

Midea AC Fan Coil Unit
2nd generation Two Pipe Ceiling&Floor Series
Technical Service Manual

1. Features

✚ Flexible for installation, designed for horizontal/vertical, concealed/cabinet application

Ceiling Installation



Floor Installation



Concealed Installation



✚ Meet CE certification requirements

The unit can meet the latest CE certification requirements for using AC fan motor.



2. External Appearance

Cased Type (H1 Series)
Optional



Cased Type (H2 Series)
Standard



Uncased Type (H3 Series)
Optional

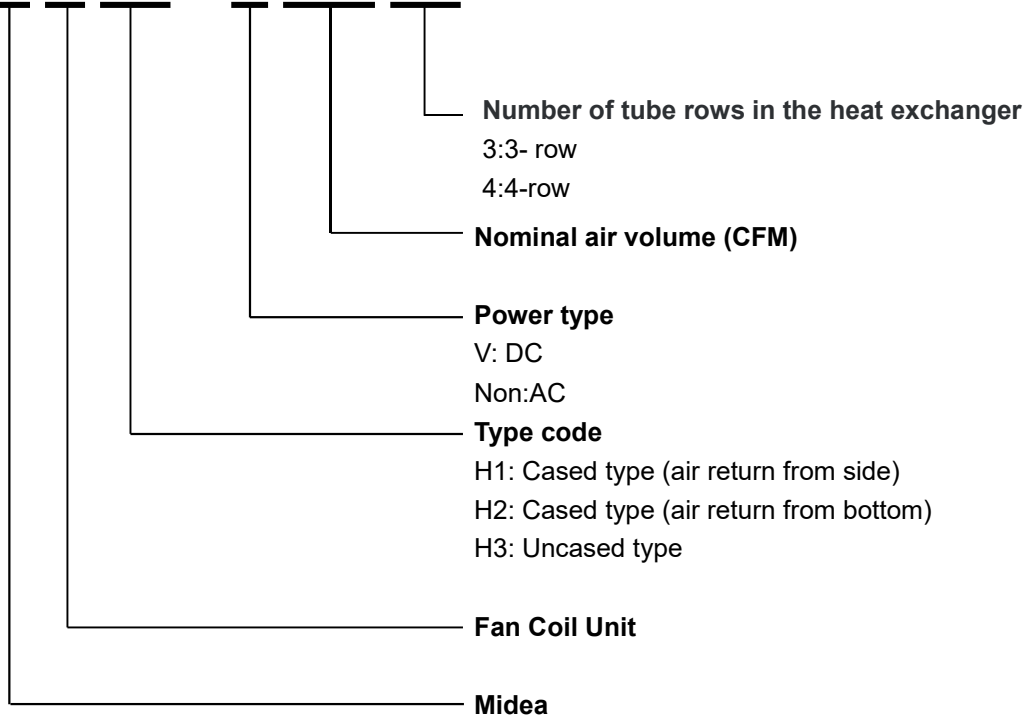


3. Products Lineup

Model	Air volume (CFM)	External static pressure	Power supply
MKH1/2/3-150R3 MKH1/2/3-150R4	150	MKH1/2- models: 0Pa. MKH3- models: 12Pa.	220~240V-1Ph-50Hz 220~240V-1Ph-60Hz
MKH1/2/3-250R3 MKH1/2/3-250R4	250		
MKH1/2/3-350R3 MKH1/2/3-350R4	350		
MKH1/2/3-500R3 MKH1/2/3-500R4	500		
MKH1/2/3-700R3 MKH1/2/3-700R4	700		
MKH1/2/3-800R3 MKH1/2/3-800R4	800		

4. Nomenclature

M K H2 – V 150 R3



Midea AC Fan Coil Unit



Model		MKH2-150-R3	MKH2-150-R4	MKH2-250-R3	MKH2-250-R4	
Power supply		V/Ph/Hz	220-240/1/50			
Air flow (H/M/L)		m ³ /h	255/165/142	255/192/139	400/273/180	425/284/184
		CFM	150/97/84	150/113/82	235/161/106	250/167/109
External static pressure		Pa	0			
Cooling	Sensible Capacity(H/M/L)	kW	1.25/0.88/0.78	1.65/1.35/1.00	2.05/1.50/1.02	2.23/1.61/1.08
	Total Capacity (H/M/L)	kW	1.65/1.22/1.09	2.25/1.85/1.40	2.65/2.02/1.40	3.05/2.26/1.58
	Water flow rate (H/M/L)	L/h	283/209/186	386/317/241	454/346/240	523/387/272
	Water pressure drop (H/M/L)	kPa	15.75/9.33/7.37	33.19/22.37/14.64	18.03/11.18/5.48	26.71/15.66/8.42
Heating	Capacity (H/M/L)	kW	1.85/1.29/1.13	2.35/1.87/1.42	3.05/2.24/1.52	3.15/2.28/1.60
	Water flow rate (H/M/L)	L/h	317/222/194	403/320/244	523/384/260	540/392/275
	Water pressure drop (H/M/L)	kPa	15.13/8.22/6.64	33.19/22.37/14.64	17.56/10.28/5.43	23.31/12.57/6.11
Power input (H/M/L)		W	35/17/14	40/24/15	47/26/14	47/26/14
Rated current		A	0.15/0.07/0.06	0.17/0.10/0.07	0.20/0.11/0.06	0.20/0.11/0.06
Sound pressure level	(H/M/L)	dB(A)	35/24/21	42/35/27	34/24/18	34/25/19
Sound power level	(H/M/L)	dB(A)	47/35/34	53/47/39	46/37/31	47/38/32
Fan motor	Type	AC fan motor				
	Quantity	1	1	1	1	
Fan	Type	Centrifugal, forward-curved Blades				
	Quantity	1	1	2	2	
Coil	Row		3	4	3	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7.94	Φ7.94	Φ7.94	Φ7.94
Body	Net dimensions (W×D×H)	mm	495×200×790	495×200×790	495×200×1020	495×200×1020
	Packing size (W×D×H)	mm	595×300×895	595×300×895	595×300×1125	595×300×1125
	Net weight	kg	16.3	16.7	20.0	20.8
	Gross weight	kg	21.8	22.7	26.8	26.8
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5

Notes:

1. H: High fan speed; M: Medium fan speed; L: Low fan speed.
2. Cooling conditions: Entering water 7℃, leaving water 12℃, Entering air temperature 27℃ DB/19℃ WB.
3. Heating conditions: Entering water 45℃, leaving water 40℃, Entering air temperature 20℃ DB/15℃ WB.
4. Sound power level is tested in a reverberation chamber.
5. Sound pressure level is tested in a semi-anechoic room.

Model		MKH2-350-R3	MKH2-350-R4	MKH2-500-R3	MKH2-500-R4	
Power supply		V/Ph/Hz	220-240/1/50			
Air flow (H/M/L)		m ³ /h	595/447/319	595/450/319	790/560/392	800/574/404
		CFM	350/263/188	350/265/188	465/330/231	471/338/238
External static pressure		Pa	0			
Cooling	Sensible Capacity(H/M/L)	kW	2.91/2.36/1.77	3.05/2.43/1.73	3.58/2.85/2.09	3.96/3.08/2.34
	Total Capacity (H/M/L)	kW	3.85/3.19/2.46	4.20/3.38/2.48	4.65/3.80/2.92	5.35/4.25/3.31
	Water flow rate (H/M/L)	L/h	660/546/422	720/580/425	797/652/500	917/729/567
	Water pressure drop (H/M/L)	kPa	38.23/27.11/16.96	41.15/27.07/15.71	56.85/40.02/25.31	61.48/41.44/26.62
Heating	Capacity (H/M/L)	kW	4.10/3.30/2.48	4.30/3.43/2.52	5.20/3.95/3.00	5.70/4.36/3.31
	Water flow rate (H/M/L)	L/h	705/568/427	740/590/433	894/679/516	977/747/569
	Water pressure drop (H/M/L)	kPa	35.52/24.83/14.91	37.20/24.50/13.75	56.68/37.31/23.25	60.89/37.73/21.79
Power input (H/M/L)		W	51/32/19	51/32/19	91/54/34	91/54/35
Rated current		A	0.22/0.14/0.08	0.22/0.14/0.08	0.40/0.24/0.15	0.40/0.24/0.15
Sound pressure level	(H/M/L)	dB(A)	39/32/23	40/35/31	48/39/31	47/40/31
Sound power level	(H/M/L)	dB(A)	52/44/36	52/45/37	59/51/43	59/51/43
Fan motor	Type	AC fan motor				
	Quantity	1	1	1	1	
Fan	Type	Centrifugal, forward-curved Blades				
	Quantity	2	2	2	2	
Coil	Row		3	4	3	4
	Max. working pressure	MPa	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7.94	Φ7.94	Φ7.94	Φ7.94
Body	Net dimensions (W×D×H)	mm	495×200×1240	495×200×1240	495×200×1240	495×200×1240
	Packing size (W×D×H)	mm	595×300×1345	595×300×1345	595×300×1345	595×300×1345
	Net weight	kg	24.0	25.4	25.5	26.3
	Gross weight	kg	31.0	32.4	32.0	33.4
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5

Notes:

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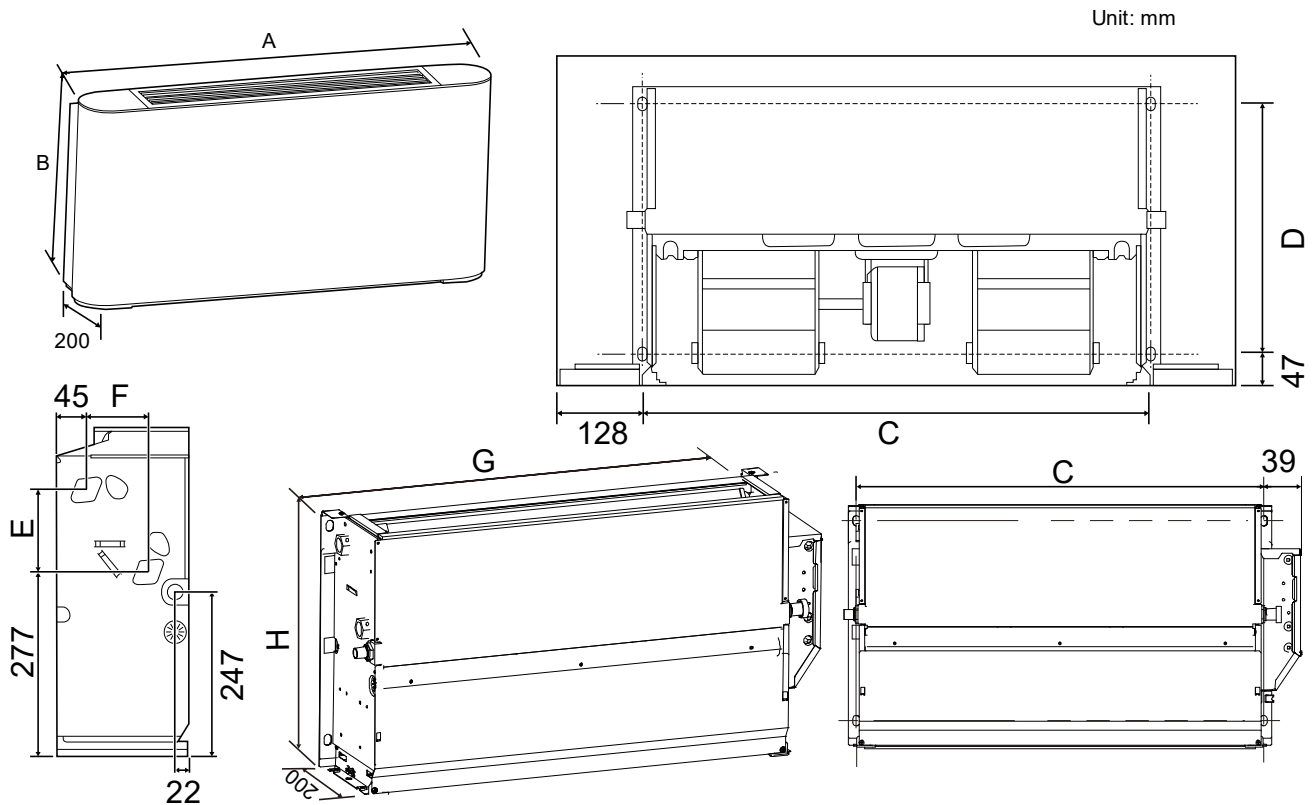


Model		MKH2-700-R3	MKH2-700-R4	MKH2-800-R3	MKH2-800-R4	
Power supply		V/Ph/Hz	220-240/1/50			
Air flow (H/M/L)		m ³ /h	1190/855/555	1150/885/591	1300/1088/782	1300/1132/836
		CFM	700/503/327	677/521/348	766/641/461	766/667/492
External static pressure		Pa	0			
Cooling	Sensible Capacity(H/M/L)	kW	4.83/3.99/2.85	5.09/4.36/3.12	5.63/4.92/3.83	6.08/5.53/4.21
	Total Capacity (H/M/L)	kW	6.00/5.03/3.71	6.75/5.80/4.24	7.35/6.51/5.15	8.25/7.52/5.87
	Water flow rate (H/M/L)	L/h	1029/862/636	1157/995/727	1260/1116/884	1414/1289/1007
	Water pressure drop (H/M/L)	kPa	53.79/36.96/21.16	40.26/29.20/16.15	45.43/37.06/23.29	64.72/55.03/34.88
Heating	Capacity (H/M/L)	kW	6.15/5.10/3.80	7.15/5.81/4.30	8.20/7.09/5.46	8.50/7.60/5.90
	Water flow rate (H/M/L)	L/h	1054/877/654	1226/996/740	1406/1216/937	1457/1302/1015
	Water pressure drop (H/M/L)	kPa	57.85/38.53/21.1	42.16/28.68/14.66	44.60/34.09/19.98	61.96/47.46/28.84
Power input (H/M/L)		W	123/98/68	110/89/64	123/109/83	118/104/82
Rated current		A	0.53/0.42/0.30	0.48/0.39/0.28	0.53/0.47/0.36	0.51/0.45/0.36
Sound pressure level	(H/M/L)	dB(A)	50/43/33	50/44/33	51/46/36	50/45/37
Sound power level	(H/M/L)	dB(A)	64/56/45	62/56/46	63/58/50	63/58/50
Fan motor	Type	AC fan motor				
	Quantity	1	1	1	1	
Fan	Type	Centrifugal, forward-curved Blades				
	Quantity	3	3	3	3	
Coil	Row	3	4	3	4	
	Max. working pressure	MPa	1.6	1.6	1.6	1.6
	Diameter	mm	Φ7.94	Φ7.94	Φ7.94	Φ7.94
Body	Net dimensions (W×D×H)	mm	495×200×1360	495×200×1360	591×200×1360	591×200×1360
	Packing size (W×D×H)	mm	595×300×1465	595×300×1465	695×300×1465	695×300×1465
	Net weight	kg	27.3	28.5	31.7	34.0
	Gross weight	kg	34.8	36.0	40.2	42.0
Water inlet/outlet pipe		inch	G3/4	G3/4	G3/4	G3/4
Drain pipe		mm	ODΦ18.5	ODΦ18.5	ODΦ18.5	ODΦ18.5

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6. Dimensions



Dimensions (unit: mm)

Model(MKH1/2)	150	250	350	500	700	800
A	790	1020	1240	1240	1360	1360
B	495	495	495	495	495	591
C	534	764	984	984	1104	1104
D	375	375	375	375	375	391
E	123	123	123	123	123	219
F	93	93	93	93	93	102
G	628	858	1078	1078	1198	1198
H	455	455	455	455	455	551

Model(MKH3)	150	250	350	500	700	800
C	534	764	984	984	1104	1104
D	375	375	375	375	375	391
E	123	123	123	123	123	219
F	93	93	93	93	93	102
G	628	858	1078	1078	1198	1198
H	455	455	455	455	455	551