

Minichillers Full DC Inverter R-32

PRODUCT SHEET



KCCHT-05 MODBUS
Standard controller

Product certified by:

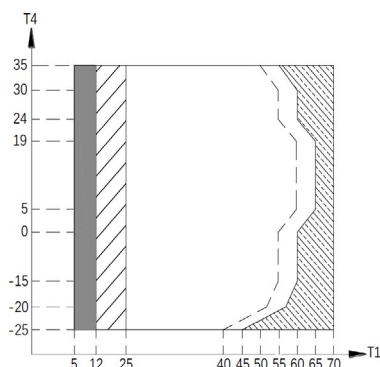


FEATURES

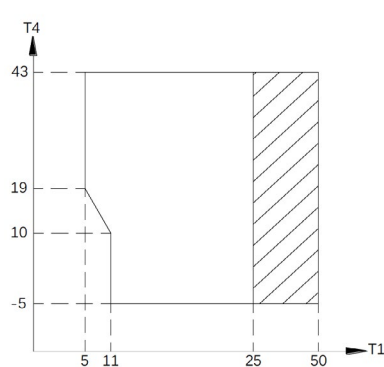
Model	KEM-05 DVR	KEM-07 DVR	KEM-09 DVR
Cooling capacity	5,5 kW	7,4 kW	9 kW
Cooling power input	1.692 W	2.349 W	3.103 W
Heating capacity	6,6 kW	8,5 kW	10,2 kW
Heating power input	1.650 W	2.237 W	2.795 W
EER / COP	3,25 / 4	3,15 / 3,8	2,9 / 3,65
SEER	5,09	5,19	5,08
SCOP (average zone water 35 °C) - Energy class	5,12 - A+++	5,18 - A+++	5,12 - A+++
Compressor type / No. compressors	Rotary Inverter / 1		
No. fans	1	1	1
Air flow	3.900 m³/h	4.500 m³/h	4.500 m³/h
Sound pressure	64 dB(A)	66 dB(A)	68 dB(A)
Refrigerant charge	1,3 kg	1,3 kg	1,3 kg
Water flow	0,9 m³/h	1,3 m³/h	1,3 m³/h
Volume of expansion tank	5 l	5 l	5 l
Available pressure pump	90 kPa	90 kPa	90 kPa
Hydraulic connections	1"	1"	1"
Power supply	220-240V / 1 / 50 Hz		

OPERATING LIMITS

Heating mode



Cooling mode

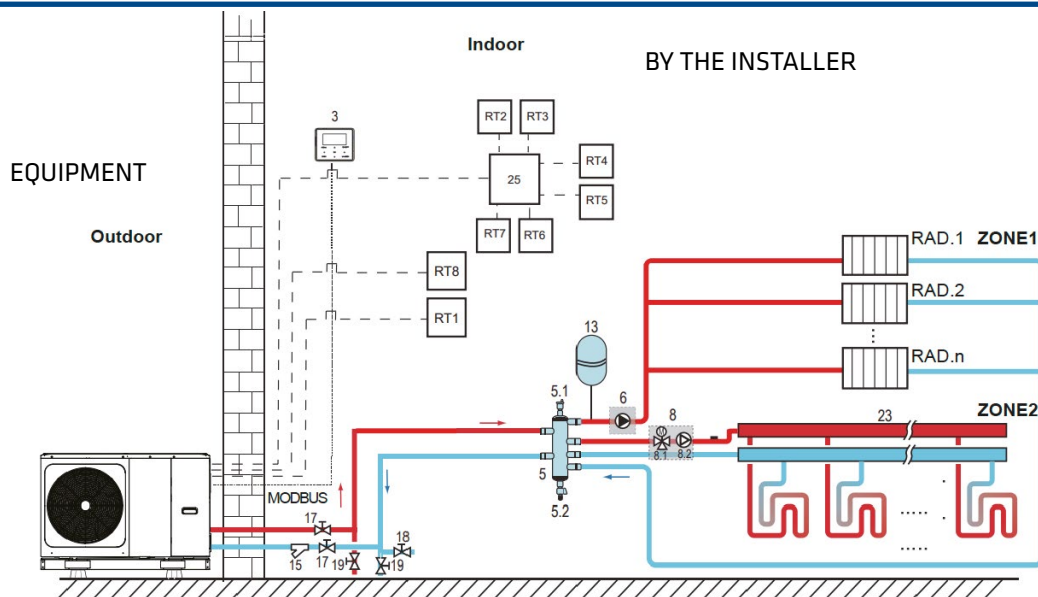


NOTES:

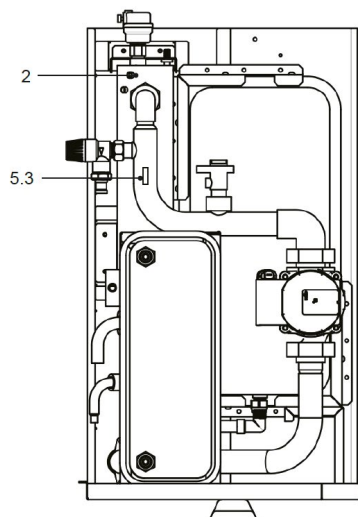
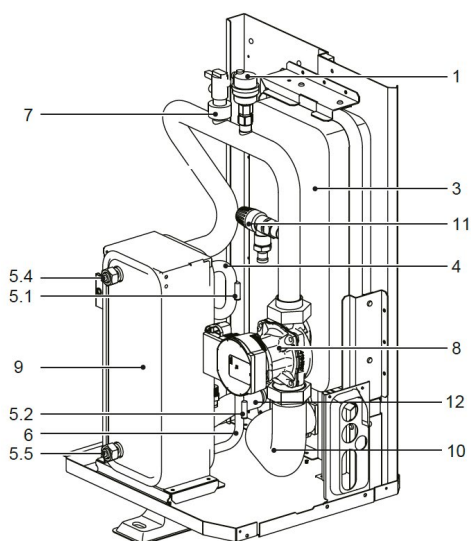
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RECOMMENDED INSTALLATION

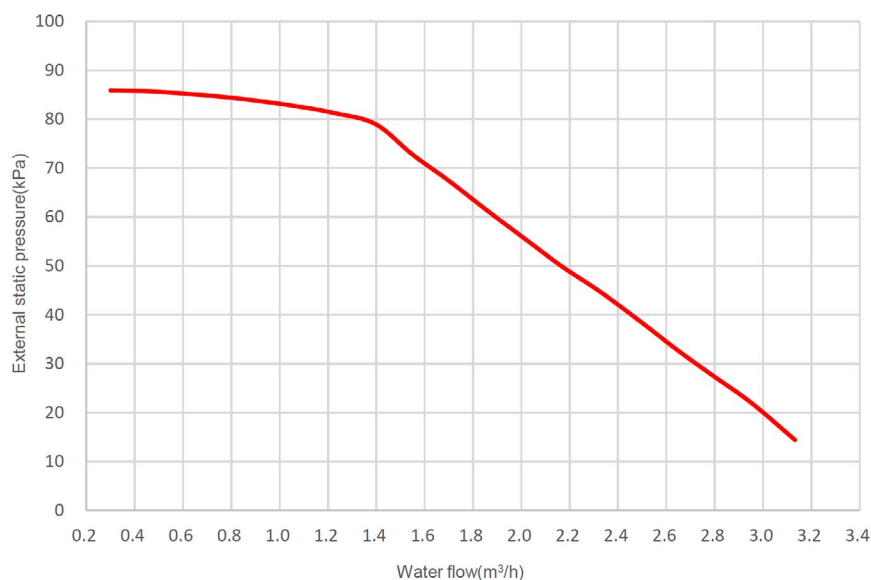


HYDRAULIC MODULE



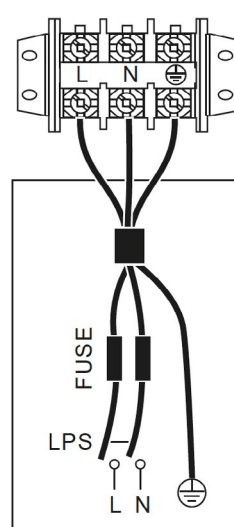
1. Air purge valve
2. Backup heater
3. Expansion vessel
4. Refrigerant gas pipe
5. Temperature sensor
6. Refrigerant liquid pipe
7. Flow switch
8. Pump
9. Plate heat exchanger
10. Water outlet pipe
11. Pressure relief valve
12. Water inlet pipe

WATER PUMP PERFORMANCE

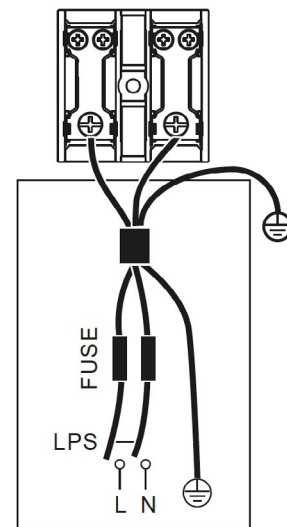


ELECTRIC CONNECTION

Rated current of appliance (A)	Nominal cross-sectional area (mm ²)	
	Flexible cords	Cable for fixed wiring
≤ 3	0,5 & 0,75	1 & 2,5
> 3 & ≤ 6	0,75 & 1	1 & 2,5
> 6 & ≤ 10	1 & 1,5	1 & 2,5
> 10 & ≤ 16	1,5 & 2,5	1,5 & 4
> 16 & ≤ 25	2,5 & 4	2,5 & 6
> 25 & ≤ 32	4 & 6	4 & 10
> 32 & ≤ 50	6 & 10	6 & 16
> 50 & ≤ 63	10 & 16	10 & 25



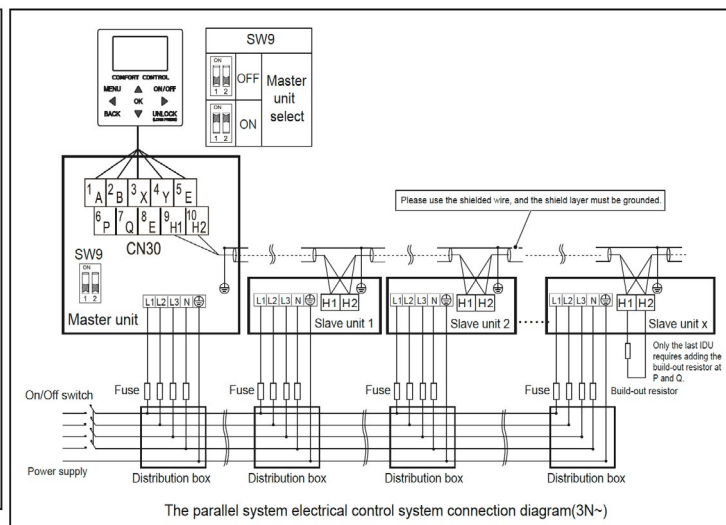
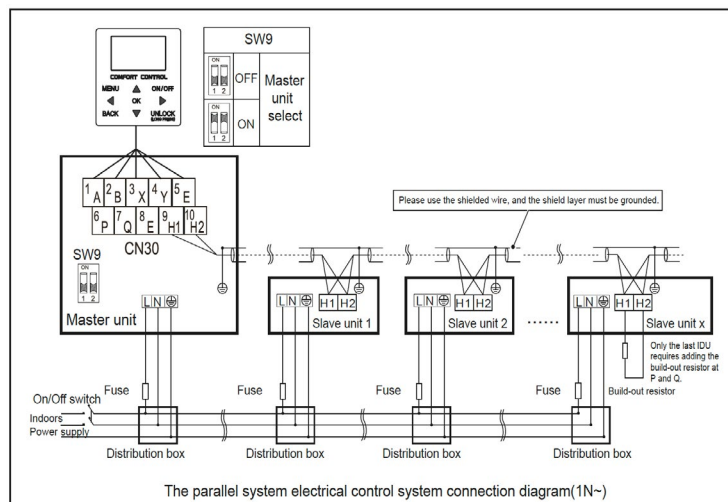
UNIT POWER SUPPLY
1-phase



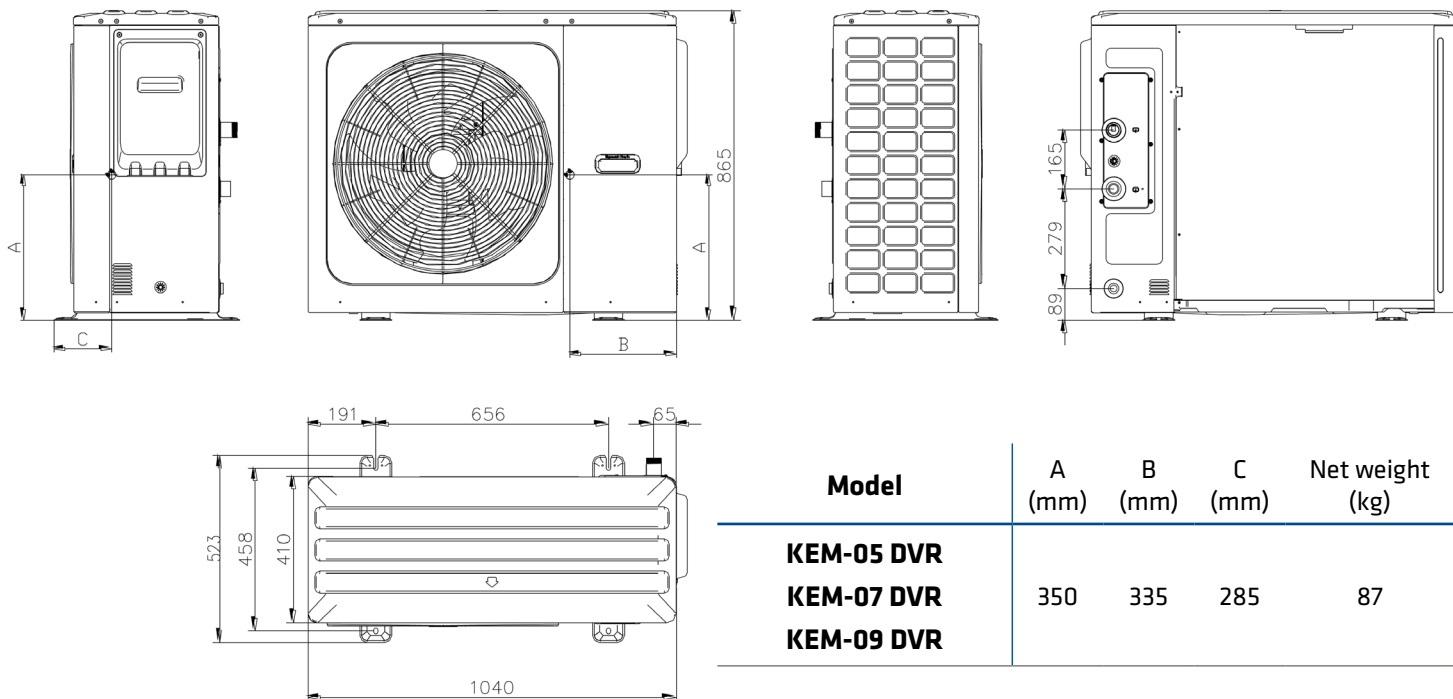
UNIT POWER SUPPLY
1-phase

System	Outdoor unit				Power current			Compressor		OFM	
	Voltage (V)	Hz	Min. (V)	Max. (V)	MCA (A)	TOCA (A)	MFA (A)	MSC (A)	RLA (A)	KW	FLA (A)
4 kW	220-240	50	198	264	12	18	25	-	11,50	0,10	0,50
6 kW	220-240	50	198	264	14	18	25	-	13,50	0,10	0,50
8 kW	220-240	50	198	264	16	19	25	-	14,50	0,17	1,50

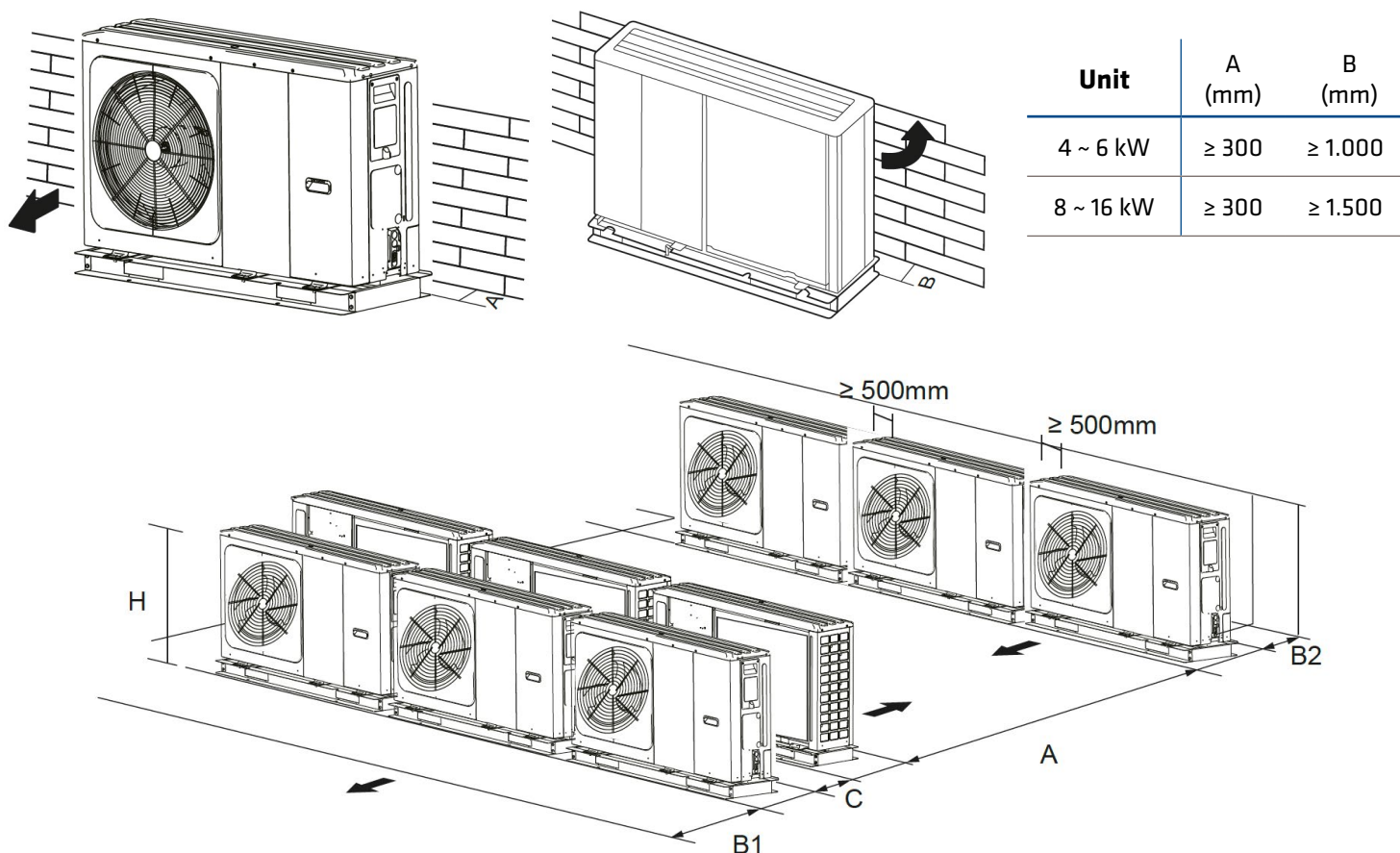
CONTROL CONNECTION & MASTER OPTION



DIMENSIONS OF UNIT



INSTALLATION



Unit	A (mm)	B1 (mm)	B2 (mm)	C (mm)
4 ~ 6 kW	≥ 2.500	≥ 1.000	≥ 300	≥ 600
8 ~ 16 kW	≥ 3.000	≥ 1.500	≥ 300	≥ 600

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PRODUCT SHEET



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Standard controller

Product certified by:

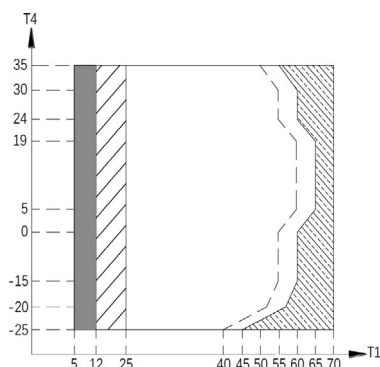


FEATURES

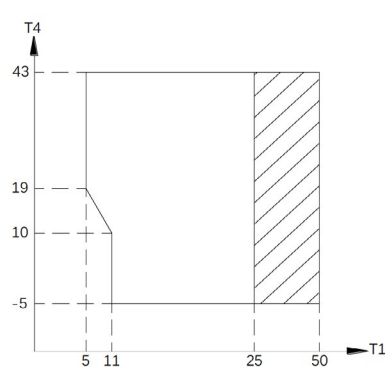
Model	KEM-12 DVR	KEM-14 DVR	KEM-16 DVR
Cooling capacity	11,6 kW	13,4 kW	14 kW
Cooling power input	3.742 W	4.573 W	4.828 W
Heating capacity	12,5 kW	14,5 kW	16,2 kW
Heating power input	3.378 W	4.085 W	4.695 W
EER / COP	3,1 / 3,7	2,93 / 3,55	2,9 / 3,45
SEER	5,07	5,09	5,11
SCOP (average zone water 35 °C) - Energy class	5,08 - A+++	4,89 - A+++	4,84 - A+++
Compressor type / No. compressors	Rotary Inverter / 1		
No. fans	1	1	1
Air flow	5.200 m³/h	5.200 m³/h	5.200 m³/h
Sound pressure	69 dB(A)	71 dB(A)	71 dB(A)
Refrigerant charge	1,8 kg	1,8 kg	1,8 kg
Water flow	2 m³/h	2,3 m³/h	2,4 m³/h
Volume of expansion tank	5 l	5 l	5 l
Available pressure pump	90 kPa	90 kPa	90 kPa
Hydraulic connections	1 1/4"	1 1/4"	1 1/4"
Power supply	220-240V / 1 / 50 Hz		

OPERATING LIMITS

Heating mode



Cooling mode

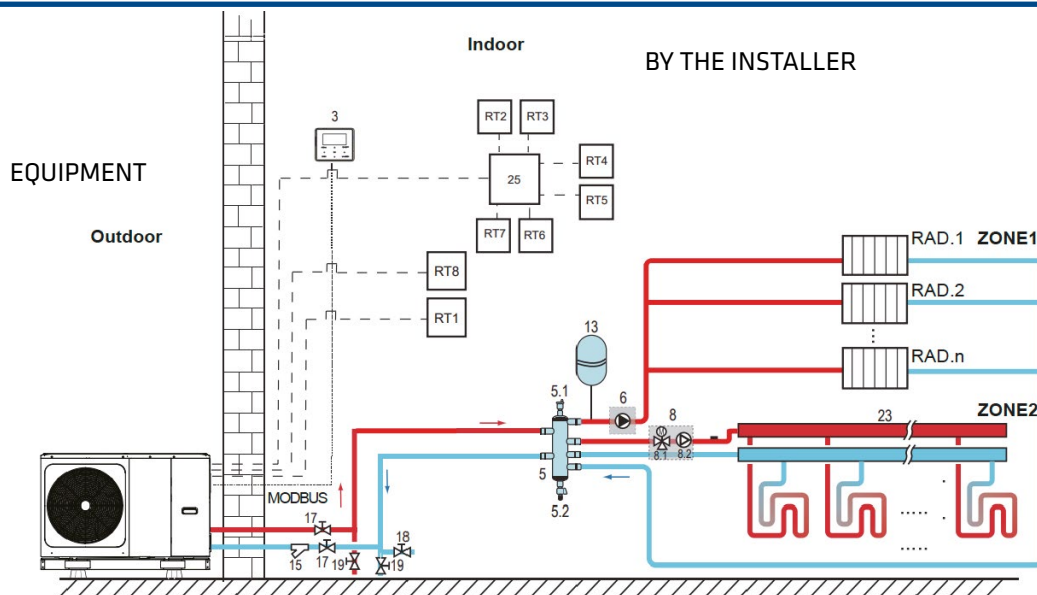


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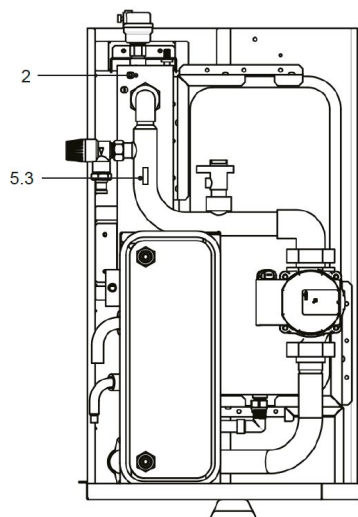
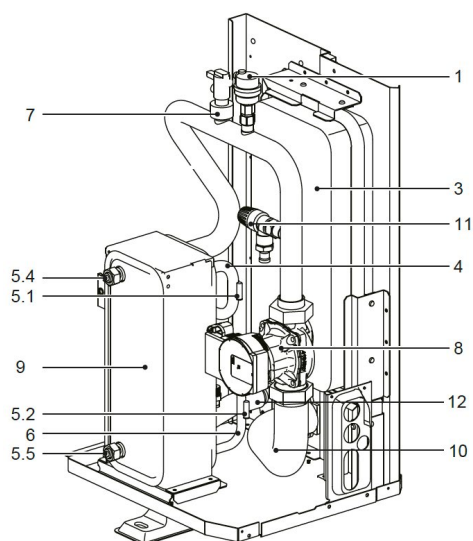
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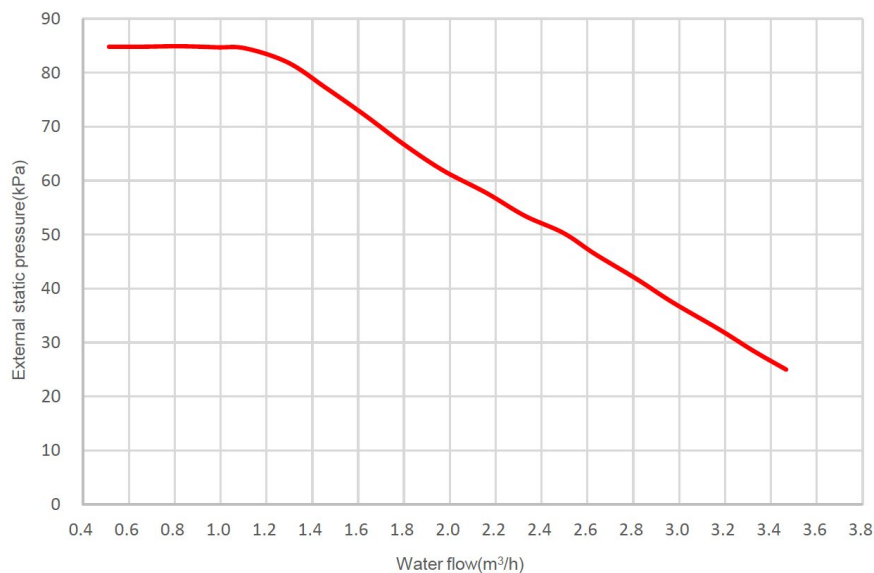


HYDRAULIC MODULE



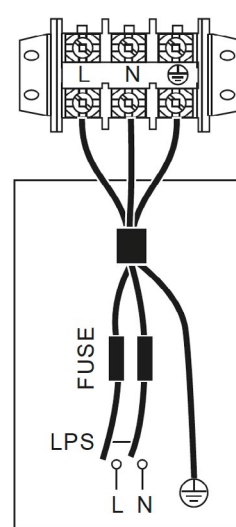
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2. Backup heater
3. Expansion vessel
4. Refrigerant gas pipe
5. Temperature sensor
6. Refrigerant liquid pipe
7. Flow switch
8. Pump
9. Plate heat exchanger
10. Water outlet pipe
11. Pressure relief valve
12. Water inlet pipe

WATER PUMP PERFORMANCE

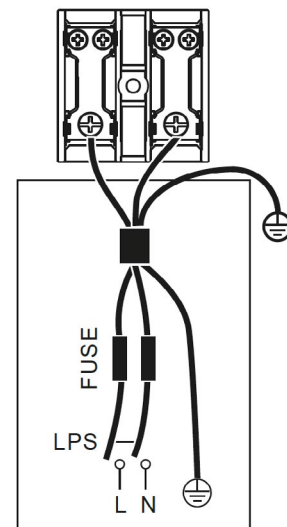


ELECTRIC CONNECTION

Rated current of appliance (A)	Nominal cross-sectional area (mm ²)	
	Flexible cords	Cable for fixed wiring
≤ 3	0,5 & 0,75	1 & 2,5
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> 6 & ≤ 10	1 & 1,5	1 & 2,5
> 10 & ≤ 16	1,5 & 2,5	1,5 & 4
> 16 & ≤ 25	2,5 & 4	2,5 & 6
> 25 & ≤ 32	4 & 6	4 & 10
> 32 & ≤ 50	6 & 10	6 & 16
> 50 & ≤ 63	10 & 16	10 & 25



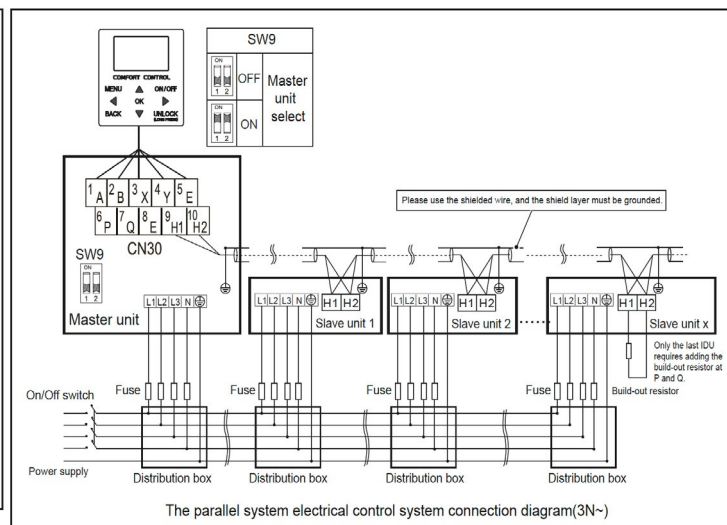
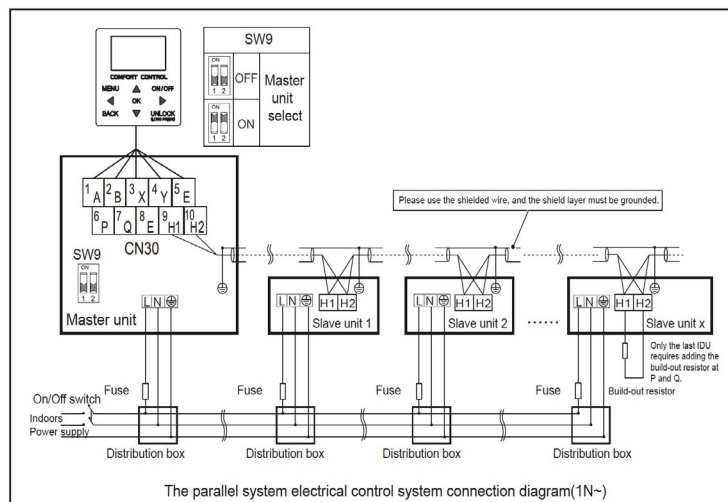
UNIT POWER SUPPLY
1-phase



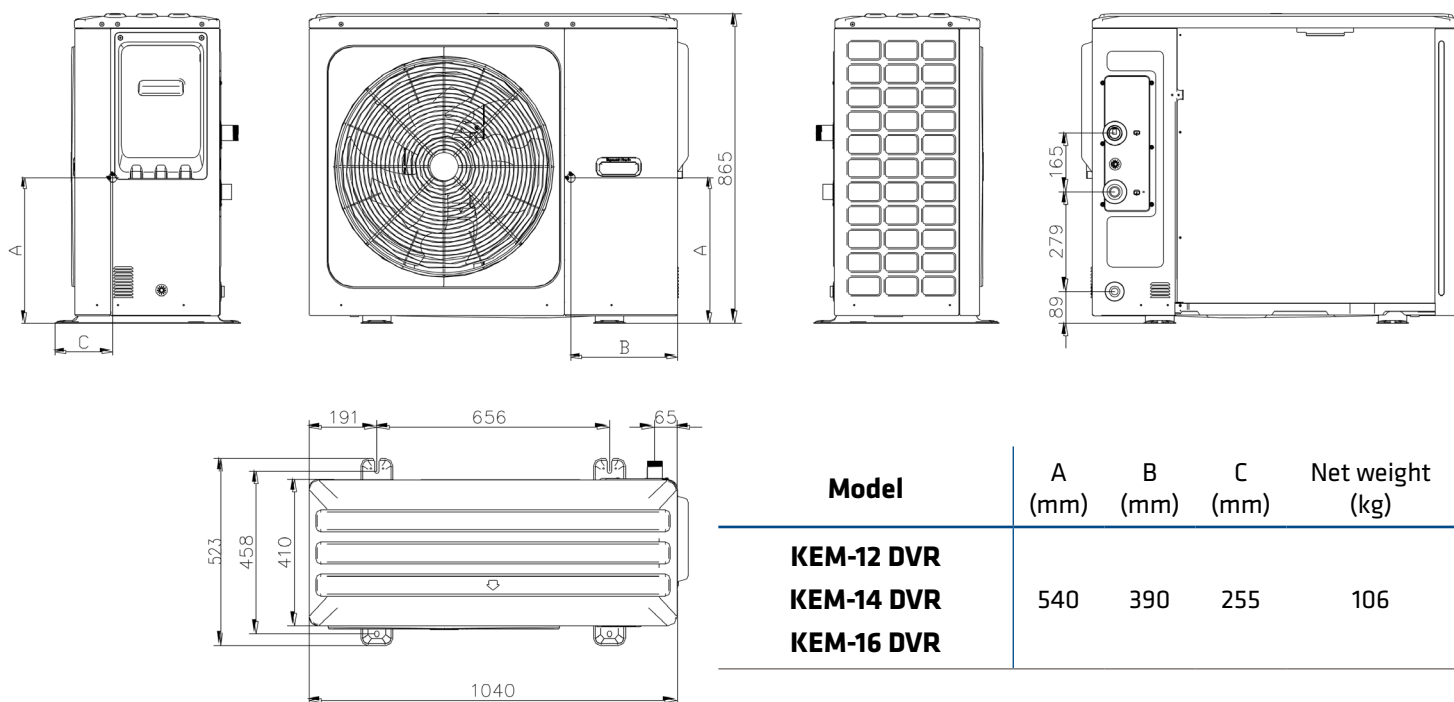
UNIT POWER SUPPLY
1-phase

System	Outdoor unit				Power current			Compressor		OFM	
	Voltage (V)	Hz	Min. (V)	Max. (V)	MCA (A)	TOCA (A)	MFA (A)	MSC (A)	RLA (A)	KW	FLA (A)
12 kW	220-240	50	198	264	25	30	35	-	23,50	0,17	1,50
14 kW	220-240	50	198	264	26	30	35	-	24,50	0,17	1,50
16 kW	220-240	50	198	264	27	30	35	-	25,50	0,17	1,50

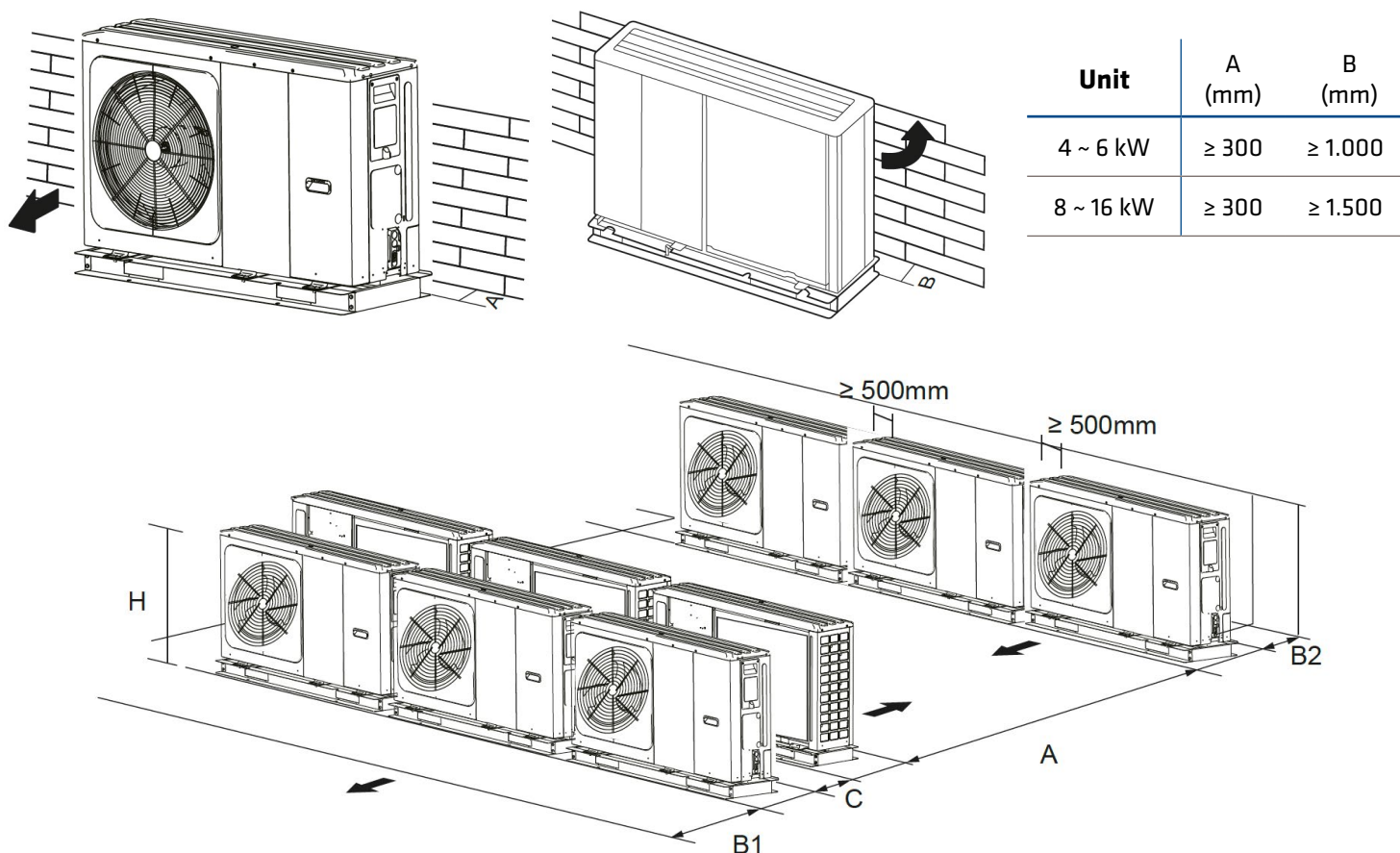
CONTROL CONNECTION & MASTER OPTION



DIMENSIONS OF UNIT



INSTALLATION



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4 ~ 6 kW	≥ 2.500	≥ 1.000	≥ 300	≥ 600
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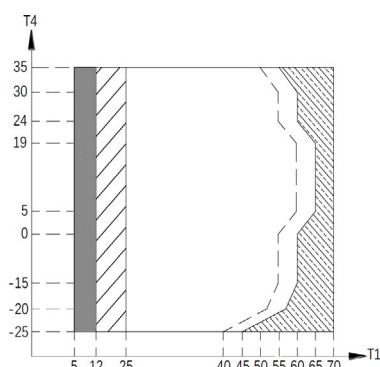


FEATURES

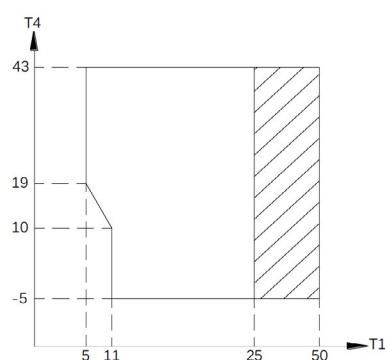
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Cooling capacity	11,6 kW	13,4 kW	14 kW
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SEER	5,11	5,12	5,14
SCOP (average zone water 35 °C) - Energy class	5,08 - A+++	4,89 - A+++	4,84 - A+++
Compressor type / No. compressors	Rotary Inverter / 1		
No. fans	1	1	1
Air flow	5.200 m³/h	5.200 m³/h	5.200 m³/h
Sound pressure	74 dB(A)	74 dB(A)	74 dB(A)
Refrigerant charge	1,8 kg	1,8 kg	1,8 kg
Water flow	2 m³/h	2,3 m³/h	2,4 m³/h
Volume of expansion tank	5 l	5 l	5 l
Available pressure pump	90 kPa	90 kPa	90 kPa
Hydraulic connections	1 1/4"	1 1/4"	1 1/4"
Power supply	380-415 V / 3 / 50 Hz		

OPERATING LIMITS

Heating mode



Cooling mode

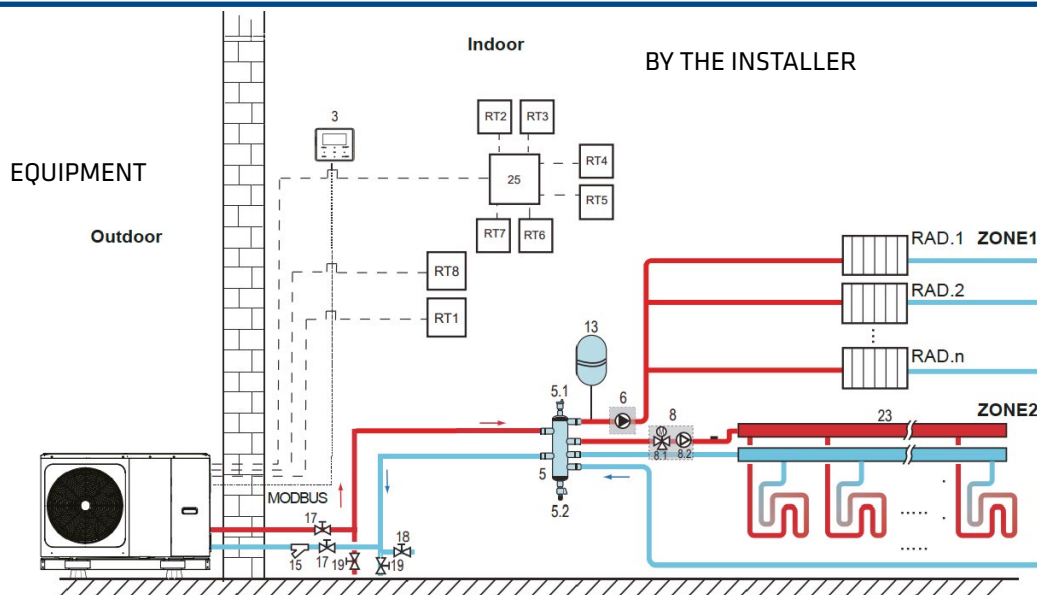


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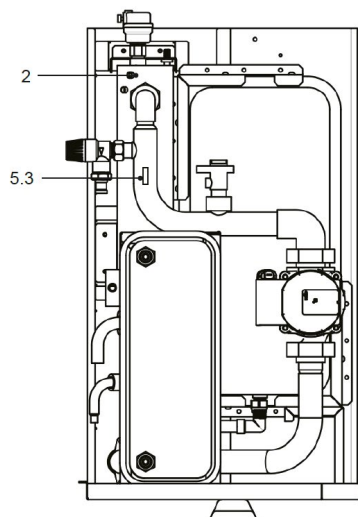
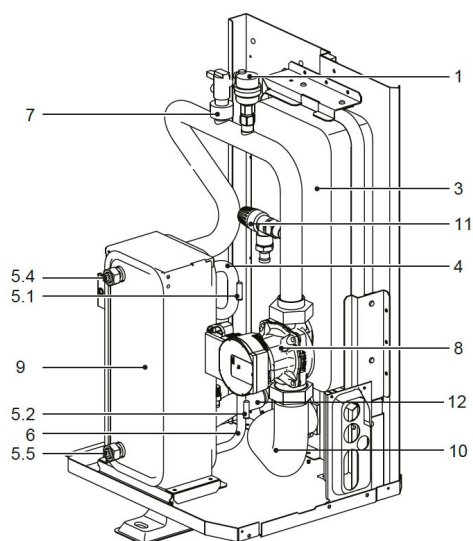
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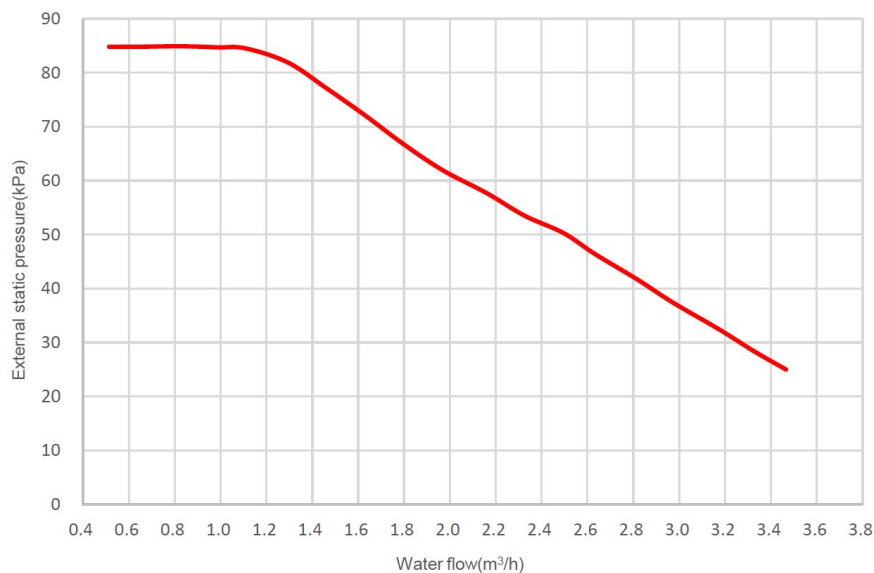


HYDRAULIC MODULE



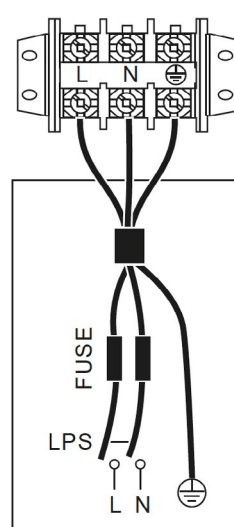
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WATER PUMP PERFORMANCE

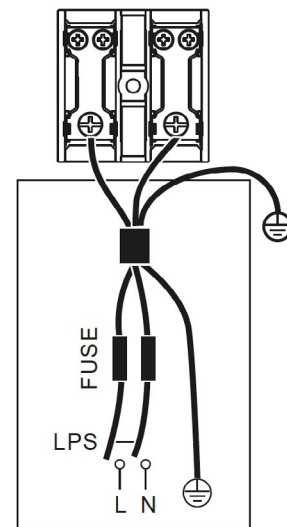


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> 10 & ≤ 16	1,5 & 2,5	1,5 & 4
> 16 & ≤ 25	2,5 & 4	2,5 & 6
> 25 & ≤ 32	4 & 6	4 & 10
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> 50 & ≤ 63	10 & 16	10 & 25



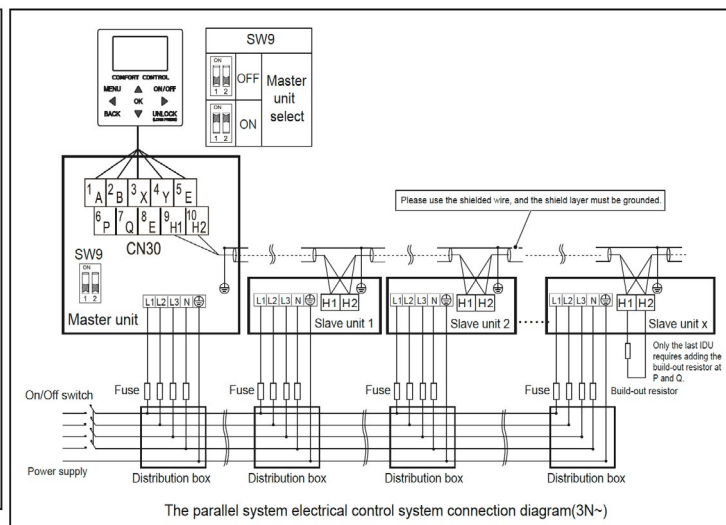
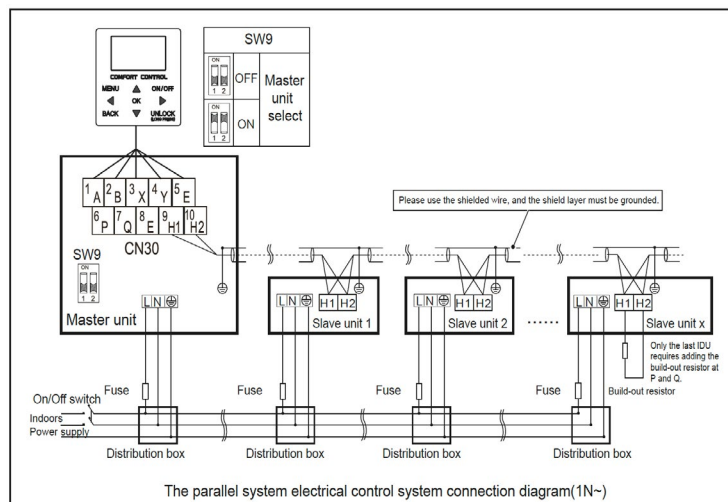
UNIT POWER SUPPLY
1-phase



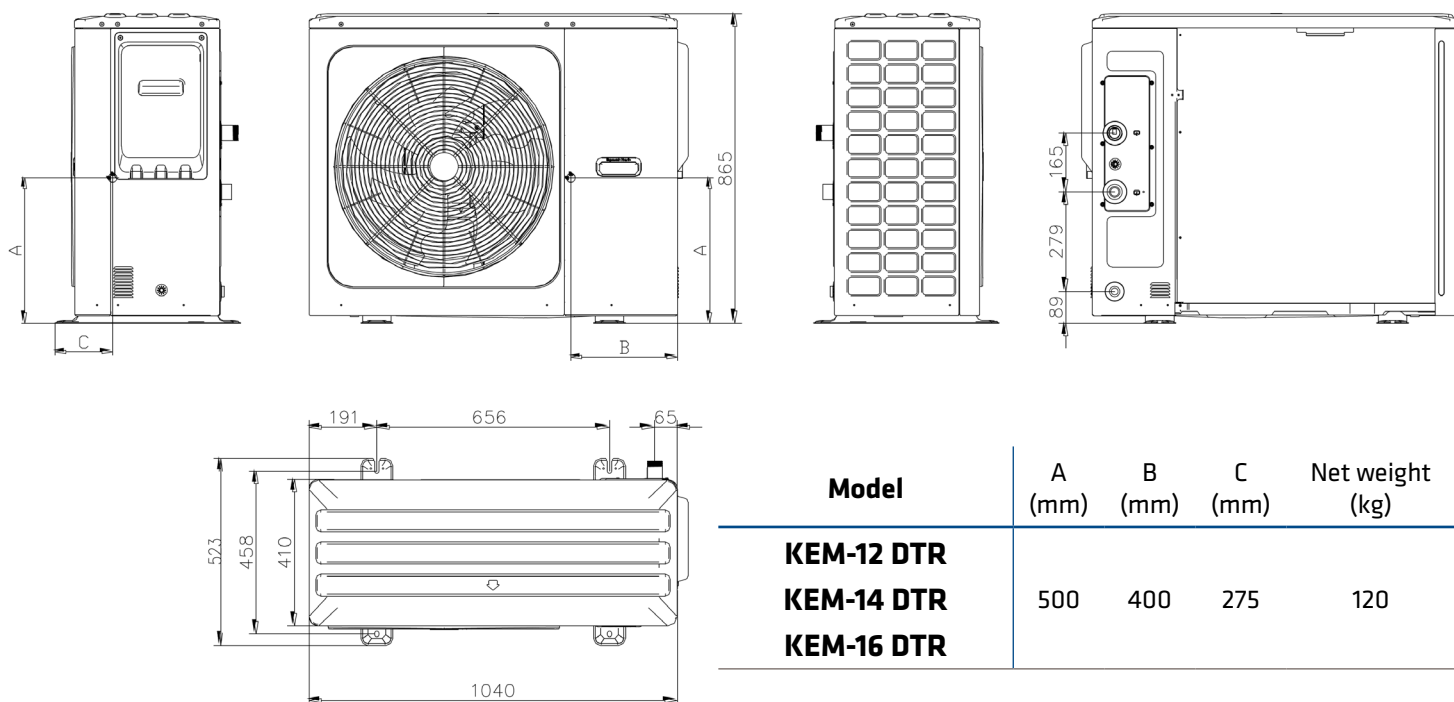
UNIT POWER SUPPLY
1-phase

System	Outdoor unit				Power current			Compressor		OFM	
	Voltage (V)	Hz	Min. (V)	Max. (V)	MCA (A)	TOCA (A)	MFA (A)	MSC (A)	RLA (A)	KW	FLA (A)
12 kW	380-415	50	342	456	10	14	16	-	9,15	0,17	1,50
14 kW	380-415	50	342	456	11	14	16	-	10,15	0,17	1,50
16 kW	380-415	50	342	456	12	14	16	-	11,15	0,17	1,50

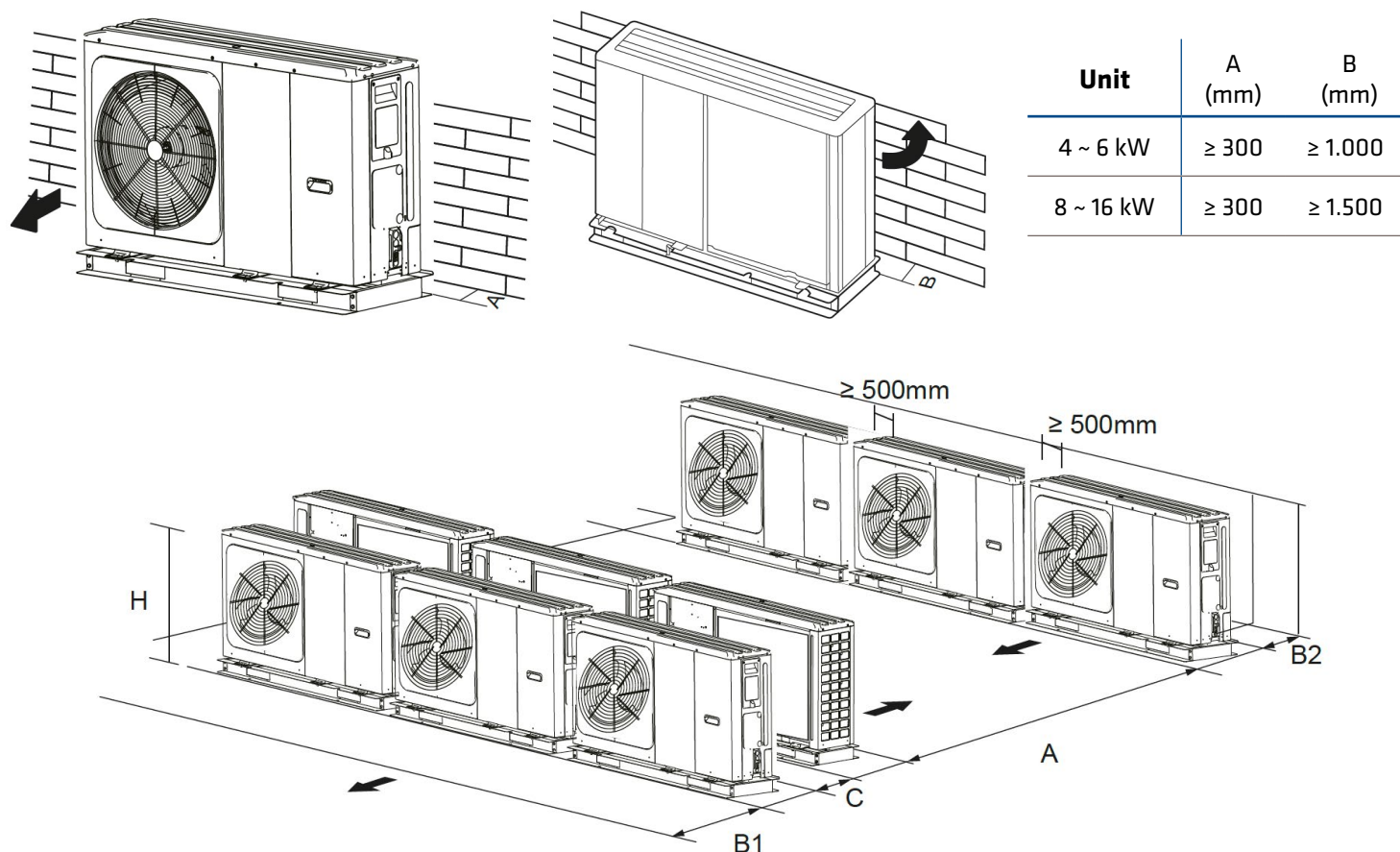
CONTROL CONNECTION & MASTER OPTION



DIMENSIONS OF UNIT



INSTALLATION



Unit	A (mm)	B1 (mm)	B2 (mm)	C (mm)
4 ~ 6 kW	≥ 2.500	≥ 1.000	≥ 300	≥ 600
8 ~ 16 kW	≥ 3.000	≥ 1.500	≥ 300	≥ 600