ODΦ25mm
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ6.35/Φ9.52(1/4"/3/8")	Φ6.35/Φ12.7(1/4"/1/2")	Φ9.52/Φ15.9(3/8"/5/8")
Controller			Wired control	Wired control	Wired control
Operation temperature		°C	17-30	17-30	17-30
Room temperature	Cooling	°C	17~32	17~32	17~32
	Heating	°C	0~30	0~30	0~30
Qty/per 20' /40' /40'HQ		Indoor unit	214/461/519	120/264/297	77/161/198
Compressor	Model		KSN98D64UFZ3	KSN140D21UFZ	KTM240D57UMT
	Type		ROTARY	ROTARY	Twin-ROTARY
	Brand		GMCC	GMCC	GMCC
	Capacity	W	1930/3100 ±3%	4385	7740
	Input	W	292/765 ±3%	1140	2085
	Rated current(RLA)	A	2.15/4.65 ±3%	7.50	9.45
	Refrigerant oil/oil charge	ml	ESTER OIL VG74 300±10	ESTER OIL VG74 440	ESTER OIL VG74 670
Outdoor fan motor	Model		ZKFN-34-10-1-3	ZKFN-34-10-1-3	ZKFN-80-8-3
	Qty		1	1	1
	Insulation class		B	B	E
	IP rating		IP24	IP24	IPX4
	Output	W	34	34	80
	Capacitor	uF	/	/	/
	Speed	r/min	780/600	760/650	800/580

Outdoor coil	Number of rows		1	2.0	2
	Tube pitch(a)x row pitch(b)	mm	21x22	21x22	21x13.37
	Fin spacing	mm	1.3	1.3	1.3
	Fin type (code)		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	Tube outside dia.and type	mm	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube
	Coil length x height x width	mm	745*504*22	860*504*44	900*609*22+865*609*22
	Number of circuits		2	4	6
Outdoor air flow		m3/h	2200	2100	3500
Outdoor sound pressure level		dB(A)	56	55	60
Outdoor sound power level		dB(A)	64	65	70
Throttle type			EXV	EXV	EXV+Throttle valve
Outdoor unit	Dimension(W*D*H)	mm	765x303x555	805x330x554	890x342x673
	Packing (W*D*H)	mm	887x337x610	915x370x615	995x398x740
	Net/Gross weight	Kg	26.9/29.2	33.6/36.2	45.1/48.3
Refrigerant type	Type	-	R410A	R410A	R410A
	GWP	-	2088	2088	2088
	Charged quantity	Kg	1.05	1.55	1.8
Design pressure		MPa	4,2/1,5	4,2/1,5	4,2/1,5
Refrigerant piping	Liquid side/ Gas side	mm(inch)	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	30	50
	Max. difference in level	m	10	20	25
Ambient temperature	Cooling	°C	-15~50	-15~50	-15~50
	Heating	°C	-15~24	-15~24	-15~24
Qty/per 20' /40' /40'HQ		Outdoor unit	132/264/352	114/234/312	99/198/198

Notes:

1) Capacities are based on the following conditions:

Cooling(T1): - Indoor Temperature 27°C(80.6°F) DB /19 °C(66.2°F) WB

-Outdoor Temperature 35 °C(95°F) DB /24 °C(75.2°F) WB

-Interconnecting Piping Length 5m

- Level Difference of Zero.

Heating: - Indoor Temperature 20°C(68°F) DB / 15°C(59°F) WB

-Outdoor Temperature 7°C(44.6°F) DB / 6°C(42.8°F) WB

- Interconnecting Piping Length 5 m

- Level Difference of Zero.

2) Capacities are Net Capacities.

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

Indoor model			MTI-36HWFNX-QRD0W(GA)	MTI-55HWFNX-QRD0W(GA)
Outdoor model			MOD30U-36HFN1-QRD0W(GA)	MOE30U-55HFN1-RRD0W(GA)
Power supply (Indoor)		V- Ph-Hz	220~240-1-50	220~240-1-50
Power Supply (Outdoor)		V-Ph-Hz	220~240-1-50	380~415-3-50
Rated Power Input		W	5000	7500
Rated Current		A	22.5	14
Indoor fan motor	Model		ZKFN-300-8-1	ZKFN-560-8-1-1
	Qty		1	1
	Insulation class		E	E
	IP rating		IPX0	IPX0
	Output	W	300	560.0
	Capacitor	uF	/	/
	Speed(Hi/Mi/Lo)	r/min	1100/1000/900	1060/970/905
Indoor coil	Number of rows		4	4.0
	Tube pitch(a)x row pitch(b)	mm	21x13.37	21x13.37
	Fin spacing	mm	1.4	1.5
	Fin type (code)		Hydrophilic aluminum	Hydrophilic aluminum
	Tube outside dia.and type	mm	Φ7,Inner groove tube	Φ7,Inner groove tube
	Coil length x height x width	mm	1175x294x53.48	1030x378x53.48
	Number of circuits		7	8
Indoor air flow (Hi/Mi/Lo)		m3/h	2100/1800/1500	2600/2210/1820
ESP	Rated	Pa	37	50
	Range	Pa	0-160	0-160
Indoor sound pressure level		dB(A)	44/42/39	53/51/48
Indoor sound power level		dB(A)	64	68
Indoor unit	Dimension(W*D*H)	mm	1360x774x249	1200x874x300
	Packing (W*D*H)	mm	1570x805x330	1405x915x365
	Net/Gross weight	Kg	40.5/48.2	47.4/56.1
Drainage water pipe diameter		mm	ODΦ25mm	ODΦ25mm
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ9.52/Φ15.9(3/8"/5/8")	Φ9.52/Φ15.9(3/8"/5/8")
Controller			Wired control	Wired control
Operation temperature		°C	17~30	17~30
Room temperature	Cooling	°C	17~32	17~32
	Heating	°C	0~30	0~30
Qty/per 20' /40' /40'HQ		Indoor unit	49/105/120	62/130/149
Compressor	Model		KTF310D43UMT	KTQ420D1UMU
	Type		ROTARY	ROTARY
	Brand		GMCC	GMCC
	Capacity	W	10010	13700
	Input	W	2765	3700
	Rated current(RLA)	A	5.38	7.02
	Thermal protector		INT01L-4639	INT01L-4639
	Thermal protector position		EXTERNAL	EXTERNAL
	Refrigerant oil/oil charge	ml	VG74/1000	VG74/1400
Outdoor fan motor	Model		ZKFN-120-8-2	ZKFN-85-8-22-5
	Qty		1	2
	Insulation class		E	E
	IP rating		IPX4	IPX4
	Output	W	120	85
	Capacitor	uF	/	/
	Speed	r/min	950/850/700	830/650

Outdoor coil	Number of rows		2	2
	Tube pitch(a)x row pitch(b)	mm	25.4x22	25.4x22
	Fin spacing	mm	1.3	1.4
	Fin type (code)		Hydrophilic aluminum	Hydrophilic aluminum
	Tube outside dia.and type	mm	Φ9.52,Inner groove tube	Φ9.52,Inner groove tube
	Coil length x height x width	mm	995x762x44	990x1270x44
	Number of circuits		4	8
Outdoor air flow		m ³ /h	4000	7500
Outdoor sound pressure level		dB(A)	64	64
Outdoor sound power level		dB(A)	70	75
Throttle type			EXV+Throttle valve	EXV+Throttle valve
Outdoor unit	Dimension(W*D*H)	mm	946x410x810	952x415x1333
	Packing (W*D*H)	mm	1090x500x885	1095x495x1480
	Net/Gross weight	Kg	67.6/72.1	109.9/123.5
Refrigerant type	Type	-	R410A	R410A
	GWP	-	2088	2088
	Charged quantity	Kg	3.2	4.7
Design pressure		MPa	4.2/1.5	4.2/1.5
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ9.52/Φ15.9(3/8"/5/8")	Φ9.52/Φ15.9(3/8"/5/8")
	Max. refrigerant pipe length	m	75	75
	Max. difference in level	m	30	30
Ambient temperature	Cooling	°C	-15~50	-15~50
	Heating	°C	-15~24	-15~24
Qty/per 20' /40' /40'HQ		Outdoor unit	44/96/138	22/48/48

Notes:

1) Capacities are based on the following conditions:

Cooling(T1): - Indoor Temperature 27°C(80.6°F) DB /19 °C(66.2°F) WB Heating: - Indoor Temperature 20°C(68°F) DB / 15°C(59°F) WB

-Outdoor Temperature 35 °C(95°F) DB /24 °C(75.2°F) WB

-Outdoor Temperature 7°C(44.6°F) DB / 6°C(42.8°F) WB

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