

High Wall Type

MMK-UP0071HP-AE

MMK-UP0091HP-AE

MMK-UP0121HP-AE

MMK-UP0151HP-AE

MMK-UP0181HP-AE

MMK-UP0241HP-AE

MMK-UP0271HP-AE

MMK-UP0301HP-AE

MMK-UP0361HP-AE



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1. Specification

Model name			MMK-UP0071HP-AE	MMK-UP0091HP-AE	MMK-UP0121HP-AE
Cooling Capacity		(kW)	2.20	2.80	3.60
		(Btu/h)	7500	9600	12300
Heating Capacity		(kW)	2.50	3.20	4.00
		(Btu/h)	8600	11000	13700
Electrical characteristics	Power supply		1Ph. 220V ~, 50Hz		
	Running current (A)		0.16	0.17	0.18
	Power consumption (kW)		0.015	0.016	0.017
	Starting current (A)		0.20	0.21	0.22
Appearance	Main unit		Gran White		
Outer dimension	Main unit	Height (mm)	293	293	293
		Width (mm)	798	798	798
		Depth (mm)	230	230	230
Total weight	Main unit (kg)		11	11	11
Heat exchanger			Finned tube		
Fan unit	Fan		Cross flow fan		
	Standard air flow	H/M/L (m³/hr)	480/385/270	510/395/270	540/410/270
	Motor (W)		30	30	30
Air filter			Standard filter attached (Long life filter)		
Controller			WH-TD03NE		
Sound pressure level	H/M/L	(dBA)	35/30/25	36/31/25	37/32/25
Sound power level	H/M/L	(dBA)	50/45/40	51/46/40	52/47/40
Connecting pipe	Gas side	(mm)	9.52	9.52	9.52
	Liquid	(mm)	6.35	6.35	6.35
	Drain port	(mm)	-		

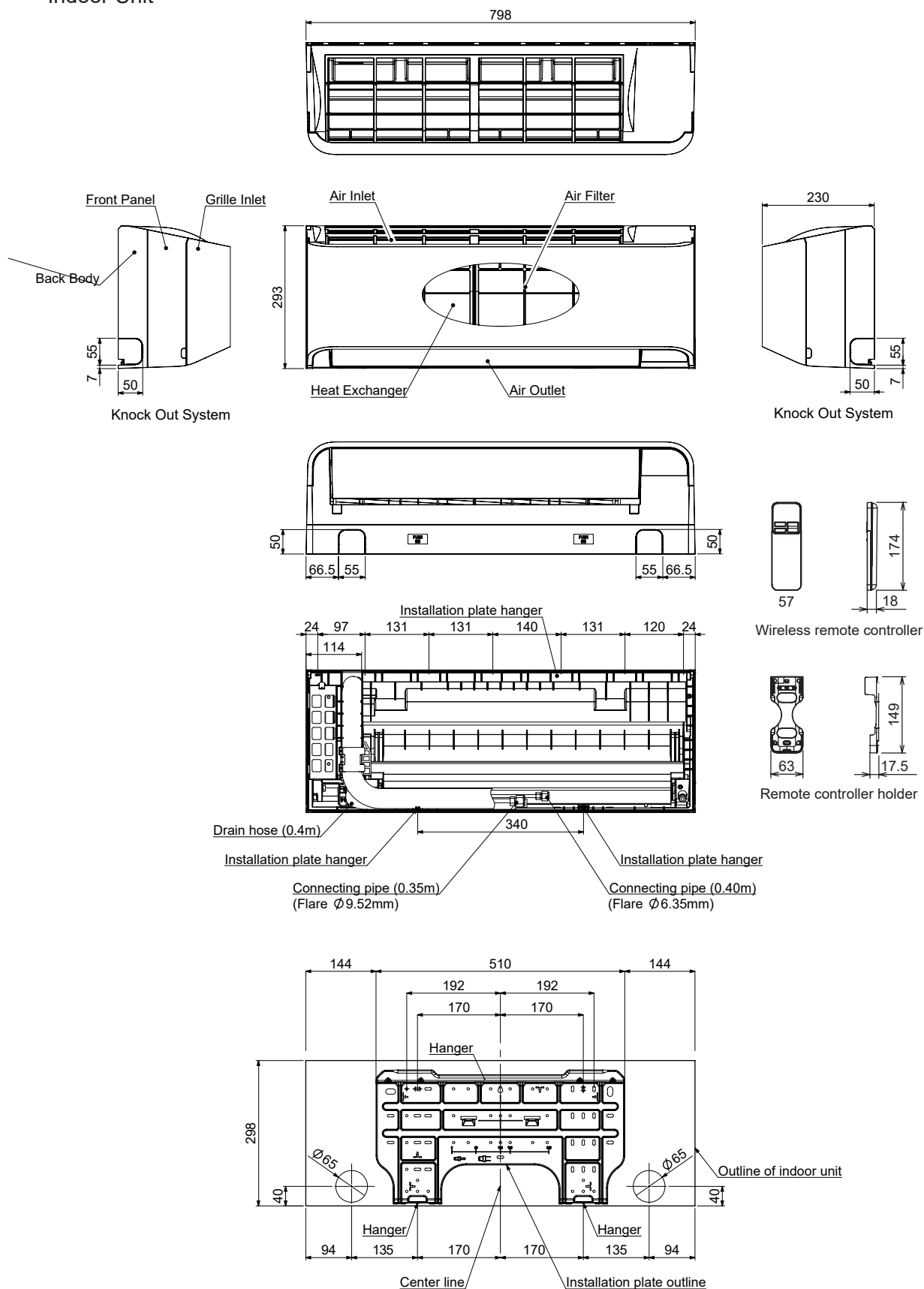
Model name			MMK-UP0151HP-AE	MMK-UP0181HP-AE	MMK-UP0241HP-AE	
Cooling Capacity			(kW)	4.50	5.60	7.10
			(Btu/h)	15300	19100	24200
Heating Capacity			(kW)	5.00	6.30	8.00
			(Btu/h)	17000	21500	27300
Electrical characteristics	Power supply		1Ph. 220V ~ , 50Hz			
	Running current		(A)	0.26	0.29	0.42
	Power consumption		(kW)	0.028	0.032	0.050
	Starting current		(A)	0.35	0.38	0.50
Appearance	Main unit		Gran White			
Outer dimension	Main unit	Height	(mm)	320	320	320
		Width	(mm)	1050	1050	1050
		Depth	(mm)	250	250	250
Total weight	Main unit		(kg)	16	16	16
Heat exchanger			Finned tube			
Fan unit	Fan		Cross flow fan			
	Standard air flow	H/M/L	(m³/hr)	840/690/550	900/720/550	1200/900/600
	Motor		(W)	30	30	30
Air filter			Standard filter attached (Long life filter)			
Controller			WH-TD03NE			
Sound pressure level	H/M/L	(dBA)	40/36/32	41/37/32	45/39/33	
Sound power level	H/M/L	(dBA)	55/51/47	56/52/47	60/54/48	
Connecting pipe	Gas side		(mm)	12.70	12.70	15.88
	Liquid		(mm)	6.35	6.35	9.53
	Drain port		(mm)	-		

Model name			MMK-UP0271HP-AE	MMK-UP0301HP-AE	MMK-UP0361HP-AE
Cooling Capacity		(kW)	8.00	9.00	11.20
		(Btu/h)	27300	30710	38200
Heating Capacity		(kW)	9.00	10.00	12.50
		(Btu/h)	30710	34120	42700
Electrical characteristics	Power supply		1Ph. 220V ~ , 50Hz		
	Running current (A)		0.30	0.46	0.56
	Power consumption (kW)		0.034	0.054	0.066
	Starting current (A)		0.34	0.50	0.60
Appearance	Main unit		Gran White		
Outer dimension	Main unit	Height (mm)	348	348	348
		Width (mm)	1200	1200	1200
		Depth (mm)	280	280	280
Total weight	Main unit (kg)		21	21	21
Heat exchanger			Finned tube		
Fan unit	Fan		Cross flow fan		
	Standard air flow	H/M/L (m³/hr)	1200/1000/800	1500/1300/1100	1650/1350/1250
	Motor (W)		61	61	61
Air filter			Standard filter attached (Long life filter)		
Controller			WH-TD03NE		
Sound pressure level	H/M/L	(dBA)	44/41/39	48/44/41	50/45/43
Sound power level	H/M/L	(dBA)	59/56/54	63/59/56	65/60/58
Connecting pipe	Gas side	(mm)	15.88	15.88	15.88
	Liquid	(mm)	9.52	9.52	9.52
	Drain port	(mm)	-		

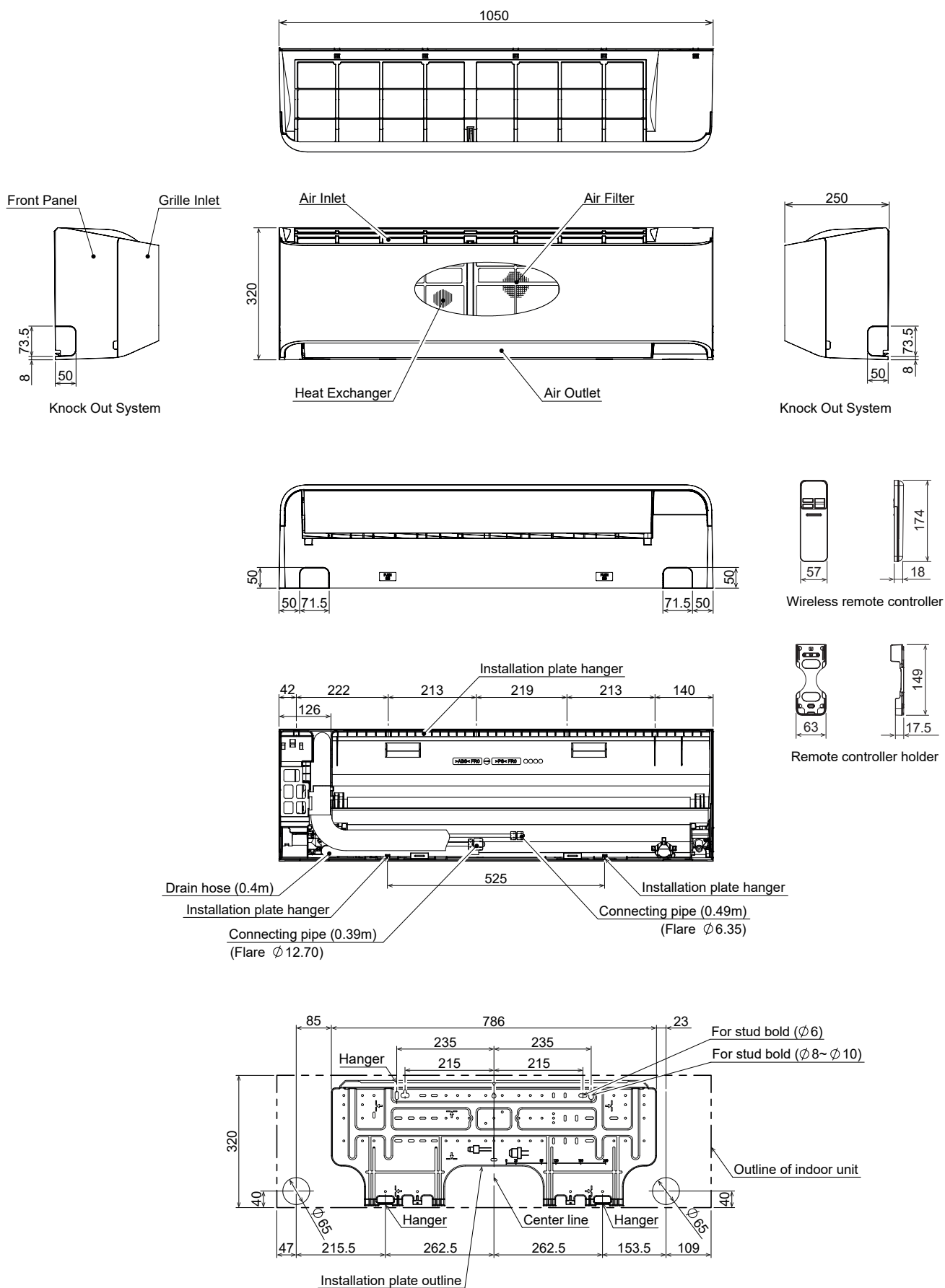
2. Dimension

MMK-UP0071HP-AE, MMK-UP0091HP-AE, MMK-UP0121HP-AE

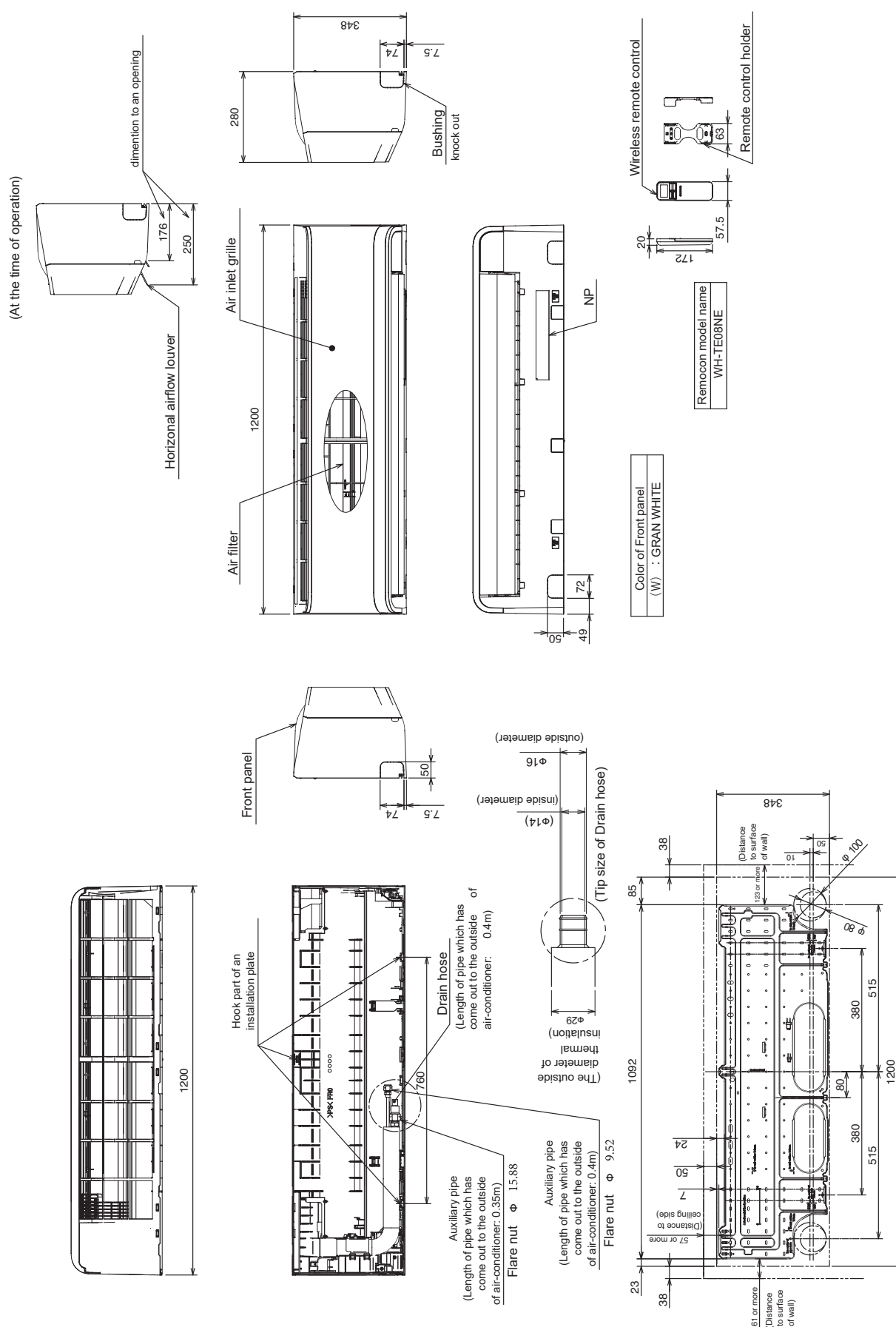
Indoor Unit



MMK-UP0151HP-AE, MMK-UP0181HP-AE, MMK-UP0241HP-AE

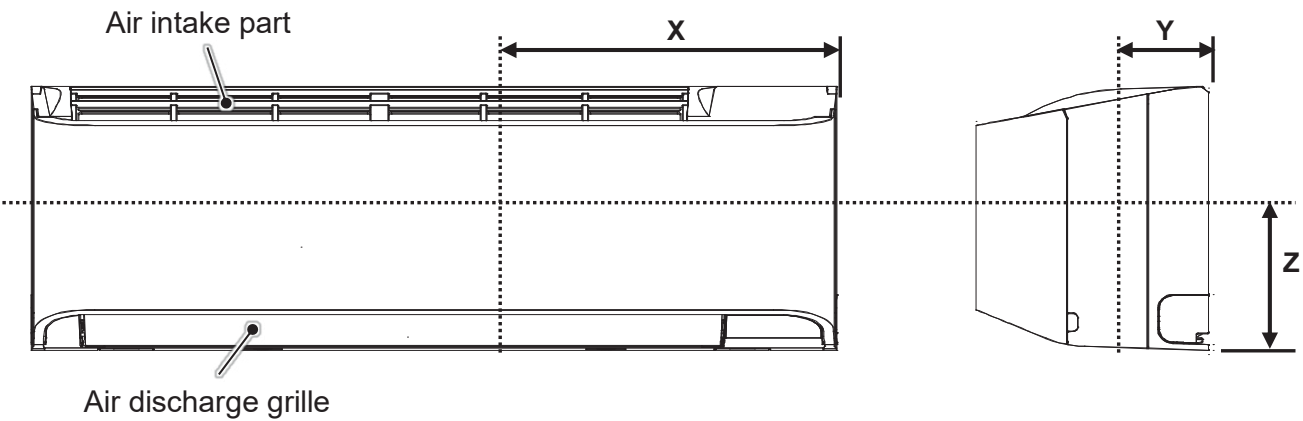


MMK-UP0271HP-AE, MMK-UP0301HP-AE, MMK-UP0361HP-AE

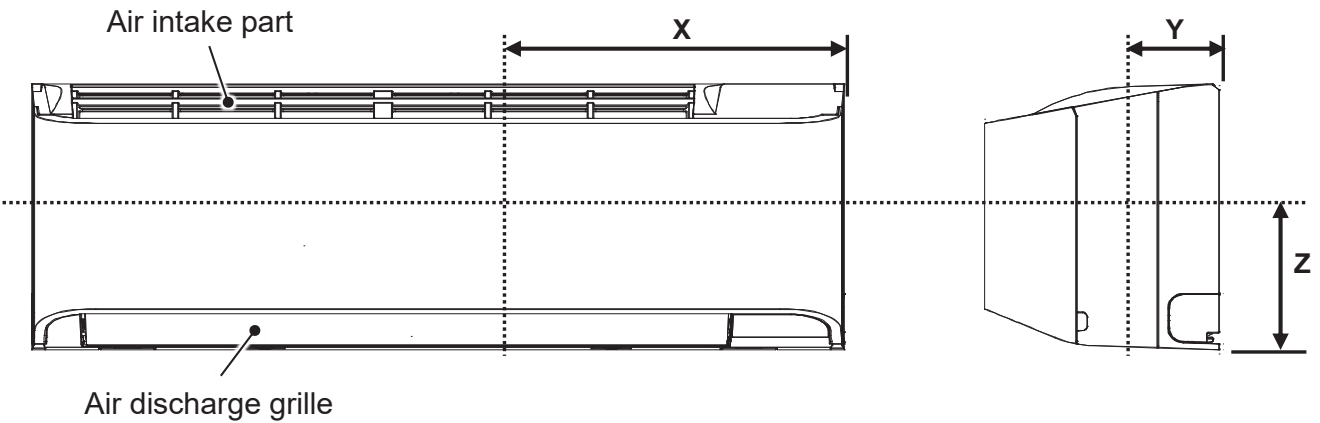


3. Center of gravity

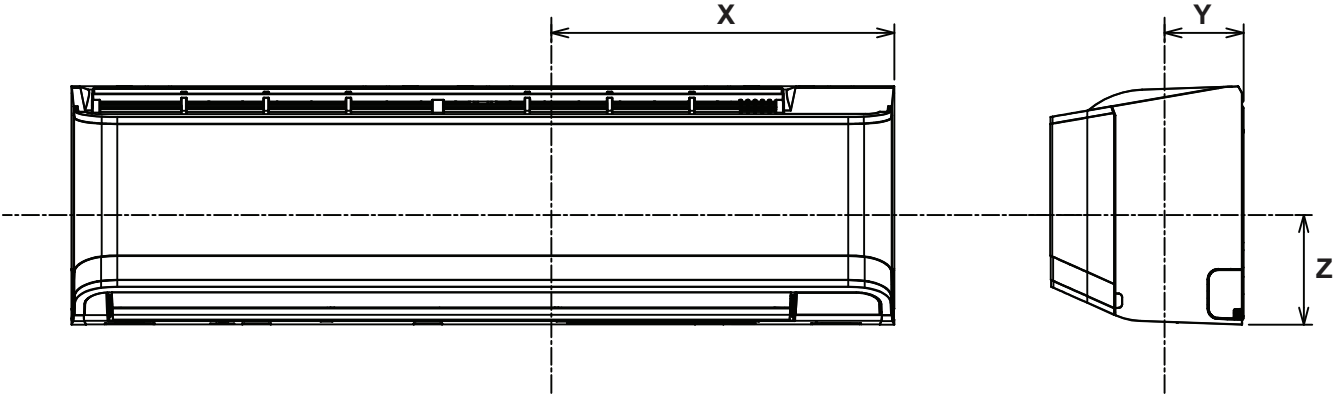
Model name	X (mm)	Y (mm)	Z (mm)	Total weight (kg)
MMK-UP0071HP-AE	335	110	150	11
MMK-UP0091HP-AE				
MMK-UP0121HP-AE				



Model name	X (mm)	Y (mm)	Z (mm)	Total weight (kg)
MMK-UP0151HP-AE	425	120	125	16
MMK-UP0181HP-AE				
MMK-UP0241HP-AE				

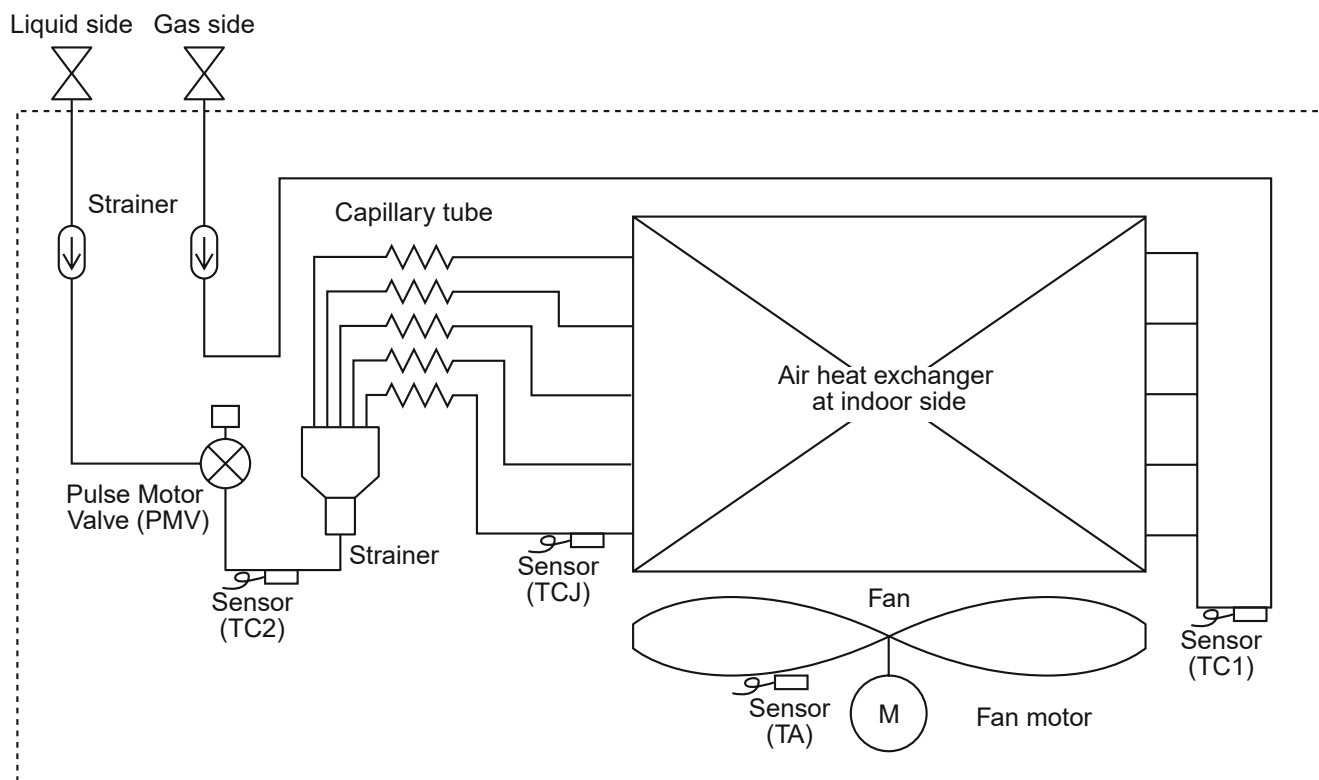


Model name	X (mm)	Y (mm)	Z (mm)	Total weight (kg)
MMK-UP0271HP-AE	500	115	160	21
MMK-UP0301HP-AE				
MMK-UP0361HP-AE				



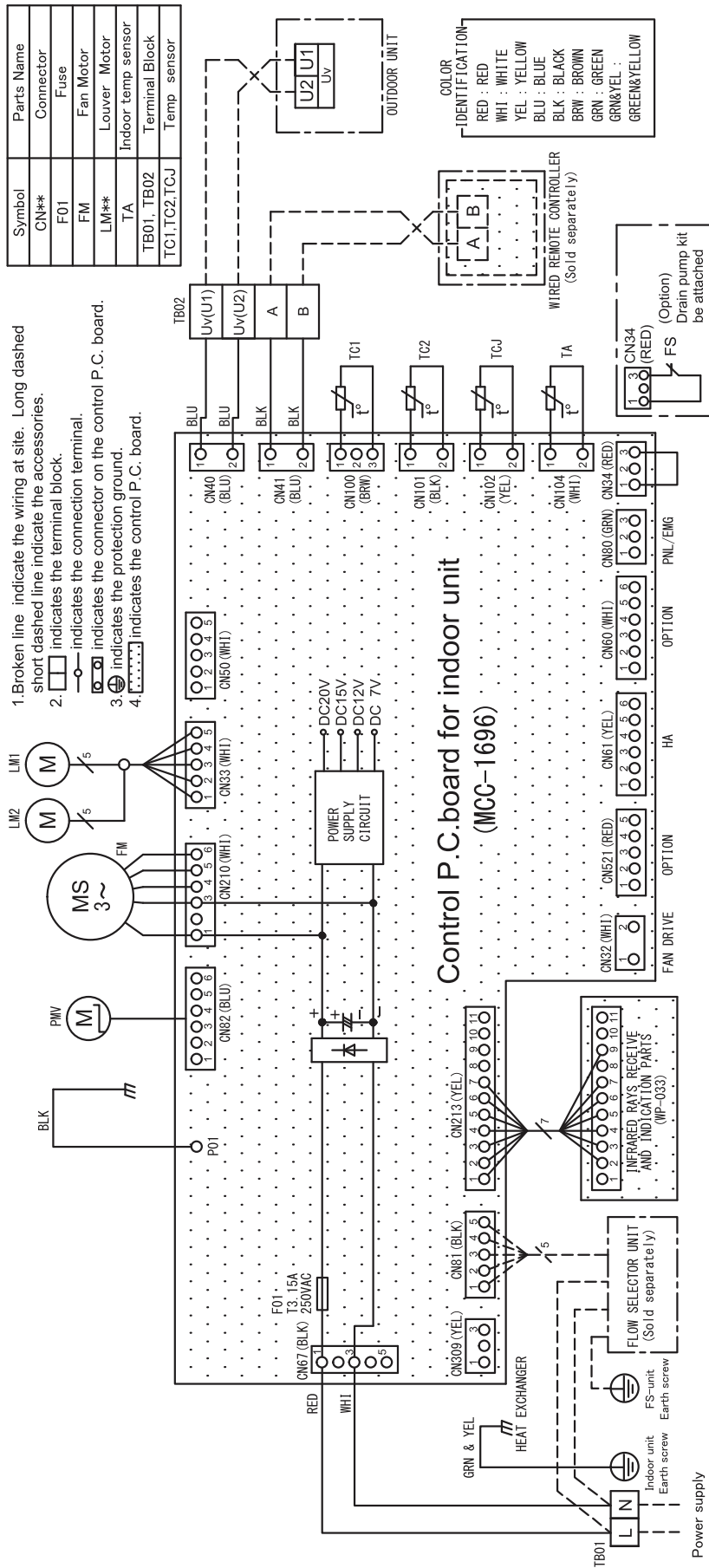
4. Piping diagram

MMK-UP0071HP-AE, MMK-UP0091HP-AE, MMK-UP0121HP-AE, MMK-UP0151HP-AE, MMK-UP0181HP-AE,
MMK-UP0241HP-AE, MMK-UP0271HP-AE, MMK-UP0301HP-AE, MMK-UP0361HP-AE



Functional part name		Functional outline
Pulse Motor Valve	PMV	(Connector CN82 (6P): Blue) 1) Controls super heat in cooling operation 2) Controls under cool in heating operation 3) Recovers refrigerant oil in cooling operation 4) Recovers refrigerant oil in heating operation
Temp. sensor	1. TA	(Connector CN104 (2P): White) 1) Detects indoor suction temperature
	2. TC1	(Connector CN100 (3P): Brown) 1) Controls PMV super heat in cooling operation
	3. TC2	(Connector CN101 (2P): Blue) 1) Controls PMV under cool in heating operation
	4. TCJ	(Connector CN102 (2P): Yellow) 1) Controls PMV super heat in cooling operation

MMK-UP0271HP-AE, MMK-UP0301HP-AE, MMK-UP0361HP-AE



6. Electrical characteristics

50 Hz

Type	Model	Nominal Voltage	Voltage Range		Fan Motor		Power Supply	
		(V-Ph-Hz)	Min	Max	kW	FLA	MCA	MOCP
High Wall Type	MMK-UP0051HP-AE	230-1-50	198	264	0.030	0.16	0.21	15
	MMK-UP0071HP-AE	230-1-50	198	264	0.030	0.17	0.21	15
	MMK-UP0091HP-AE	230-1-50	198	264	0.030	0.18	0.23	15
	MMK-UP0121HP-AE	230-1-50	198	264	0.030	0.20	0.25	15
	MMK-UP0151HP-AE	230-1-50	198	264	0.042	0.30	0.38	15
	MMK-UP0181HP-AE	230-1-50	198	264	0.042	0.33	0.41	15
	MMK-UP0241HP-AE	230-1-50	198	264	0.042	0.48	0.60	15
	MMK-UP0271HP-AE	230-1-50	198	264	0.061	0.66	0.83	15
	MMK-UP0301HP-AE	230-1-50	198	264	0.061	0.66	0.83	15
	MMK-UP0361HP-AE	230-1-50	198	264	0.061	0.66	0.83	15

MCA : Minimum Circuit Amps

FLA : Full Load Amps

MOCP : Maximum Overcurrent Protection (Amps)

kW : Fan Motor Output (kW)

7. Sensible capacity table

High Wall Type (MMK-UP___1HP-AE)

Indoor Air temperature															
Unit size	Outdoor air temp. °C DB	14.0 °F WB		16.0 °F WB		18.0 °F WB		19.0 °F WB		20.0 °F WB		22.0 °F WB		24.0 °F WB	
		20.0 °F DB		23.0 °F DB		26.0 °F DB		27.0 °F DB		28.0 °F DB		30.0 °F DB		32.0 °F DB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
007	10.0	1.8	1.5	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.5	1.6
	12.0	1.8	1.5	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.5	1.6
	14.0	1.8	1.5	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.5	1.6
	16.0	1.8	1.5	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.5	1.6
	18.0	1.8	1.5	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.5	1.6
	20.0	1.8	1.5	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.5	1.6
	21.0	1.8	1.5	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.5	1.6
	23.0	1.8	1.5	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.5	1.6
	25.0	1.8	1.5	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.5	1.6
	27.0	1.8	1.5	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.5	1.6
	29.0	1.8	1.5	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.5	1.6
	31.0	1.8	1.5	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.5	1.6
	33.0	1.8	1.5	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.5	1.6
	35.0	1.8	1.5	2.0	1.6	2.1	1.7	2.2	1.7	2.3	1.7	2.4	1.7	2.5	1.6
	37.0	1.7	1.5	1.9	1.6	2.1	1.7	2.1	1.6	2.2	1.6	2.3	1.6	2.4	1.6
	39.0	1.7	1.4	1.9	1.5	2.0	1.6	2.1	1.6	2.1	1.6	2.3	1.6	2.4	1.5

Unit size	Outdoor air temp. °C DB	Indoor Air temperature													
		14.0 °F WB		16.0 °F WB		18.0 °F WB		19.0 °F WB		20.0 °F WB		22.0 °F WB		24.0 °F WB	
		20.0 °F DB		23.0 °F DB		26.0 °F DB		27.0 °F DB		28.0 °F DB		30.0 °F DB		32.0 °F DB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	
009	10.0	2.3	1.8	2.5	1.9	2.7	2.0	2.8	2.0	2.9	2.0	3.1	2.0	3.2	1.9
	12.0	2.3	1.8	2.5	1.9	2.7	2.0	2.8	2.0	2.9	2.0	3.1	2.0	3.2	1.9
	14.0	2.3	1.8	2.5	1.9	2.7	2.0	2.8	2.0	2.9	2.0	3.1	2.0	3.2	1.9
	16.0	2.3	1.8	2.5	1.9	2.7	2.0	2.8	2.0	2.9	2.0	3.1	2.0	3.2	1.9
	18.0	2.3	1.8	2.5	1.9	2.7	2.0	2.8	2.0	2.9	2.0	3.1	2.0	3.2	1.9
	20.0	2.3	1.8	2.5	1.9	2.7	2.0	2.8	2.0	2.9	2.0	3.1	2.0	3.2	1.9
	21.0	2.3	1.8	2.5	1.9	2.7	2.0	2.8	2.0	2.9	2.0	3.1	2.0	3.2	1.9
	23.0	2.3	1.8	2.5	1.9	2.7	2.0	2.8	2.0	2.9	2.0	3.1	2.0	3.2	1.9
	25.0	2.3	1.8	2.5	1.9	2.7	2.0	2.8	2.0	2.9	2.0	3.1	2.0	3.2	1.9
	27.0	2.3	1.8	2.5	1.9	2.7	2.0	2.8	2.0	2.9	2.0	3.1	2.0	3.2	1.9
	29.0	2.3	1.8	2.5	1.9	2.7	2.0	2.8	2.0	2.9	2.0	3.1	2.0	3.2	1.9
	31.0	2.3	1.8	2.5	1.9	2.7	2.0	2.8	2.0	2.9	2.0	3.1	2.0	3.2	1.9
	33.0	2.3	1.8	2.5	1.9	2.7	2.0	2.8	2.0	2.9	2.0	3.1	2.0	3.2	1.9
	35.0	2.3	1.8	2.5	1.9	2.7	2.0	2.8	2.0	2.9	2.0	3.1	2.0	3.2	1.9
37.0	2.2	1.7	2.5	1.8	2.6	1.9	2.7	1.9	2.8	1.9	3.0	1.9	3.1	1.9	
39.0	2.2	1.7	2.4	1.8	2.6	1.9	2.6	1.9	2.7	1.9	2.9	1.9	3.0	1.8	

Unit size	Outdoor air temp.	Indoor Air temperature													
		14.0 °F WB		16.0 °F WB		18.0 °F WB		19.0 °F WB		20.0 °F WB		22.0 °F WB		24.0 °F WB	
		20.0 °F DB		23.0 °F DB		26.0 °F DB		27.0 °F DB		28.0 °F DB		30.0 °F DB		32.0 °F DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	
012	10.0	3.0	2.2	3.3	2.4	3.5	2.5	3.6	2.5	3.7	2.5	3.9	2.5	4.1	2.4
	12.0	3.0	2.2	3.3	2.4	3.5	2.5	3.6	2.5	3.7	2.5	3.9	2.5	4.1	2.4
	14.0	3.0	2.2	3.3	2.4	3.5	2.5	3.6	2.5	3.7	2.5	3.9	2.5	4.1	2.4
	16.0	3.0	2.2	3.3	2.4	3.5	2.5	3.6	2.5	3.7	2.5	3.9	2.5	4.1	2.4
	18.0	3.0	2.2	3.3	2.4	3.5	2.5	3.6	2.5	3.7	2.5	3.9	2.5	4.1	2.4
	20.0	3.0	2.2	3.3	2.4	3.5	2.5	3.6	2.5	3.7	2.5	3.9	2.5	4.1	2.4
	21.0	3.0	2.2	3.3	2.4	3.5	2.5	3.6	2.5	3.7	2.5	3.9	2.5	4.1	2.4
	23.0	3.0	2.2	3.3	2.4	3.5	2.5	3.6	2.5	3.7	2.5	3.9	2.5	4.1	2.4
	25.0	3.0	2.2	3.3	2.4	3.5	2.5	3.6	2.5	3.7	2.5	3.9	2.5	4.1	2.4
	27.0	3.0	2.2	3.3	2.4	3.5	2.5	3.6	2.5	3.7	2.5	3.9	2.5	4.1	2.4
	29.0	3.0	2.2	3.3	2.4	3.5	2.5	3.6	2.5	3.7	2.5	3.9	2.5	4.1	2.4
	31.0	3.0	2.2	3.3	2.4	3.5	2.5	3.6	2.5	3.7	2.5	3.9	2.5	4.1	2.4
	33.0	3.0	2.2	3.3	2.4	3.5	2.5	3.6	2.5	3.7	2.5	3.9	2.5	4.1	2.4
	35.0	3.0	2.2	3.3	2.4	3.5	2.5	3.6	2.5	3.7	2.5	3.9	2.5	4.1	2.4
	37.0	2.9	2.1	3.2	2.3	3.4	2.4	3.5	2.4	3.6	2.4	3.8	2.4	4.0	2.3
	39.0	2.8	2.1	3.1	2.2	3.3	2.4	3.4	2.4	3.5	2.4	3.7	2.3	3.9	2.3

TC: Total Capacity [kW]

SHC: Sensible Heat Capacity [kW]

High Wall Type (MMK-UP__1HP-AE)

Unit size	Outdoor air temp. °C DB	Indoor Air temperature													
		14.0 °C WB		16.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
		20.0 °C DB		23.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
015	10.0	3.70	2.85	4.08	3.03	4.37	3.22	4.50	3.20	4.63	3.19	4.90	3.13	5.13	3.04
	12.0	3.70	2.85	4.08	3.03	4.37	3.22	4.50	3.20	4.63	3.19	4.90	3.13	5.13	3.04
	14.0	3.70	2.85	4.08	3.03	4.37	3.22	4.50	3.20	4.63	3.19	4.90	3.13	5.13	3.04
	16.0	3.70	2.85	4.08	3.03	4.37	3.22	4.50	3.20	4.63	3.19	4.90	3.13	5.13	3.04
	18.0	3.70	2.85	4.08	3.03	4.37	3.22	4.50	3.20	4.63	3.19	4.90	3.13	5.13	3.04
	20.0	3.70	2.85	4.08	3.03	4.37	3.22	4.50	3.20	4.63	3.19	4.90	3.13	5.13	3.04
	21.0	3.70	2.85	4.08	3.03	4.37	3.22	4.50	3.20	4.63	3.19	4.90	3.13	5.13	3.04
	23.0	3.70	2.85	4.08	3.03	4.37	3.22	4.50	3.20	4.63	3.19	4.90	3.13	5.13	3.04
	25.0	3.70	2.85	4.08	3.03	4.37	3.22	4.50	3.20	4.63	3.19	4.90	3.13	5.13	3.04
	27.0	3.70	2.85	4.08	3.03	4.37	3.22	4.50	3.20	4.63	3.19	4.90	3.13	5.13	3.04
	29.0	3.70	2.85	4.08	3.03	4.37	3.22	4.50	3.20	4.63	3.19	4.90	3.13	5.13	3.04
	31.0	3.70	2.85	4.08	3.03	4.37	3.22	4.50	3.20	4.63	3.19	4.90	3.13	5.13	3.04
	33.0	3.70	2.85	4.08	3.03	4.37	3.22	4.50	3.20	4.63	3.19	4.90	3.13	5.13	3.04
	35.0	3.70	2.85	4.08	3.03	4.37	3.22	4.50	3.20	4.63	3.19	4.90	3.13	5.13	3.04
	37.0	3.60	2.78	3.98	2.95	4.26	3.13	4.38	3.12	4.51	3.10	4.77	3.05	4.99	2.96
	39.0	3.50	2.70	3.86	2.87	4.14	3.04	4.26	3.03	4.38	3.01	4.64	2.96	4.85	2.88

Unit size	Outdoor air temp. °C DB	Indoor Air temperature													
		14.0 °C WB		16.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
		20.0 °C DB		23.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
018	10.0	4.60	3.48	5.08	3.70	5.44	3.92	5.60	3.90	5.76	3.88	6.10	3.80	6.38	3.69
	12.0	4.60	3.48	5.08	3.70	5.44	3.92	5.60	3.90	5.76	3.88	6.10	3.80	6.38	3.69
	14.0	4.60	3.48	5.08	3.70	5.44	3.92	5.60	3.90	5.76	3.88	6.10	3.80	6.38	3.69
	16.0	4.60	3.48	5.08	3.70	5.44	3.92	5.60	3.90	5.76	3.88	6.10	3.80	6.38	3.69
	18.0	4.60	3.48	5.08	3.70	5.44	3.92	5.60	3.90	5.76	3.88	6.10	3.80	6.38	3.69
	20.0	4.60	3.48	5.08	3.70	5.44	3.92	5.60	3.90	5.76	3.88	6.10	3.80	6.38	3.69
	21.0	4.60	3.48	5.08	3.70	5.44	3.92	5.60	3.90	5.76	3.88	6.10	3.80	6.38	3.69
	23.0	4.60	3.48	5.08	3.70	5.44	3.92	5.60	3.90	5.76	3.88	6.10	3.80	6.38	3.69
	25.0	4.60	3.48	5.08	3.70	5.44	3.92	5.60	3.90	5.76	3.88	6.10	3.80	6.38	3.69
	27.0	4.60	3.48	5.08	3.70	5.44	3.92	5.60	3.90	5.76	3.88	6.10	3.80	6.38	3.69
	29.0	4.60	3.48	5.08	3.70	5.44	3.92	5.60	3.90	5.76	3.88	6.10	3.80	6.38	3.69
	31.0	4.60	3.48	5.08	3.70	5.44	3.92	5.60	3.90	5.76	3.88	6.10	3.80	6.38	3.69
	33.0	4.60	3.48	5.08	3.70	5.44	3.92	5.60	3.90	5.76	3.88	6.10	3.80	6.38	3.69
	35.0	4.60	3.48	5.08	3.70	5.44	3.92	5.60	3.90	5.76	3.88	6.10	3.80	6.38	3.69
	37.0	4.48	3.39	4.95	3.60	5.30	3.82	5.45	3.80	5.61	3.78	5.94	3.71	6.21	3.59
	39.0	4.35	3.30	4.81	3.50	5.15	3.71	5.30	3.69	5.45	3.67	5.77	3.60	6.04	3.49

Unit size	Outdoor air temp.	Indoor Air temperature													
		14.0 °C WB		16.0 °C WB		18.0 °C WB		19.0 °C WB		20.0 °C WB		22.0 °C WB		24.0 °C WB	
		20.0 °C DB		23.0 °C DB		26.0 °C DB		27.0 °C DB		28.0 °C DB		30.0 °C DB		32.0 °C DB	
	°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
024	10.0	5.83	4.46	6.44	4.74	6.90	5.03	7.10	5.00	7.30	4.98	7.73	4.88	8.09	4.74
	12.0	5.83	4.46	6.44	4.74	6.90	5.03	7.10	5.00	7.30	4.98	7.73	4.88	8.09	4.74
	14.0	5.83	4.46	6.44	4.74	6.90	5.03	7.10	5.00	7.30	4.98	7.73	4.88	8.09	4.74
	16.0	5.83	4.46	6.44	4.74	6.90	5.03	7.10	5.00	7.30	4.98	7.73	4.88	8.09	4.74
	18.0	5.83	4.46	6.44	4.74	6.90	5.03	7.10	5.00	7.30	4.98	7.73	4.88	8.09	4.74
	20.0	5.83	4.46	6.44	4.74	6.90	5.03	7.10	5.00	7.30	4.98	7.73	4.88	8.09	4.74
	21.0	5.83	4.46	6.44	4.74	6.90	5.03	7.10	5.00	7.30	4.98	7.73	4.88	8.09	4.74
	23.0	5.83	4.46	6.44	4.74	6.90	5.03	7.10	5.00	7.30	4.98	7.73	4.88	8.09	4.74
	25.0	5.83	4.46	6.44	4.74	6.90	5.03	7.10	5.00	7.30	4.98	7.73	4.88	8.09	4.74
	27.0	5.83	4.46	6.44	4.74	6.90	5.03	7.10	5.00	7.30	4.98	7.73	4.88	8.09	4.74
	29.0	5.83	4.46	6.44	4.74	6.90	5.03	7.10	5.00	7.30	4.98	7.73	4.88	8.09	4.74
	31.0	5.83	4.46	6.44	4.74	6.90	5.03	7.10	5.00	7.30	4.98	7.73	4.88	8.09	4.74
	33.0	5.83	4.46	6.44	4.74	6.90	5.03	7.10	5.00	7.30	4.98	7.73	4.88	8.09	4.74
	35.0	5.83	4.46	6.44	4.74	6.90	5.03	7.10	5.00	7.30	4.98	7.73	4.88	8.09	4.74
	37.0	5.68	4.35	6.27	4.61	6.72	4.90	6.92	4.87	7.11	4.85	7.53	4.76	7.88	4.62
	39.0	5.52	4.22	6.09	4.48	6.52	4.76	6.72	4.73	6.91	4.71	7.32	4.62	7.65	4.49

TC: Total Capacity [kW]

SHC: Sensible Heat Capacity [kW]

High Wall Type (MMK-UP__1HP-AE)

Unit size	outdoor air temp.	Indoor air temp.													
		14 °C WB		16 °C WB		18 °C WB		19 °C WB		20 °C WB		22 °C WB		24 °C WB	
		20 °C DB		23 °C DB		26 °C DB		27 °C DB		28 °C DB		30 °C DB		32 °C DB	
	°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
027	10.00	6.80	5.40	7.10	5.60	7.60	5.80	8.00	6.00	8.10	6.00	8.70	6.00	9.00	5.70
	12.00	6.80	5.40	7.10	5.60	7.60	5.80	8.00	6.00	8.10	6.00	8.70	6.00	9.00	5.70
	14.00	6.80	5.40	7.10	5.60	7.60	5.80	8.00	6.00	8.10	6.00	8.70	6.00	9.00	5.70
	16.00	6.80	5.40	7.10	5.60	7.60	5.80	8.00	6.00	8.10	6.00	8.70	6.00	9.00	5.70
	18.00	6.80	5.40	7.10	5.60	7.60	5.80	8.00	6.00	8.10	6.00	8.70	6.00	9.00	5.70
	20.00	6.80	5.40	7.10	5.60	7.60	5.80	8.00	6.00	8.10	6.00	8.70	6.00	9.00	5.70
	21.00	6.80	5.40	7.10	5.60	7.60	5.80	8.00	6.00	8.10	6.00	8.70	6.00	9.00	5.70
	23.00	6.80	5.40	7.10	5.60	7.60	5.80	8.00	6.00	8.10	6.00	8.70	6.00	9.00	5.70
	25.00	6.80	5.40	7.10	5.60	7.60	5.80	8.00	6.00	8.10	6.00	8.70	6.00	9.00	5.70
	27.00	6.80	5.40	7.10	5.60	7.60	5.80	8.00	6.00	8.10	6.00	8.70	6.00	9.00	5.70
	29.00	6.80	5.40	7.10	5.60	7.60	5.80	8.00	6.00	8.10	6.00	8.70	6.00	9.00	5.70
	31.00	6.80	5.40	7.10	5.60	7.60	5.80	8.00	6.00	8.10	6.00	8.70	6.00	9.00	5.70
	33.00	6.80	5.40	7.10	5.60	7.60	5.80	8.00	6.00	8.10	6.00	8.70	6.00	9.00	5.70
	35.00	6.80	5.40	7.10	5.60	7.60	5.80	8.00	6.00	8.10	6.00	8.70	6.00	9.00	5.70
	37.00	6.60	5.20	6.90	5.40	7.40	5.60	7.80	5.80	7.90	5.80	8.40	5.80	8.70	5.50
	39.00	6.40	5.10	6.70	5.30	7.20	5.50	7.60	5.70	7.70	5.70	8.20	5.70	8.50	5.40

Unit size	outdoor air temp.	Indoor air temp.													
		14 °C WB		16 °C WB		18 °C WB		19 °C WB		20 °C WB		22 °C WB		24 °C WB	
		20 °C DB		23 °C DB		26 °C DB		27 °C DB		28 °C DB		30 °C DB		32 °C DB	
°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	
030	10.00	7.70	6.20	8.00	6.30	8.50	6.60	9.00	6.80	9.20	6.90	9.70	6.70	10.10	6.50
	12.00	7.70	6.20	8.00	6.30	8.50	6.60	9.00	6.80	9.20	6.90	9.70	6.70	10.10	6.50
	14.00	7.70	6.20	8.00	6.30	8.50	6.60	9.00	6.80	9.20	6.90	9.70	6.70	10.10	6.50
	16.00	7.70	6.20	8.00	6.30	8.50	6.60	9.00	6.80	9.20	6.90	9.70	6.70	10.10	6.50
	18.00	7.70	6.20	8.00	6.30	8.50	6.60	9.00	6.80	9.20	6.90	9.70	6.70	10.10	6.50
	20.00	7.70	6.20	8.00	6.30	8.50	6.60	9.00	6.80	9.20	6.90	9.70	6.70	10.10	6.50
	21.00	7.70	6.20	8.00	6.30	8.50	6.60	9.00	6.80	9.20	6.90	9.70	6.70	10.10	6.50
	23.00	7.70	6.20	8.00	6.30	8.50	6.60	9.00	6.80	9.20	6.90	9.70	6.70	10.10	6.50
	25.00	7.70	6.20	8.00	6.30	8.50	6.60	9.00	6.80	9.20	6.90	9.70	6.70	10.10	6.50
	27.00	7.70	6.20	8.00	6.30	8.50	6.60	9.00	6.80	9.20	6.90	9.70	6.70	10.10	6.50
	29.00	7.70	6.20	8.00	6.30	8.50	6.60	9.00	6.80	9.20	6.90	9.70	6.70	10.10	6.50
	31.00	7.70	6.20	8.00	6.30	8.50	6.60	9.00	6.80	9.20	6.90	9.70	6.70	10.10	6.50
	33.00	7.70	6.20	8.00	6.30	8.50	6.60	9.00	6.80	9.20	6.90	9.70	6.70	10.10	6.50
	35.00	7.70	6.20	8.00	6.30	8.50	6.60	9.00	6.80	9.20	6.90	9.70	6.70	10.10	6.50
	37.00	7.50	6.00	7.80	6.10	8.30	6.40	8.70	6.60	8.90	6.70	9.40	6.50	9.80	6.30
	39.00	7.30	5.90	7.60	6.00	8.10	6.30	8.50	6.40	8.70	6.50	9.20	6.40	9.60	6.20

Unit size	outdoor air temp.	Indoor air temp.													
		14 °C WB		16 °C WB		18 °C WB		19 °C WB		20 °C WB		22 °C WB		24 °C WB	
		20 °C DB		23 °C DB		26 °C DB		27 °C DB		28 °C DB		30 °C DB		32 °C DB	
		°C DB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC
036	10.00	9.50	7.60	10.00	7.80	10.60	8.10	11.20	8.40	11.40	8.40	12.10	8.30	12.60	8.00
	12.00	9.50	7.60	10.00	7.80	10.60	8.10	11.20	8.40	11.40	8.40	12.10	8.30	12.60	8.00
	14.00	9.50	7.60	10.00	7.80	10.60	8.10	11.20	8.40	11.40	8.40	12.10	8.30	12.60	8.00
	16.00	9.50	7.60	10.00	7.80	10.60	8.10	11.20	8.40	11.40	8.40	12.10	8.30	12.60	8.00
	18.00	9.50	7.60	10.00	7.80	10.60	8.10	11.20	8.40	11.40	8.40	12.10	8.30	12.60	8.00
	20.00	9.50	7.60	10.00	7.80	10.60	8.10	11.20	8.40	11.40	8.40	12.10	8.30	12.60	8.00
	21.00	9.50	7.60	10.00	7.80	10.60	8.10	11.20	8.40	11.40	8.40	12.10	8.30	12.60	8.00
	23.00	9.50	7.60	10.00	7.80	10.60	8.10	11.20	8.40	11.40	8.40	12.10	8.30	12.60	8.00
	25.00	9.50	7.60	10.00	7.80	10.60	8.10	11.20	8.40	11.40	8.40	12.10	8.30	12.60	8.00
	27.00	9.50	7.60	10.00	7.80	10.60	8.10	11.20	8.40	11.40	8.40	12.10	8.30	12.60	8.00
	29.00	9.50	7.60	10.00	7.80	10.60	8.10	11.20	8.40	11.40	8.40	12.10	8.30	12.60	8.00
	31.00	9.50	7.60	10.00	7.80	10.60	8.10	11.20	8.40	11.40	8.40	12.10	8.30	12.60	8.00
	33.00	9.50	7.60	10.00	7.80	10.60	8.10	11.20	8.40	11.40	8.40	12.10	8.30	12.60	8.00
	35.00	9.50	7.60	10.00	7.80	10.60	8.10	11.20	8.40	11.40	8.40	12.10	8.30	12.60	8.00
	37.00	9.20	7.40	9.70	7.60	10.30	7.90	10.90	8.20	11.10	8.20	11.70	8.10	12.20	7.80
	39.00	9.00	7.20	9.50	7.40	10.00	7.70	10.60	8.00	10.80	8.00	11.50	7.90	11.90	7.60

TC: Total Capacity [kW]

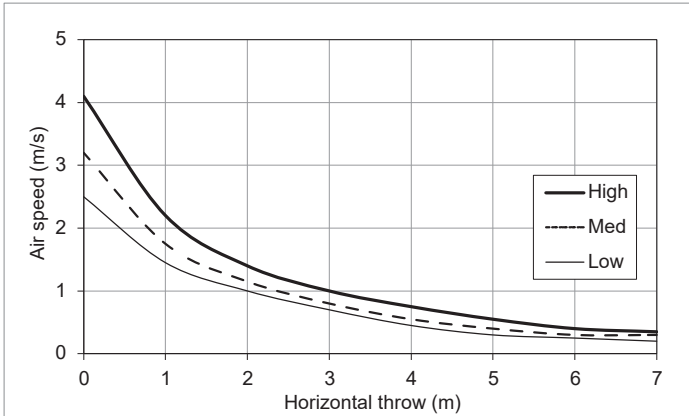
SHC: Sensible Heat Capacity [kW]

8. Air flow distance chart

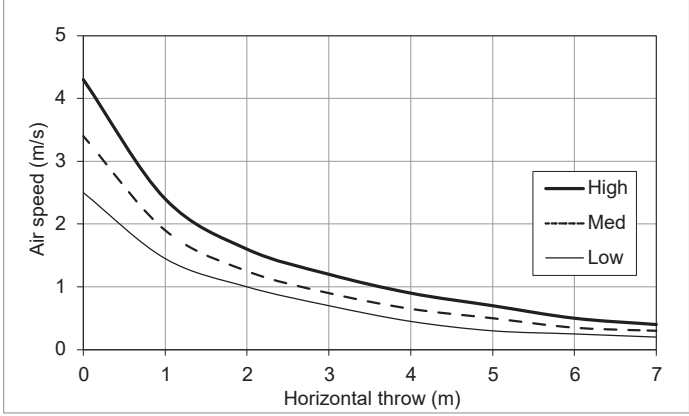
MMK-UP0071HP-AE



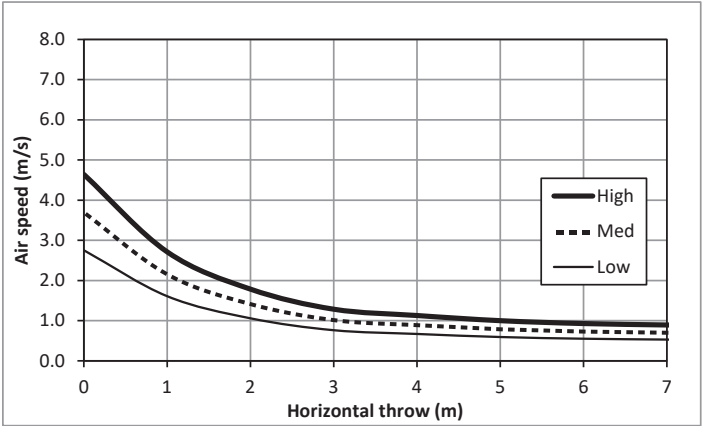
MMK-UP0091HP-AE



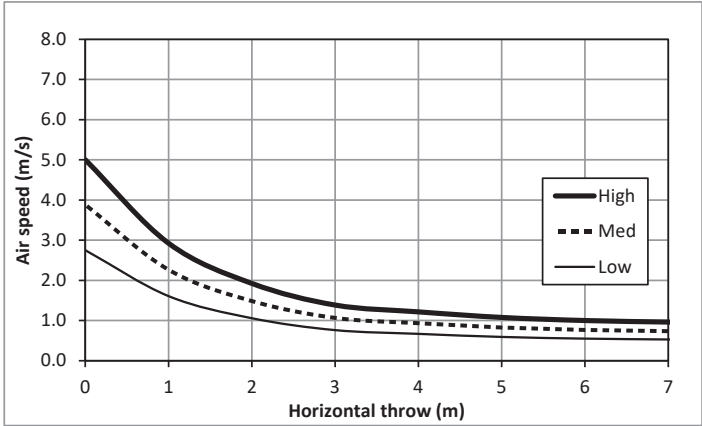
MMK-UP0121HP-AE



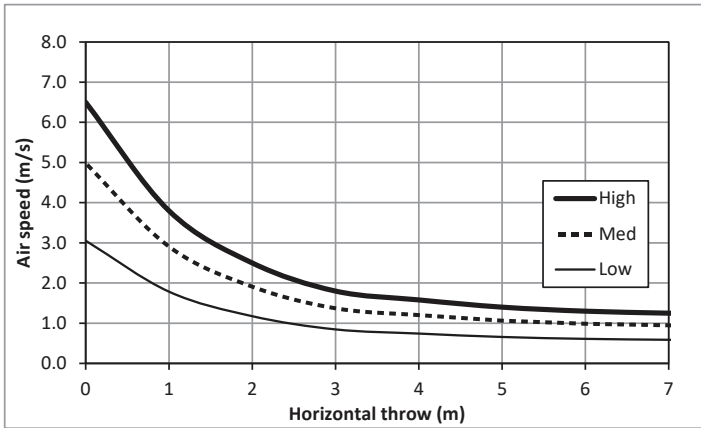
MMK-UP0151HP-AE



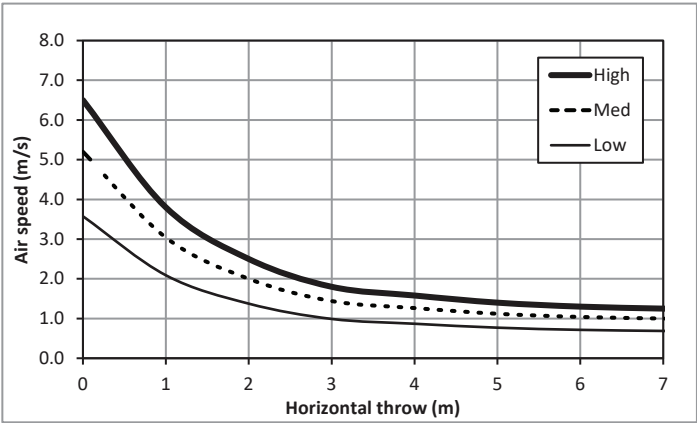
MMK-UP0181HP-AE



MMK-UP0241HP-AE



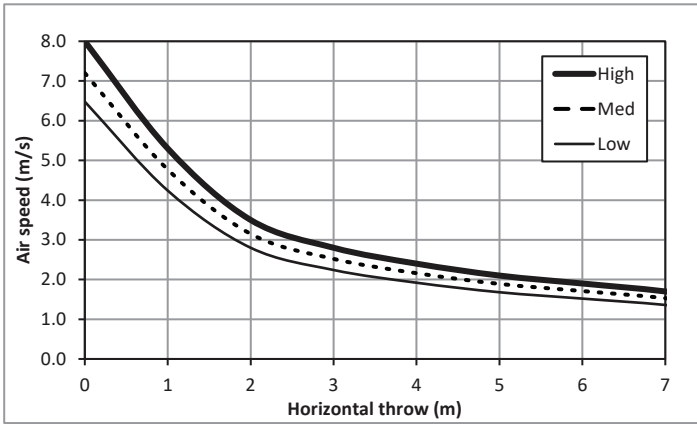
MMK-UP0271HP-AE



MMK-UP0301HP-AE

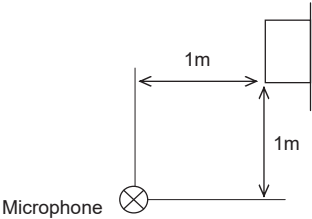


MMK-UP0361HP-AE



9. Sound data

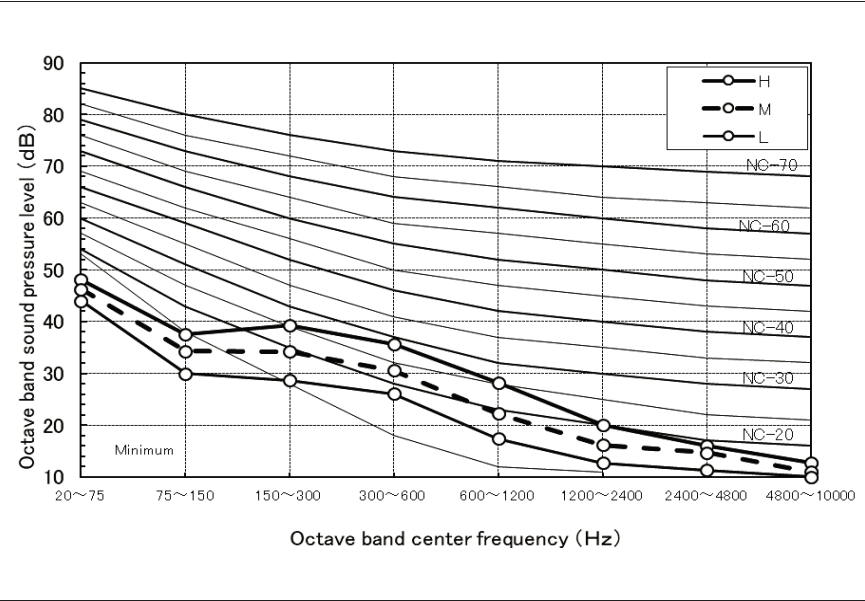
Sound pressure spectrum



MMK-UP0071HP-AE

Specification (dB)

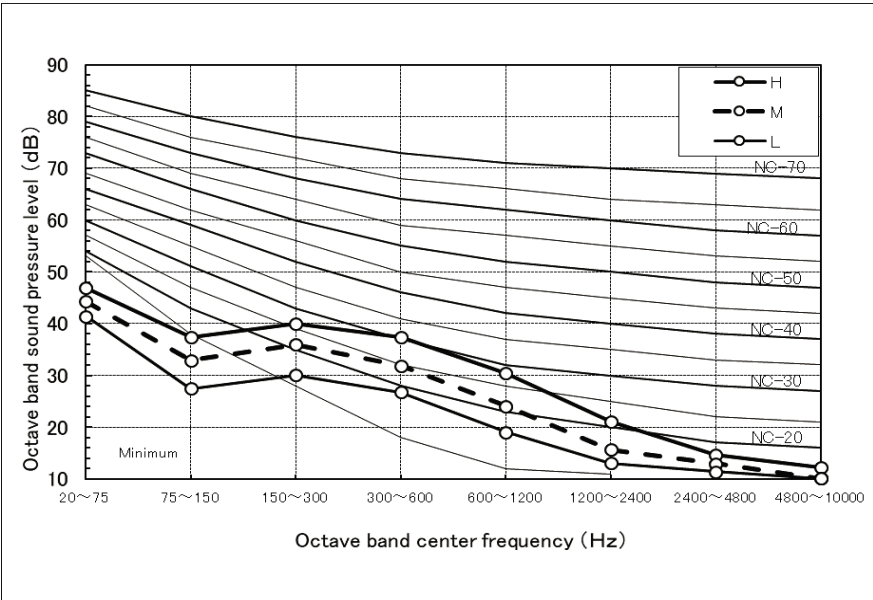
Fan tab	H	M	L
Sound pressure level (dB(A))	35	30	25



MMK-UP0091HP-AE

Specification (dB)

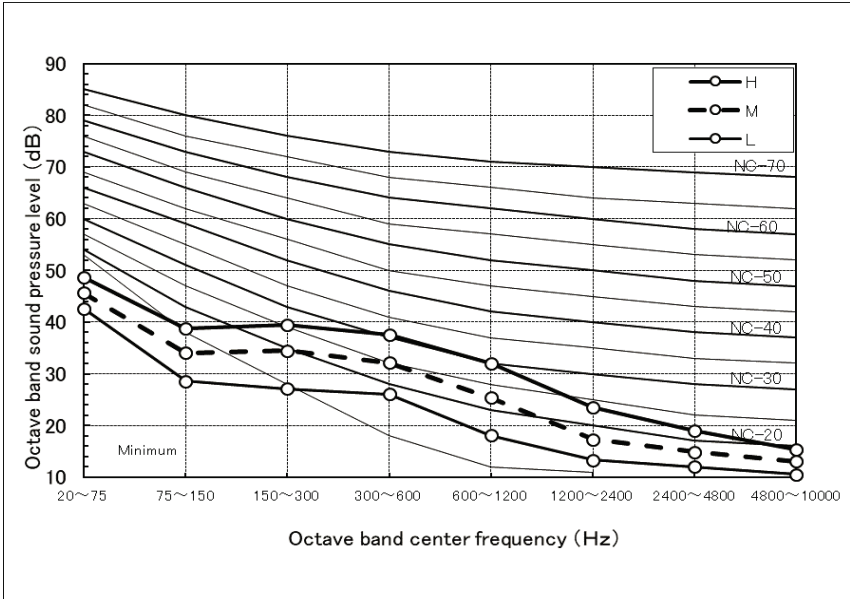
Fan tab	H	M	L
Sound pressure level (dB(A))	36	31	25



MMK-UP0121HP-AE

Specification (dB)

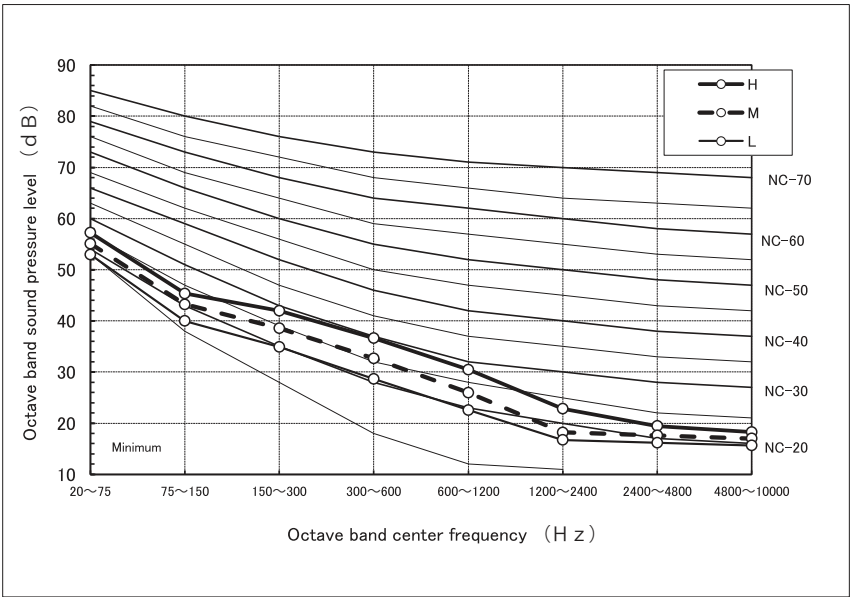
Fan tab	H	M	L
Sound pressure level (dB(A))	37	32	25



MMK-UP0151HP-AE

Specification (dB)

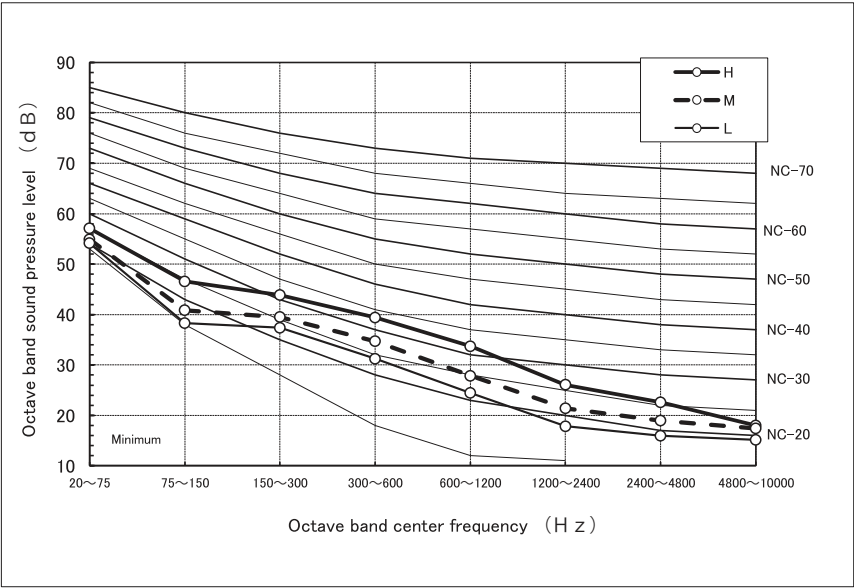
Fan tab	H	M	L
Sound pressure level (dB(A))	40	36	32



MMK-UP0181HP-AE

Specification (dB)

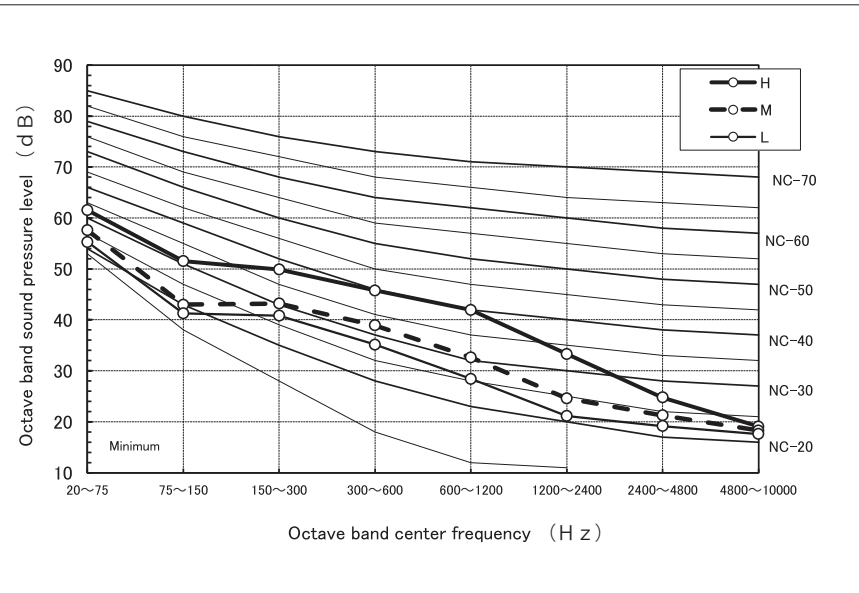
Fan tab	H	M	L
Sound pressure level (dB(A))	41	37	32



MMK-UP0241HP-AE

Specification (dB)

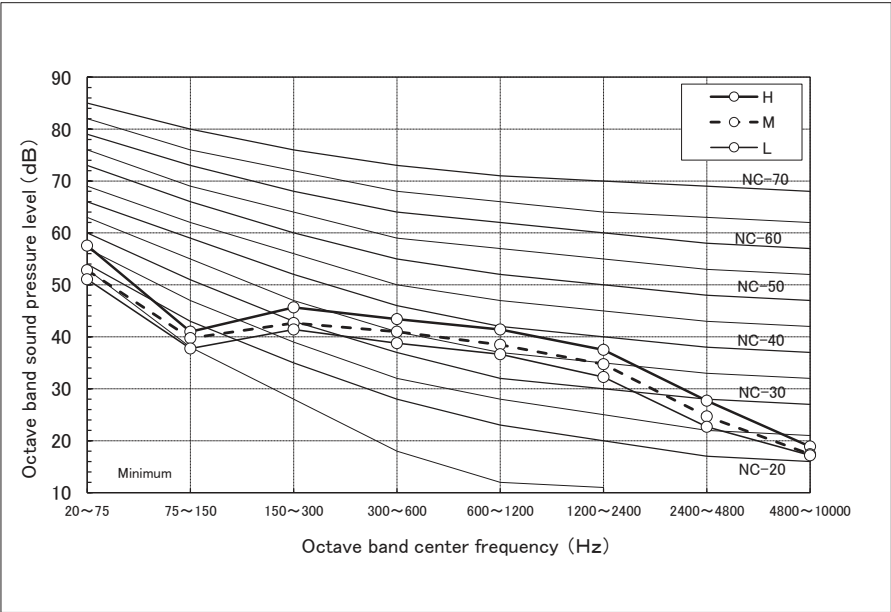
Fan tab	H	M	L
Sound pressure level (dB(A))	45	39	33



MMK-UP0271HP-AE

Specification (dB)

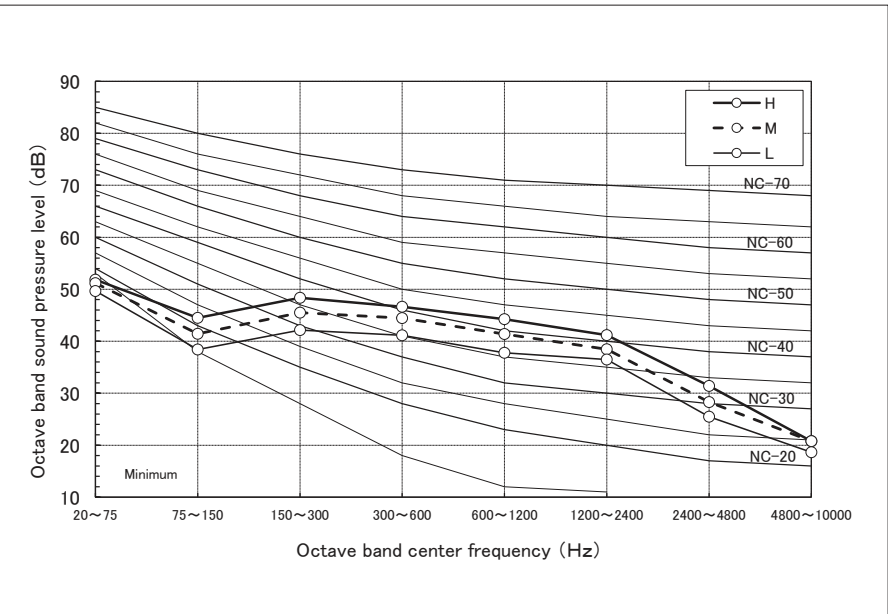
Fan tab	H	M	L
Sound pressure level (dB(A))	44	41	39



MMK-UP0301HP-AE

Specification (dB)

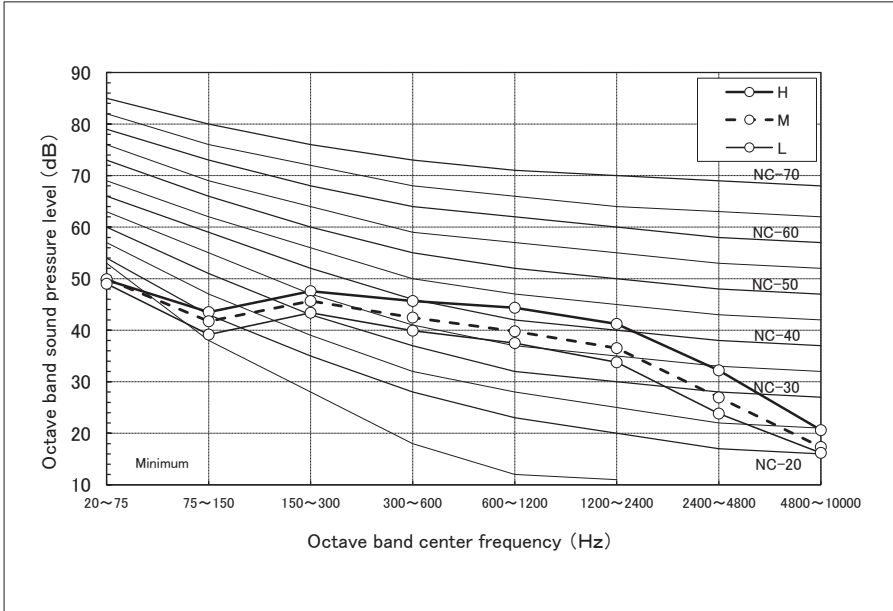
Fan tab	H	M	L
Sound pressure level (dB(A))	48	44	41



MMK-UP0361HP-AE

Specification (dB)

Fan tab	H	M	L
Sound pressure level (dB(A))	50	45	43



10. Accesories

Name	Model name	Appearance
Wireless R/C	Packed with unit	
Optional Wired R/C	RBC-AMS41E-ME	

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