

MDV DC Fan Coil Unit Two-pipe Four-way Cassette Technical Service Manual

Two-pipe Four-way Cassette DC Fan Coil Unit

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1. External Appearance



2. Features

- 4-way air supply panel is standard, 360° air supply panel is optional.

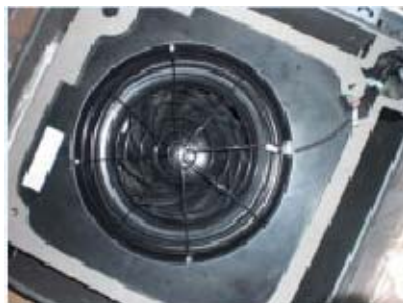
Current Panel



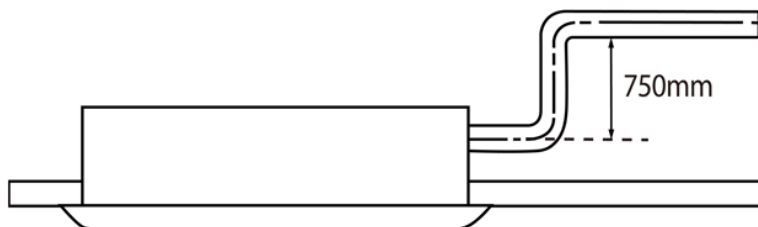
360° Panel



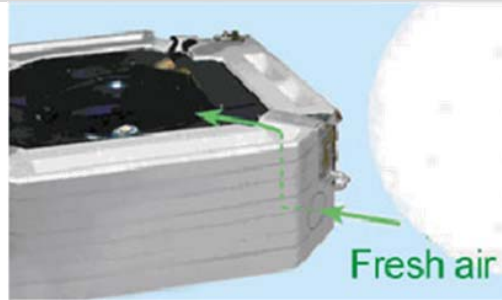
- Unique design of the centrifugal fan ensures extra-quiet operation and high efficiency.
- Wireless remote control with LED display, wired control is optional.
- Safety grill for safety maintenance.



- Built-in drain water pump with 750mm pumping head.

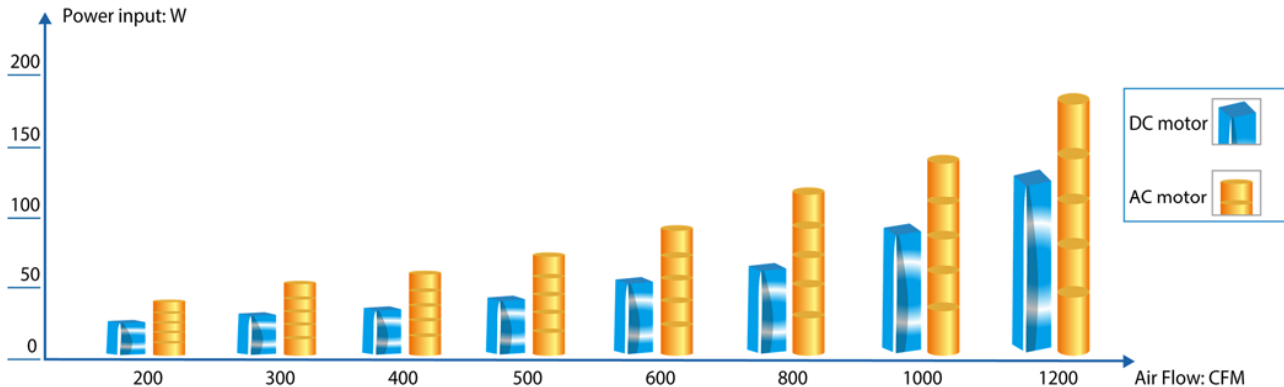


- Optional extended drainage pan for protecting your ceiling better.
- Four speed motor with one reserved for more choice.
- Fresh air provision makes life healthier and more comfortable.



- Excellent efficiency

MDV DC FCU adopt the brushless DC motor, the DC motor efficiency is up to 90%. In contrast with the original FCU, DC FCU power consumption can be reduced by more than 30%.



- DC brushless motor

The motor uses fully enclosed structure design, it is an energy-saving of high operating efficiency and durable motor. The motor bearing can operate 80,000 hours continuously and easy for maintenance.



- Low noise

Advanced 3-D spiral fan design reduces air resistance and operating sound. The motor bearing with unique design makes less operation vibration.

- Low return difference temperature

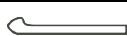
In heating mode, the default return difference temperature of the standard units is 6 degrees, can be customizable to 3 degrees.

3. Product Lineup

Type	600R	750R	850R	950R	1200R	1500R
4-way cassette (MDKA-Vxx)	•	•	•	•	•	•

4. Accessories

4.1 Standard accessories

Accessory name	Qty.	Shape	Usage
Owner's & installation manual	1	/	-
Installation paper board	1		-
Bolt M6	4		-
Tubing& Fittings	2		Soundproof / insulation sheath
Drainpipe Fittings	1		Out-let pipe
	1		Out-let pipe sheath
	1		Out-let pipe clasp
	5		Tightening band
Remote controller& Its Frame	1		Remote controller R05/BGE-20
	1		Frame
	2		Mounting screw (ST2.9x10-C-H)
	2		Alkaline dry batteries
Remote controller manual	1		-

4.2 Optional accessories

Accessory name	Qty.	Shape	Usage
Wired controller KJR-10B/D	1		Wired control
Wired controller KJR-12B/D	1		Wired control
Central controller CCM03	1		Central control
3-way valve assembly	1		Water flow switch

5. Specifications

Model			MDKA-V600R	MDKA-V750R	MDKA-V850R
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m³/h	1175/987/768	1229/1020/810	1451/1146/1012
		CFM	691/580/451	722/600/476	853/674/595
Cooling ¹	Capacity (H/M/L)	kW	5.93/5.3/4.4	6.12/5.45/4.6	7.52/6.46/5.89
	Water flow rate(H/M/L)	m³/h	1.05/0.92/0.77	1.10/0.96/0.81	1.37/1.18/1.07
	Water pressure drop(H/M/L)	kPa	19.2/15.4/11	21.3/21.3/12.4	20.1/15.3/12.6
	Power input(H/M/L)	W	41/27/17	49/31/20	68/37/30
Heating ²	Capacity (H/M/L)	kW	6.06/5.72/5.32	6.27/5.88/5.43	7.88/7.48/6.76
	Water flow rate(H/M/L)	m³/h	1.30/1.14/1.13	1.39/1.20/1.00	1.66/1.39/1.25
	Water pressure drop(H/M/L)	kPa	25.9/20.1/19.9	30/22.7/16.3	26.7/18.8/15.6
	Power input(H/M/L)	W	42/28/17	44/32/19	66/37/28
Heating ³	Capacity (H/M/L)	kW	8.42/7.37/6.06	8.62/7.49/6.27	10.37/8.72/7.88
	Water flow rate(H/M/L)	m³/h	1.06/0.92/0.76	1.10/0.96/0.81	1.37/1.18/1.07
	Water pressure drop(H/M/L)	kPa	16.9/12.7/8.6	19.1/14.8/10.6	18.2/13.6/11.1
	Power input(H/M/L)	W	42/28/17	49/31/19	67/37/28
Sound pressure level (H/M/L)		dB(A)	43/39/33	44/40/34	45/40/37
Sound power level (H/M/L)		dB(A)	55/51/45	56/52/46	57/52/49
Rated current		A	0.5	0.5	0.6
Fan motor	Type		DC motor	DC motor	DC motor
	Quantity		1	1	1
Fan	Type		Centrifugal, forward-curved Blades		
	Quantity		1	1	1
Coil	Row		2	2	2
	Max. Working pressure	MPa	1.6	1.6	1.6
	Diameter	mm	Φ7	Φ7	Φ7
Panel	Net dimensions (W×H×D)	mm	950×45×950	950×45×950	950×45×950
	Packing size (W×H×D)	mm	1035×90×1035	1035×90×1035	1035×90×1035
	Net weight	kg	6	6	6
	Gross weight	kg	9	9	9
Body	Net dimensions (W×H×D)	mm	840×230×840	840×230×840	840×300×840
	Packing size (W×H×D)	mm	900×237×900	900×237×900	900×330×900
	Net weight	kg	23	23	27
	Gross weight	kg	28	28	33
Pipe connections	Water inlet/outlet pipe	inch	RC3/4	RC3/4	RC3/4
	Drain pipe	mm	ODΦ32	ODΦ32	ODΦ32

Notes: 1. H: High fan speed; M: Medium fan speed; L: Low fan speed.

2. Cooling mode (2 and 4-pipe coil): entering air temperature 27°C DB/1 9°C WB, entering/leaving water temperature 7°C /12°C, high fan speed.

3. Heating mode (1) : (2-pipe coil): entering air temperature 20° C DB, entering/leaving water temperature 45/40° C, high fan speed.

4. Heating mode (2) : (2-pipe coil): entering air temperature 20° C DB, enter water teperature/water flow 50°C/*(same water flow as in standard rating condition in cooling)

Model			MDKA-V950R	MDKA-V1200R	MDKA-V1500R
Power supply		V/Ph/Hz	220-240/1/50		
Air flow (H/M/L)		m ³ /h	1530/1224/1101	1581/1371/1236	1871/1415/1198
		CFM	900/720/647	930/806/727	1100/832/704
Cooling ¹	Capacity (H/M/L)	kW	7.84/6.84/6.35	7.87/7.12/6.67	11.19/8.82/7.48
	Water flow rate(H/M/L)	m ³ /h	1.43/1.24/1.13	1.44/1.28/1.22	1.96/1.53/1.28
	Water pressure drop(H/M/L)	kPa	22/17/14.1	22.3/18.1/16.3	36.6/22.7/16.4
	Power input(H/M/L)	W	75/42/34	85/59/45	126/58/39
Heating ²	Capacity (H/M/L)	kW	8.49/8/7.35	9.16/8.54/7.9	10.07/9.37/8.68
	Water flow rate(H/M/L)	m ³ /h	1.71/1.45/1.33	1.73/1.57/1.46	2.35/1.86/1.59
	Water pressure drop(H/M/L)	kPa	28.1/20.7/17.4	28.8/24/20.7	49.2/31.2/23.3
	Power input(H/M/L)	W	76/43/33	86/59/45	128/58/38
Heating ³	Capacity (H/M/L)	kW	10.86/9.24/8.49	10.92/9.84/9.16	14.92/11.73/10.07
	Water flow rate(H/M/L)	m ³ /h	1.43/1.24/1.13	1.44/1.28/1.22	1.96/1.53/1.28
	Water pressure drop(H/M/L)	kPa	19.9/15.2/12.6	20/16.2/14.7	34.3/21.3/15
	Power input(H/M/L)	W	76/42/33	85/58/45	127/58/39
Sound pressure level (H/M/L)		dB(A)	46/42/39	48/44/41	49/43/39
Sound power level (H/M/L)		dB(A)	58/54/51	60/56/53	61/55/51
Rated current		A	0.7	0.8	1.1
Fan motor	Type		DC motor	DC motor	DC motor
	Quantity		1	1	1
Fan	Type		Centrifugal, forward-curved Blades		
	Quantity		1	1	1
Coil	Row		2	2	3
	Max. Working pressure	MPa	1.6	1.6	1.6
	Diameter	mm	Φ7	Φ7	Φ7
Panel	Net dimensions (W×H×D)	mm	950×45×950	950×45×950	950×45×950
	Packing size (W×H×D)	mm	1035×90×1035	1035×90×1035	1035×90×1035
	Net weight	kg	6	6	6
	Gross weight	kg	9	9	9
Body	Net dimensions (W×H×D)	mm	840×300×840	840×300×840	840×300×840
	Packing size (W×H×D)	mm	900×330×900	900×330×900	900×330×900
	Net weight	kg	27	27	29.5
	Gross weight	kg	33	33	34.5
Pipe connections	Water inlet/outlet pipe	inch	RC3/4	RC3/4	RC3/4
	Drain pipe	mm	ODΦ32	ODΦ32	ODΦ32

Based on Eurovent conditions:

H: High fan speed; M: Medium fan speed; L: Low fan speed.

1 :Cooling mode (2 and 4-pipe coil): entering air temperature 27°C DB/1 9°C WB, entering/leaving water temperature 7°C /12°C, high fan speed.

2 :Heating mode (1) : (2-pipe coil): entering air temperature 20°C DB, entering/leaving water temperature 45/40°C, high fan speed.

3 :Heating mode (2) : (2-pipe coil): entering air temperature 20°C DB, enter water teperaure/water flow 50°C/*(same water flow as in standard rating condition in cooling)

6. Capacity Table

Cooling Capacity Table

MDKA-V600R																							
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																				
			21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
5	3	15	5.24	4.16	1.50	27.94	5.18	4.79	1.48	27.45	5.41	5.41	1.55	29.58	6.03	6.03	1.72	35.65	6.64	6.64	1.90	42.10	
		17	7.13	4.18	2.06	48.23	7.08	4.81	2.04	47.64	7.03	5.44	2.03	47.08	6.97	6.05	2.00	46.04	6.91	6.66	1.98	45.38	
		19	-	-	-	-	9.09	4.82	2.62	73.59	9.03	5.45	2.61	72.74	8.97	6.07	2.59	71.93	8.89	6.67	2.55	69.96	
		20	-	-	-	-	10.15	4.83	2.93	89.17	10.08	5.46	2.91	88.30	10.00	6.07	2.87	86.00	9.94	6.68	2.85	85.02	
	4	15	4.41	3.79	0.94	12.69	4.42	4.41	0.95	12.74	5.06	5.06	1.09	16.17	5.68	5.68	1.22	19.69	6.28	6.28	1.35	23.20	
		17	6.31	3.81	1.35	23.37	6.27	4.44	1.34	23.08	6.21	5.07	1.33	22.76	6.16	5.68	1.32	22.40	6.29	6.26	1.35	23.23	
		19	-	-	-	-	8.28	4.46	1.78	37.32	8.23	5.09	1.77	36.88	8.17	5.71	1.75	36.44	8.11	6.32	1.74	36.01	
		20	-	-	-	-	9.35	4.47	2.01	46.04	9.29	5.09	1.99	45.50	9.23	5.72	1.98	44.98	9.16	6.33	1.97	44.46	
	5	15	3.59	3.42	0.62	5.24	4.04	4.04	0.69	7.08	4.68	4.68	0.80	9.55	5.31	5.31	0.91	11.85	5.93	5.93	1.02	14.30	
		17	5.47	3.44	0.94	12.48	5.43	4.07	0.93	12.30	5.37	4.70	0.92	12.09	5.36	5.33	0.92	12.04	5.94	5.94	1.02	14.34	
		19	-	-	-	-	7.46	4.10	1.28	21.15	7.41	4.73	1.27	20.89	7.37	5.36	1.27	20.87	7.32	5.97	1.26	20.60	
		20	-	-	-	-	8.54	4.11	1.46	26.62	8.47	4.74	1.45	26.30	8.42	5.36	1.44	25.98	8.36	5.98	1.43	25.68	
	6	15	3.14	3.14	0.45	2.30	3.73	3.73	0.53	3.60	4.33	4.33	0.62	5.40	4.94	4.94	0.71	7.46	5.57	5.57	0.80	9.40	
		17	4.59	3.07	0.66	6.26	4.54	3.70	0.65	6.10	4.51	4.33	0.65	6.00	4.95	4.95	0.71	7.49	5.58	5.58	0.80	9.43	
		19	-	-	-	-	6.62	3.74	0.95	12.64	6.57	4.37	0.94	12.48	6.51	4.99	0.93	12.31	6.45	5.61	0.93	12.11	
		20	-	-	-	-	7.70	3.75	1.10	16.35	7.64	4.38	1.10	16.15	7.59	5.01	1.09	15.95	7.53	5.63	1.08	15.76	
7	3	15	3.80	3.52	1.10	16.18	4.16	4.16	1.20	18.83	4.78	4.78	1.37	23.62	5.41	5.41	1.56	29.59	6.02	6.02	1.74	35.60	
		17	5.70	3.53	1.65	32.37	5.65	4.17	1.63	31.93	5.60	4.80	1.62	31.41	5.56	5.42	1.61	31.05	6.03	6.03	1.74	35.72	
		19	-	-	-	-	7.64	4.18	2.20	53.24	7.59	4.81	2.18	52.61	7.54	5.43	2.17	52.05	7.49	6.05	2.16	51.74	
		20	-	-	-	-	8.72	4.19	2.52	67.44	8.66	4.82	2.50	66.63	8.60	5.44	2.48	65.79	8.54	6.05	2.46	64.69	
	4	15	3.13	3.10	0.67	6.73	3.79	3.79	0.82	9.72	4.43	4.43	0.96	12.72	5.05	5.05	1.09	15.93	5.66	5.66	1.22	19.19	
		17	4.84	3.17	1.05	14.82	4.79	3.81	1.04	14.56	4.75	4.44	1.03	14.33	5.06	5.06	1.09	15.98	5.67	5.67	1.22	19.25	
		19	-	-	-	-	6.81	3.82	1.47	26.34	6.76	4.45	1.45	26.01	6.71	5.07	1.44	25.67	6.65	5.69	1.43	25.28	
		20	-	-	-	-	7.89	3.83	1.71	34.27	7.84	4.47	1.70	33.87	7.78	5.09	1.68	33.46	7.73	5.71	1.67	33.05	
	5	15	2.83	2.83	0.49	2.86	3.43	3.43	0.59	4.84	4.05	4.05	0.70	7.25	4.68	4.68	0.81	9.46	5.31	5.31	0.91	11.70	
		17	3.90	2.78	0.67	6.67	3.85	3.42	0.66	6.50	4.05	4.02	0.70	7.25	4.69	4.69	0.81	9.49	5.32	5.32	0.91	11.73	
		19	-	-	-	-	5.94	3.46	1.02	14.14	5.89	4.09	1.01	13.94	5.93	5.00	1.05	19.20	5.78	5.33	0.99	13.50	
		20	-	-	-	-	7.01	3.47	1.21	18.76	6.96	4.10	1.20	18.52	6.91	4.73	1.19	18.29	6.85	5.35	1.18	18.03	
	6	15	2.53	2.53	0.36	1.58	3.14	3.14	0.45	2.38	3.73	3.73	0.54	3.80	4.32	4.32	0.62	5.57	4.95	4.95	0.71	7.50	
		17	3.15	2.49	0.45	2.42	3.21	3.14	0.46	2.54	3.73	3.73	0.54	3.82	4.33	4.33	0.62	5.59	4.96	4.96	0.71	7.53	
		19	-	-	-	-	4.98	3.08	0.71	7.61	4.93	3.72	0.71	7.45	4.88	4.34	0.70	7.30	4.96	4.93	0.71	7.53	
		20	-	-	-	-	6.09	3.10	0.87	10.78	6.04	3.74	0.87	10.63	5.99	4.37	0.86	10.47	5.93	4.99	0.85	10.29	
9	3	15	2.87	2.87	0.82	9.73	3.51	3.51	1.01	13.73	4.14	4.14	1.19	18.21	4.77	4.77	1.37	23.20	5.39	5.39	1.56	29.03	
		17	4.13	2.88	1.19	18.13	4.08	3.52	1.17	17.77	4.14	4.12	1.19	18.20	4.78	4.78	1.37	23.27	5.40	5.40	1.56	29.13	
		19	-	-	-	-	6.11	3.53	1.76	35.64	6.07	4.16	1.74	35.17	6.01	4.79	1.73	34.61	5.96	5.41	1.71	34.05	
		20	-	-	-	-	7.20	3.54	2.09	47.88	7.14	4.18	2.07	47.27	7.09	4.80	2.05	46.68	7.04	5.42	2.04	46.06	
	4	15	2.51	2.51	0.54	4.00	3.14	3.14	0.67	6.83	3.78	3.78	0.81	9.51	4.42	4.42	0.95	12.37	5.04	5.04	1.08	15.50	
		17	3.18	2.50	0.68	6.99	3.19	3.15	0.69	7.05	3.79	3.79	0.82	9.55	4.42	4.42	0.95	12.41	5.05	5.05	1.09	15.55	
		19	-	-	-	-	5.23	3.18	1.13	16.53	5.18	3.81	1.11	16.24	5.12	4.44	1.10	15.95	5.13	5.07	1.10	15.98	
		20	-	-	-	-	6.30	3.19	1.36	22.82	6.26	3.82	1.35	22.53	6.20	4.45	1.34	22.21	6.14	5.07	1.33	21.85	
	5	15	2.22	2.22	0.38	1.66	2.82	2.82	0.48	2.97	3.42	3.42	0.59	5.00	4.05	4.05	0.70	7.26	4.68	4.68	0.81	9.31	
		17	2.42	2.21	0.42	1.99	2.82	2.81	0.49	2.98	3.43	3.43	0.59	5.03	4.06	4.06	0.70	7.28	4.69	4.69	0.81	9.34	
		19	-	-	-	-	4.26	2.81	0.73	7.91	4.20	3.44	0.72	7.74	4.19	4.07	0.72	7.71	4.70	4.70	0.81	9.38	
		20	-	-	-	-	5.36	2.82	0.92	11.71	5.31	3.46	0.91	11.53	5.26	4.09	0.91	11.33	5.21	4.71	0.90	11.15	
	6	15	1.90	1.90	0.27	1.11	2.52	2.52	0.36	1.51	3.12	3.12	0.45	2.43	3.72	3.72	0.53	3.90	4.33	4.33	0.62	5.71	
		17	1.92	1.91	0.27	1.12	2.53	2.53	0.36	1.52	3.13	3.13	0.45	2.44	3.72	3.72	0.53	3.92	4.33	4.33	0.62	5.73	
		19	-	-	-	-	3.35	2.48	0.48	2.95	3.35	3.12	0.48	2.95	3.73	3.72	0.53	3.93	4.34	4.34	0.62	5.76	
		20	-	-	-	-	4.34	2.45	0.62	5.76	4.29	3.09	0.62	5.61	4.25	3.72	0.61	5.48	4.35	4.34	0.62	5.78	

(Continued)

MDKA-V600R																							
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																				
			21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
11	3	15	2.21	2.21	0.63	5.92	2.86	2.86	0.82	9.45	3.50	3.50	1.00	13.32	4.13	4.13	1.18	17.68	4.76	4.76	1.36	22.50	
		17	2.44	2.22	0.69	7.20	2.87	2.86	0.82	9.48	3.51	3.51	1.00	13.36	4.14	4.14	1.18	17.73	4.76	4.76	1.36	22.57	
		19	-	-	-	-	4.47	2.88	1.27	20.19	4.41	3.52	1.26	19.78	4.38	4.15	1.25	19.55	4.77	4.77	1.36	22.65	
		20	-	-	-	-	5.54	2.89	1.58	29.25	5.49	3.53	1.57	28.83	5.45	4.16	1.56	28.60	5.39	4.78	1.55	28.11	
	4	15	1.90	1.90	0.41	1.91	2.51	2.51	0.54	4.02	3.14	3.14	0.67	6.76	3.78	3.78	0.81	9.28	4.41	4.41	0.94	12.04	
		17	1.90	1.88	0.41	1.91	2.51	2.51	0.54	4.04	3.15	3.15	0.67	6.78	3.79	3.79	0.81	9.31	4.42	4.42	0.95	12.08	
		19	-	-	-	-	3.47	2.52	0.74	8.03	3.45	3.16	0.74	7.92	3.79	3.77	0.81	9.32	4.43	4.43	0.95	12.13	
		20	-	-	-	-	4.58	2.54	0.98	12.86	4.53	3.17	0.97	12.61	4.48	3.81	0.96	12.38	4.50	4.44	0.96	12.49	
	5	15	1.59	1.59	0.27	1.08	2.22	2.22	0.38	1.66	2.82	2.82	0.48	3.09	3.43	3.43	0.59	5.15	4.06	4.06	0.70	7.19	
		17	1.60	1.60	0.27	1.08	2.22	2.22	0.38	1.66	2.82	2.82	0.49	3.11	3.43	3.43	0.59	5.17	4.07	4.07	0.70	7.22	
		19	-	-	-	-	2.58	2.20	0.44	2.44	2.82	2.80	0.49	3.12	3.44	3.44	0.59	5.19	4.08	4.08	0.70	7.24	
		20	-	-	-	-	3.54	2.17	0.61	5.55	3.50	2.81	0.60	5.39	3.52	3.45	0.61	5.48	4.08	4.08	0.70	7.26	
	6	15	1.28	1.28	0.18	0.71	1.90	1.90	0.27	1.06	2.52	2.52	0.36	1.49	3.12	3.12	0.45	2.52	3.71	3.71	0.53	4.03	
		17	1.28	1.28	0.18	0.71	1.91	1.91	0.27	1.06	2.53	2.53	0.36	1.50	3.12	3.12	0.45	2.53	3.72	3.72	0.53	4.05	
		19	-	-	-	-	1.96	1.92	0.28	1.09	2.53	2.53	0.36	1.50	3.13	3.13	0.45	2.54	3.73	3.73	0.54	4.07	
		20	-	-	-	-	2.69	1.88	0.39	1.71	2.73	2.53	0.39	1.77	3.13	3.12	0.45	2.55	3.73	3.73	0.54	4.09	
13	3	15	1.59	1.59	0.46	2.64	2.22	2.22	0.64	6.08	2.86	2.86	0.82	9.43	3.49	3.49	1.00	13.06	4.13	4.13	1.19	17.59	
		17	1.59	1.59	0.46	2.65	2.22	2.22	0.64	6.10	2.87	2.87	0.82	9.46	3.50	3.50	1.00	13.10	4.14	4.14	1.19	17.65	
		19	-	-	-	-	2.67	2.23	0.77	8.36	2.86	2.81	0.82	9.39	3.51	3.51	1.00	13.15	4.14	4.14	1.19	17.71	
		20	-	-	-	-	3.77	2.24	1.08	15.03	3.70	2.88	1.05	14.37	3.69	3.51	1.05	14.32	4.15	4.14	1.19	17.74	
	4	15	1.28	1.28	0.28	1.05	1.90	1.90	0.41	1.99	2.51	2.51	0.54	4.21	3.14	3.14	0.67	6.67	3.77	3.77	0.81	9.11	
		17	1.28	1.28	0.28	1.05	1.90	1.90	0.41	2.00	2.51	2.51	0.54	4.23	3.15	3.15	0.67	6.69	3.78	3.78	0.81	9.14	
		19	-	-	-	-	1.91	1.90	0.41	2.04	2.52	2.52	0.54	4.25	3.15	3.15	0.68	6.71	3.79	3.79	0.81	9.17	
		20	-	-	-	-	2.68	1.87	0.58	4.94	2.68	2.52	0.58	4.94	3.15	3.14	0.68	6.72	3.79	3.79	0.81	9.19	
	5	15	0.96	0.96	0.16	0.61	1.59	1.59	0.27	1.02	2.21	2.21	0.38	1.65	2.80	2.80	0.48	3.14	3.42	3.42	0.59	5.15	
		17	0.96	0.96	0.16	0.61	1.59	1.59	0.27	1.02	2.21	2.21	0.38	1.66	2.81	2.81	0.48	3.16	3.43	3.43	0.59	5.17	
		19	-	-	-	-	1.59	1.59	0.27	1.02	2.22	2.22	0.38	1.67	2.81	2.81	0.48	3.18	3.43	3.43	0.59	5.20	
		20	-	-	-	-	1.84	1.58	0.32	1.19	2.22	2.21	0.38	1.68	2.82	2.82	0.48	3.19	3.44	3.44	0.59	5.21	
	6	15	0.65	0.65	0.09	0.34	1.28	1.28	0.18	0.67	1.90	1.90	0.27	1.00	2.52	2.52	0.36	1.48	3.11	3.11	0.44	2.57	
		17	0.65	0.65	0.09	0.34	1.28	1.28	0.18	0.67	1.91	1.91	0.27	1.00	2.52	2.52	0.36	1.49	3.11	3.11	0.45	2.58	
		19	-	-	-	-	1.28	1.28	0.18	0.67	1.91	1.91	0.27	1.00	2.53	2.53	0.36	1.49	3.12	3.12	0.45	2.60	
		20	-	-	-	-	1.30	1.30	0.19	0.68	1.91	1.91	0.27	1.00	2.53	2.53	0.36	1.50	3.12	3.12	0.45	2.61	
15	3	15	0.96	0.96	0.27	1.01	1.58	1.58	0.45	2.65	2.21	2.21	0.63	5.92	2.86	2.86	0.81	9.13	3.49	3.49	1.00	12.85	
		17	0.96	0.96	0.27	1.01	1.58	1.58	0.45	2.66	2.22	2.22	0.63	5.94	2.86	2.86	0.82	9.17	3.49	3.49	1.00	12.89	
		19	-	-	-	-	1.58	1.58	0.45	2.68	2.22	2.22	0.63	5.96	2.87	2.87	0.82	9.20	3.50	3.50	1.00	12.93	
		20	-	-	-	-	1.80	1.57	0.51	3.77	2.22	2.19	0.63	5.95	2.87	2.87	0.82	9.22	3.51	3.51	1.00	12.96	
	4	15	0.65	0.65	0.14	0.50	1.28	1.28	0.27	0.99	1.89	1.89	0.41	2.02	2.50	2.50	0.54	4.24	3.14	3.14	0.67	6.58	
		17	0.65	0.65	0.14	0.50	1.28	1.28	0.27	0.99	1.90	1.90	0.41	2.03	2.51	2.51	0.54	4.26	3.15	3.15	0.67	6.60	
		19	-	-	-	-	1.28	1.28	0.27	0.99	1.90	1.90	0.41	2.04	2.51	2.51	0.54	4.28	3.15	3.15	0.68	6.62	
		20	-	-	-	-	1.28	1.26	0.27	0.99	1.90	1.90	0.41	2.05	2.51	2.51	0.54	4.29	3.16	3.16	0.68	6.63	
	5	15	0.33	0.33	0.06	0.20	0.97	0.97	0.17	0.59	1.59	1.59	0.27	0.98	2.21	2.21	0.38	1.72	2.80	2.80	0.48	3.29	
		17	0.33	0.33	0.06	0.20	0.97	0.97	0.17	0.59	1.60	1.60	0.28	0.98	2.21	2.21	0.38	1.73	2.81	2.81	0.48	3.31	
		19	-	-	-	-	0.97	0.97	0.17	0.59	1.60	1.60	0.28	0.98	2.22	2.22	0.38	1.74	2.81	2.81	0.49	3.33	
		20	-	-	-	-	0.97	0.97	0.17	0.59	1.60	1.60	0.28	0.98	2.22	2.22	0.38	1.74	2.82	2.82	0.49	3.34	
	6	15	-	-	-	-	0.65	0.65	0.09	0.32	1.28	1.28	0.18	0.64	1.90	1.90	0.27	0.95	2.51	2.51	0.36	1.52	
		17	-	-	-	-	0.65	0.65	0.09	0.32	1.28	1.28	0.18	0.64	1.91	1.91	0.27	0.96	2.52	2.52	0.36	1.53	
		19	-	-	-	-	0.65	0.65	0.09	0.33	1.29	1.29	0.18	0.64	1.91	1.91	0.27	0.96	2.52	2.52	0.36	1.53	
		20	-	-	-	-	0.65	0.65	0.09	0.33	1.29	1.29	0.18	0.64	1.91	1.91	0.27	0.96	2.53	2.53	0.36	1.54	

Abbreviations:

EWT: Enter Water Temp. (°C)

Δt: Temperature Difference (°C)

DB: Dry Bulb Temp. (°C)

WF: Water Flow (m³/h)

WB: Wet Bulb Temp. (°C)

TC: Total Cooling Capacity (kW)

SC: Sensible Cooling Capacity (kW)

WPD: Water Pressure Drop (kPa)

Cooling Capacity

MDKA-V750R																							
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																				
			21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
5	3	15	5.53	4.38	1.58	30.71	5.48	5.04	1.57	30.19	5.70	5.70	1.63	32.33	6.35	6.35	1.82	38.94	7.00	7.00	2.02	46.65	
		17	7.50	4.40	2.15	51.97	7.45	5.06	2.13	51.34	7.40	5.72	2.12	50.85	7.35	6.37	2.12	50.85	7.29	7.01	2.10	50.13	
		19	-	-	-	-	9.55	5.07	2.74	79.34	9.49	5.73	2.72	78.43	9.43	6.38	2.71	77.74	9.38	7.03	2.71	77.75	
		20	-	-	-	-	10.67	5.08	3.07	96.46	10.60	5.74	3.05	95.33	10.53	6.39	3.03	94.24	10.47	7.04	3.02	93.74	
	4	15	4.68	4.00	1.00	14.01	4.68	4.67	1.00	14.04	5.33	5.33	1.15	17.68	5.98	5.98	1.29	21.53	6.62	6.62	1.42	25.36	
		17	6.67	4.02	1.43	25.69	6.62	4.68	1.42	25.37	6.57	5.34	1.41	25.00	6.51	5.99	1.39	24.62	6.62	6.59	1.42	25.37	
		19	-	-	-	-	8.74	4.70	1.88	40.92	8.68	5.36	1.86	40.45	8.62	6.01	1.85	39.98	8.57	6.66	1.84	39.71	
		20	-	-	-	-	9.86	4.71	2.12	50.47	9.79	5.37	2.10	49.88	9.73	6.02	2.09	49.31	9.66	6.67	2.08	48.74	
	5	15	3.79	3.61	0.65	6.03	4.27	4.27	0.73	8.01	4.94	4.94	0.85	10.49	5.60	5.60	0.96	12.98	6.26	6.26	1.08	15.78	
		17	5.81	3.64	1.00	13.78	5.76	4.30	0.99	13.59	5.70	4.96	0.98	13.35	5.68	5.62	0.97	13.30	6.27	6.27	1.08	15.84	
		19	-	-	-	-	7.89	4.32	1.35	23.25	7.83	4.99	1.34	22.97	7.78	5.64	1.33	22.69	7.72	6.29	1.32	22.39	
		20	-	-	-	-	9.03	4.34	1.56	29.55	8.97	5.01	1.55	29.20	8.91	5.66	1.54	28.86	8.83	6.30	1.52	28.20	
	6	15	3.32	3.31	0.47	2.62	3.93	3.93	0.56	4.16	4.57	4.57	0.65	6.19	5.22	5.22	0.75	8.35	5.88	5.88	0.84	10.32	
		17	4.87	3.24	0.70	7.22	4.82	3.91	0.69	7.05	4.79	4.57	0.69	6.93	5.23	5.23	0.75	8.38	5.89	5.89	0.84	10.35	
		19	-	-	-	-	7.01	3.95	1.01	13.95	6.96	4.62	1.00	13.77	6.90	5.27	0.99	13.58	6.84	5.92	0.98	13.37	
		20	-	-	-	-	8.13	3.96	1.16	17.83	8.07	4.62	1.15	17.61	8.01	5.28	1.15	17.40	7.95	5.93	1.14	17.17	
7	3	15	4.02	3.71	1.16	17.82	4.38	4.38	1.26	20.59	5.03	5.03	1.44	25.82	5.69	5.69	1.65	32.32	6.34	6.34	1.83	38.89	
		17	6.01	3.72	1.74	35.49	5.96	4.39	1.72	35.00	5.90	5.05	1.71	34.41	5.87	5.70	1.70	34.05	6.35	6.35	1.84	39.03	
		19	-	-	-	-	8.06	4.40	2.32	58.59	8.01	5.06	2.31	58.15	7.95	5.72	2.30	57.43	7.90	6.36	2.28	56.69	
		20	-	-	-	-	9.18	4.41	2.65	73.63	9.12	5.07	2.64	72.99	9.07	5.73	2.63	72.70	9.01	6.38	2.61	71.85	
	4	15	3.30	3.27	0.71	7.59	4.00	4.00	0.86	10.65	4.67	4.67	1.01	13.92	5.32	5.32	1.14	17.22	5.97	5.97	1.28	20.98	
		17	5.12	3.35	1.11	16.33	5.07	4.02	1.10	16.04	5.03	4.68	1.09	15.80	5.32	5.32	1.14	17.27	5.98	5.98	1.29	21.05	
		19	-	-	-	-	7.21	4.04	1.56	29.34	7.16	4.70	1.55	28.97	7.09	5.35	1.52	28.19	7.02	5.99	1.51	27.76	
		20	-	-	-	-	8.31	4.03	1.79	37.10	8.25	4.70	1.78	36.64	8.19	5.36	1.76	36.21	8.13	6.00	1.75	35.76	
	5	15	2.97	2.97	0.51	3.30	3.61	3.61	0.62	5.56	4.28	4.28	0.74	8.08	4.94	4.94	0.85	10.36	5.60	5.60	0.96	12.80	
		17	4.15	2.95	0.71	7.61	4.10	3.62	0.71	7.44	4.27	4.23	0.73	8.06	4.95	4.95	0.85	10.40	5.61	5.61	0.96	12.84	
		19	-	-	-	-	6.29	3.66	1.08	15.67	6.24	4.32	1.08	15.43	6.12	5.18	1.10	21.30	6.13	5.63	1.05	14.93	
		20	-	-	-	-	7.41	3.66	1.28	20.65	7.36	4.33	1.27	20.39	7.30	4.99	1.26	20.13	7.24	5.64	1.25	19.84	
	6	15	2.67	2.67	0.38	1.70	3.30	3.30	0.47	2.73	3.93	3.93	0.56	4.38	4.56	4.56	0.65	6.34	5.22	5.22	0.75	8.29	
		17	3.33	2.63	0.48	2.80	3.39	3.31	0.49	2.93	3.93	3.93	0.57	4.40	4.57	4.57	0.66	6.36	5.23	5.23	0.75	8.32	
		19	-	-	-	-	5.31	3.27	0.76	8.52	5.25	3.93	0.75	8.36	5.20	4.59	0.74	8.21	5.26	5.26	0.75	8.39	
		20	-	-	-	-	6.46	3.29	0.93	11.91	6.41	3.95	0.92	11.75	6.36	4.61	0.91	11.57	6.29	5.27	0.90	11.38	
9	3	15	3.02	3.02	0.87	10.66	3.70	3.70	1.06	15.07	4.36	4.36	1.25	19.92	5.02	5.02	1.44	25.35	5.67	5.67	1.64	31.71	
		17	4.37	3.04	1.25	19.95	4.32	3.71	1.24	19.56	4.37	4.36	1.26	19.98	5.03	5.03	1.44	25.43	5.69	5.69	1.65	31.81	
		19	-	-	-	-	6.45	3.72	1.85	39.10	6.40	4.39	1.84	38.59	6.34	5.04	1.82	37.97	6.28	5.69	1.81	37.36	
		20	-	-	-	-	7.57	3.73	2.18	51.59	7.51	4.39	2.17	51.11	7.48	5.06	2.17	51.14	7.42	5.71	2.15	50.46	
	4	15	2.64	2.64	0.57	4.51	3.32	3.32	0.71	7.59	3.99	3.99	0.86	10.42	4.66	4.66	1.01	13.69	5.31	5.31	1.14	16.98	
		17	3.39	2.65	0.73	7.87	3.39	3.33	0.73	7.91	4.00	4.00	0.86	10.45	4.67	4.67	1.01	13.74	5.32	5.32	1.15	17.04	
		19	-	-	-	-	5.54	3.35	1.20	18.28	5.48	4.02	1.18	17.95	5.42	4.68	1.17	17.62	5.43	5.34	1.17	17.65	
		20	-	-	-	-	6.67	3.37	1.44	25.25	6.62	4.03	1.43	24.92	6.56	4.69	1.42	24.56	6.50	5.34	1.41	24.16	
	5	15	2.34	2.34	0.40	1.83	2.97	2.97	0.51	3.42	3.61	3.61	0.62	5.71	4.28	4.28	0.74	7.99	4.94	4.94	0.85	10.19	
		17	2.56	2.32	0.44	2.29	2.97	2.96	0.51	3.43	3.62	3.62	0.62	5.73	4.29	4.29	0.74	8.02	4.95	4.95	0.85	10.23	
		19	-	-	-	-	4.53	2.97	0.78	8.79	4.47	3.64	0.77	8.61	4.47	4.30	0.77	8.59	4.96	4.96	0.85	10.26	
		20	-	-	-	-	5.69	2.99	0.98	12.93	5.63	3.66	0.97	12.73	5.57	4.32	0.96	12.50	5.53	4.97	0.95	12.32	
	6	15	2.01	2.01	0.29	1.17	2.66	2.66	0.38	1.66	3.29	3.29	0.47	2.79	3.92	3.92	0.56	4.48	4.57	4.57	0.66	6.42	
		17	2.03	2.02	0.29	1.19	2.67	2.67	0.38	1.66	3.29	3.29	0.47	2.81	3.93	3.93	0.56	4.50	4.58	4.58	0.66	6.45	
		19	-	-	-	-	3.54	2.61	0.51	3.43	3.54	3.28	0.51	3.42	3.93	3.92	0.56	4.52	4.59	4.59	0.66	6.47	
		20	-	-	-	-	4.63	2.60	0.66	6.59	4.57	3.27	0.66	6.43	4.53	3.93	0.65	6.30	4.62	4.61	0.66	6.55	

MDKA-V750R																							
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																				
			21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
11	3	15	2.33	2.33	0.67	6.64	3.02	3.02	0.86	10.35	3.69	3.69	1.06	14.67	4.35	4.35	1.24	19.32	5.01	5.01	1.43	24.58	
		17	2.60	2.34	0.74	8.02	3.02	3.02	0.86	10.37	3.70	3.70	1.06	14.72	4.36	4.36	1.24	19.39	5.02	5.02	1.43	24.67	
		19	-	-	-	-	4.72	3.04	1.35	22.21	4.66	3.71	1.33	21.76	4.63	4.37	1.32	21.52	5.03	5.02	1.43	24.75	
		20	-	-	-	-	5.85	3.05	1.67	32.12	5.80	3.72	1.66	31.64	5.74	4.38	1.64	31.09	5.68	5.03	1.62	30.57	
	4	15	2.00	2.00	0.43	2.18	2.64	2.64	0.57	4.62	3.32	3.32	0.71	7.43	3.99	3.99	0.85	10.15	4.65	4.65	1.00	13.17	
		17	2.01	1.98	0.43	2.19	2.65	2.65	0.57	4.64	3.32	3.32	0.71	7.46	4.00	4.00	0.86	10.19	4.66	4.66	1.00	13.21	
		19	-	-	-	-	3.69	2.66	0.79	8.91	3.67	3.33	0.79	8.80	4.00	3.97	0.86	10.20	4.67	4.67	1.00	13.26	
		20	-	-	-	-	4.85	2.68	1.04	14.18	4.80	3.35	1.03	13.90	4.75	4.01	1.02	13.65	4.77	4.68	1.02	13.77	
	5	15	1.68	1.68	0.29	1.14	2.34	2.34	0.40	1.87	2.97	2.97	0.51	3.56	3.62	3.62	0.62	5.81	4.28	4.28	0.74	7.88	
		17	1.69	1.69	0.29	1.14	2.34	2.34	0.40	1.88	2.97	2.97	0.51	3.58	3.62	3.62	0.62	5.83	4.29	4.29	0.74	7.91	
		19	-	-	-	-	2.72	2.31	0.47	2.83	2.98	2.95	0.51	3.59	3.63	3.63	0.63	5.86	4.30	4.30	0.74	7.94	
		20	-	-	-	-	3.77	2.29	0.65	6.32	3.73	2.97	0.64	6.17	3.75	3.64	0.65	6.25	4.31	4.30	0.74	7.95	
	6	15	1.35	1.35	0.19	0.75	2.01	2.01	0.29	1.11	2.66	2.66	0.38	1.66	3.28	3.28	0.47	2.90	3.92	3.92	0.56	4.61	
		17	1.35	1.35	0.19	0.75	2.01	2.01	0.29	1.12	2.67	2.67	0.38	1.67	3.29	3.29	0.47	2.91	3.92	3.92	0.56	4.63	
		19	-	-	-	-	2.08	2.03	0.30	1.16	2.67	2.67	0.38	1.68	3.30	3.30	0.47	2.93	3.93	3.93	0.56	4.66	
		20	-	-	-	-	2.84	1.98	0.41	1.97	2.88	2.66	0.41	2.04	3.30	3.28	0.47	2.93	3.94	3.94	0.56	4.67	
13	3	15	1.67	1.67	0.48	3.04	2.34	2.34	0.67	6.70	3.02	3.02	0.87	10.32	3.68	3.68	1.05	14.28	4.35	4.35	1.25	19.22	
		17	1.67	1.67	0.48	3.05	2.35	2.35	0.67	6.72	3.03	3.03	0.87	10.35	3.69	3.69	1.05	14.33	4.35	4.35	1.25	19.29	
		19	-	-	-	-	2.84	2.35	0.81	9.27	3.02	2.98	0.87	10.30	3.70	3.70	1.05	14.38	4.36	4.36	1.25	19.36	
		20	-	-	-	-	3.98	2.37	1.14	16.53	3.93	3.04	1.13	16.18	3.92	3.71	1.13	16.11	4.37	4.36	1.26	19.38	
	4	15	1.35	1.35	0.29	1.11	2.00	2.00	0.43	2.29	2.65	2.65	0.57	4.80	3.31	3.31	0.71	7.31	3.98	3.98	0.85	9.97	
		17	1.35	1.35	0.29	1.11	2.00	2.00	0.43	2.30	2.65	2.65	0.57	4.82	3.32	3.32	0.71	7.33	3.99	3.99	0.85	10.00	
		19	-	-	-	-	2.02	2.00	0.43	2.35	2.65	2.65	0.57	4.84	3.33	3.33	0.71	7.36	4.00	4.00	0.86	10.04	
		20	-	-	-	-	2.83	1.97	0.61	5.53	2.84	2.65	0.61	5.53	3.33	3.31	0.71	7.36	4.00	4.00	0.86	10.06	
	5	15	1.01	1.01	0.17	0.65	1.68	1.68	0.29	1.07	2.32	2.32	0.40	1.89	2.95	2.95	0.51	3.62	3.61	3.61	0.62	5.75	
		17	1.02	1.02	0.17	0.65	1.68	1.68	0.29	1.08	2.33	2.33	0.40	1.90	2.96	2.96	0.51	3.64	3.62	3.62	0.62	5.77	
		19	-	-	-	-	1.68	1.67	0.29	1.08	2.33	2.33	0.40	1.91	2.97	2.97	0.51	3.66	3.63	3.63	0.62	5.79	
		20	-	-	-	-	1.96	1.67	0.34	1.29	2.34	2.33	0.40	1.92	2.97	2.97	0.51	3.67	3.63	3.63	0.62	5.80	
	6	15	0.69	0.69	0.10	0.36	1.35	1.35	0.19	0.71	2.01	2.01	0.29	1.05	2.65	2.65	0.38	1.68	3.27	3.27	0.47	2.96	
		17	0.69	0.69	0.10	0.36	1.35	1.35	0.19	0.71	2.01	2.01	0.29	1.06	2.66	2.66	0.38	1.68	3.28	3.28	0.47	2.98	
		19	-	-	-	-	1.36	1.36	0.19	0.71	2.02	2.02	0.29	1.06	2.66	2.66	0.38	1.69	3.29	3.29	0.47	2.99	
		20	-	-	-	-	1.38	1.37	0.20	0.72	2.02	2.02	0.29	1.06	2.67	2.67	0.38	1.70	3.29	3.29	0.47	3.00	
15	3	15	1.01	1.01	0.29	1.06	1.66	1.66	0.47	3.06	2.34	2.34	0.67	6.50	3.01	3.01	0.86	9.99	3.67	3.67	1.05	14.04	
		17	1.02	1.02	0.29	1.06	1.66	1.66	0.47	3.07	2.34	2.34	0.67	6.52	3.02	3.02	0.86	10.03	3.68	3.68	1.05	14.09	
		19	-	-	-	-	1.67	1.67	0.48	3.09	2.35	2.35	0.67	6.54	3.02	3.02	0.86	10.06	3.69	3.69	1.05	14.14	
		20	-	-	-	-	1.91	1.66	0.55	4.39	2.34	2.31	0.67	6.52	3.03	3.03	0.86	10.08	3.69	3.69	1.05	14.16	
	4	15	0.68	0.68	0.15	0.53	1.35	1.35	0.29	1.04	1.99	1.99	0.43	2.33	2.64	2.64	0.57	4.80	3.31	3.31	0.71	7.20	
		17	0.68	0.68	0.15	0.53	1.35	1.35	0.29	1.05	1.99	1.99	0.43	2.34	2.65	2.65	0.57	4.82	3.32	3.32	0.71	7.22	
		19	-	-	-	-	1.35	1.35	0.29	1.05	2.00	2.00	0.43	2.35	2.65	2.65	0.57	4.84	3.33	3.33	0.71	7.25	
		20	-	-	-	-	1.36	1.33	0.29	1.05	2.00	2.00	0.43	2.36	2.65	2.65	0.57	4.85	3.33	3.33	0.71	7.27	
	5	15	0.35	0.35	0.06	0.21	1.02	1.02	0.18	0.62	1.68	1.68	0.29	1.03	2.32	2.32	0.40	1.98	2.96	2.96	0.51	3.77	
		17	0.35	0.35	0.06	0.21	1.02	1.02	0.18	0.62	1.69	1.69	0.29	1.03	2.33	2.33	0.40	1.99	2.96	2.96	0.51	3.79	
		19	-	-	-	-	1.03	1.03	0.18	0.63	1.69	1.69	0.29	1.04	2.33	2.33	0.40	2.00	2.97	2.97	0.51	3.81	
		20	-	-	-	-	1.03	1.03	0.18	0.63	1.69	1.69	0.29	1.04	2.33	2.33	0.40	2.01	2.97	2.97	0.51	3.82	
	6	15	-	-	-	-	0.69	0.69	0.10	0.34	1.35	1.35	0.19	0.68	2.01	2.01	0.29	1.01	2.65	2.65	0.38	1.74	
		17	-	-	-	-	0.69	0.69	0.10	0.34	1.36	1.36	0.19	0.68	2.01	2.01	0.29	1.01	2.65	2.65	0.38	1.75	
		19	-	-	-	-	0.69	0.69	0.10	0.34	1.36	1.36	0.20	0.68	2.02	2.02	0.29	1.02	2.66	2.66	0.38	1.76	
		20	-	-	-	-	0.69	0.69	0.10	0.35	1.36	1.36	0.20	0.68	2.02	2.02	0.29	1.02	2.66	2.66	0.38	1.76	

Abbreviations:

EWT: Enter Water Temp. ($^{\circ}\text{C}$)

 ΔT : Temperature Difference ($^{\circ}\text{C}$)

DB: Dry Bulb Temp. ($^{\circ}\text{C}$)

WF: Water Flow (m³/h)

WB: Wet Bulb Temp. ($^{\circ}\text{C}$)

TC: Total Cooling Capacity (kW)

SC: Sensible Cooling Capacity (kW)

WPD: Water Pressure Drop (kPa)

Cooling Capacity

MDKA-V850R																							
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																				
			21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
5	3	15	6.84	5.42	1.97	22.31	6.77	6.23	1.95	21.92	7.04	7.04	2.03	23.41	7.83	7.83	2.24	27.75	8.62	8.62	2.46	32.77	
		17	9.27	5.43	2.65	37.13	9.20	6.25	2.63	36.67	9.13	7.06	2.61	36.20	9.05	7.85	2.59	35.68	8.97	8.64	2.57	35.14	
		19	-	-	-	-	11.80	6.27	3.38	56.49	11.72	7.08	3.36	55.80	11.64	7.88	3.33	55.11	11.56	8.66	3.31	54.45	
		20	-	-	-	-	13.18	6.28	3.78	68.51	13.09	7.09	3.75	67.70	13.02	7.90	3.75	67.73	12.93	8.69	3.73	67.11	
	4	15	5.75	4.93	1.23	9.98	5.73	5.72	1.23	9.95	6.56	6.56	1.41	12.51	7.37	7.37	1.58	15.23	8.17	8.17	1.76	18.32	
		17	8.26	4.97	1.78	18.66	8.19	5.79	1.77	18.41	8.12	6.60	1.75	18.14	8.05	7.40	1.73	17.85	8.17	8.12	1.76	18.31	
		19	-	-	-	-	10.78	5.80	2.31	29.21	10.71	6.61	2.30	28.85	10.63	7.42	2.28	28.49	10.55	8.21	2.26	28.13	
		20	-	-	-	-	12.17	5.82	2.61	35.99	12.09	6.63	2.59	35.55	12.00	7.43	2.57	35.12	11.92	8.22	2.56	34.70	
	5	15	4.77	4.50	0.82	3.79	5.29	5.29	0.91	5.03	6.08	6.08	1.04	7.14	6.89	6.89	1.18	9.25	7.70	7.70	1.32	11.18	
		17	7.14	4.48	1.22	9.83	7.07	5.30	1.21	9.67	7.00	6.11	1.20	9.50	6.96	6.91	1.19	9.39	7.71	7.71	1.32	11.22	
		19	-	-	-	-	9.75	5.35	1.68	16.82	9.68	6.16	1.67	16.62	9.61	6.97	1.66	16.40	9.53	7.76	1.64	16.17	
		20	-	-	-	-	11.12	5.35	1.91	20.89	11.06	6.18	1.91	20.85	10.98	6.98	1.89	20.60	10.90	7.78	1.88	20.34	
	6	15	4.11	4.08	0.59	1.81	4.91	4.91	0.70	2.54	5.68	5.68	0.81	3.75	6.45	6.45	0.92	5.31	7.24	7.24	1.04	7.06	
		17	6.08	4.03	0.87	4.53	6.02	4.86	0.86	4.41	5.97	5.67	0.85	4.32	6.46	6.46	0.93	5.34	7.25	7.25	1.04	7.09	
		19	-	-	-	-	8.62	4.87	1.23	9.91	8.55	5.68	1.22	9.77	8.47	6.49	1.21	9.62	8.39	7.28	1.20	9.46	
		20	-	-	-	-	10.04	4.89	1.44	12.87	9.96	5.71	1.43	12.71	9.89	6.52	1.42	12.54	9.81	7.31	1.41	12.38	
7	3	15	4.94	4.57	1.41	12.49	5.39	5.39	1.55	14.52	6.22	6.22	1.79	18.73	7.01	7.01	2.01	22.72	7.80	7.80	2.24	27.32	
		17	7.40	4.60	2.12	24.95	7.33	5.41	2.10	24.57	7.26	6.22	2.08	24.16	7.21	7.02	2.07	23.84	7.82	7.82	2.24	27.41	
		19	-	-	-	-	9.94	5.43	2.86	41.55	9.87	6.24	2.83	41.00	9.81	7.05	2.83	40.86	9.74	7.85	2.82	40.57	
		20	-	-	-	-	11.33	5.45	3.26	52.13	11.26	6.26	3.25	51.89	11.18	7.07	3.23	51.34	11.11	7.87	3.22	50.99	
	4	15	4.09	4.03	0.88	4.72	4.92	4.92	1.06	7.47	5.74	5.74	1.24	9.90	6.56	6.56	1.42	12.46	7.36	7.36	1.59	15.14	
		17	6.31	4.13	1.36	11.68	6.23	4.95	1.34	11.38	6.17	5.76	1.33	11.19	6.57	6.57	1.42	12.50	7.37	7.37	1.59	15.19	
		19	-	-	-	-	8.87	4.97	1.91	20.66	8.80	5.79	1.89	20.39	8.73	6.59	1.88	20.10	8.65	7.39	1.86	19.77	
		20	-	-	-	-	10.26	4.99	2.21	26.51	10.18	5.80	2.19	26.18	10.11	6.61	2.17	25.84	10.03	7.41	2.16	25.50	
	5	15	3.72	3.72	0.64	2.07	4.50	4.50	0.77	3.37	5.28	5.28	0.91	5.20	6.08	6.08	1.05	7.28	6.89	6.89	1.18	9.14	
		17	5.15	3.65	0.88	4.86	5.09	4.48	0.88	4.73	5.27	5.20	0.91	5.17	6.09	6.09	1.05	7.31	6.90	6.90	1.19	9.18	
		19	-	-	-	-	7.74	4.50	1.33	11.13	7.67	5.32	1.32	10.96	7.52	6.30	1.37	20.10	7.52	6.93	1.29	10.61	
		20	-	-	-	-	9.14	4.52	1.57	14.79	9.07	5.34	1.56	14.59	9.00	6.15	1.55	14.38	8.92	6.95	1.53	14.16	
	6	15	3.30	3.30	0.47	1.36	4.11	4.11	0.59	1.77	4.89	4.89	0.70	2.65	5.66	5.66	0.81	3.94	6.43	6.43	0.92	5.46	
		17	4.21	3.28	0.61	1.85	4.25	4.13	0.61	1.88	4.90	4.90	0.70	2.66	5.67	5.67	0.82	3.96	6.44	6.44	0.92	5.49	
		19	-	-	-	-	6.53	4.03	0.94	5.66	6.46	4.85	0.93	5.52	6.40	5.66	0.92	5.38	6.44	6.39	0.92	5.47	
		20	-	-	-	-	7.94	4.04	1.14	8.48	7.87	4.87	1.13	8.35	7.80	5.68	1.12	8.21	7.72	6.48	1.11	8.06	
9	3	15	3.72	3.72	1.07	7.60	4.56	4.56	1.31	10.76	5.38	5.38	1.54	14.26	6.19	6.19	1.78	18.08	6.99	6.99	2.01	22.27	
		17	5.39	3.75	1.55	14.28	5.32	4.57	1.53	13.99	5.37	5.32	1.54	14.20	6.20	6.20	1.78	18.15	7.00	7.00	2.01	22.35	
		19	-	-	-	-	7.99	4.61	2.31	28.40	7.92	5.42	2.29	27.98	7.85	6.23	2.27	27.55	7.77	7.03	2.25	27.10	
		20	-	-	-	-	9.34	4.60	2.69	36.78	9.27	5.42	2.67	36.30	9.20	6.23	2.64	35.81	9.12	7.03	2.62	35.29	
	4	15	3.30	3.30	0.71	2.79	4.09	4.09	0.88	4.90	4.91	4.91	1.06	7.42	5.73	5.73	1.23	9.67	6.54	6.54	1.41	12.09	
		17	4.16	3.27	0.90	5.14	4.16	4.10	0.89	5.12	4.92	4.92	1.06	7.44	5.74	5.74	1.24	9.70	6.55	6.55	1.41	12.13	
		19	-	-	-	-	6.81	4.13	1.47	12.95	6.74	4.95	1.45	12.73	6.67	5.77	1.43	12.50	6.65	6.57	1.43	12.44	
		20	-	-	-	-	8.22	4.15	1.77	17.92	8.15	4.97	1.76	17.66	8.07	5.78	1.74	17.37	7.99	6.58	1.72	17.07	
	5	15	2.90	2.90	0.50	1.38	3.70	3.70	0.64	2.08	4.48	4.48	0.77	3.49	5.27	5.27	0.91	5.34	6.08	6.08	1.05	7.25	
		17	3.21	2.89	0.55	1.57	3.71	3.69	0.64	2.09	4.49	4.49	0.77	3.51	5.28	5.28	0.91	5.37	6.09	6.09	1.05	7.28	
		19	-	-	-	-	5.55	3.65	0.95	6.03	5.48	4.48	0.94	5.87	5.45	5.29	0.94	5.80	6.10	6.10	1.05	7.30	
		20	-	-	-	-	6.99	3.68	1.20	9.22	6.92	4.50	1.19	9.06	6.84	5.32	1.18	8.90	6.78	6.12	1.17	8.76	
	6	15	2.48	2.48	0.36	0.97	3.30	3.30	0.47	1.28	4.10	4.10	0.59	1.75	4.87	4.87	0.70	2.70	5.64	5.64	0.81	4.03	
		17	2.50	2.49	0.36	0.97	3.30	3.30	0.47	1.29	4.11	4.11	0.59	1.75	4.88	4.88	0.70	2.72	5.65	5.65	0.81	4.05	
		19	-	-	-	-	4.49	3.27	0.64	2.18	4.48	4.10	0.64	2.16	4.89	4.86	0.70	2.73	5.66	5.66	0.81	4.07	
		20	-	-	-	-	5.73	3.22	0.82	4.21	5.67	4.05	0.81	4.09	5.62	4.86	0.81	3.99	5.68	5.66	0.81	4.10	

(Continued)

MDKA-V850R																							
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																				
			21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
11	3	15	2.89	2.89	0.82	4.20	3.72	3.72	1.06	7.40	4.55	4.55	1.30	10.41	5.36	5.36	1.53	13.79	6.17	6.17	1.76	17.51	
		17	3.18	2.89	0.91	5.40	3.72	3.72	1.06	7.43	4.56	4.56	1.30	10.45	5.37	5.37	1.53	13.84	6.18	6.18	1.76	17.57	
		19	-	-	-	-	5.81	3.75	1.66	15.80	5.74	4.57	1.64	15.50	5.71	5.39	1.63	15.36	6.19	6.19	1.77	17.64	
		20	-	-	-	-	7.21	3.76	2.06	22.92	7.15	4.59	2.04	22.55	7.07	5.40	2.02	22.16	7.00	6.21	2.00	21.79	
	4	15	2.49	2.49	0.53	1.46	3.29	3.29	0.70	2.79	4.08	4.08	0.87	4.97	4.91	4.91	1.05	7.25	5.72	5.72	1.22	9.40	
		17	2.49	2.44	0.53	1.45	3.29	3.29	0.71	2.81	4.09	4.09	0.88	5.00	4.92	4.92	1.05	7.28	5.73	5.73	1.23	9.43	
		19	-	-	-	-	4.52	3.28	0.97	6.25	4.48	4.10	0.96	6.14	4.92	4.90	1.05	7.30	5.74	5.74	1.23	9.47	
		20	-	-	-	-	5.97	3.30	1.28	10.10	5.90	4.13	1.26	9.91	5.83	4.94	1.25	9.73	5.83	5.76	1.25	9.72	
	5	15	2.08	2.08	0.36	0.94	2.90	2.90	0.50	1.32	3.69	3.69	0.64	2.15	4.47	4.47	0.77	3.61	5.27	5.27	0.91	5.44	
		17	2.09	2.09	0.36	0.94	2.90	2.90	0.50	1.32	3.70	3.70	0.64	2.16	4.48	4.48	0.77	3.63	5.28	5.28	0.91	5.47	
		19	-	-	-	-	3.46	2.89	0.59	1.81	3.71	3.67	0.64	2.17	4.49	4.49	0.77	3.65	5.29	5.29	0.91	5.50	
		20	-	-	-	-	4.67	2.84	0.80	4.05	4.62	3.67	0.79	3.94	4.62	4.50	0.80	3.95	5.29	5.29	0.91	5.51	
	6	15	1.67	1.67	0.24	0.61	2.49	2.49	0.36	0.92	3.29	3.29	0.47	1.22	4.09	4.09	0.59	1.76	4.86	4.86	0.70	2.79	
		17	1.67	1.67	0.24	0.62	2.49	2.49	0.36	0.92	3.30	3.30	0.47	1.22	4.10	4.10	0.59	1.77	4.87	4.87	0.70	2.81	
		19	-	-	-	-	2.55	2.52	0.37	0.94	3.31	3.31	0.47	1.23	4.11	4.11	0.59	1.78	4.88	4.88	0.70	2.83	
		20	-	-	-	-	3.58	2.47	0.51	1.36	3.61	3.31	0.52	1.37	4.11	4.08	0.59	1.78	4.88	4.88	0.70	2.83	
13	3	15	2.08	2.08	0.60	1.84	2.88	2.88	0.83	4.42	3.72	3.72	1.07	7.37	4.54	4.54	1.30	10.35	5.34	5.34	1.52	13.49	
		17	2.09	2.09	0.60	1.85	2.89	2.89	0.83	4.44	3.72	3.72	1.07	7.40	4.55	4.55	1.31	10.39	5.35	5.35	1.53	13.54	
		19	-	-	-	-	3.47	2.90	1.00	6.57	3.70	3.61	1.06	7.31	4.56	4.56	1.31	10.43	5.37	5.37	1.53	13.59	
		20	-	-	-	-	4.89	2.92	1.41	11.76	4.83	3.75	1.39	11.51	4.81	4.57	1.38	11.42	5.37	5.37	1.53	13.62	
	4	15	1.67	1.67	0.36	0.91	2.49	2.49	0.54	1.45	3.28	3.28	0.71	2.93	4.08	4.08	0.88	5.12	4.89	4.89	1.05	7.11	
		17	1.67	1.67	0.36	0.91	2.49	2.49	0.54	1.45	3.28	3.28	0.71	2.94	4.08	4.08	0.87	5.06	4.90	4.90	1.05	7.13	
		19	-	-	-	-	2.51	2.48	0.54	1.47	3.29	3.29	0.71	2.96	4.09	4.09	0.88	5.08	4.92	4.92	1.05	7.16	
		20	-	-	-	-	3.54	2.45	0.76	3.61	3.53	3.29	0.76	3.58	4.09	4.09	0.88	5.09	4.92	4.92	1.05	7.18	
	5	15	1.25	1.25	0.22	0.53	2.07	2.07	0.36	0.88	2.89	2.89	0.50	1.26	3.67	3.67	0.63	2.18	4.45	4.45	0.76	3.66	
		17	1.26	1.26	0.22	0.53	2.08	2.08	0.36	0.89	2.89	2.89	0.50	1.26	3.68	3.68	0.63	2.19	4.46	4.46	0.77	3.68	
		19	-	-	-	-	2.08	2.07	0.36	0.89	2.90	2.90	0.50	1.27	3.69	3.69	0.63	2.20	4.47	4.47	0.77	3.71	
		20	-	-	-	-	2.43	2.07	0.42	1.04	2.90	2.88	0.50	1.27	3.69	3.69	0.63	2.21	4.48	4.48	0.77	3.72	
	6	15	0.85	0.85	0.12	0.29	1.67	1.67	0.24	0.58	2.48	2.48	0.35	0.87	3.29	3.29	0.47	1.16	4.07	4.07	0.58	1.78	
		17	0.85	0.85	0.12	0.29	1.67	1.67	0.24	0.58	2.49	2.49	0.36	0.87	3.29	3.29	0.47	1.16	4.08	4.08	0.58	1.79	
		19	-	-	-	-	1.67	1.67	0.24	0.58	2.49	2.49	0.36	0.87	3.30	3.30	0.47	1.17	4.09	4.09	0.58	1.80	
		20	-	-	-	-	1.70	1.69	0.24	0.59	2.49	2.49	0.36	0.87	3.30	3.30	0.47	1.17	4.09	4.09	0.59	1.81	
15	3	15	1.25	1.25	0.36	0.87	2.07	2.07	0.59	1.84	2.87	2.87	0.82	4.41	3.70	3.70	1.06	7.13	4.52	4.52	1.29	10.01	
		17	1.25	1.25	0.36	0.88	2.07	2.07	0.59	1.85	2.88	2.88	0.82	4.43	3.71	3.71	1.06	7.16	4.53	4.53	1.29	10.05	
		19	-	-	-	-	2.08	2.08	0.59	1.86	2.88	2.88	0.82	4.45	3.72	3.72	1.06	7.19	4.54	4.54	1.30	10.08	
		20	-	-	-	-	2.39	2.06	0.68	2.74	2.88	2.85	0.82	4.45	3.72	3.72	1.06	7.20	4.55	4.55	1.30	10.10	
	4	15	0.84	0.84	0.18	0.43	1.67	1.67	0.36	0.86	2.48	2.48	0.53	1.43	3.26	3.26	0.70	2.97	4.07	4.07	0.87	5.08	
		17	0.84	0.84	0.18	0.43	1.67	1.67	0.36	0.86	2.49	2.49	0.53	1.43	3.27	3.27	0.70	2.98	4.08	4.08	0.87	5.10	
		19	-	-	-	-	1.67	1.67	0.36	0.86	2.49	2.49	0.53	1.44	3.28	3.28	0.70	3.00	4.09	4.09	0.88	5.12	
		20	-	-	-	-	1.67	1.62	0.36	0.86	2.49	2.49	0.53	1.44	3.28	3.28	0.70	3.01	4.09	4.09	0.88	5.13	
	5	15	0.43	0.43	0.07	0.17	1.26	1.26	0.22	0.51	2.08	2.08	0.36	0.85	2.89	2.89	0.50	1.25	3.66	3.66	0.63	2.27	
		17	0.43	0.43	0.07	0.17	1.26	1.26	0.22	0.51	2.08	2.08	0.36	0.85	2.89	2.89	0.50	1.25	3.67	3.67	0.63	2.29	
		19	-	-	-	-	1.27	1.27	0.22	0.51	2.09	2.09	0.36	0.85	2.90	2.90	0.50	1.26	3.68	3.68	0.63	2.30	
		20	-	-	-	-	1.27	1.27	0.22	0.51	2.09	2.09	0.36	0.85	2.90	2.90	0.50	1.26	3.68	3.68	0.63	2.31	
	6	15	-	-	-	-	0.85	0.85	0.12	0.28	1.67	1.67	0.24	0.56	2.48	2.48	0.36	0.83	3.28	3.28	0.47	1.13	
		17	-	-	-	-	0.85	0.85	0.12	0.28	1.67	1.67	0.24	0.56	2.48	2.48	0.36	0.83	3.29	3.29	0.47	1.14	
		19	-	-	-	-	0.85	0.85	0.12	0.28	1.68	1.68	0.24	0.56	2.49	2.49	0.36	0.83	3.30	3.30	0.47	1.14	
		20	-	-	-	-	0.85	0.85	0.12	0.28	1.68	1.68	0.24	0.56	2.49	2.49	0.36	0.83	3.30	3.30	0.47	1.14	

Abbreviations:

EWT: Enter Water Temp. (°C)	Δt: Temperature Difference (°C)	DB: Dry Bulb Temp. (°C)	WF: Water Flow (m³/h)
WB: Wet Bulb Temp. (°C)	TC: Total Cooling Capacity (kW)	SC: Sensible Cooling Capacity (kW)	WPD: Water Pressure Drop (kPa)

Cooling Capacity

MDKA-V950R																							
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																				
			21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
5	3	15	7.01	5.57	2.02	23.27	6.94	6.41	2.00	22.87	7.24	7.24	2.08	24.56	8.05	8.05	2.30	29.15	8.87	8.87	2.54	34.42	
		17	9.51	5.58	2.72	38.83	9.44	6.42	2.70	38.34	9.37	7.25	2.68	37.86	9.29	8.07	2.66	37.33	9.21	8.88	2.63	36.77	
		19	-	-	-	-	12.12	6.44	3.47	59.20	12.04	7.27	3.45	58.49	11.96	8.10	3.43	57.81	11.88	8.91	3.40	57.12	
		20	-	-	-	-	13.56	6.46	3.92	72.97	13.45	7.29	3.86	71.01	13.36	8.11	3.83	70.17	13.27	8.93	3.80	69.34	
	4	15	5.87	5.05	1.26	10.36	5.88	5.84	1.26	10.38	6.74	6.74	1.44	13.09	7.57	7.57	1.62	15.96	8.40	8.40	1.81	19.21	
		17	8.45	5.10	1.82	19.43	8.39	5.94	1.81	19.18	8.32	6.78	1.79	18.90	8.24	7.60	1.78	18.61	8.40	8.36	1.81	19.22	
		19	-	-	-	-	11.06	5.96	2.37	30.54	10.98	6.79	2.36	30.16	10.90	7.62	2.34	29.79	10.83	8.43	2.32	29.43	
		20	-	-	-	-	12.49	5.97	2.68	37.64	12.40	6.81	2.66	37.19	12.32	7.63	2.64	36.75	12.23	8.45	2.62	36.31	
	5	15	4.85	4.60	0.83	3.95	5.42	5.42	0.93	5.35	6.24	6.24	1.07	7.56	7.08	7.08	1.21	9.69	7.91	7.91	1.36	11.70	
		17	7.29	4.58	1.25	10.19	7.22	5.43	1.24	10.04	7.15	6.27	1.23	9.86	7.12	7.10	1.22	9.78	7.92	7.92	1.36	11.74	
		19	-	-	-	-	9.99	5.48	1.72	17.52	9.91	6.32	1.71	17.30	9.84	7.15	1.69	17.08	9.76	7.97	1.68	16.85	
		20	-	-	-	-	11.39	5.48	1.95	21.78	11.31	6.32	1.94	21.51	11.23	7.16	1.93	21.26	11.15	7.98	1.91	21.00	
	6	15	4.21	4.18	0.60	1.87	5.02	5.02	0.72	2.69	5.81	5.81	0.83	4.00	6.61	6.61	0.95	5.66	7.42	7.42	1.06	7.48	
		17	6.17	4.11	0.88	4.72	6.11	4.97	0.87	4.59	6.07	5.81	0.87	4.50	6.62	6.62	0.95	5.69	7.44	7.44	1.07	7.51	
		19	-	-	-	-	8.80	4.98	1.26	10.27	8.73	5.82	1.25	10.13	8.65	6.65	1.24	9.99	8.57	7.47	1.23	9.82	
		20	-	-	-	-	10.26	5.00	1.47	13.38	10.19	5.85	1.46	13.21	10.11	6.68	1.45	13.04	10.04	7.50	1.44	12.88	
7	3	15	5.05	4.69	1.45	12.97	5.55	5.55	1.60	15.45	6.39	6.39	1.84	19.63	7.21	7.21	2.07	23.85	8.04	8.04	2.32	29.13	
		17	7.59	4.71	2.18	26.04	7.53	5.56	2.16	25.68	7.45	6.40	2.14	25.24	7.39	7.22	2.12	24.92	8.05	8.05	2.33	29.22	
		19	-	-	-	-	10.21	5.58	2.93	43.53	10.14	6.42	2.91	42.98	10.06	7.25	2.89	42.41	9.99	8.07	2.87	41.86	
		20	-	-	-	-	11.64	5.59	3.35	54.63	11.55	6.43	3.32	53.95	11.47	7.26	3.30	53.28	11.39	8.08	3.28	52.64	
	4	15	4.19	4.15	0.90	5.05	5.05	5.05	1.09	7.87	5.90	5.90	1.27	10.36	6.74	6.74	1.46	13.05	7.56	7.56	1.63	15.88	
		17	6.46	4.23	1.39	12.13	6.39	5.08	1.38	11.91	6.33	5.92	1.37	11.72	6.75	6.75	1.46	13.09	7.58	7.58	1.64	15.93	
		19	-	-	-	-	9.09	5.10	1.96	21.55	9.02	5.94	1.94	21.28	8.95	6.77	1.92	20.98	8.87	7.59	1.91	20.65	
		20	-	-	-	-	10.52	5.11	2.26	27.70	10.45	5.96	2.25	27.35	10.37	6.79	2.23	27.01	10.29	7.61	2.21	26.67	
	5	15	3.80	3.80	0.66	2.18	4.60	4.60	0.79	3.59	5.41	5.41	0.93	5.54	6.24	6.24	1.07	7.67	7.08	7.08	1.22	9.57	
		17	5.23	3.73	0.90	5.06	5.17	4.59	0.89	4.92	5.41	5.36	0.93	5.53	6.25	6.25	1.08	7.70	7.09	7.09	1.22	9.61	
		19	-	-	-	-	7.91	4.61	1.36	11.56	7.84	5.46	1.35	11.39	7.84	6.63	1.43	22.00	7.69	7.11	1.32	11.03	
		20	-	-	-	-	9.36	4.63	1.61	15.43	9.29	5.48	1.60	15.22	9.22	6.31	1.59	15.01	9.14	7.14	1.57	14.78	
	6	15	3.38	3.38	0.49	1.40	4.21	4.21	0.61	1.85	5.01	5.01	0.72	2.82	5.80	5.80	0.83	4.20	6.60	6.60	0.95	5.81	
		17	4.27	3.36	0.61	1.90	4.33	4.23	0.62	1.95	5.02	5.02	0.72	2.83	5.81	5.81	0.84	4.22	6.61	6.61	0.95	5.84	
		19	-	-	-	-	6.64	4.11	0.95	5.90	6.57	4.96	0.94	5.75	6.50	5.80	0.93	5.61	6.59	6.53	0.94	5.80	
		20	-	-	-	-	8.10	4.13	1.16	8.79	8.04	4.98	1.15	8.66	7.96	5.82	1.14	8.52	7.88	6.65	1.13	8.37	
9	3	15	3.82	3.82	1.10	7.97	4.68	4.68	1.34	11.26	5.53	5.53	1.59	14.98	6.36	6.36	1.83	18.98	7.19	7.19	2.06	23.39	
		17	5.52	3.85	1.59	14.91	5.45	4.70	1.57	14.59	5.52	5.47	1.59	14.91	6.38	6.38	1.83	19.04	7.20	7.20	2.07	23.47	
		19	-	-	-	-	8.19	4.73	2.37	29.67	8.13	5.57	2.35	29.27	8.05	6.41	2.33	28.81	7.98	7.23	2.31	28.33	
		20	-	-	-	-	9.59	4.73	2.76	38.50	9.52	5.57	2.74	37.99	9.45	6.41	2.72	37.50	9.37	7.23	2.69	36.98	
	4	15	3.38	3.38	0.73	2.97	4.19	4.19	0.90	5.21	5.04	5.04	1.08	7.78	5.89	5.89	1.27	10.13	6.72	6.72	1.45	12.68	
		17	4.23	3.34	0.91	5.35	4.24	4.20	0.91	5.37	5.05	5.05	1.09	7.80	5.90	5.90	1.27	10.16	6.73	6.73	1.45	12.72	
		19	-	-	-	-	7.00	4.25	1.51	13.69	6.92	5.10	1.50	13.46	6.83	5.92	1.47	13.01	6.82	6.76	1.47	12.98	
		20	-	-	-	-	8.42	4.26	1.82	18.69	8.35	5.11	1.80	18.44	8.28	5.94	1.79	18.17	8.20	6.77	1.77	17.85	
	5	15	2.97	2.97	0.51	1.42	3.79	3.79	0.65	2.21	4.59	4.59	0.79	3.72	5.40	5.40	0.93	5.67	6.24	6.24	1.07	7.61	
		17	3.26	2.96	0.56	1.61	3.79	3.78	0.65	2.22	4.60	4.60	0.79	3.74	5.41	5.41	0.93	5.70	6.25	6.25	1.08	7.63	
		19	-	-	-	-	5.65	3.74	0.97	6.28	5.58	4.59	0.96	6.11	5.56	5.43	0.96	6.06	6.27	6.27	1.08	7.66	
		20	-	-	-	-	7.14	3.77	1.23	9.56	7.07	4.62	1.22	9.41	7.00	5.46	1.20	9.24	6.93	6.28	1.19	9.09	
	6	15	2.54	2.54	0.36	0.99	3.38	3.38	0.48	1.32	4.20	4.20	0.60	1.84	4.99	4.99	0.72	2.88	5.78	5.78	0.83	4.30	
		17	2.56	2.55	0.37	1.00	3.38	3.38	0.49	1.32	4.21	4.21	0.60	1.85	5.00	5.00	0.72	2.90	5.79	5.79	0.83	4.32	
		19	-	-	-	-	4.55	3.34	0.65	2.26	4.55	4.19	0.65	2.24	5.01	4.99	0.72	2.91	5.81	5.81	0.83	4.34	
		20	-	-	-	-	5.82	3.28	0.83	4.38	5.76	4.14	0.83	4.25	5.70	4.98	0.82	4.15	5.81	5.77	0.83	4.34	

MDKA-V950R																							
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																				
			21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
11	3	15	2.96	2.96	0.84	4.48	3.82	3.82	1.09	7.74	4.67	4.67	1.33	10.91	5.52	5.52	1.58	14.58	6.35	6.35	1.81	18.39	
		17	3.24	2.96	0.92	5.62	3.82	3.82	1.09	7.77	4.68	4.68	1.33	10.95	5.53	5.53	1.58	14.62	6.36	6.36	1.81	18.45	
		19	-	-	-	-	5.95	3.85	1.70	16.49	5.88	4.70	1.68	16.16	5.84	5.54	1.67	15.95	6.37	6.37	1.82	18.52	
		20	-	-	-	-	7.40	3.86	2.11	23.95	7.33	4.71	2.09	23.58	7.26	5.55	2.07	23.17	7.18	6.38	2.05	22.77	
	4	15	2.55	2.55	0.55	1.51	3.37	3.37	0.72	2.98	4.19	4.19	0.90	5.28	5.04	5.04	1.08	7.59	5.88	5.88	1.26	9.86	
		17	2.55	2.51	0.55	1.51	3.37	3.37	0.72	2.99	4.20	4.20	0.90	5.31	5.05	5.05	1.08	7.62	5.89	5.89	1.26	9.89	
		19	-	-	-	-	4.61	3.36	0.99	6.49	4.57	4.21	0.98	6.38	5.06	5.04	1.08	7.64	5.90	5.90	1.26	9.93	
		20	-	-	-	-	6.10	3.38	1.31	10.50	6.03	4.23	1.29	10.30	5.97	5.08	1.28	10.10	5.98	5.92	1.28	10.14	
	5	15	2.13	2.13	0.37	0.96	2.97	2.97	0.51	1.36	3.78	3.78	0.65	2.29	4.58	4.58	0.79	3.86	5.41	5.41	0.93	5.76	
		17	2.14	2.14	0.37	0.96	2.98	2.98	0.51	1.36	3.79	3.79	0.65	2.30	4.59	4.59	0.79	3.88	5.42	5.42	0.93	5.79	
		19	-	-	-	-	3.51	2.96	0.60	1.87	3.80	3.76	0.65	2.31	4.60	4.60	0.79	3.90	5.43	5.43	0.93	5.81	
		20	-	-	-	-	4.74	2.90	0.82	4.22	4.69	3.76	0.81	4.09	4.70	4.61	0.81	4.13	5.43	5.43	0.94	5.83	
	6	15	1.71	1.71	0.24	0.63	2.54	2.54	0.37	0.94	3.38	3.38	0.48	1.26	4.19	4.19	0.60	1.87	4.98	4.98	0.71	2.98	
		17	1.71	1.71	0.25	0.63	2.55	2.55	0.37	0.94	3.38	3.38	0.49	1.26	4.20	4.20	0.60	1.88	4.99	4.99	0.72	3.00	
		19	-	-	-	-	2.61	2.58	0.37	0.96	3.39	3.39	0.49	1.26	4.21	4.21	0.60	1.89	5.00	5.00	0.72	3.02	
		20	-	-	-	-	3.63	2.52	0.52	1.39	3.67	3.39	0.53	1.41	4.21	4.19	0.60	1.89	5.00	5.00	0.72	3.03	
13	3	15	2.13	2.13	0.61	1.96	2.96	2.96	0.85	4.70	3.82	3.82	1.10	7.72	4.67	4.67	1.34	10.85	5.50	5.50	1.57	14.17	
		17	2.14	2.14	0.61	1.97	2.96	2.96	0.85	4.72	3.83	3.83	1.10	7.75	4.68	4.68	1.34	10.89	5.51	5.51	1.57	14.22	
		19	-	-	-	-	3.54	2.97	1.02	6.80	3.80	3.72	1.09	7.66	4.69	4.69	1.35	10.93	5.52	5.52	1.57	14.27	
		20	-	-	-	-	5.01	2.99	1.44	12.25	4.95	3.85	1.42	11.98	4.93	4.69	1.42	11.89	5.53	5.52	1.58	14.30	
	4	15	1.71	1.71	0.37	0.93	2.55	2.55	0.55	1.52	3.36	3.36	0.72	3.12	4.18	4.18	0.90	5.33	5.03	5.03	1.08	7.45	
		17	1.71	1.71	0.37	0.93	2.56	2.56	0.55	1.52	3.36	3.36	0.72	3.14	4.19	4.19	0.90	5.36	5.04	5.04	1.08	7.48	
		19	-	-	-	-	2.57	2.54	0.55	1.54	3.37	3.37	0.73	3.16	4.20	4.20	0.90	5.38	5.05	5.05	1.08	7.50	
		20	-	-	-	-	3.59	2.51	0.77	3.75	3.59	3.37	0.77	3.73	4.20	4.20	0.90	5.39	5.06	5.06	1.08	7.52	
	5	15	1.28	1.28	0.22	0.55	2.12	2.12	0.36	0.91	2.96	2.96	0.51	1.31	3.76	3.76	0.65	2.32	4.57	4.57	0.78	3.91	
		17	1.29	1.29	0.22	0.55	2.13	2.13	0.36	0.91	2.97	2.97	0.51	1.31	3.77	3.77	0.65	2.34	4.58	4.58	0.78	3.93	
		19	-	-	-	-	2.13	2.13	0.37	0.91	2.97	2.97	0.51	1.32	3.78	3.78	0.65	2.35	4.59	4.59	0.79	3.95	
		20	-	-	-	-	2.47	2.12	0.42	1.05	2.97	2.95	0.51	1.32	3.78	3.78	0.65	2.36	4.59	4.59	0.79	3.96	
	6	15	0.86	0.86	0.12	0.30	1.71	1.71	0.24	0.60	2.54	2.54	0.36	0.89	3.37	3.37	0.48	1.20	4.17	4.17	0.60	1.90	
		17	0.87	0.87	0.12	0.30	1.71	1.71	0.24	0.60	2.55	2.55	0.36	0.89	3.38	3.38	0.48	1.21	4.18	4.18	0.60	1.91	
		19	-	-	-	-	1.71	1.71	0.25	0.60	2.55	2.55	0.37	0.89	3.38	3.38	0.48	1.21	4.19	4.19	0.60	1.92	
		20	-	-	-	-	1.73	1.73	0.25	0.61	2.55	2.55	0.37	0.89	3.39	3.39	0.48	1.21	4.19	4.19	0.60	1.93	
15	3	15	1.28	1.28	0.37	0.90	2.12	2.12	0.60	1.96	2.95	2.95	0.84	4.68	3.81	3.81	1.09	7.47	4.65	4.65	1.33	10.51	
		17	1.29	1.29	0.37	0.90	2.12	2.12	0.61	1.97	2.95	2.95	0.84	4.70	3.81	3.81	1.09	7.50	4.66	4.66	1.33	10.54	
		19	-	-	-	-	2.13	2.13	0.61	1.99	2.96	2.96	0.84	4.72	3.82	3.82	1.09	7.53	4.67	4.67	1.33	10.58	
		20	-	-	-	-	2.43	2.11	0.69	2.84	2.96	2.93	0.84	4.72	3.83	3.83	1.09	7.54	4.68	4.68	1.33	10.60	
	4	15	0.73	0.73	0.06	0.14	1.71	1.71	0.37	0.88	2.54	2.54	0.54	1.51	3.35	3.35	0.72	3.17	4.18	4.18	0.90	5.35	
		17	0.86	0.86	0.19	0.44	1.71	1.71	0.37	0.88	2.55	2.55	0.55	1.52	3.35	3.35	0.72	3.19	4.19	4.19	0.90	5.37	
		19	-	-	-	-	1.71	1.71	0.37	0.88	2.55	2.55	0.55	1.53	3.36	3.36	0.72	3.20	4.20	4.20	0.90	5.39	
		20	-	-	-	-	1.71	1.67	0.37	0.88	2.56	2.56	0.55	1.53	3.36	3.36	0.72	3.21	4.20	4.20	0.90	5.40	
	5	15	0.44	0.44	0.08	0.18	1.29	1.29	0.22	0.52	2.13	2.13	0.37	0.87	2.96	2.96	0.51	1.31	3.76	3.76	0.65	2.43	
		17	0.44	0.44	0.08	0.18	1.29	1.29	0.22	0.53	2.13	2.13	0.37	0.87	2.97	2.97	0.51	1.32	3.76	3.76	0.65	2.44	
		19	-	-	-	-	1.30	1.30	0.22	0.53	2.14	2.14	0.37	0.87	2.97	2.97	0.51	1.32	3.77	3.77	0.65	2.46	
		20	-	-	-	-	1.30	1.30	0.22	0.53	2.14	2.14	0.37	0.87	2.98	2.98	0.51	1.33	3.78	3.78	0.65	2.47	
	6	15	-	-	-	-	0.87	0.87	0.12	0.29	1.71	1.71	0.25	0.57	2.54	2.54	0.37	0.85	3.37	3.37	0.48	1.18	
		17	-	-	-	-	0.87	0.87	0.12	0.29	1.71	1.71	0.25	0.57	2.55	2.55	0.37	0.85	3.37	3.37	0.48	1.19	
		19	-	-	-	-	0.87	0.87	0.13	0.29	1.72	1.72	0.25	0.57	2.55	2.55	0.37	0.85	3.38	3.38	0.49	1.19	
		20	-	-	-	-	0.87	0.87	0.13	0.29	1.72	1.72	0.25	0.57	2.56	2.56	0.37	0.85	3.39	3.39	0.49	1.20	

Abbreviations:

EWT: Enter Water Temp. ($^{\circ}\text{C}$)	Δt : Temperature Difference ($^{\circ}\text{C}$)	DB: Dry Bulb Temp. ($^{\circ}\text{C}$)	WF: Water Flow (m ³ /h)
WB: Wet Bulb Temp. ($^{\circ}\text{C}$)	TC: Total Cooling Capacity (kW)	SC: Sensible Cooling Capacity (kW)	WPD: Water Pressure Drop (kPa)

Cooling Capacity

MDKA-V1200R																							
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																				
			21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
5	3	15	7.24	5.74	2.08	24.58	7.17	6.61	2.06	24.16	7.46	7.46	2.15	25.90	8.30	8.30	2.37	30.76	9.14	9.14	2.62	36.30	
		17	9.82	5.76	2.82	41.33	9.75	6.63	2.80	40.82	9.68	7.48	2.77	40.15	9.59	8.33	2.75	39.47	9.51	9.16	2.72	38.82	
		19	-	-	-	-	12.53	6.65	3.62	63.47	12.44	7.51	3.59	62.71	12.33	8.35	3.53	60.80	12.25	9.19	3.51	60.30	
		20	-	-	-	-	13.99	6.66	4.04	77.03	13.90	7.52	4.01	76.13	13.80	8.37	3.99	75.21	13.71	9.22	3.96	74.36	
	4	15	6.07	5.21	1.30	10.96	6.07	6.05	1.30	10.97	6.96	6.96	1.49	13.81	7.82	7.82	1.69	17.02	8.66	8.66	1.87	20.26	
		17	8.73	5.26	1.88	20.51	8.66	6.13	1.87	20.25	8.59	6.99	1.85	19.96	8.51	7.84	1.83	19.65	8.66	8.62	1.87	20.27	
		19	-	-	-	-	11.42	6.15	2.45	32.25	11.34	7.01	2.43	31.85	11.26	7.86	2.41	31.47	11.18	8.70	2.40	31.08	
		20	-	-	-	-	12.89	6.16	2.77	39.77	12.81	7.03	2.76	39.51	12.72	7.88	2.74	39.06	12.62	8.72	2.71	38.34	
	5	15	4.99	4.74	0.86	4.28	5.58	5.58	0.96	5.76	6.44	6.44	1.10	8.11	7.31	7.31	1.25	10.24	8.16	8.16	1.40	12.35	
		17	7.54	4.74	1.29	10.79	7.47	5.61	1.28	10.63	7.39	6.47	1.27	10.44	7.36	7.33	1.26	10.36	8.18	8.18	1.40	12.39	
		19	-	-	-	-	10.31	5.66	1.78	18.51	10.23	6.52	1.76	18.28	10.16	7.38	1.75	18.05	10.08	8.22	1.74	17.81	
		20	-	-	-	-	11.76	5.66	2.02	23.01	11.68	6.53	2.00	22.73	11.59	7.38	1.99	22.45	11.51	8.23	1.98	22.18	
	6	15	4.34	4.32	0.62	1.96	5.17	5.17	0.74	2.91	5.99	5.99	0.86	4.34	6.82	6.82	0.98	6.12	7.66	7.66	1.10	8.00	
		17	6.37	4.24	0.91	5.12	6.30	5.12	0.90	4.99	6.26	5.99	0.90	4.89	6.83	6.83	0.98	6.15	7.68	7.68	1.10	8.03	
		19	-	-	-	-	9.10	5.14	1.30	10.87	9.03	6.01	1.29	10.73	8.95	6.87	1.28	10.57	8.86	7.71	1.27	10.40	
		20	-	-	-	-	10.60	5.17	1.52	14.14	10.53	6.04	1.51	13.96	10.45	6.90	1.50	13.79	10.37	7.75	1.49	13.61	
7	3	15	5.22	4.84	1.49	13.72	5.73	5.73	1.65	16.28	6.59	6.59	1.90	20.71	7.44	7.44	2.13	25.16	8.29	8.29	2.40	30.72	
		17	7.83	4.86	2.25	27.50	7.77	5.74	2.23	27.11	7.69	6.60	2.21	26.66	7.64	7.45	2.19	26.32	8.31	8.31	2.40	30.82	
		19	-	-	-	-	10.54	5.76	3.03	45.95	10.46	6.62	3.01	45.37	10.38	7.48	2.98	44.80	10.31	8.32	2.96	44.22	
		20	-	-	-	-	12.01	5.77	3.47	58.13	11.93	6.64	3.44	57.43	11.85	7.49	3.42	56.72	11.75	8.34	3.38	55.59	
	4	15	4.32	4.28	0.93	5.48	5.21	5.21	1.12	8.37	6.09	6.09	1.31	10.93	6.96	6.96	1.50	13.77	7.79	7.79	1.68	16.56	
		17	6.67	4.37	1.44	12.82	6.60	5.24	1.43	12.59	6.54	6.11	1.41	12.39	6.97	6.97	1.51	13.81	7.81	7.81	1.68	16.62	
		19	-	-	-	-	9.39	5.26	2.02	22.77	9.32	6.13	2.00	22.47	9.24	6.99	1.99	22.17	9.16	7.84	1.97	21.82	
		20	-	-	-	-	10.89	5.29	2.35	29.64	10.81	6.16	2.34	29.27	10.70	7.00	2.30	28.53	10.63	7.85	2.29	28.17	
	5	15	3.92	3.92	0.68	2.34	4.74	4.74	0.82	3.90	5.58	5.58	0.96	5.98	6.45	6.45	1.11	8.14	7.31	7.31	1.26	10.10	
		17	5.39	3.85	0.93	5.49	5.34	4.73	0.92	5.34	5.58	5.53	0.96	5.97	6.46	6.46	1.11	8.17	7.32	7.32	1.26	10.14	
		19	-	-	-	-	8.17	4.76	1.41	12.22	8.11	5.63	1.39	12.05	7.87	6.68	1.44	22.30	7.95	7.34	1.37	11.66	
		20	-	-	-	-	9.67	4.79	1.67	16.32	9.60	5.66	1.65	16.11	9.52	6.52	1.64	15.90	9.44	7.37	1.63	15.67	
	6	15	3.49	3.49	0.50	1.44	4.34	4.34	0.62	1.97	5.16	5.16	0.74	3.06	5.97	5.97	0.86	4.50	6.81	6.81	0.98	6.26	
		17	4.40	3.46	0.63	2.03	4.46	4.36	0.64	2.09	5.17	5.17	0.74	3.07	5.98	5.98	0.86	4.52	6.82	6.82	0.98	6.28	
		19	-	-	-	-	6.86	4.25	0.98	6.37	6.79	5.12	0.97	6.22	6.72	5.98	0.96	6.07	6.81	6.75	0.98	6.25	
		20	-	-	-	-	8.38	4.27	1.20	9.31	8.31	5.15	1.19	9.18	8.24	6.01	1.18	9.03	8.15	6.86	1.17	8.88	
9	3	15	3.95	3.95	1.13	8.42	4.83	4.83	1.39	11.87	5.71	5.71	1.64	15.86	6.56	6.56	1.88	20.02	7.41	7.41	2.13	24.68	
		17	5.70	3.97	1.64	15.84	5.64	4.85	1.62	15.50	5.70	5.66	1.64	15.81	6.58	6.58	1.89	20.09	7.43	7.43	2.13	24.76	
		19	-	-	-	-	8.45	4.88	2.45	31.33	8.39	5.75	2.43	30.90	8.31	6.61	2.40	30.41	8.23	7.46	2.38	29.91	
		20	-	-	-	-	9.90	4.88	2.85	40.65	9.82	5.75	2.82	40.12	9.75	6.61	2.80	39.60	9.67	7.46	2.78	39.05	
	4	15	3.48	3.48	0.75	3.22	4.32	4.32	0.93	5.63	5.21	5.21	1.12	8.22	6.08	6.08	1.31	10.69	6.95	6.95	1.50	13.53	
		17	4.38	3.45	0.94	5.80	4.38	4.34	0.94	5.82	5.22	5.22	1.12	8.25	6.09	6.09	1.31	10.72	6.96	6.96	1.51	13.57	
		19	-	-	-	-	7.20	4.38	1.55	14.24	7.14	5.25	1.54	14.10	7.07	6.12	1.53	13.92	7.06	6.98	1.53	13.90	
		20	-	-	-	-	8.69	4.39	1.88	19.74	8.62	5.27	1.86	19.48	8.55	6.13	1.84	19.19	8.46	6.98	1.83	18.88	
	5	15	3.06	3.06	0.53	1.47	3.90	3.90	0.67	2.39	4.73	4.73	0.81	4.04	5.58	5.58	0.96	6.10	6.44	6.44	1.11	8.04	
		17	3.37	3.05	0.58	1.70	3.91	3.90	0.67	2.40	4.74	4.74	0.82	4.06	5.59	5.59	0.96	6.13	6.46	6.46	1.11	8.07	
		19	-	-	-	-	5.85	3.86	1.01	6.74	5.78	4.74	0.99	6.57	5.75	5.60	0.99	6.52	6.47	6.47	1.11	8.10	
		20	-	-	-	-	7.38	3.89	1.27	10.12	7.31	4.77	1.26	9.95	7.23	5.63	1.25	9.78	7.16	6.49	1.23	9.62	
	6	15	2.62	2.62	0.38	1.02	3.48	3.48	0.50	1.36	4.33	4.33	0.62	1.97	5.14	5.14	0.74	3.13	5.96	5.96	0.86	4.66	
		17	2.64	2.63	0.38	1.03	3.49	3.49	0.50	1.36	4.34	4.34	0.62	1.98	5.15	5.15	0.74	3.15	5.98	5.98	0.86	4.68	
		19	-	-	-	-	4.69	3.44	0.67	2.44	4.68	4.32	0.67	2.42	5.16	5.14	0.74	3.16	5.99	5.99	0.86	4.70	
		20	-	-	-	-	6.01	3.38	0.86	4.75	5.94	4.27	0.85	4.61	5.89	5.14	0.84	4.50	5.99	5.96	0.86	4.71	

(Continued):

MDKA-V1200R																							
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																				
			21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
11	3	15	3.05	3.05	0.87	4.85	3.94	3.94	1.12	8.17	4.82	4.82	1.37	11.51	5.69	5.69	1.63	15.35	6.55	6.55	1.87	19.40	
		17	3.35	3.05	0.95	6.06	3.95	3.95	1.13	8.19	4.83	4.83	1.38	11.55	5.70	5.70	1.63	15.36	6.56	6.56	1.87	19.47	
		19	-	-	-	-	6.15	3.97	1.75	17.42	6.08	4.85	1.73	17.09	6.03	5.71	1.72	16.87	6.57	6.57	1.88	19.54	
		20	-	-	-	-	7.63	3.99	2.18	25.29	7.57	4.86	2.16	24.90	7.49	5.73	2.14	24.47	7.42	6.58	2.12	24.06	
	4	15	2.63	2.63	0.56	1.60	3.47	3.47	0.74	3.23	4.32	4.32	0.93	5.68	5.20	5.20	1.11	8.01	6.07	6.07	1.30	10.40	
		17	2.63	2.59	0.56	1.60	3.47	3.47	0.74	3.25	4.33	4.33	0.93	5.70	5.21	5.21	1.12	8.04	6.08	6.08	1.30	10.43	
		19	-	-	-	-	4.77	3.47	1.02	6.92	4.73	4.35	1.01	6.81	5.22	5.20	1.12	8.06	6.09	6.09	1.30	10.47	
		20	-	-	-	-	6.31	3.49	1.35	11.11	6.24	4.37	1.34	10.89	6.17	5.24	1.32	10.69	6.18	6.11	1.32	10.73	
	5	15	2.20	2.20	0.38	0.99	3.06	3.06	0.53	1.42	3.90	3.90	0.67	2.48	4.73	4.73	0.81	4.18	5.58	5.58	0.96	6.15	
		17	2.20	2.20	0.38	1.00	3.07	3.07	0.53	1.43	3.91	3.91	0.67	2.50	4.74	4.74	0.82	4.20	5.59	5.59	0.96	6.17	
		19	-	-	-	-	3.61	3.05	0.62	2.02	3.91	3.88	0.67	2.51	4.75	4.75	0.82	4.23	5.61	5.61	0.97	6.20	
		20	-	-	-	-	4.89	2.99	0.84	4.57	4.84	3.87	0.83	4.44	4.86	4.76	0.84	4.49	5.61	5.61	0.97	6.21	
	6	15	1.76	1.76	0.25	0.65	2.63	2.63	0.38	0.97	3.48	3.48	0.50	1.31	4.32	4.32	0.62	2.03	5.13	5.13	0.74	3.24	
		17	1.77	1.77	0.25	0.65	2.63	2.63	0.38	0.97	3.49	3.49	0.50	1.31	4.33	4.33	0.62	2.04	5.14	5.14	0.74	3.26	
		19	-	-	-	-	2.70	2.66	0.39	1.00	3.50	3.50	0.50	1.31	4.33	4.33	0.62	2.05	5.15	5.15	0.74	3.28	
		20	-	-	-	-	3.75	2.60	0.54	1.47	3.79	3.50	0.54	1.49	4.34	4.32	0.62	2.05	5.16	5.16	0.74	3.29	
13	3	15	2.20	2.20	0.63	2.12	3.05	3.05	0.88	5.06	3.94	3.94	1.13	8.14	4.82	4.82	1.38	11.45	5.68	5.68	1.63	15.18	
		17	2.20	2.20	0.63	2.13	3.06	3.06	0.88	5.09	3.95	3.95	1.13	8.17	4.83	4.83	1.39	11.49	5.69	5.69	1.64	15.23	
		19	-	-	-	-	3.67	3.07	1.05	7.21	3.92	3.84	1.13	8.08	4.84	4.84	1.39	11.53	5.70	5.70	1.64	15.29	
		20	-	-	-	-	5.15	3.08	1.47	12.66	5.11	3.97	1.47	12.67	5.09	4.84	1.46	12.58	5.71	5.71	1.64	15.31	
	4	15	1.76	1.76	0.38	0.96	2.63	2.63	0.57	1.62	3.46	3.46	0.75	3.39	4.32	4.32	0.92	5.70	5.19	5.19	1.11	7.86	
		17	1.77	1.77	0.38	0.96	2.64	2.64	0.57	1.63	3.47	3.47	0.75	3.41	4.32	4.32	0.93	5.72	5.20	5.20	1.11	7.89	
		19	-	-	-	-	2.65	2.63	0.57	1.65	3.48	3.48	0.75	3.43	4.33	4.33	0.93	5.75	5.21	5.21	1.12	7.92	
		20	-	-	-	-	3.71	2.58	0.80	4.06	3.70	3.47	0.80	4.05	4.34	4.33	0.93	5.76	5.22	5.22	1.12	7.93	
	5	15	1.32	1.32	0.23	0.56	2.19	2.19	0.38	0.94	3.05	3.05	0.52	1.38	3.88	3.88	0.67	2.52	4.71	4.71	0.81	4.23	
		17	1.33	1.33	0.23	0.57	2.20	2.20	0.38	0.94	3.06	3.06	0.52	1.39	3.88	3.88	0.67	2.54	4.72	4.72	0.81	4.25	
		19	-	-	-	-	2.20	2.19	0.38	0.94	3.07	3.07	0.53	1.39	3.89	3.89	0.67	2.55	4.73	4.73	0.81	4.27	
		20	-	-	-	-	2.55	2.19	0.44	1.09	3.07	3.05	0.53	1.40	3.90	3.90	0.67	2.56	4.74	4.74	0.81	4.28	
	6	15	0.89	0.89	0.13	0.31	1.76	1.76	0.25	0.61	2.62	2.62	0.38	0.92	3.48	3.48	0.50	1.26	4.30	4.30	0.62	2.06	
		17	0.89	0.89	0.13	0.31	1.77	1.77	0.25	0.62	2.63	2.63	0.38	0.92	3.48	3.48	0.50	1.26	4.31	4.31	0.62	2.07	
		19	-	-	-	-	1.77	1.77	0.25	0.62	2.63	2.63	0.38	0.92	3.49	3.49	0.50	1.27	4.32	4.32	0.62	2.09	
		20	-	-	-	-	1.79	1.79	0.26	0.63	2.64	2.64	0.38	0.92	3.50	3.50	0.50	1.27	4.32	4.32	0.62	2.09	
15	3	15	1.32	1.32	0.38	0.92	2.18	2.18	0.62	2.13	3.04	3.04	0.87	5.02	3.93	3.93	1.12	7.89	4.80	4.80	1.37	11.08	
		17	1.33	1.33	0.38	0.93	2.19	2.19	0.62	2.14	3.05	3.05	0.87	5.04	3.94	3.94	1.12	7.91	4.81	4.81	1.37	11.12	
		19	-	-	-	-	2.19	2.19	0.63	2.15	3.05	3.05	0.87	5.06	3.95	3.95	1.13	7.94	4.82	4.82	1.38	11.16	
		20	-	-	-	-	2.50	2.18	0.71	3.09	3.05	3.02	0.87	5.06	3.95	3.95	1.13	7.96	4.83	4.83	1.38	11.19	
	4	15	0.85	0.85	0.06	0.14	1.76	1.76	0.38	0.91	2.62	2.62	0.56	1.63	3.45	3.45	0.74	3.44	4.32	4.32	0.93	5.67	
		17	0.89	0.89	0.19	0.46	1.76	1.76	0.38	0.91	2.62	2.62	0.56	1.64	3.46	3.46	0.74	3.46	4.33	4.33	0.93	5.69	
		19	-	-	-	-	1.77	1.77	0.38	0.91	2.63	2.63	0.56	1.65	3.47	3.47	0.74	3.48	4.34	4.34	0.93	5.71	
		20	-	-	-	-	1.77	1.72	0.38	0.91	2.63	2.63	0.56	1.65	3.47	3.47	0.74	3.49	4.34	4.34	0.93	5.72	
	5	15	0.46	0.46	0.08	0.18	1.33	1.33	0.23	0.54	2.20	2.20	0.38	0.90	3.05	3.05	0.53	1.40	3.87	3.87	0.67	2.64	
		17	0.46	0.46	0.08	0.18	1.33	1.33	0.23	0.54	2.20	2.20	0.38	0.90	3.06	3.06	0.53	1.41	3.88	3.88	0.67	2.65	
		19	-	-	-	-	1.34	1.34	0.23	0.54	2.21	2.21	0.38	0.90	3.07	3.07	0.53	1.42	3.89	3.89	0.67	2.67	
		20	-	-	-	-	1.34	1.34	0.23	0.54	2.21	2.21	0.38	0.90	3.07	3.07	0.53	1.42	3.89	3.89	0.67	2.68	
	6	15	-	-	-	-	0.90	0.90	0.13	0.30	1.76	1.76	0.25	0.59	2.62	2.62	0.38	0.88	3.47	3.47	0.50	1.26	
		17	-	-	-	-	0.90	0.90	0.13	0.30	1.77	1.77	0.25	0.59	2.63	2.63	0.38	0.88	3.48	3.48	0.50	1.26	
		19	-	-	-	-	0.90	0.90	0.13	0.30	1.77	1.77	0.25	0.59	2.63	2.63	0.38	0.88	3.49	3.49	0.50	1.27	
		20	-	-	-	-	0.90	0.90	0.13	0.30	1.77	1.77	0.25	0.59	2.64	2.64	0.38	0.88	3.49	3.49	0.50	1.27	

Abbreviations:

EWT: Enter Water Temp. (°C)

Δt: Temperature Difference (°C)

DB: Dry Bulb Temp. (°C)

WF: Water Flow (m³/h)

WB: Wet Bulb Temp. (°C)

TC: Total Cooling Capacity (kW)

SC: Sensible Cooling Capacity (kW)

WPD: Water Pressure Drop (kPa)

MDKA-V1500R																						
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																			
			21				23				25				27				29			
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa
5	3	15	9.95	7.82	2.86	22.07	9.87	8.97	2.84	21.75	10.08	10.03	2.90	22.56	11.21	11.21	3.22	26.90	12.31	12.31	3.52	31.43
		17	13.40	7.85	3.83	36.38	13.29	9.00	3.80	35.84	13.17	10.13	3.77	35.31	13.06	11.25	3.74	34.80	12.96	12.35	3.71	34.32
		19	-	-	-	-	17.00	9.03	4.87	54.89	16.86	10.17	4.83	54.13	16.72	11.29	4.79	53.35	16.58	12.38	4.75	52.59
		20	-	-	-	-	18.99	9.06	5.48	67.43	18.84	10.20	5.44	66.53	18.69	11.33	5.40	65.62	18.55	12.43	5.35	64.70
	4	15	8.52	7.17	1.83	10.21	8.46	8.32	1.81	10.07	9.47	9.47	2.03	12.20	10.59	10.59	2.27	14.77	11.71	11.71	2.52	17.68
		17	12.05	7.23	2.60	18.55	11.94	8.38	2.57	18.27	11.84	9.52	2.55	18.00	11.74	10.64	2.53	17.75	11.72	11.63	2.52	17.69
		19	-	-	-	-	15.63	8.41	3.35	28.72	15.51	9.55	3.33	28.31	15.38	10.67	3.30	27.90	15.25	11.78	3.27	27.50
		20	-	-	-	-	17.60	8.43	3.78	35.21	17.46	9.57	3.75	34.73	17.32	10.69	3.72	34.26	17.18	11.80	3.69	33.77
	5	15	7.18	6.57	1.23	4.02	7.71	7.71	1.32	4.89	8.84	8.84	1.52	6.93	9.97	9.97	1.71	9.01	11.09	11.09	1.90	10.86
		17	10.58	6.57	1.81	10.03	10.48	7.73	1.80	9.87	10.39	8.87	1.78	9.71	10.30	10.00	1.77	9.57	11.11	11.11	1.91	10.91
		19	-	-	-	-	14.25	7.79	2.45	16.75	14.13	8.94	2.43	16.52	14.01	10.06	2.41	16.28	13.89	11.18	2.39	16.04
		20	-	-	-	-	16.21	7.81	2.79	20.89	16.08	8.96	2.77	20.60	15.95	10.09	2.75	20.31	15.82	11.20	2.73	20.02
	6	15	5.97	5.89	0.85	1.80	7.14	7.14	1.02	2.47	8.26	8.26	1.18	3.63	9.37	9.37	1.34	5.13	10.47	10.47	1.50	6.82
		17	9.14	5.96	1.31	4.80	9.06	7.12	1.30	4.68	8.98	8.27	1.29	4.58	9.39	9.38	1.34	5.16	10.50	10.50	1.50	6.86
		19	-	-	-	-	12.75	7.15	1.83	10.08	12.64	8.30	1.81	9.92	12.53	9.43	1.79	9.77	12.42	10.54	1.78	9.62
		20	-	-	-	-	14.75	7.18	2.12	12.94	14.62	8.33	2.10	12.76	14.50	9.46	2.08	12.57	14.37	10.58	2.06	12.39
7	3	15	7.27	6.61	2.08	12.63	7.77	7.77	2.23	14.12	8.92	8.92	2.58	18.10	10.03	10.03	2.88	21.86	11.15	11.15	3.20	26.20
		17	10.72	6.64	3.08	24.52	10.63	7.80	3.05	24.13	10.53	8.94	3.02	23.77	10.45	10.06	3.00	23.46	11.17	11.17	3.21	26.31
		19	-	-	-	-	14.35	7.84	4.14	40.86	14.24	8.99	4.12	40.49	14.13	10.12	4.09	39.92	14.00	11.22	4.05	39.32
		20	-	-	-	-	16.34	7.86	4.72	51.22	16.21	9.01	4.69	50.65	16.04	10.13	4.61	49.17	15.92	11.25	4.57	48.47
	4	15	5.94	5.80	1.28	4.56	7.14	7.14	1.54	7.26	8.29	8.29	1.79	9.66	9.43	9.43	2.04	12.08	10.55	10.55	2.28	14.60
		17	9.28	6.02	2.00	11.75	9.19	7.18	1.99	11.57	9.10	8.32	1.96	11.31	9.44	9.39	2.04	12.10	10.57	10.57	2.28	14.67
		19	-	-	-	-	12.89	7.21	2.77	20.39	12.77	8.35	2.75	20.08	12.66	9.49	2.72	19.78	12.55	10.60	2.70	19.48
		20	-	-	-	-	14.87	7.23	3.20	26.04	14.74	8.38	3.17	25.66	14.61	9.51	3.14	25.28	14.49	10.63	3.12	24.92
	5	15	5.40	5.40	0.93	2.02	6.54	6.54	1.12	3.26	7.67	7.67	1.32	5.03	8.80	8.80	1.51	7.04	9.92	9.92	1.71	8.88
		17	7.74	5.37	1.33	5.14	7.67	6.54	1.32	5.02	7.67	7.58	1.32	5.02	8.82	8.82	1.52	7.08	9.95	9.95	1.71	8.92
		19	-	-	-	-	11.38	6.58	1.96	11.21	11.28	7.73	1.94	11.04	11.19	9.04	1.96	36.60	11.08	9.99	1.91	10.71
		20	-	-	-	-	13.36	6.60	2.30	14.74	13.24	7.76	2.28	14.51	13.13	8.89	2.26	14.29	13.01	10.01	2.24	14.07
	6	15	4.81	4.81	0.69	1.37	5.97	5.97	0.86	1.75	7.10	7.10	1.02	2.55	8.21	8.21	1.18	3.79	9.31	9.31	1.33	5.24
		17	6.34	4.81	0.91	1.94	6.31	5.98	0.91	1.93	7.12	7.12	1.02	2.57	8.23	8.23	1.18	3.81	9.33	9.33	1.34	5.28
		19	-	-	-	-	9.78	5.94	1.40	5.93	9.69	7.09	1.39	5.79	9.60	8.23	1.38	5.67	9.54	9.36	1.37	5.57
		20	-	-	-	-	11.77	5.96	1.69	8.65	11.66	7.12	1.67	8.51	11.56	8.26	1.66	8.38	11.45	9.39	1.64	8.25
9	3	15	5.40	5.40	1.55	7.42	6.57	6.57	1.89	10.48	7.72	7.72	2.22	13.79	8.86	8.86	2.54	17.41	9.98	9.98	2.86	21.35
		17	7.87	5.43	2.26	14.25	7.80	6.60	2.24	14.02	7.76	7.75	2.23	13.91	8.88	8.88	2.55	17.49	10.00	10.00	2.87	21.44
		19	-	-	-	-	11.54	6.64	3.34	27.75	11.43	7.80	3.31	27.32	11.33	8.93	3.28	26.90	11.21	10.04	3.22	26.06
		20	-	-	-	-	13.47	6.65	3.87	35.81	13.35	7.80	3.84	35.26	13.23	8.94	3.80	34.73	13.12	10.06	3.77	34.21
	4	15	4.80	4.80	1.04	2.69	5.94	5.94	1.28	4.72	7.10	7.10	1.53	7.21	8.24	8.24	1.77	9.39	9.37	9.37	2.02	11.66
		17	6.27	4.78	1.35	5.43	6.22	5.95	1.34	5.34	7.11	7.11	1.53	7.24	8.26	8.26	1.78	9.42	9.39	9.39	2.02	11.71
		19	-	-	-	-	9.95	6.00	2.14	12.91	9.85	7.16	2.12	12.70	9.77	8.30	2.10	12.51	9.70	9.42	2.09	12.36
		20	-	-	-	-	11.93	6.03	2.57	17.67	11.82	7.18	2.55	17.38	11.72	8.33	2.53	17.11	11.61	9.45	2.50	16.84
	5	15	4.21	4.21	0.72	1.38	5.37	5.37	0.92	2.01	6.50	6.50	1.12	3.35	7.63	7.63	1.31	5.13	8.76	8.76	1.51	7.02
		17	4.84	4.21	0.83	1.64	5.38	5.33	0.93	2.02	6.52	6.52	1.12	3.37	7.65	7.65	1.32	5.17	8.78	8.78	1.51	7.05
		19	-	-	-	-	8.30	5.36	1.43	6.28	8.23	6.52	1.42	6.15	8.16	7.67	1.40	6.04	8.80	8.80	1.51	7.09
		20	-	-	-	-	10.30	5.39	1.77	9.32	10.20	6.55	1.76	9.17	10.10	7.70	1.74	9.02	10.02	8.83	1.72	8.89
	6	15	3.62	3.62	0.52	0.97	4.78	4.78	0.69	1.28	5.93	5.93	0.85	1.70	7.06	7.06	1.01	2.59	8.16	8.16	1.17	3.85
		17	3.61	3.50	0.52	0.97	4.79	4.79	0.69	1.29	5.95	5.95	0.85	1.70	7.07	7.07	1.01	2.61	8.18	8.18	1.17	3.88
		19	-	-	-	-	6.77	4.79	0.97	2.31	6.72	5.95	0.96	2.27	7.06	6.91	1.01	2.59	8.21	8.21	1.18	3.90
		20	-	-	-	-	8.62	4.76	1.24	4.45	8.54	5.93	1.22	4.34	8.47	7.08	1.21	4.25	8.42	8.22	1.21	4.18

MDKA-V1500R																							
EWT	ΔT	Indoor temp (W.B.)	Indoor temperature (D.B.)																				
			21				23				25				27				29				
			TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	TC	SC	WF	WPD	
°C	°C	°C	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	kW	kW	m³/h	kPa	
11	3	15	4.20	4.20	1.20	4.05	5.37	5.37	1.53	7.23	6.54	6.54	1.86	10.10	7.68	7.68	2.19	13.29	8.81	8.81	2.51	16.79	
		17	4.79	4.20	1.37	5.70	5.38	5.38	1.53	7.26	6.55	6.55	1.87	10.14	7.70	7.70	2.20	13.34	8.83	8.83	2.52	16.86	
		19	-	-	-	-	8.45	5.42	2.41	15.63	8.37	6.58	2.39	15.39	8.32	7.73	2.38	15.33	8.85	8.85	2.53	16.94	
		20	-	-	-	-	10.42	5.44	2.97	22.42	10.32	6.60	2.95	22.05	10.23	7.75	2.92	21.71	10.14	8.87	2.89	21.39	
	4	15	3.61	3.61	0.77	1.44	4.77	4.77	1.02	2.68	5.92	5.92	1.27	4.78	7.06	7.06	1.51	7.04	8.20	8.20	1.76	9.08	
		17	3.57	3.40	0.76	1.42	4.78	4.78	1.02	2.70	5.93	5.93	1.27	4.80	7.08	7.08	1.52	7.07	8.22	8.22	1.76	9.12	
		19	-	-	-	-	6.76	4.78	1.45	6.49	6.70	5.95	1.44	6.38	7.06	6.92	1.51	7.04	8.25	8.25	1.77	9.16	
		20	-	-	-	-	8.75	4.81	1.87	10.13	8.66	5.98	1.86	9.97	8.59	7.13	1.84	9.82	8.53	8.26	1.83	9.71	
	5	15	3.02	3.02	0.52	0.94	4.19	4.19	0.72	1.31	5.34	5.34	0.92	2.05	6.47	6.47	1.11	3.45	7.59	7.59	1.31	5.21	
		17	3.03	3.03	0.52	0.94	4.20	4.20	0.72	1.31	5.36	5.36	0.92	2.06	6.49	6.49	1.12	3.47	7.61	7.61	1.31	5.24	
		19	-	-	-	-	5.19	4.20	0.89	1.90	5.34	5.20	0.92	2.04	6.50	6.50	1.12	3.49	7.63	7.63	1.31	5.27	
		20	-	-	-	-	7.02	4.18	1.21	4.29	6.96	5.35	1.20	4.19	6.91	6.51	1.19	4.12	7.64	7.64	1.32	5.29	
	6	15	2.42	2.42	0.35	0.61	3.60	3.60	0.52	0.92	4.76	4.76	0.68	1.21	5.90	5.90	0.85	1.69	7.02	7.02	1.01	2.65	
		17	2.43	2.43	0.35	0.62	3.61	3.61	0.52	0.92	4.77	4.77	0.68	1.21	5.92	5.92	0.85	1.70	7.03	7.03	1.01	2.67	
		19	-	-	-	-	3.70	3.70	0.53	0.94	4.78	4.78	0.69	1.22	5.93	5.93	0.85	1.71	7.05	7.05	1.01	2.69	
		20	-	-	-	-	5.40	3.61	0.78	1.42	5.39	4.79	0.77	1.41	5.93	5.83	0.85	1.71	7.06	7.06	1.01	2.70	
13	3	15	3.02	3.02	0.87	1.76	4.18	4.18	1.20	4.23	5.35	5.35	1.54	7.16	6.50	6.50	1.87	9.98	7.63	7.63	2.18	12.93	
		17	3.02	3.02	0.87	1.77	4.19	4.19	1.20	4.26	5.36	5.36	1.54	7.19	6.52	6.52	1.87	10.02	7.65	7.65	2.18	12.99	
		19	-	-	-	-	5.18	4.20	1.49	6.78	5.31	5.10	1.52	7.08	6.54	6.54	1.88	10.07	7.67	7.67	2.19	13.05	
		20	-	-	-	-	7.14	4.23	2.05	11.70	7.07	5.40	2.03	11.51	7.02	6.55	2.02	11.37	7.68	7.67	2.19	13.08	
	4	15	2.42	2.42	0.52	0.91	3.60	3.60	0.77	1.41	4.74	4.74	1.02	2.79	5.89	5.89	1.27	4.90	7.02	7.02	1.50	6.88	
		17	2.42	2.42	0.52	0.91	3.60	3.60	0.78	1.41	4.75	4.75	1.02	2.80	5.90	5.90	1.27	4.93	7.04	7.04	1.51	6.91	
		19	-	-	-	-	3.64	3.60	0.78	1.44	4.77	4.77	1.03	2.82	5.91	5.91	1.27	4.96	7.06	7.06	1.51	6.94	
		20	-	-	-	-	5.34	3.59	1.15	3.85	5.31	4.77	1.14	3.78	5.92	5.88	1.27	4.97	7.07	7.07	1.51	6.96	
	5	15	1.82	1.82	0.31	0.53	3.00	3.00	0.51	0.88	4.17	4.17	0.71	1.24	5.31	5.31	0.91	2.06	6.43	6.43	1.10	3.48	
		17	1.82	1.82	0.31	0.54	3.01	3.01	0.52	0.89	4.18	4.18	0.72	1.24	5.32	5.32	0.91	2.08	6.44	6.44	1.11	3.50	
		19	-	-	-	-	3.02	3.01	0.52	0.89	4.19	4.19	0.72	1.25	5.33	5.33	0.91	2.09	6.46	6.46	1.11	3.53	
		20	-	-	-	-	3.67	3.01	0.63	1.08	4.17	4.03	0.72	1.24	5.34	5.34	0.92	2.10	6.47	6.47	1.11	3.54	
	6	15	1.22	1.22	0.17	0.29	2.41	2.41	0.34	0.58	3.58	3.58	0.51	0.86	4.73	4.73	0.68	1.14	5.87	5.87	0.84	1.69	
		17	1.23	1.23	0.18	0.29	2.42	2.42	0.35	0.58	3.59	3.59	0.51	0.86	4.75	4.75	0.68	1.15	5.88	5.88	0.84	1.70	
		19	-	-	-	-	2.42	2.42	0.35	0.58	3.60	3.60	0.51	0.87	4.76	4.76	0.68	1.15	5.90	5.90	0.84	1.71	
		20	-	-	-	-	2.43	2.32	0.35	0.58	3.60	3.60	0.52	0.87	4.76	4.76	0.68	1.15	5.90	5.90	0.84	1.71	
15	3	15	-	-	-	-	2.99	2.99	0.85	1.75	4.15	4.15	1.18	4.21	5.31	5.31	1.52	6.90	6.46	6.46	1.84	9.61	
		17	1.82	1.82	0.52	0.88	3.00	3.00	0.86	1.76	4.16	4.16	1.19	4.24	5.33	5.33	1.52	6.93	6.48	6.48	1.85	9.66	
		19	-	-	-	-	3.01	3.01	0.86	1.77	4.17	4.17	1.19	4.27	5.34	5.34	1.52	6.96	6.50	6.50	1.85	9.70	
		20	-	-	-	-	3.62	3.00	1.03	2.94	4.15	4.01	1.18	4.21	5.35	5.35	1.53	6.98	6.50	6.50	1.86	9.72	
	4	15	-	-	-	-	2.40	2.40	0.52	0.86	3.58	3.58	0.77	1.37	4.71	4.71	1.01	2.81	5.85	5.85	1.25	4.86	
		17	1.22	1.22	0.26	0.43	2.41	2.41	0.52	0.86	3.58	3.58	0.77	1.38	4.73	4.73	1.01	2.83	5.87	5.87	1.26	4.88	
		19	-	-	-	-	2.42	2.42	0.52	0.86	3.59	3.59	0.77	1.38	4.74	4.74	1.02	2.85	5.88	5.88	1.26	4.91	
		20	-	-	-	-	2.38	2.20	0.51	0.85	3.60	3.60	0.77	1.39	4.75	4.75	1.02	2.86	5.89	5.89	1.26	4.93	
	5	15	0.62	0.62	0.11	0.17	1.81	1.81	0.31	0.51	2.99	2.99	0.52	0.84	4.15	4.15	0.71	1.21	5.28	5.28	0.91	2.14	
		17	0.62	0.62	0.11	0.17	1.82	1.82	0.31	0.51	3.00	3.00	0.52	0.84	4.16	4.16	0.72	1.21	5.29	5.29	0.91	2.15	
		19	-	-	-	-	1.82	1.82	0.31	0.51	3.01	3.01	0.52	0.85	4.17	4.17	0.72	1.22	5.30	5.30	0.91	2.17	
		20	-	-	-	-	1.83	1.83	0.31	0.51	3.01	3.01	0.52	0.85	4.18	4.18	0.72	1.22	5.31	5.31	0.92	2.18	
	6	15	-	-	-	-	1.22	1.22	0.17	0.28	2.40	2.40	0.34	0.55	3.56	3.56	0.51	0.82	4.71	4.71	0.68	1.10	
		17	-	-	-	-	1.22	1.22	0.18	0.28	2.41	2.41	0.35	0.55	3.57	3.57	0.51	0.82	4.72	4.72	0.68	1.10	
		19	-	-	-	-	1.22	1.22	0.18	0.28	2.41	2.41	0.35	0.55	3.58	3.58	0.51	0.82	4.73	4.73	0.68	1.11	
		20	-	-	-	-	1.23	1.23	0.18	0.28	2.42	2.42	0.35	0.55	3.59	3.59	0.51	0.82	4.74	4.74	0.68	1.11	

Abbreviations:

EWT: Enter Water Temp. ($^{\circ}\text{C}$)	Δt : Temperature Difference ($^{\circ}\text{C}$)	DB: Dry Bulb Temp. ($^{\circ}\text{C}$)	WF: Water Flow (m ³ /h)
WB: Wet Bulb Temp. ($^{\circ}\text{C}$)	TC: Total Cooling Capacity (kW)	SC: Sensible Cooling Capacity (kW)	WPD: Water Pressure Drop (kPa)

MDKA-V600R													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
$^{\circ}\text{C}$	$^{\circ}\text{C}$	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa
40	8	4.81	0.52	3.79	4.18	0.45	2.98	3.54	0.38	2.18	2.94	0.32	1.37
	10	4.14	0.36	1.84	3.55	0.31	1.22	2.99	0.26	0.77	2.40	0.21	0.53
	12	3.60	0.26	0.78	3.00	0.22	0.58	2.40	0.17	0.46	1.80	0.13	0.34
	14	2.99	0.18	0.50	2.39	0.15	0.40	1.79	0.11	0.30	1.20	0.07	0.20
	16	2.40	0.13	0.37	1.80	0.10	0.28	1.20	0.06	0.19	0.61	0.03	0.10
45	8	6.41	0.69	6.00	5.77	0.62	5.02	5.14	0.55	4.12	4.51	0.49	3.29
	10	5.76	0.50	3.44	5.11	0.44	2.82	4.47	0.39	2.23	3.85	0.33	1.61
	12	5.08	0.37	2.00	4.46	0.32	1.46	3.88	0.28	1.00	3.31	0.24	0.66
	14	4.49	0.28	0.96	3.92	0.24	0.68	3.32	0.20	0.51	2.72	0.17	0.41
	16	3.94	0.21	0.55	3.33	0.18	0.46	2.72	0.15	0.38	2.12	0.11	0.29
50	8	8.00	0.86	8.56	7.35	0.79	7.41	6.71	0.72	6.34	6.08	0.66	5.35
	10	7.37	0.64	5.12	6.72	0.58	4.38	6.08	0.53	3.70	5.45	0.47	3.06
	12	6.71	0.48	3.21	6.06	0.44	2.71	5.42	0.39	2.24	4.78	0.34	1.77
	14	6.03	0.37	2.07	5.39	0.33	1.63	4.78	0.29	1.21	4.20	0.26	0.85
	16	5.41	0.29	1.17	4.82	0.26	0.85	4.25	0.23	0.61	3.65	0.20	0.47
55	8	9.57	1.03	11.43	8.92	0.96	10.13	8.28	0.89	8.90	7.64	0.82	7.75
	10	8.95	0.77	7.00	8.31	0.72	6.15	7.66	0.66	5.36	7.03	0.61	4.62
	12	8.32	0.60	4.52	7.67	0.55	3.94	7.03	0.51	3.39	6.39	0.46	2.89
	14	7.68	0.47	3.06	7.03	0.43	2.64	6.38	0.39	2.24	5.74	0.35	1.87
	16	7.00	0.38	2.10	6.35	0.34	1.75	5.71	0.31	1.40	5.10	0.28	1.06
60	8	11.16	1.21	14.71	10.50	1.13	13.17	9.86	1.06	11.78	9.20	0.99	10.48
	10	10.54	0.91	9.04	9.88	0.85	8.10	9.24	0.80	7.20	8.60	0.74	6.36
	12	9.92	0.71	6.00	9.27	0.67	5.34	8.62	0.62	4.72	7.98	0.57	4.13
	14	9.29	0.57	4.13	8.64	0.53	3.64	7.99	0.49	3.19	7.31	0.45	2.77
	16	8.65	0.47	2.93	7.99	0.43	2.56	7.34	0.40	2.22	6.70	0.36	1.90

Abbreviations:

Δt : Temperature Difference ($^{\circ}\text{C}$)

TH: Total Heating Capacity (kW)

WF: Water Flow (m³/h)

WPD: Water Pressure Drop (kPa)

Heating Capacity

MDKA-V750R													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
$^{\circ}\text{C}$	$^{\circ}\text{C}$	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa
40	8	4.99	0.54	4.01	4.32	0.47	3.16	3.66	0.40	2.35	3.04	0.33	1.49
	10	4.28	0.37	2.00	3.67	0.32	1.33	3.08	0.27	0.84	2.48	0.21	0.56
	12	3.71	0.27	0.84	3.10	0.22	0.60	2.48	0.18	0.47	1.86	0.13	0.36
	14	3.10	0.19	0.52	2.47	0.15	0.42	1.86	0.11	0.31	1.24	0.08	0.21
	16	2.48	0.13	0.38	1.86	0.10	0.29	1.24	0.07	0.19	0.63	0.03	0.10
45	8	6.63	0.72	6.36	5.98	0.64	5.32	5.32	0.57	4.37	4.67	0.50	3.49
	10	5.96	0.51	3.65	5.30	0.46	2.99	4.63	0.40	2.38	3.98	0.34	1.75
	12	5.26	0.38	2.15	4.61	0.33	1.59	4.00	0.29	1.09	3.41	0.25	0.71
	14	4.64	0.29	1.05	4.04	0.25	0.73	3.43	0.21	0.53	2.81	0.17	0.43
	16	4.07	0.22	0.58	3.44	0.19	0.47	2.82	0.15	0.39	2.20	0.12	0.30
50	8	8.27	0.89	9.07	7.61	0.82	7.86	6.95	0.75	6.72	6.29	0.68	5.68
	10	7.62	0.66	5.43	6.96	0.60	4.65	6.30	0.54	3.92	5.64	0.49	3.25
	12	6.95	0.50	3.41	6.28	0.45	2.87	5.61	0.40	2.38	4.95	0.36	1.90
	14	6.25	0.39	2.20	5.58	0.34	1.76	4.94	0.30	1.32	4.33	0.27	0.93
	16	5.59	0.30	1.27	4.98	0.27	0.93	4.39	0.24	0.66	3.78	0.20	0.49
55	8	9.90	1.07	12.12	9.23	0.99	10.74	8.57	0.92	9.44	7.91	0.85	8.22
	10	9.27	0.80	7.42	8.60	0.74	6.52	7.93	0.69	5.68	7.27	0.63	4.90
	12	8.61	0.62	4.80	7.94	0.57	4.18	7.27	0.52	3.60	6.62	0.48	3.06
	14	7.95	0.49	3.25	7.28	0.45	2.80	6.61	0.41	2.38	5.95	0.37	1.98
	16	7.25	0.39	2.23	6.58	0.35	1.88	5.91	0.32	1.51	5.27	0.28	1.15
60	8	11.54	1.25	15.59	10.86	1.17	13.96	10.19	1.10	12.50	9.52	1.03	11.12
	10	10.90	0.94	9.59	10.23	0.88	8.59	9.56	0.82	7.64	8.90	0.77	6.75
	12	10.27	0.74	6.36	9.59	0.69	5.66	8.93	0.64	5.00	8.26	0.59	4.38
	14	9.61	0.59	4.38	8.94	0.55	3.87	8.27	0.51	3.39	7.61	0.47	2.94
	16	8.95	0.48	3.10	8.28	0.45	2.72	7.61	0.41	2.35	6.94	0.37	2.01

Abbreviations:

Δt : Temperature Difference ($^{\circ}\text{C}$)

TH: Total Heating Capacity (kW)

WF: Water Flow (m³/h)

WPD: Water Pressure Drop (kPa)

Heating Capacity

MDKA-V850R													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
$^{\circ}\text{C}$	$^{\circ}\text{C}$	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa
40	8	6.19	0.67	2.92	5.36	0.58	2.23	4.57	0.49	1.51	3.82	0.41	0.93
	10	5.37	0.46	1.25	4.63	0.40	0.84	3.87	0.33	0.58	3.09	0.27	0.46
	12	4.65	0.34	0.60	3.87	0.28	0.49	3.09	0.22	0.39	2.32	0.17	0.30
	14	3.86	0.24	0.43	3.08	0.19	0.35	2.31	0.14	0.26	1.54	0.10	0.18
	16	3.09	0.17	0.32	2.32	0.13	0.24	1.55	0.08	0.16	0.82	0.04	0.09
45	8	8.26	0.89	4.63	7.43	0.80	3.87	6.61	0.71	3.17	5.79	0.62	2.53
	10	7.40	0.64	2.65	6.56	0.57	2.14	5.75	0.50	1.60	4.98	0.43	1.09
	12	6.56	0.47	1.38	5.79	0.42	0.99	5.04	0.36	0.68	4.27	0.31	0.50
	14	5.84	0.36	0.67	5.06	0.31	0.52	4.28	0.26	0.43	3.50	0.22	0.36
	16	5.08	0.27	0.47	4.29	0.23	0.39	3.51	0.19	0.32	2.73	0.15	0.25
50	8	10.30	1.11	6.60	9.47	1.02	5.71	8.64	0.93	4.88	7.82	0.84	4.12
	10	9.48	0.82	3.94	8.65	0.75	3.37	7.82	0.68	2.84	6.99	0.60	2.35
	12	8.62	0.62	2.47	7.78	0.56	2.07	6.95	0.50	1.66	6.15	0.44	1.24
	14	7.76	0.48	1.48	6.97	0.43	1.12	6.21	0.38	0.82	5.45	0.34	0.59
	16	7.03	0.38	0.79	6.27	0.34	0.59	5.49	0.30	0.47	4.70	0.25	0.39
55	8	12.34	1.33	8.80	11.50	1.24	7.79	10.67	1.15	6.85	9.84	1.06	5.96
	10	11.54	1.00	5.39	10.70	0.92	4.74	9.86	0.85	4.12	9.04	0.78	3.55
	12	10.71	0.77	3.48	9.87	0.71	3.03	9.03	0.65	2.61	8.20	0.59	2.21
	14	9.87	0.61	2.36	9.02	0.56	2.02	8.18	0.50	1.70	7.36	0.45	1.36
	16	8.98	0.48	1.56	8.17	0.44	1.25	7.38	0.40	0.96	6.62	0.36	0.71
60	8	14.38	1.55	11.25	13.53	1.46	10.13	12.70	1.37	9.10	11.86	1.28	8.09
	10	13.58	1.17	6.96	12.73	1.10	6.23	11.89	1.03	5.54	11.06	0.95	4.89
	12	12.78	0.92	4.62	11.93	0.86	4.11	11.09	0.80	3.61	10.25	0.74	3.16
	14	11.95	0.74	3.18	11.11	0.68	2.80	10.26	0.63	2.45	9.43	0.58	2.12
	16	11.11	0.60	2.25	10.26	0.55	1.97	9.41	0.51	1.70	8.57	0.46	1.43

Abbreviations:
 Δt : Temperature Difference ($^{\circ}\text{C}$)

TH: Total Heating Capacity (kW)

WF: Water Flow (m³/h)

WPD: Water Pressure Drop (kPa)

Heating Capacity

MDKA-V950R													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
$^{\circ}\text{C}$	$^{\circ}\text{C}$	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa
40	8	6.69	0.72	3.33	5.80	0.63	2.61	4.93	0.53	1.83	4.11	0.44	1.13
	10	5.79	0.50	1.53	4.98	0.43	1.01	4.18	0.36	0.66	3.34	0.29	0.50
	12	5.03	0.36	0.67	4.19	0.30	0.53	3.35	0.24	0.43	2.51	0.18	0.32
	14	4.19	0.26	0.47	3.34	0.21	0.38	2.51	0.15	0.29	1.68	0.10	0.19
	16	3.36	0.18	0.34	2.52	0.14	0.26	1.69	0.09	0.17	0.87	0.05	0.09
45	8	8.90	0.96	5.26	8.01	0.86	4.40	7.13	0.77	3.61	6.25	0.67	2.89
	10	8.00	0.69	3.02	7.10	0.61	2.47	6.21	0.54	1.91	5.37	0.46	1.34
	12	7.08	0.51	1.68	6.24	0.45	1.21	5.43	0.39	0.83	4.61	0.33	0.57
	14	6.30	0.39	0.80	5.47	0.34	0.59	4.63	0.29	0.47	3.78	0.23	0.39
	16	5.49	0.30	0.51	4.64	0.25	0.43	3.80	0.21	0.35	2.96	0.16	0.27
50	8	11.09	1.20	7.48	10.19	1.10	6.47	9.31	1.00	5.54	8.43	0.91	4.67
	10	10.21	0.88	4.48	9.32	0.81	3.83	8.43	0.73	3.23	7.55	0.65	2.68
	12	9.31	0.67	2.82	8.41	0.60	2.37	7.52	0.54	1.95	6.64	0.48	1.50
	14	8.38	0.52	1.77	7.51	0.46	1.37	6.68	0.41	1.00	5.87	0.36	0.70
	16	7.57	0.41	0.96	6.75	0.36	0.71	5.92	0.32	0.53	5.08	0.27	0.43
55	8	13.26	1.43	9.98	12.36	1.33	8.83	11.47	1.24	7.76	10.58	1.14	6.75
	10	12.41	1.07	6.11	11.51	1.00	5.37	10.62	0.92	4.68	9.73	0.84	4.03
	12	11.54	0.83	3.96	10.63	0.76	3.44	9.74	0.70	2.97	8.85	0.64	2.52
	14	10.65	0.66	2.68	9.74	0.60	2.31	8.84	0.55	1.96	7.95	0.49	1.61
	16	9.71	0.52	1.83	8.82	0.48	1.49	7.95	0.43	1.16	7.12	0.38	0.87
60	8	15.45	1.66	12.74	14.54	1.57	11.47	13.64	1.47	10.25	12.74	1.38	9.17
	10	14.60	1.26	7.89	13.69	1.18	7.06	12.79	1.10	6.28	11.90	1.03	5.54
	12	13.75	0.99	5.24	12.84	0.92	4.66	11.94	0.86	4.11	11.04	0.79	3.59
	14	12.87	0.79	3.61	11.97	0.74	3.18	11.06	0.68	2.79	10.17	0.63	2.41
	16	11.98	0.65	2.56	11.07	0.60	2.24	10.17	0.55	1.94	9.27	0.50	1.65

Abbreviations:

Δt : Temperature Difference ($^{\circ}\text{C}$)

TH: Total Heating Capacity (kW)

WF: Water Flow (m³/h)

WPD: Water Pressure Drop (kPa)

Heating Capacity

MDKA-V1200R													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
$^{\circ}\text{C}$	$^{\circ}\text{C}$	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa
40	8	7.33	0.79	3.89	6.37	0.69	3.06	5.41	0.58	2.27	4.50	0.49	1.44
	10	6.35	0.55	1.94	5.44	0.47	1.29	4.57	0.39	0.81	3.66	0.32	0.55
	12	5.51	0.40	0.81	4.59	0.33	0.59	3.68	0.26	0.47	2.77	0.20	0.36
	14	4.61	0.28	0.52	3.69	0.23	0.42	2.77	0.17	0.32	1.86	0.11	0.21
	16	3.71	0.20	0.38	2.79	0.15	0.29	1.87	0.10	0.19	0.95	0.05	0.10
45	8	9.70	1.05	6.10	8.74	0.94	5.10	7.78	0.84	4.19	6.83	0.74	3.36
	10	8.75	0.75	3.52	7.78	0.67	2.89	6.82	0.59	2.30	5.87	0.51	1.68
	12	7.77	0.56	2.08	6.83	0.49	1.53	5.92	0.43	1.05	5.04	0.36	0.68
	14	6.88	0.42	1.01	5.98	0.37	0.70	5.07	0.31	0.53	4.15	0.26	0.43
	16	6.02	0.33	0.57	5.10	0.28	0.47	4.17	0.23	0.39	3.25	0.18	0.30
50	8	12.05	1.30	8.65	11.08	1.20	7.48	10.12	1.09	6.40	9.17	0.99	5.40
	10	11.13	0.96	5.19	10.16	0.88	4.44	9.20	0.80	3.75	8.24	0.71	3.11
	12	10.18	0.73	3.28	9.20	0.66	2.77	8.23	0.59	2.29	7.27	0.52	1.83
	14	9.20	0.57	2.13	8.23	0.51	1.70	7.30	0.45	1.26	6.40	0.39	0.89
	16	8.27	0.45	1.22	7.36	0.40	0.89	6.47	0.35	0.63	5.55	0.30	0.48
55	8	14.40	1.55	11.52	13.42	1.45	10.19	12.45	1.34	8.95	11.49	1.24	7.79
	10	13.49	1.17	7.07	12.52	1.08	6.21	11.55	1.00	5.40	10.59	0.92	4.66
	12	12.56	0.90	4.58	11.58	0.83	3.99	10.61	0.76	3.44	9.65	0.69	2.92
	14	11.62	0.72	3.12	10.65	0.66	2.68	9.67	0.60	2.28	8.71	0.54	1.91
	16	10.64	0.57	2.15	9.66	0.52	1.81	8.70	0.47	1.45	7.77	0.42	1.09
60	8	16.77	1.81	14.78	15.77	1.70	13.22	14.79	1.59	11.82	13.82	1.49	10.50
	10	15.85	1.37	9.10	14.86	1.28	8.14	13.88	1.20	7.24	12.92	1.11	6.39
	12	14.94	1.08	6.05	13.95	1.00	5.38	12.98	0.93	4.75	12.01	0.86	4.16
	14	13.99	0.86	4.17	13.02	0.80	3.68	12.05	0.74	3.23	11.08	0.68	2.80
	16	13.06	0.70	2.97	12.08	0.65	2.60	11.10	0.60	2.25	10.13	0.55	1.93

Abbreviations:
 Δt : Temperature Difference ($^{\circ}\text{C}$)

TH: Total Heating Capacity (kW)

WF: Water Flow (m³/h)

WPD: Water Pressure Drop (kPa)

MDKA-V1500R													
EWT	ΔT	Indoor temperature (W.B.)											
		16			18			20			22		
		TH	WF	WPD	TH	WF	WPD	TH	WF	WPD	TH	WF	WPD
$^{\circ}\text{C}$	$^{\circ}\text{C}$	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa	kW	m ³ /h	kPa
40	8	7.79	0.84	2.17	6.77	0.73	1.53	5.81	0.63	1.00	4.85	0.52	0.65
	10	6.85	0.59	0.85	5.86	0.51	0.62	4.86	0.42	0.50	3.87	0.33	0.40
	12	5.85	0.42	0.52	4.84	0.35	0.43	3.85	0.28	0.34	2.87	0.21	0.26
	14	4.82	0.30	0.38	3.83	0.24	0.30	2.86	0.18	0.22	1.89	0.12	0.15
	16	3.83	0.21	0.27	2.85	0.15	0.20	1.89	0.10	0.14	1.06	0.06	0.08
45	8	10.48	1.13	3.64	9.41	1.02	3.03	8.34	0.90	2.47	7.28	0.79	1.91
	10	9.31	0.80	1.99	8.28	0.71	1.50	7.29	0.63	1.07	6.34	0.55	0.73
	12	8.34	0.60	0.92	7.37	0.53	0.67	6.37	0.46	0.52	5.37	0.39	0.43
	14	7.38	0.45	0.53	6.36	0.39	0.45	5.36	0.33	0.38	4.37	0.27	0.31
	16	6.36	0.34	0.41	5.36	0.29	0.34	4.37	0.24	0.28	3.38	0.18	0.22
50	8	13.13	1.42	5.21	12.06	1.30	4.50	10.99	1.19	3.85	9.94	1.07	3.24
	10	12.03	1.04	3.10	10.95	0.95	2.64	9.88	0.85	2.22	8.81	0.76	1.80
	12	10.86	0.78	1.89	9.80	0.70	1.50	8.79	0.63	1.14	7.81	0.56	0.83
	14	9.84	0.61	1.00	8.86	0.55	0.75	7.88	0.49	0.56	6.89	0.42	0.45
	16	8.92	0.48	0.56	7.91	0.43	0.46	6.90	0.37	0.40	5.89	0.32	0.34
55	8	15.77	1.70	6.97	14.69	1.58	6.17	13.61	1.47	5.41	12.55	1.35	4.71
	10	14.70	1.27	4.26	13.62	1.18	3.73	12.54	1.08	3.25	11.48	0.99	2.79
	12	13.58	0.98	2.73	12.49	0.90	2.37	11.41	0.82	2.04	10.34	0.74	1.71
	14	12.44	0.77	1.82	11.35	0.70	1.52	10.32	0.64	1.21	9.32	0.57	0.92
	16	11.36	0.61	1.07	10.36	0.56	0.84	9.39	0.51	0.64	8.41	0.45	0.49
60	8	18.41	1.99	8.97	17.33	1.87	8.06	16.24	1.75	7.21	15.16	1.64	6.41
	10	17.35	1.50	5.51	16.25	1.40	4.93	15.17	1.31	4.38	14.10	1.22	3.86
	12	16.26	1.17	3.63	15.17	1.09	3.22	14.09	1.01	2.84	13.01	0.94	2.48
	14	15.17	0.93	2.49	14.07	0.87	2.20	12.98	0.80	1.92	11.90	0.73	1.65
	16	14.02	0.76	1.75	12.92	0.70	1.50	11.86	0.64	1.25	10.83	0.58	1.00

Abbreviations:

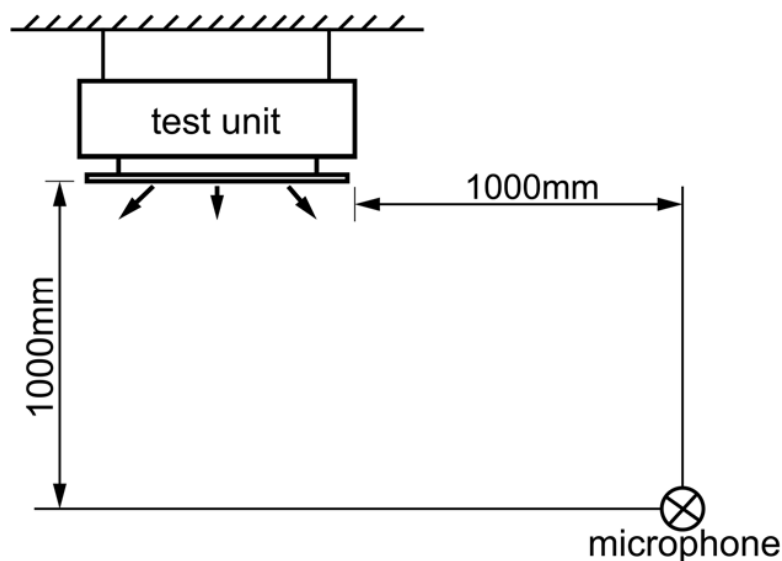
At: Temperature Difference ($^{\circ}\text{C}$)

TH: Total Heating Capacity (kW)

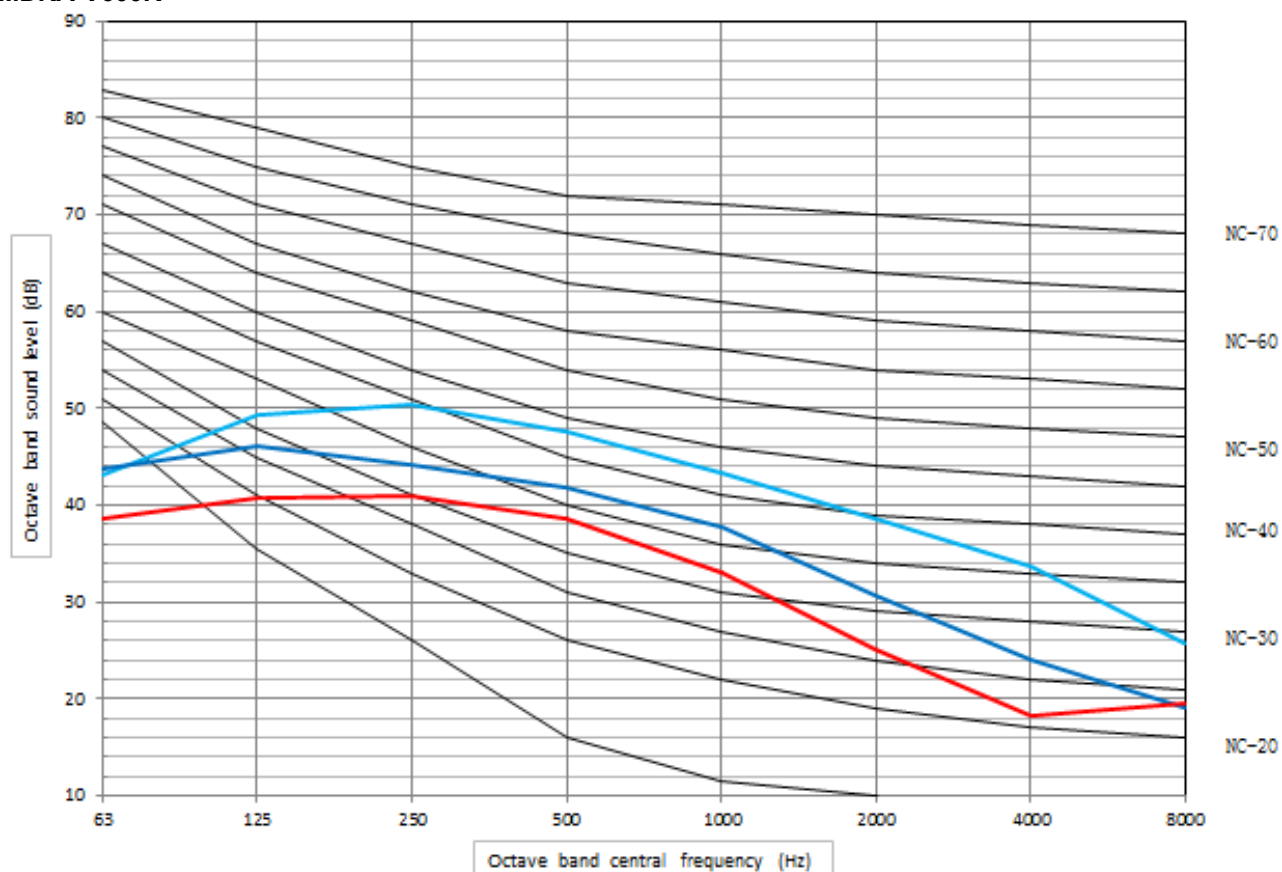
WF: Water Flow (m³/h)

WPD: Water Pressure Drop (kPa)

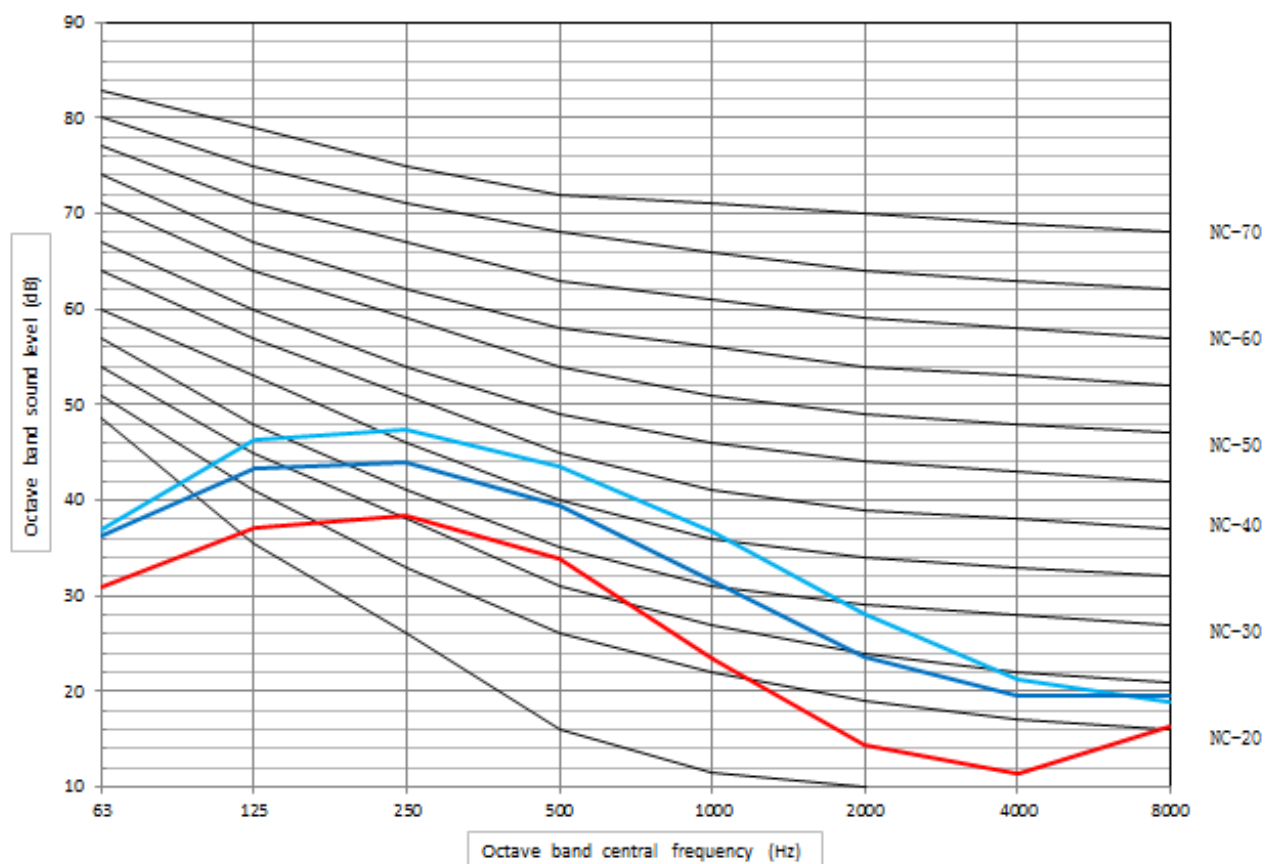
7. Sound Levels

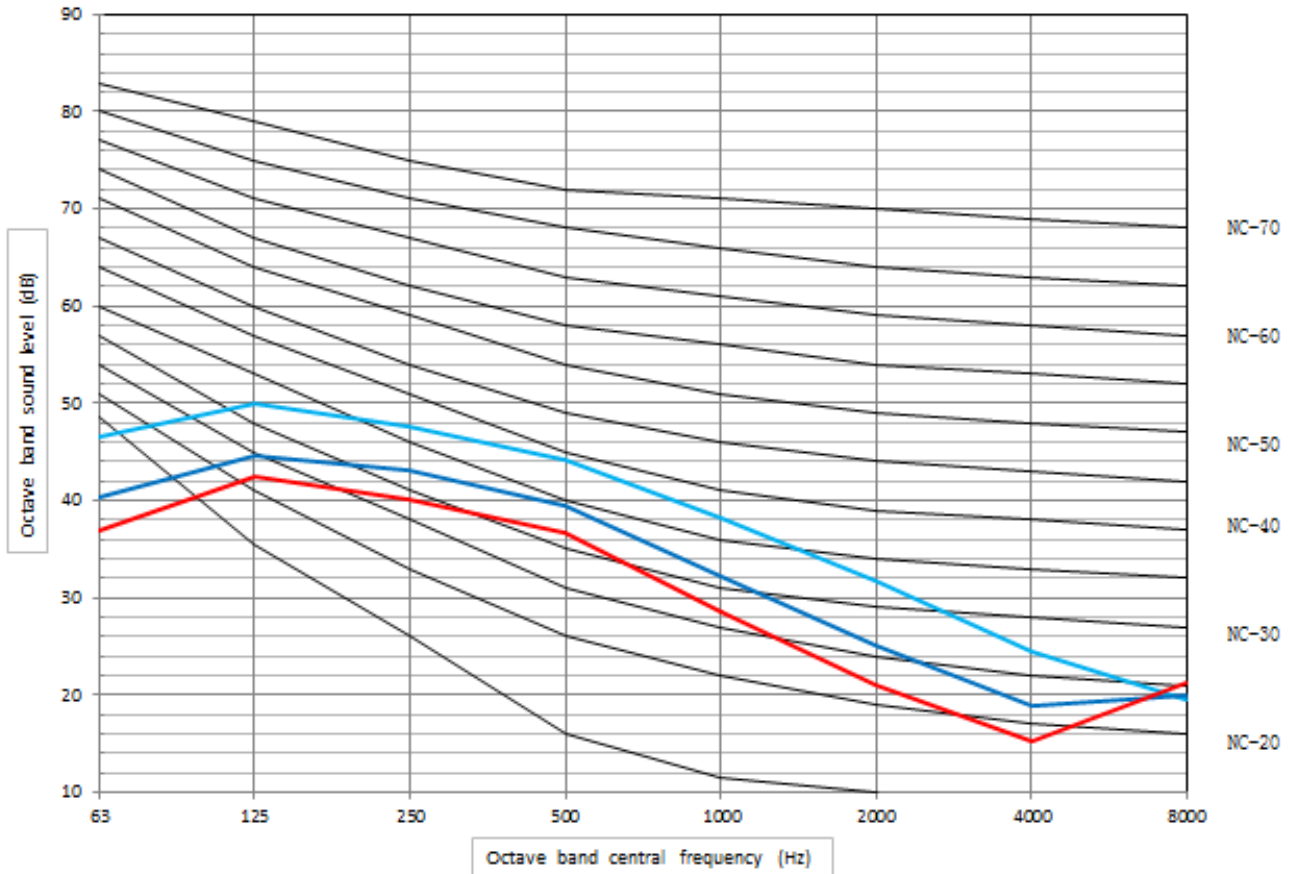


	600	750	850
H/M/L [dB(A)]	43/39/33	44/40/34	45/40/37
	950	1200	1500
H/M/L [dB(A)]	46/42/39	48/44/41	49/43/39

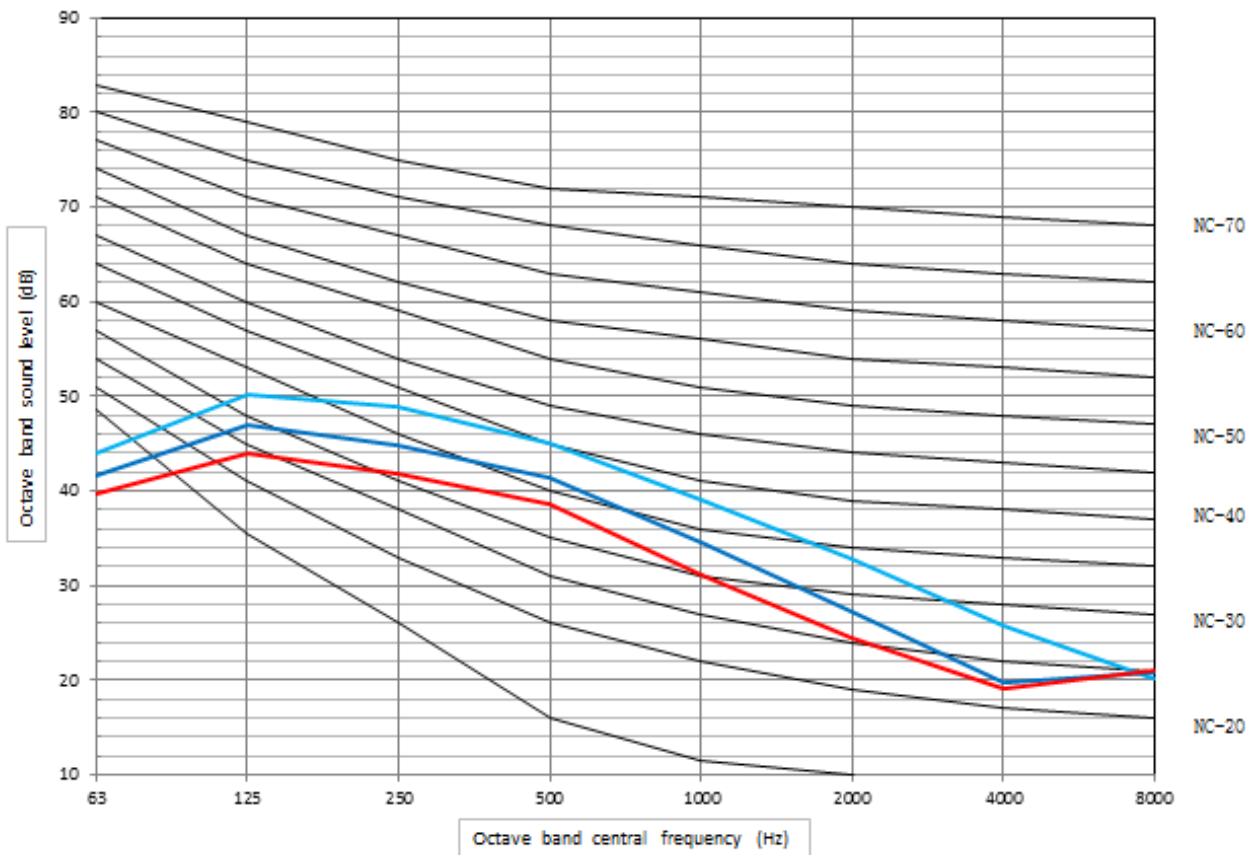


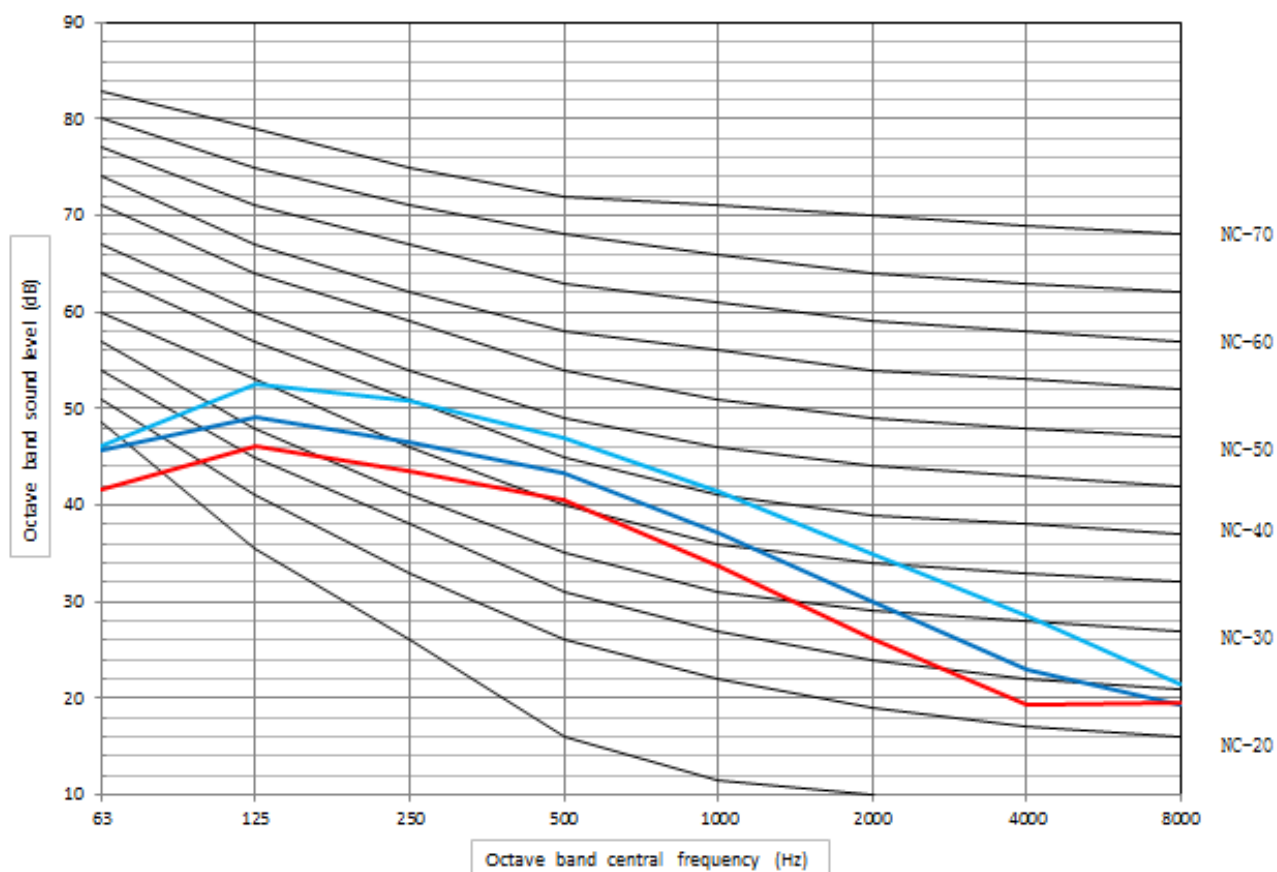
MDKA-V750R



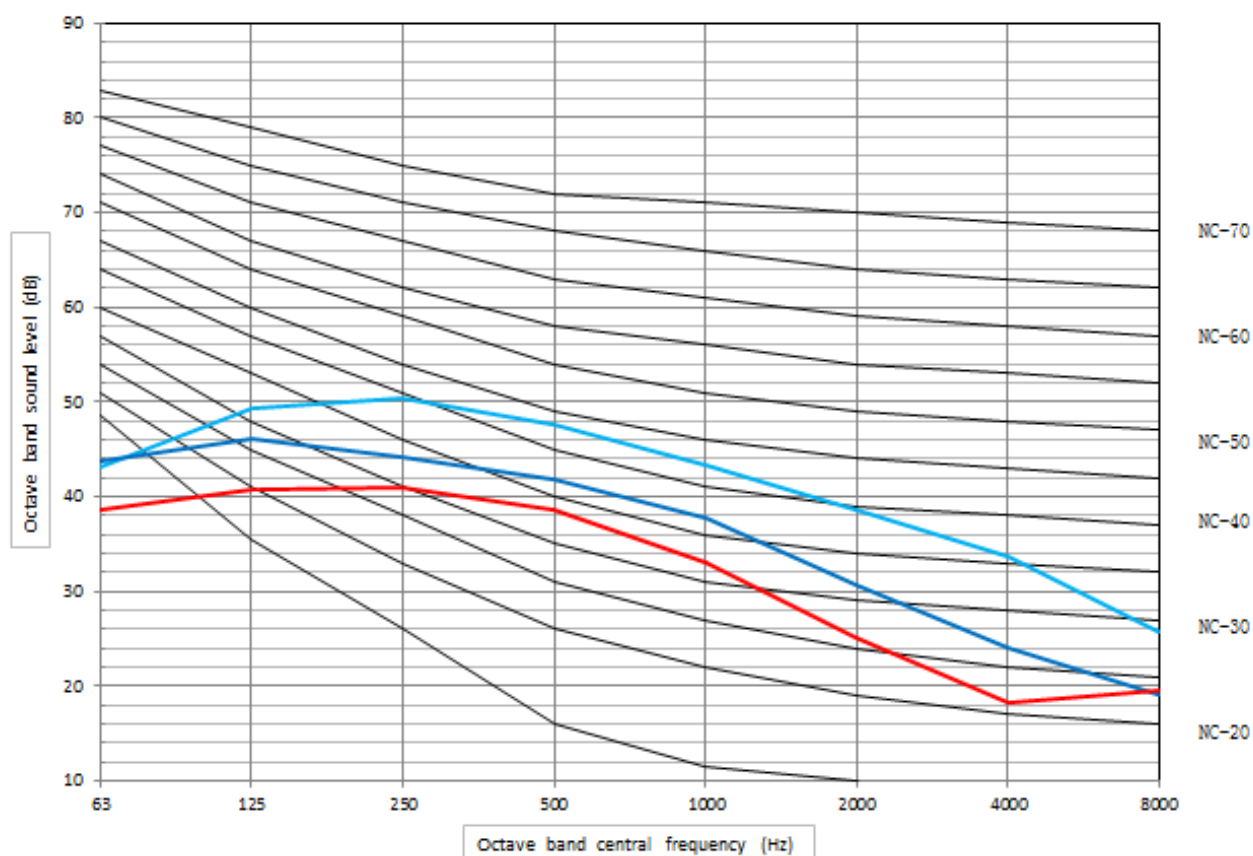


MDKA-V950R





MDKA-V1500R



8. Temperature and Airflow Distributions

8.1 Simulate condition

Model name	Room size (m)	Ceiling height (m)	Flow angle (Cooling/Heating)	Placing
MDKA-V600R	8*8	2.7	15° /50°	Center
MDKA-V750R	8*8	2.7	15° /50°	Center
MDKA-V850R	10*10	2.7	15° /50°	Center
MDKA-V950R	10*10	2.7	15° /50°	Center
MDKA-V1200R	10*10	2.7	15° /50°	Center
MDKA-V1500R	10*10	2.7	15° /50°	Center

Note:

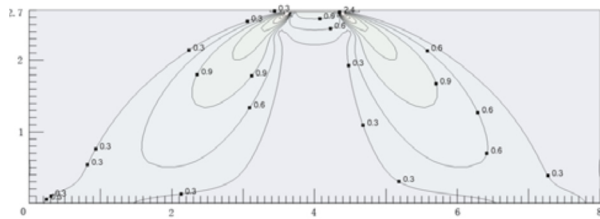
- These figures and videos are based on software simulation. They show typical temperature and airflow distributions in the conditions above. In the actual installation, they may differ from these figures and videos under the influence of air temperature conditions, ceiling height, cooling/heating load, obstacles, etc.

8.2 Airflow distributions (unit: m/s)

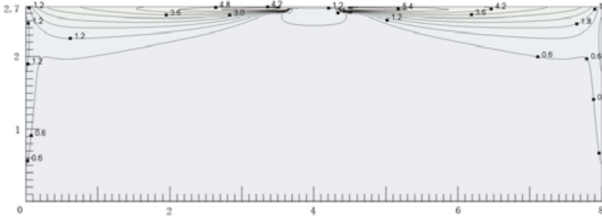
MDKA-V600R cooling at 300S



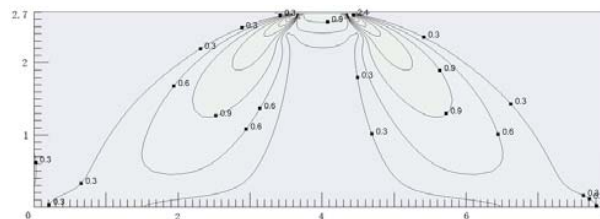
MDKA-V600R heating at 300S



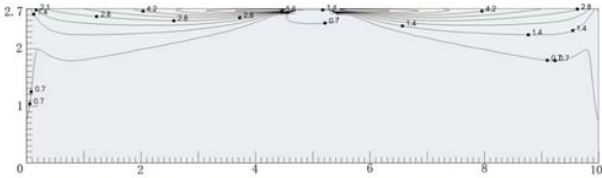
MDKA-V750R cooling at 300S



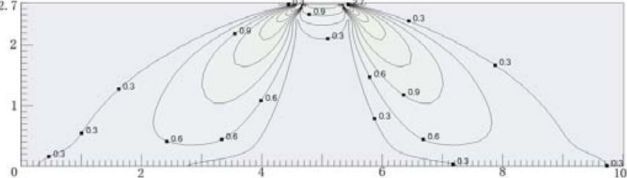
MDKA-V750R heating at 300S



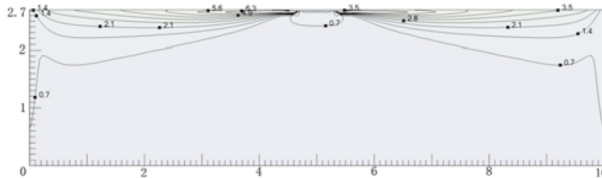
MDKA-V850R cooling at 300S



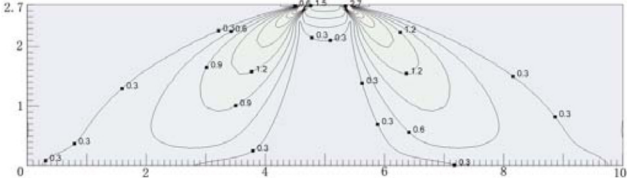
MDKA-V850R heating at 300S



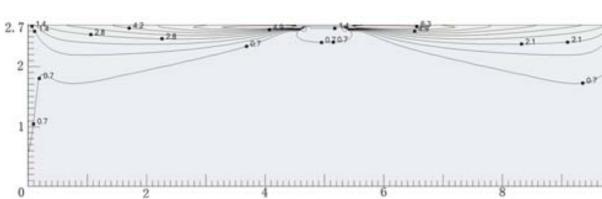
MDKA-V950R cooling at 300S



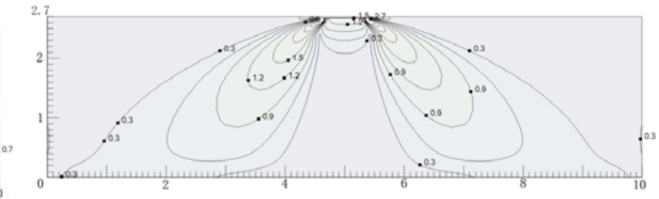
MDKA-V950R heating at 300S



MDKA-V1200R cooling at 300S



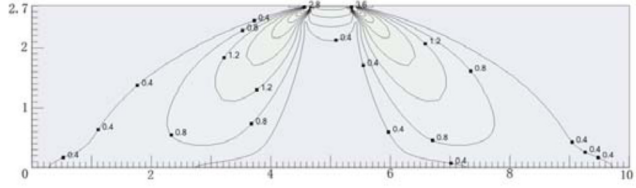
MDKA-V1200R heating at 300S



MDKA-V1500R cooling at 300S

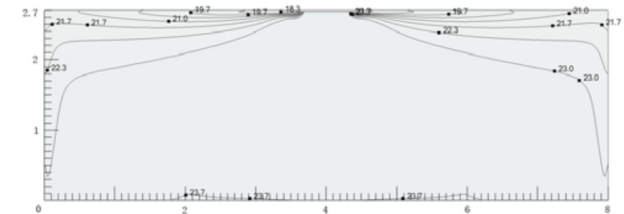


MDKA-V1500R heating at 300S

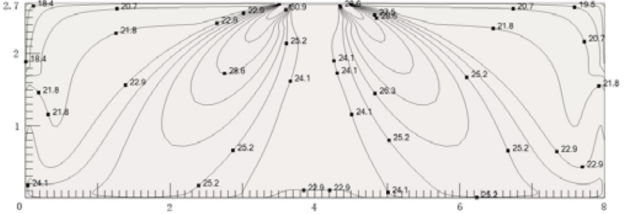


8.3 Temperature distributions (unit: °C)

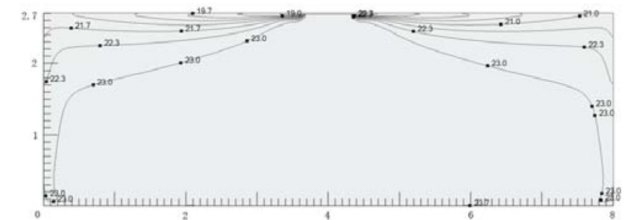
MDKA-V600R cooling at 300S



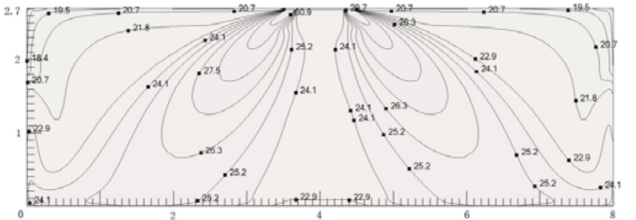
MDKA-V600R heating at 300S



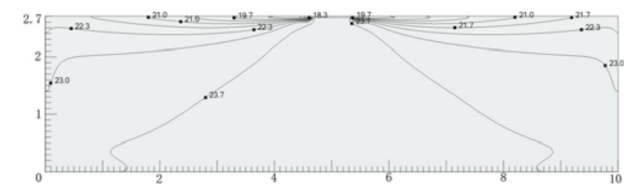
MDKA-V750R cooling at 300S



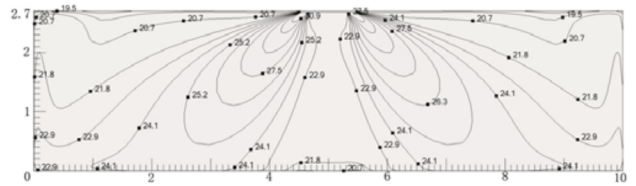
MDKA-V750R heating at 300S



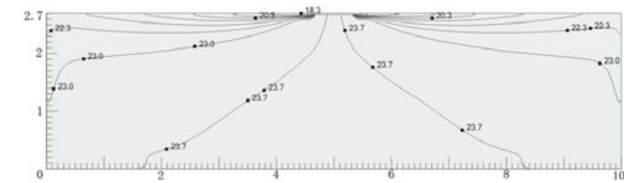
MDKA-V850R cooling at 300S



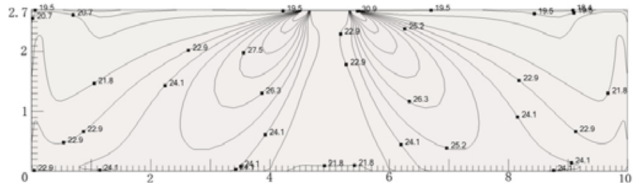
MDKA-V850R heating at 300S



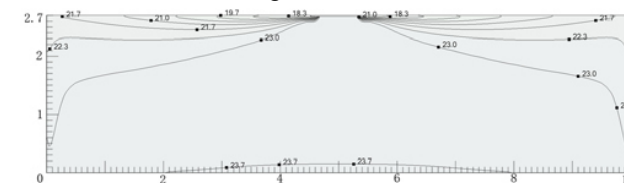
MDKA-V950R cooling at 300S



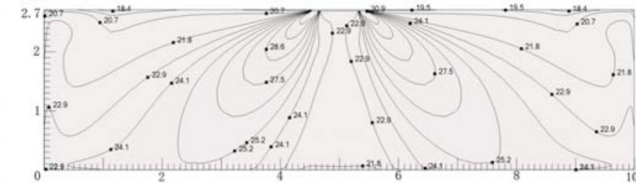
MDKA-V950R heating at 300S



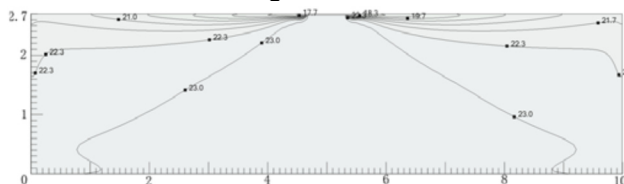
MDKA-V1200R cooling at 300S



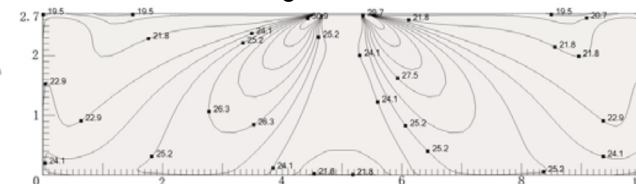
MDKA-V1200R heating at 300S



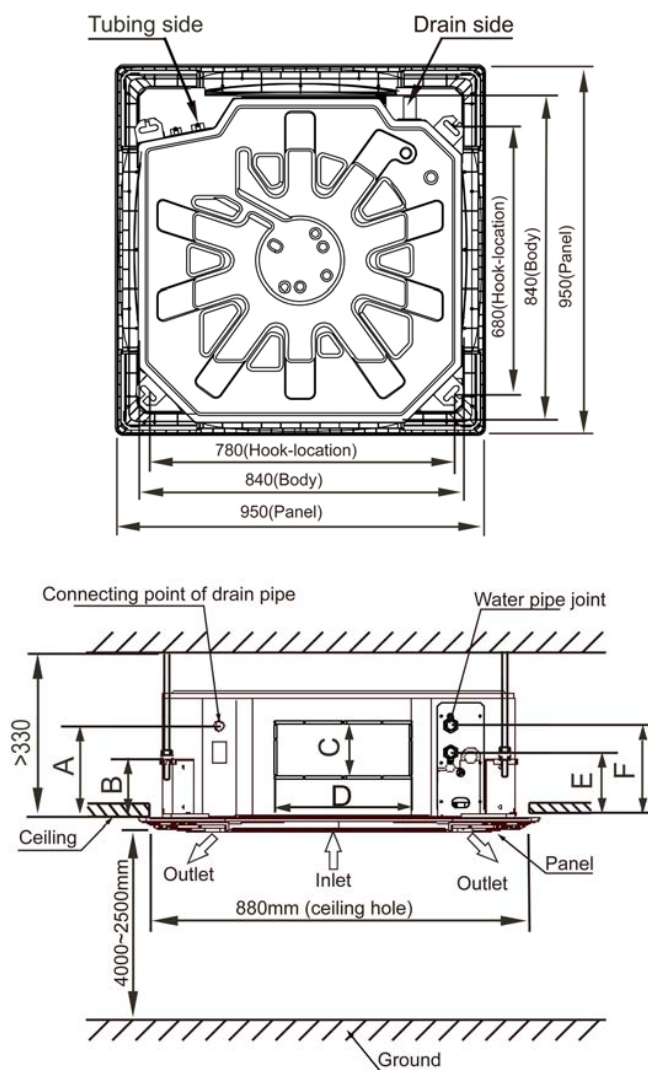
MDKA-V1500R cooling at 300S



MDKA-V1500R heating at 300S

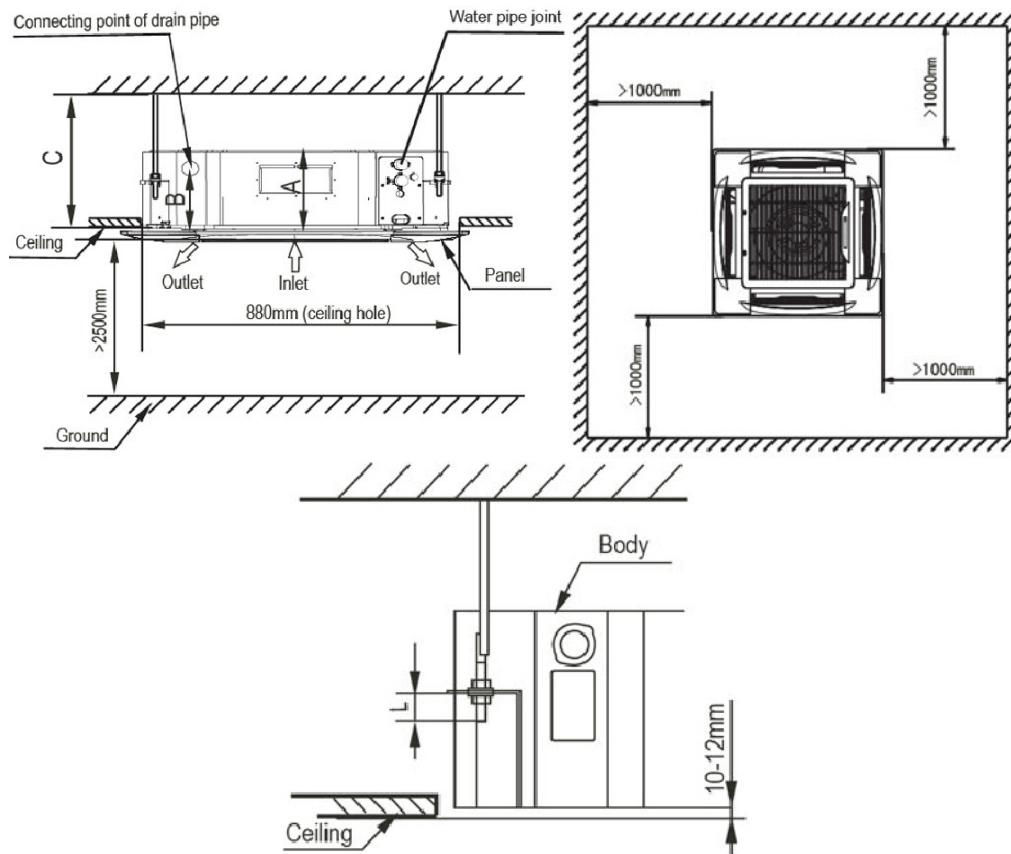


9. Dimension



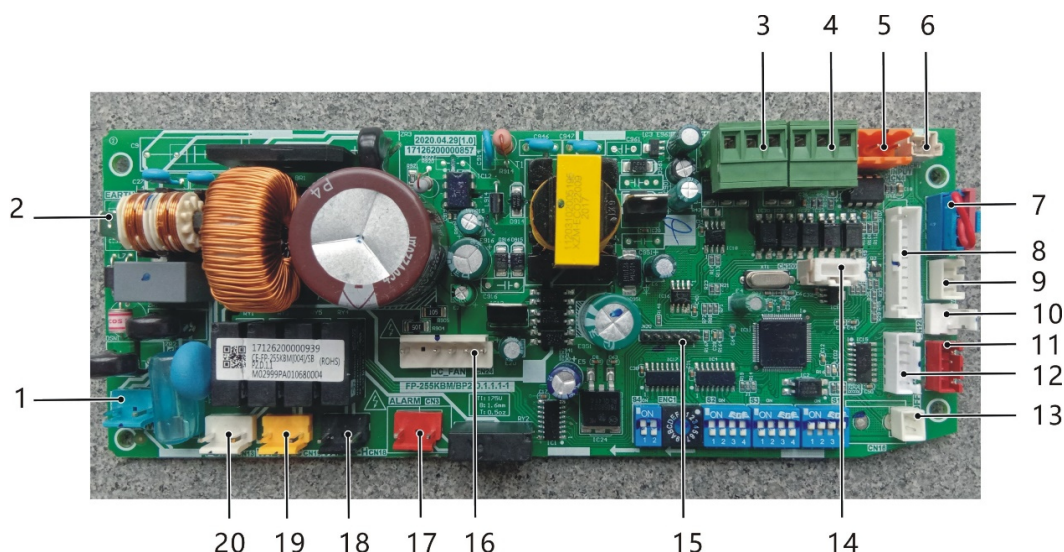
Model	A	B	C	D	E	F
600CFM, 750CFM	180	140	85	350	145	195
850CFM, 950CFM, 1200CFM, 1500CFM	180	140	155	350	155	205

10. Service Spaces



Model	A	B	C
600CFM, 750CFM	230	170	>260
850CFM, 950CFM, 1200CFM, 1500CFM	300	190	>330

11. Main PCB port



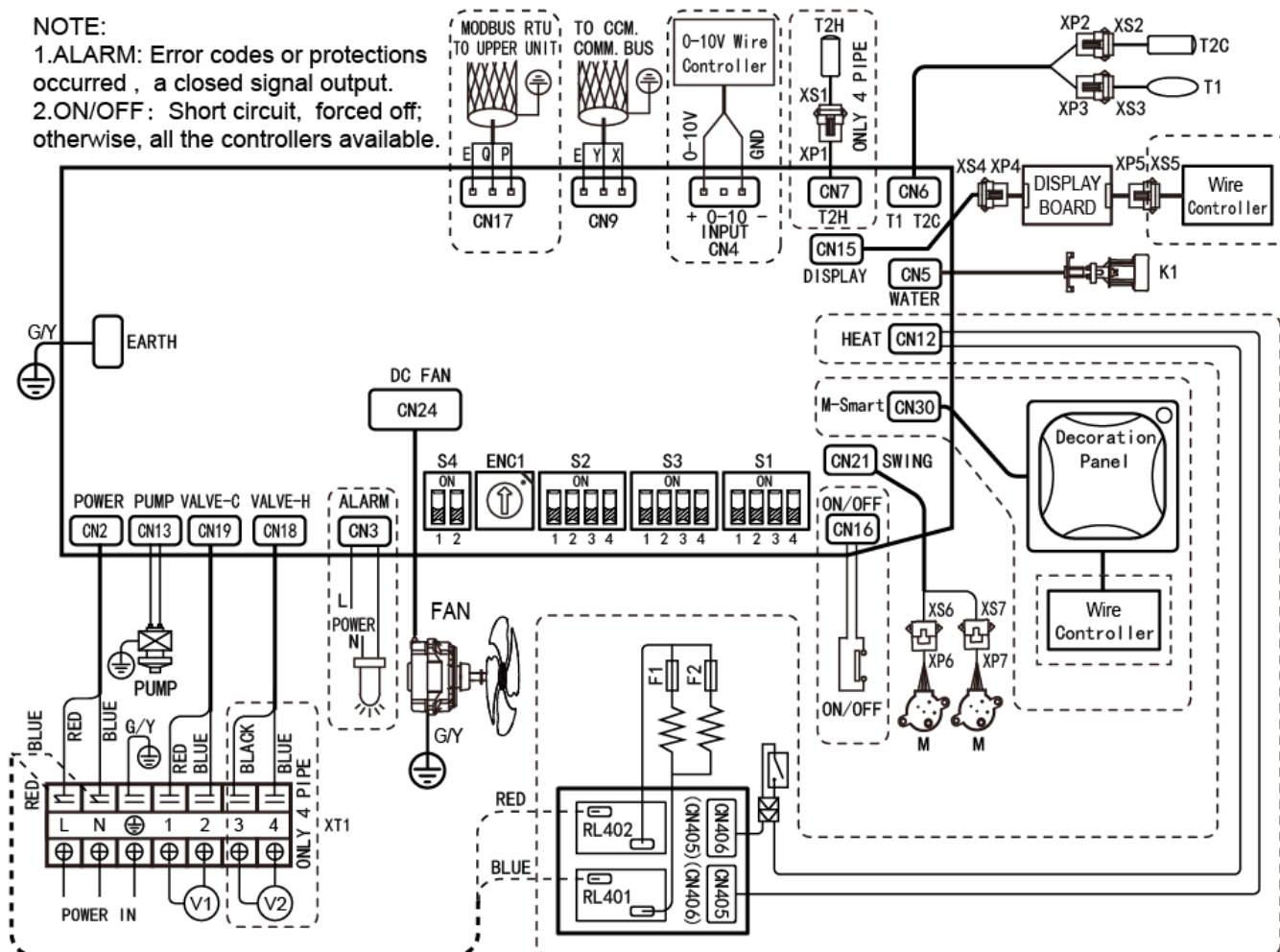
Main PCB port description:

No.	Bit No.	Description	Remarks
1	CN2	POWER: Mains input	Standard
2	EARTH	EARTH: Grounding screw position	Standard
3	CN17	PQE: Modbus communication port	Customized
4	CN9	XYE: Centralized control communication port	Customized
5	CN4	0-10V wire controller input port	Customized
6	CN7	T2H: Heating pipe temperature sensor port	Standard (four pipe only)
7	CN6	T2C: Refrigerating pipe temperature sensor port	Standard
		T1: Room temperature sensor port	
8	CN15	NEW DISPLAY: Display panel docking port (ten cores)	Standard
9	CN5	WATER: Water level switch port	Standard
10	CN12	HEAT: Control port for auxiliary electric heating relay	Customized
11	CN30	M-Smart: 360° annular air outlet panel docking port (four cores)	Standard
12	CN21	SWING: Swing motor port	Standard
13	CN16	ON/OFFF: Remote on/off port	Customized
14	CN300	DEBUG: Main control program burn port	Standard
15	CN20	E - side program burning port	Standard
16	CN24	DC_FAN: DC Fan	Standard
17	CN3	ALARM: Fault alarm output	Customized
18	CN18	VALVE-H: Heating 2-way/3-way valve (live line/null line)	Standard (four pipe only)
19	CN19	VALVE-C: Cooling 2-way/3-way valve (live line/null line)	Standard
20	CN13	PUMP: Water pump output port	Standard

12. Wiring Diagrams

NOTE:

- 1.ALARM: Error codes or protections occurred , a closed signal output.
- 2.ON/OFF: Short circuit, forced off; otherwise, all the controllers available.

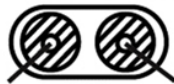


S1	S1-1		2 pipe(default)
			4 pipe
	S1-2		Without enforcement to turn wind(default)
			With enforcement to turn wind
	S1-3		Normal anti-cold wind(default)
			High temperature anti-cold wind
	S1-4		Turn on E-heater and heating valve (default)
			Turn on E-heater, turn off heating valve

S2	S2-1/2		Temp.compensation value is 0 under cool mode(default)
			Temp.compensation value is 1 under cool mode
	S2-1/2		Temp.compensation value is 2 under cool mode
			Temp.compensation value is 3 under cool mode
	S2-3/4		Temp.compensation value is 3 under heat mode(default)
			Temp.compensation value is 1 under heat mode
	S2-3/4		Temp.compensation value is 6 under heat mode
			Temp.compensation value is 8 under heat mode

ENC1 & S4	SWITCH FOR ADDRESS SETTING			Address 0-15
	'0-F' of the ENC1 and 'ON/OFF' of the S4, the different position represents a different address. Is be combined 64 address(0-63)			Address 16-31
				Address 32-47
				Address 48-63

Power supply
is grounded



Control board
is grounded

	0
	1

S3		MKA-V600R
		MKA-V750R
		MKA-V850R
		MKA-V950R
		MKA-V1200R
		MKA-V1500R

CODE	DESCRIPTION
CN1-30	P.C BOARD SOCKETS
K1	WATER LEVEL SWITCH
DC FAN	INDOOR DC FAN MOTOR
M	SWING MOTOR
PUMP	PUMP MOTOR
T1	ROOM TEMPERATURE
T2C/T2H	PIPE TEMPERATURE
XP1-7	CONNECTORS
XS1-7	CONNECTORS
XT1	7-WAY TERMINAL

13. Troubleshooting

Troubles and causes of air conditioner

If one of the following malfunctions occur, stop operation, shut off the power, and contact with your dealer.

- The operation lamp is flashing rapidly (five times per second), you disconnect the unit with the power and then connect the unit with the power again after two or three minutes but the lamps still flash.
- Switch operations are erratic.
- The fuse is blown frequently or the circuit breaker is tripped frequently.
- Foreign matter or water has fallen inside the air conditioner.
- Water leaks from the indoor unit.

If the system does not properly operate except the above mentioned cases or the above mentioned malfunctions are evident, investigate the system according to the following procedures.

Symptoms	Causes	Solution
Unit does not start.	• Power failure/ • Power switch is off. • Fuse of power switch may have burned. • Batteries of remote controller exhausted or other problem of controller.	• Wait for the comeback of power. • Switch on the power. • Replace the fuse. • Replace the batteries or check the controller.
Air flowing normally but completely can't cooling.	• Temperature is not set correctly.	• Set the temperature properly.
Units start or stop frequently.	• Air or no concreting gas in the watering circuit. • Three-way valve is malfunction. • Voltage is too high or too low. • System circuit is blocked. • Temperature is not set correctly.	• Vacuum. • Maintenance or change three-way valve. • Install manostat. • Find reasons and solution.
Low cooling effect.	• Indoor unit heat exchanger is dirty. • The air filter is dirty. • Inlet/outlet of indoor unit is blocked. • Doors and windows are open, sunlight directly shine. • Too much heat source. • Leakage of water.	• Clean the heat exchanger. • Clean the air filter. • Eliminate all dirties and make air smooth. • Close doors and windows. • Make curtains in order to shelter from sunshine. • Reduce heat source. • AC cooling capacity reduces (normal). • Check leakage.
Low heating effect.	• Doors and windows not completely closed. • Leakage of water.	• Use heating device. • Close doors and windows. • Check leakage.

Troubles and causes of remote controller

Before asking for serving or repairing, check the following points.

Symptoms	Causes	Solution
The fan speed cannot be changed.	Check whether the MODE indicated on the display is "AUTO"	When the automatic mode is selected, the air conditioner will automatically change the fan speed.
	Check whether the MODE indicated on the display is "DRY".	When dry operation is selected, the air conditioner changes the fan speed automatically. The fan speed can be selected during "COOL", "FAN ONLY", and "HEAT".
The remote controller signal is not transmitted even when the ON/OFF button is pushed.	Check whether the batteries in the remote controller are exhausted.	The power supply is off.
The TEMP. indicator does not come on.	Check whether the MODE indicated on display is FAN ONLY.	The temperature cannot be set during FAN mode.
The indication on the display disappears after a lapse of certain time.	Check whether the timer operation has come to an end when the TIMER OFF is indicated on the display.	The air conditioner operation will stop up to the set time.
The TIMER on indicator goes off after a lapse of certain time.	Check whether the timer operation is started when the TIMER ON is indicated on the display.	Up to the set time, the air conditioner will automatically start and the appropriate indicator will go off.
No receiving tone sounds from the indoor unit even when the ON/OFF button is pressed.	Check whether the signal transmitter of the remote controller is properly directed to the infrared signal receiver of the indoor unit when the ON/OFF button is pressed.	Directly transmit the signal transmitter of the remote controller to the infrared signal receiver of the indoor unit, and then repeatedly push the ON/OFF button twice.

Malfunctions and malfunction code

If anything happens like the situation described below, please shut off the power supply of the unit and contact with the customer service center immediately.

NO.	Malfunction	alarm lamp
1	Room temperature sensor check channel is abnormal.	E2
2	Evaporator sensor checking channel is abnormal.(T2C)	E3
3	Evaporator sensor checking channel is abnormal.(T2H)	E4
4	EEprom malfunction.	E7
5	Fan failure.	E8
6	Protection against freezing	P0
7	Excess water temperature protection	P1
8	Water-level switch malfunction.	EE
9	Not set models.	PF
10	Indoor unit switch at long-range controller is dialed to OFF.	---

14. Installation

14.1 Before Installation

Please check whether the accessories are of full scope. If there are some fittings free from use, please restore them carefully.

14.2 Installation space

(Refer to fig.14.1, fig.14.2, fig.14.3 and table 14.1 for specification.)

The indoor unit should be installed in a location that meets the following requirements:

- There is enough room for installation and maintenance.
- The ceiling is horizontal, and its structure can bear the weight of the indoor unit.
- The outlet and the inlet are not impeded, and the influence of external air is the least.
- The air flow can reach throughout the room.
- The connecting water pipe and drainpipe could be extracted out easily.
- There is no direct radiation from heaters.

Caution: Keep indoor unit, outdoor unit, power supply wiring and transmission wiring at least 1 meter away from televisions and radios. This is to prevent image interference and noise in those electrical appliances. (Noise may be generated depending on the conditions under which the electric wave is generated, even if 1 meter is kept.)

14.3 Installation procedures for fresh air intake duct connection

Preparing the connection hole

- Cut off the knockout hole on the side plate with a nipper.
- Cut the inner insulation of the hole portion with a cutter.

Placing the insulation

- Put the insulation tightly around the hole of the unit as shown.
- The ends of the side plate and the inner insulation must be completely adhered without leaving any clearance along the circumference of the hole. Make sure the inner surface of insulation tightly contacts the inner insulation edge and the side plate. (refer to fig.14.5)

14.4 Install the Main Body

A. The existing ceiling (to be horizontal)

- a. Cut a quadrangular hole of 880×880mm in the ceiling according to the shape of the installation paper board.
 - The center of the hole should be at the same position of that of the air conditioner body.
 - Determine the lengths and outlets of the connecting pipe, drain pipe and cables.
 - To balance the ceiling and to avoid vibration, please enforce the ceiling when necessary.
- b. Select the position of installation hooks according to the hook holes on the installation board.
 - Drill four holes of Ø12mm, 50~55mm deep at the selected positions on the ceiling. Then embed the expansible hooks (fittings).
 - Face the concave side of the installation hooks toward the expansible hooks. Determine the length of the installation hooks from the height of ceiling, and then cut off the unnecessary part.
 - If the ceiling is extremely high, please determine the length of the installation hook according to facts.
- c. Adjust the hexangular nuts on the four installation hooks evenly, to ensure the balance of the body.
 - If the drainpipe is awry, leakage will be caused by the malfunction of the water-level switch.

- Adjust the position to ensure the gaps between the body and the four sides of ceiling are even. The body's lower part should sink into the ceiling for 10~12 mm (refer to fig.14.6).
- In general, L is half of the screw length of the installation hook. (refer to fig.14.6)
- Locate the air conditioner firmly by wrenching the nuts after having adjusted the body's position well. (refer to fig.14.7)

B. New built houses and ceilings

- In the case of new built house, the hook can be embedded in advance (refer to the A. b mentioned above). But it should be strong enough to bear the indoor unit and will not become loose because of concrete shrinking.
- After installing the body, please fasten the installation paper board onto the air conditioner with bolts (M6×12) to determine in advance the sizes and positions of the hole opening on ceiling. (refer to fig.14.8)
 - Please first guarantee the flatness and horizontal of ceiling when installing it.
 - Refer to the A.a mentioned above for others.
- Refer to the A.c mentioned above for installation.
- Remove the installation paper board.

Caution: After installing the body, the four bolts (M6x12) must be fastened to the air conditioner onto ensure the body is grounded well.

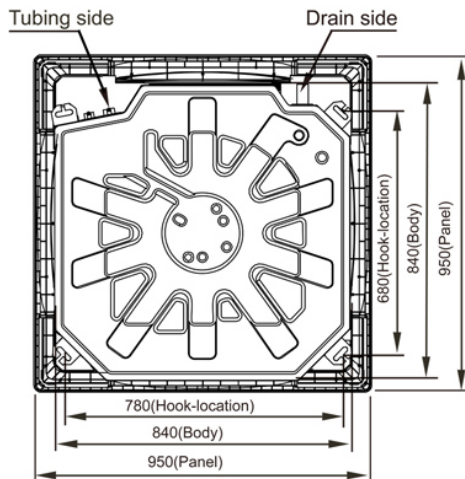


fig. 14.1

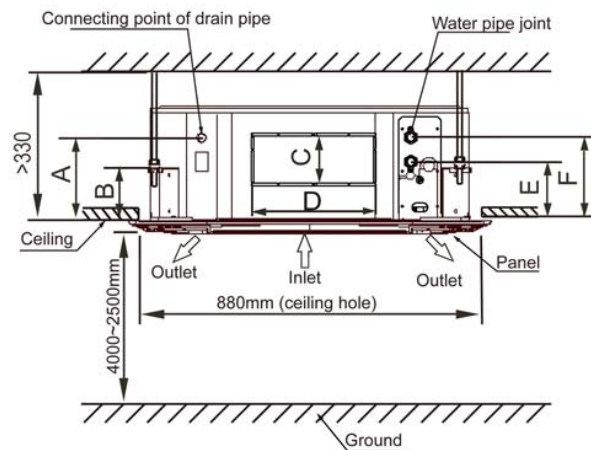


fig. 14.2

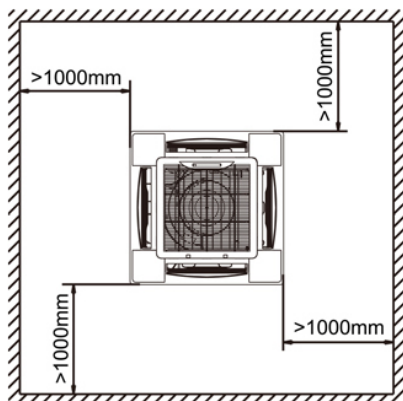


fig. 14.3

Table 14.1

Model	A	B	C	D	E	F
600CFM, 750CFM	180	140	85	350	145	195
850CFM, 950CFM, 1200CFM, 1500CFM	180	140	155	350	155	205

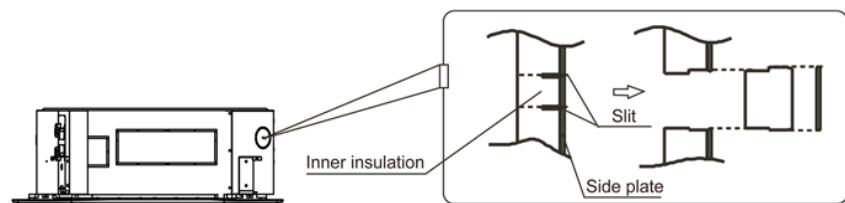


fig. 14.4

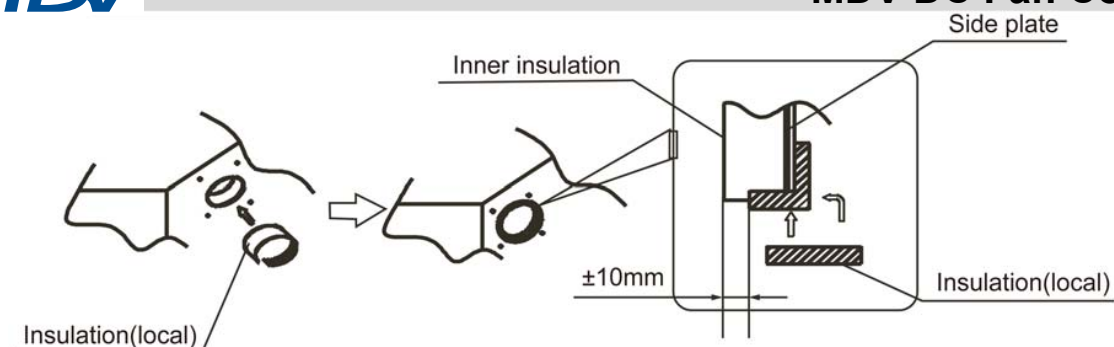


fig. 14.5

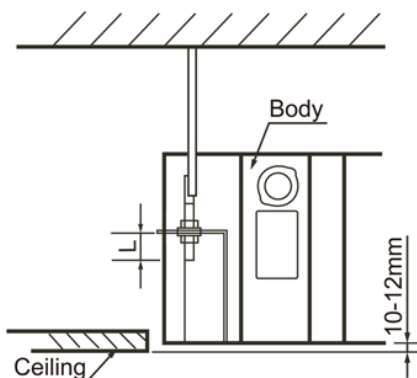


fig. 14.6

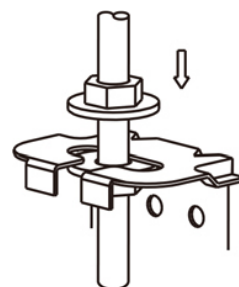


fig. 14.7

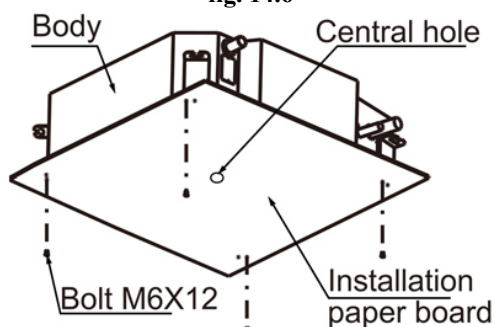


fig. 14.8

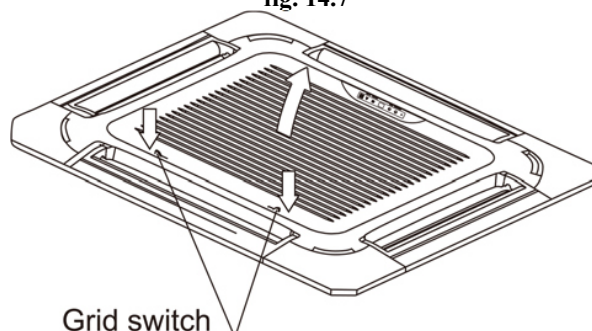


fig. 14.9

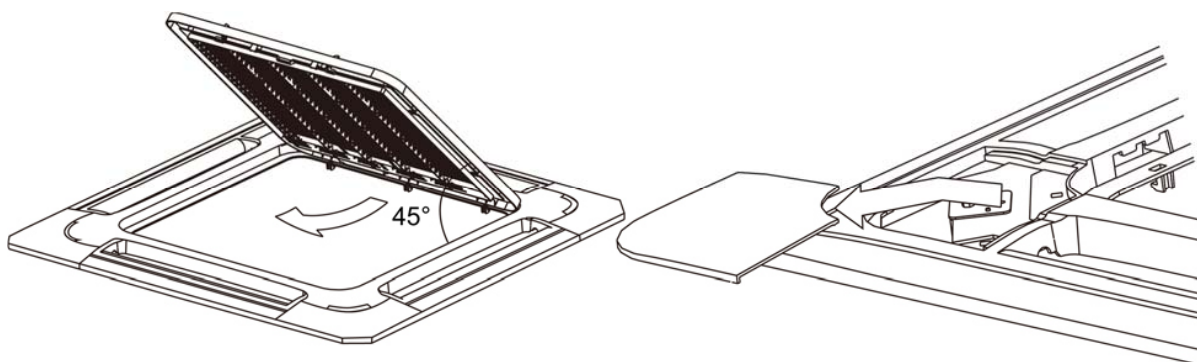


fig. 14.10

14.5 Install the Panel

Caution:

Never put the panel face down on floor or against the wall, or on bulgy objects.

Never crash or strike it.

(1) Remove the air inlet grill.

- Slide two grid switches toward the middle at the same time, and then pull them up. (Refer to fig. 14.9)
- Draw the grid up to an angle of about 45°, and remove it. (Refer to fig. 14.10)

(2) Remove the installation covers at the four corners.

Wrench off the bolts, loose the rope of the installation covers, and remove them. (Refer to fig. 14.10)

(3) Install the panel

- a. Align the swing motor on the panel to the tubing joints of the body properly.
- b. Fix hooks of the panel at swing motor and its opposite sides to the hooks of corresponding water receiver. Then hang the other two panel hooks onto corresponding hangers of the body.

Caution: Do not coil the wiring of the swing motor into the seal sponge.

- c. Adjust the four panel hook screws to keep the panel horizontal, and screw them up to the ceiling evenly.
- d. Regulate the panel in the direction of the arrow slightly to fit the panel's center to the center of the ceiling's opening. Guarantee that hooks of four corners are fixed well.
- e. Keep fastening the screws under the panel hooks, until the thickness of the sponge between the body and the panel's outlet has been reduced to about 4~6mm. The edge of the panel should contact with the ceiling well.
 - If the gap between the panel and ceiling still exists after fastening the screws, the height of the indoor unit should be modified again.
 - You can modify the height of the indoor unit through the openings on the panel's four corners; if the lift of the indoor unit and the drainpipe is not influenced.

(4) Hang the air-in grid to the panel, and then connect the lead terminator of the swing motor and that of the control box with corresponding terminators on the body respectively.
(5) Relocate the air-in grid in the procedure of reversed order.
(6) Relocate the installation cover.

- a. Fasten the rope of installation cover on the bolt of the installation cover.
- b. Press the installation cover into the panel slightly.

14.6 Connect the Drain Pipe

Install the drainpipe of the indoor unit

- The drainpipe can use PVC pipe (external diameter about 37~39mm, inner diameter is 32mm).
 - Joint drainpipe connector to the end side of water pumping pipe, and fix drainpipe together with water outflow pipe and thermal insulation tube by clasp of water outflow pipe (attached).
- Caution:** Don't use forcing strength to crack the water-pumping pipe.
- Water-pumping pipe and drainpipe from main body must be wrapped by insulation tube evenly, and bound by tighten band for obstructing air getting in and coagulation.
 - Prevent from water backflow into unit inside during shutdown, the drain pipe shall place down side and drain water to outdoor (drain side), the gradient of the drain pipe should be higher than (1/100), without salient and water remain. (Refer to fig.14.11 a)
 - When connecting drainpipe, don't drag the pipe that would pull the main unit. For this, please arrange bearing points every 0.8 to 1.0 meter to avoid pipe be bended (See fig.14.11 b).
 - When connect a lengthen drainpipe, apply protective tube to wrap its indoor parts for ensuring the lengthen part connected tightly.
 - In case the drainpipe outlet is higher than pumping connective pipe of the main body, the drainpipe must be arranged upwards vertically by using connective assembly of the water outlet for vertical bending, and the height of the drainpipe shall set to the defrosting pan surface no more than 1000mm, otherwise, too much

backflow while shutdown would leads to overflow (refer to fig.14.12).

- Base on the actual requirement to bend piping, and use connective assembly of water outlet in terminal box for pipe layout.

Caution: The joints in drain system must be sealed to avoid water leakage.

- The height from floor to the end of drainpipe or the bottom of drain slot must more than 50 mm. Don't immerse the end of drainpipe or the bottom of drain slot into water. When drain condensate liquid to raceway, please bend the drainpipe to a U-shaped hydroseal for avoiding stench transmitted by drainpipe to indoor.

Note: All the pictures in this manual are for explanation purpose only. They may be slightly different from the air conditioner you purchased (depend on model).The actual shape shall prevail.

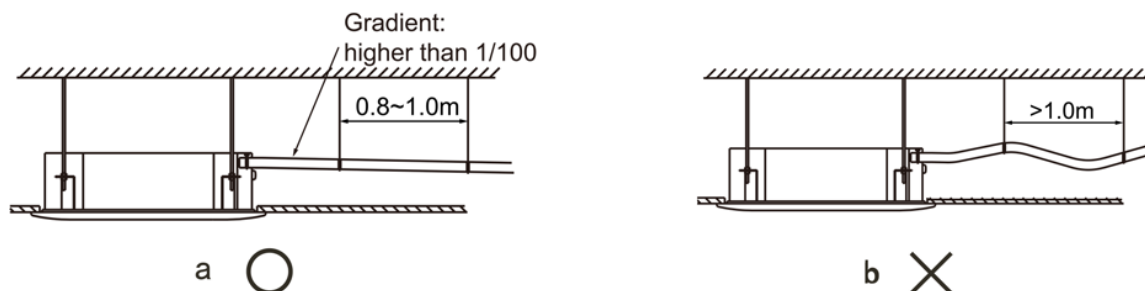


fig. 14.11

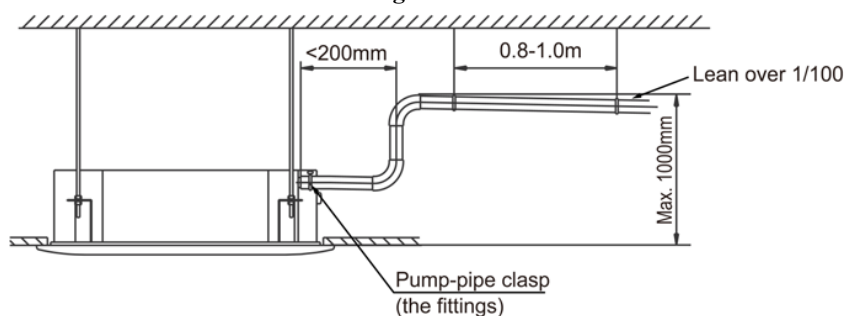


fig. 14.12

Drainage test

- Check whether the drainpipe is unhindered
 - New built house should have this test done before paving the ceiling.
1. Remove the test cover, and stow water of about 2000ml to the water receiver through the stow tube.
 2. Turn on the power, and operate the air conditioner under the "COOLING" mode. Listen to the sound of the drain pump. Check whether the water is discharged well (a lag of 1min is allowed before discharging, according to the length of the drain pipe), and check whether water leaks from the joints.
- Caution:** If there is any malfunction, please resolve it immediately.
3. Stop the air conditioner for three minutes, check if everything is ok. If the drain hose is located unreasonable, water overflow will cause the Alarm indicator lamp flashing (For both cooling and heating type or cooling only type), even the water leak out from the water receiver.
 4. Check the drain pump whether drain water immediately when alarm sound for the high water lever. If the water lever can't come down below to the limited water lever, the air conditioner will stop. Restart it until turn off the power and drain off all the water.
 5. Turn off the power, drain the water away.
- The drain plug is used to empty the water-receiver for maintenance of the air conditioner. Please stuff it imposition at all times during operation to avoid leakage.

Caution:

- The air conditioner should use separate power supply with rated voltage.
- The external power supply to the air conditioner should have ground wiring, which is linked to the ground wiring of the indoor and outdoor unit.
- The wiring work should be done by qualified persons according to circuit drawing.
- An all-pole disconnection device which has at least 3mm separation distance in all pole and a residual current device (RCD) with the rating of above 10mA shall be incorporated in the fixed wiring according to the national rule.
- The appliance shall be installed in accordance with national wiring regulations.
- Be sure to locate the power wiring and the signal wirings well to avoid cross-disturbance.
- Do not turn on the power until you have checked carefully after wiring.

Note: Remark per EMC Directive 2004/108/EC for to prevent flicker impressions during the start of the compressor (technical process), following installation conditions do apply.

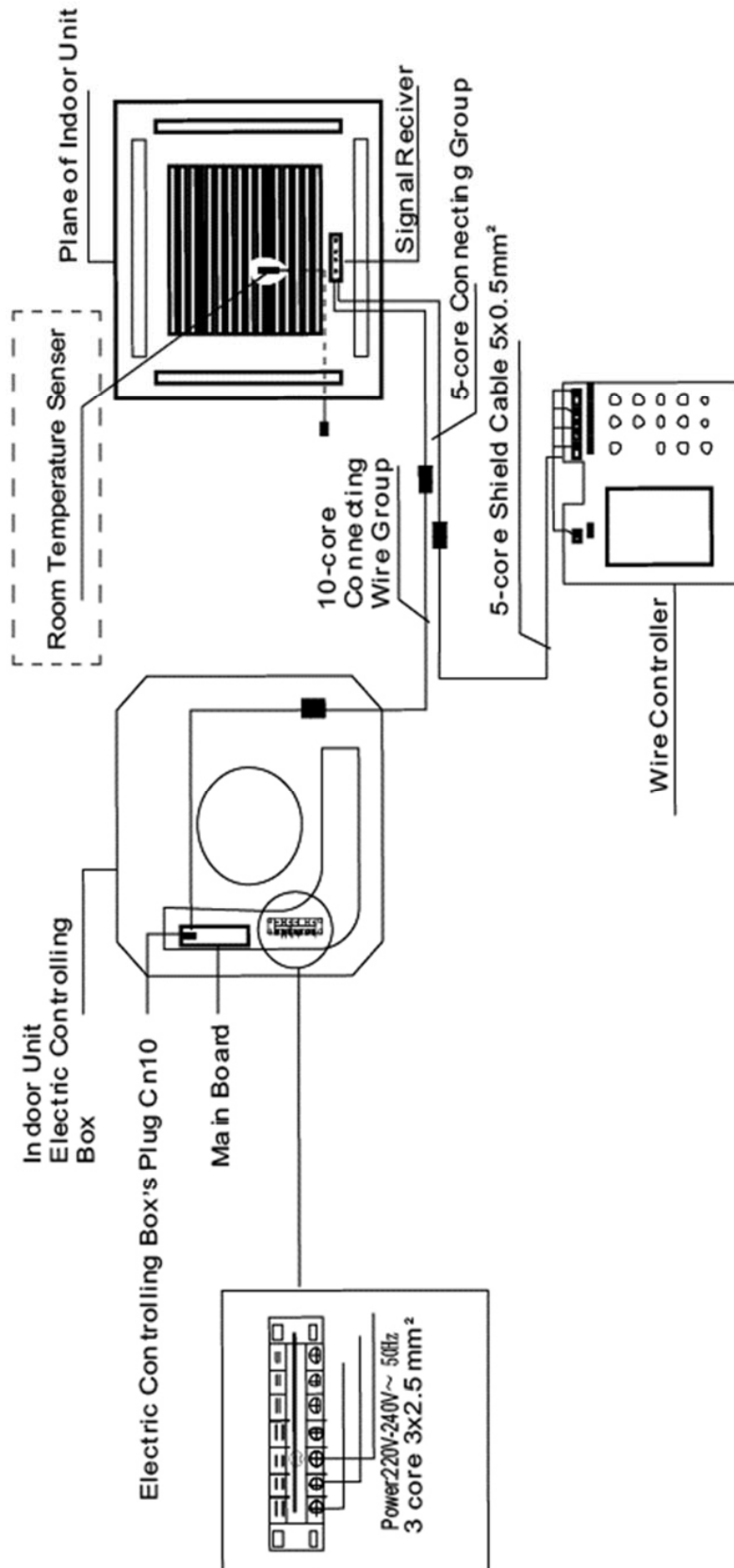
1. The power connection for the air conditioner has to be done at the main power distribution. The distribution has to be of low impedance; normally the required impedance reaches at a 32A fusing point.
2. No other equipment has to be connected with this power line.
3. For detailed installation acceptance please refer to your power supplier, if restrictions do apply for products like washing machines, air conditioners or electrical ovens.
4. For power details of the air conditioner refer to the rating plate of the product.
5. For any question contact your local dealer.

14.7.1 Connect the cable

- Disassemble the bolts from the cover.(If there isn't a cover on the outdoor unit, disassemble the bolts from the maintenance board, and pull it in the direction of the arrow to remove the protection board.)
- Connect the connective cables to the terminals as identified with their respective matched numbers on the terminal block of indoor and outdoor units.
- Re-install the cover or the protection board.

AIR FLOW (m ³ /h)		510~2550
POWER	PHASE	1-phase
	FREQUENCY AND VOLT	220-240V~ 50Hz
CIRCUIT BREAKER/FUSE (A)		15/15
INDOOR UNIT POWER WIRING (mm ²)	BELOW 20m	Twisted pair wire 2.5 mm ²
	BELOW 50m	Twisted pair wire 6 mm ²
GROUND WIRING (mm ²)		2.5

(The power cord type designation is H05RN-F or above.)



Note: If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

If you choose a new panel, the room temperature sensor is not available.

14.8 Test operation

- The test operation must be carried out after the entire installation has been completed.
- Please confirm the following points before the test operation:
 - The indoor unit and outdoor unit are installed properly.
 - Tubing and wiring are correctly completed.
 - The water pipe system is leakage-checked. The drainage is unimpeded.
 - The heating insulation works well.
 - The ground wiring is connected correctly.
 - The length of the tubing has been recorded.
 - The power voltage fits the rated voltage of the air conditioner.
 - There is no obstacle at the outlet and inlet of the outdoor and indoor units.
 - The air conditioner is pre-heated by turning on the power.
- According to the user's requirement, install the remote controller frame where the remote controller's signal can reach the indoor unit smoothly.
- Test operation

Set the air conditioner under the mode of "COOLING" with the remote controller, and check the following points. If there is any malfunction, please resolve it according to the chapter "Troubleshooting" in the "Owner's Manual".

 - a. Whether the switch on the remote controller works well.
 - b. Whether the buttons on the remote controller works well.
 - c. Whether the air flow louver moves normally.
 - d. Whether the room temperature is adjusted well.
 - e. Whether the indicator lights normally.
 - f. Whether the temporary buttons works well.
 - g. Whether the drainage is normal.
 - h. Whether there is vibration or abnormal noise during operation.
 - i. Whether the air conditioner heats well in the case of the HEATING/COOLING type.

Caution: A protection feature prevents the air conditioner from being activated for approximately 3 minutes when it is restarted immediately after shut off.