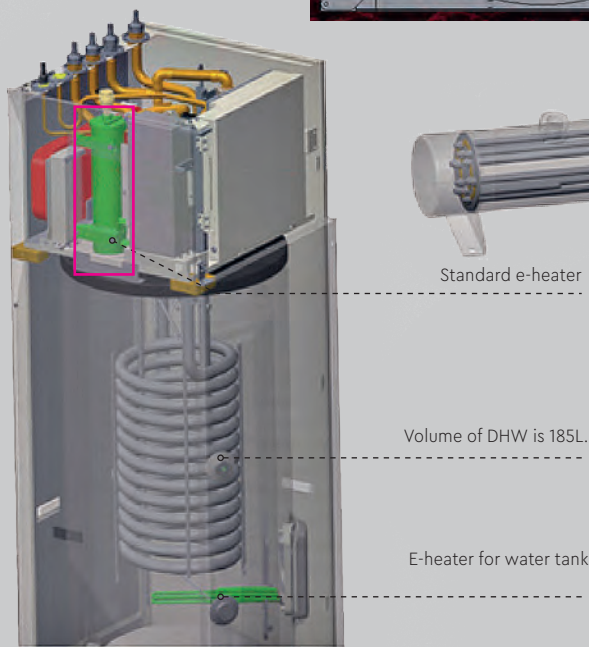
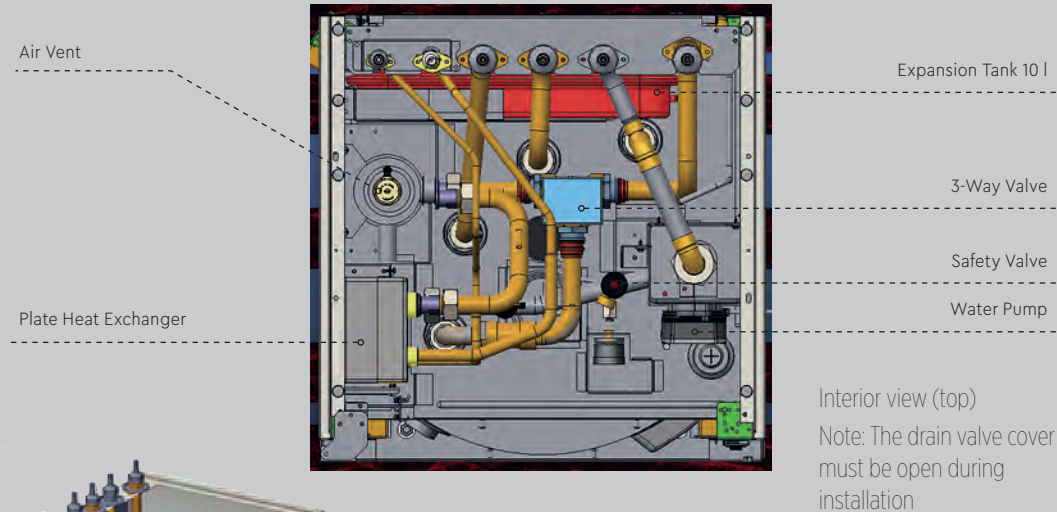


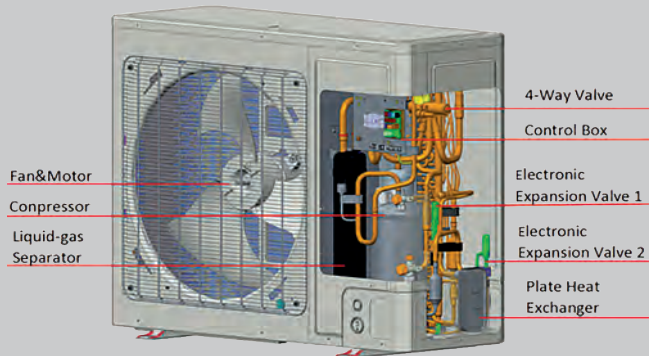
INDOOR UNIT



See the table below regarding the configuration of the electric heater for heating and domestic hot water.

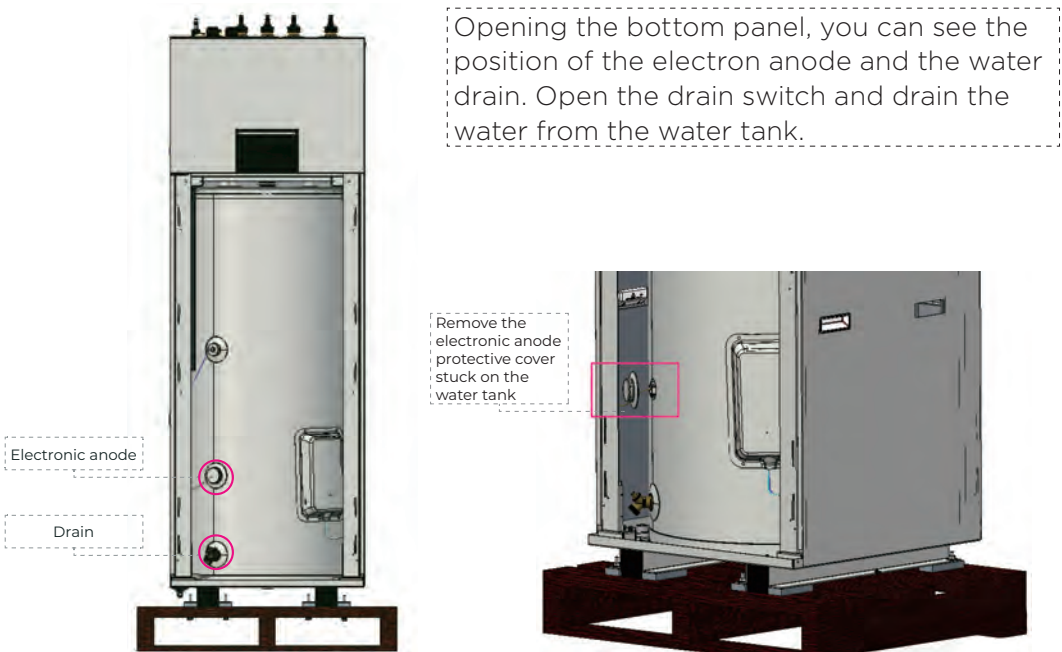
	E-heater for heating	E-heater for DHW
CH-HP6.0WTSIRK3(I)	15 + 15 kW	3 kW
CH-HP8.0WTSIRK3(I)	3 + 3 kW	3 kW
CH-HP10WTSIRK3(I)		
CH-HP12WTSIRK3(I)		
CH-HP14WTSIRK3(I)	3 + 3 kW	3 kW
CH-HP16WTSIRK3(I)		

OUTDOOR UNIT IS UNIVERSAL FOR SPLIT AND ALL-IN-ONE SERIES

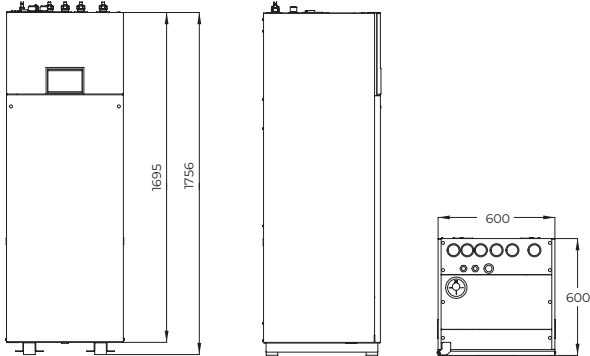


Two-Stage technology enables efficient heating of water at extremely low temperatures without additional losses of electricity

ALL-IN-ONE SERIES WITH BUILT-IN DHW WATER TANK



OVERALL DIMENSIONS OF INDOOR UNITS

		
No.	Description	Connection thread
1	Diameter of outlet pipe (water)	1" Male BSP
2	Diameter of return water flow pipe	1" Male BSP
3	Tap water	1" Male BSP
4	DHW	1" Male BSP
5	Liquid pipe	1/4"
6	Gas pipe	1/2"
7	Gas pipe	5/8"

TECHNICAL PARAMETERS OF ALL IN ONE SERIES 1 PHASE

			CH- HP6.0WTSIRK3	CH- HP8.0WTSIRK3	CH- HP10WTSIRK3	CH- HP12WTSIRK3	CH- HP14WTSIRK3	CH- HP16WTSIRK3
Capacity*	Cooling	kW	5.80	7.00	8.50	11.00	12.60	13.00
	Heating	kW	6.00	8.00	9.50	12.00	14.00	15.50
Power input*	Cooling	kW	1.32	1.75	2.24	2.50	3.41	3.60
	Heating	kW	1.20	1.70	2.07	2.40	2.98	3.44
EER *			4.40	4.00	3.80	4.40	3.70	3.60
COP*			5.00	4.70	4.60	5.00	4.70	4.50
Capacity*	Cooling	kW	4.09	5.30	6.50	10.59	11.07	11.51
	Heating	kW	5.90	8.00	9.50	12.40	14.48	16.09
Power input*	Cooling	kW	1.28	1.73	2.27	3.79	4.18	4.49
	Heating	kW	1.51	2.14	2.64	3.29	3.93	4.44
EER **			3.20	3.00	2.90	2.79	2.65	2.57
COP **			3.90	3.70	3.60	3.77	3.68	3.62
Refrigerant charge volume		kg	1.00	1.60	1.60	1.84	1.84	1.84
Power supply			~220-240V/50 Hz/1 Ph					
Sound pressure level	Cooling	dB (A)	52	55			68	
	Heating	dB (A)	52	55			68	
Dimensions (W×D×H)	Indoor unit	mm	600x600x1756					
	Outdoor unit	mm	975x396x702	982x427x787			940x460x820	
Net weight	Indoor unit	kg	210					
	Outdoor unit	kg	55	82			110	
Water circulating pipe inlet/outlet, DHW			1" Male BSP					
Diameter of pipe	Liquid	Inch (mm)	1/4" (6.35)					
	Gas	Inch (mm)	1/2" (12.7)			5/8" (15.6)		

NOTE

«*» capacity and power input are specified under the following conditions:

Cooling Water temperature: +23°C/+18°C; Outdoor temperature: +35°C DB; +24°C WB

Heating Water temperature: +30°C/+35°C; Outdoor temperature: +7°C DB; +6°C WB

«**» capacity and power input are specified under the following conditions:

Cooling Water temperature: +12°C/+7°C; Outdoor temperature: +35°C DB; +24°C WB

Heating Water temperature: +40°C/+45°C; Outdoor temperature: +7°C DB; +6°C WB

TECHNICAL PARAMETERS UNITHERM 3 ALL-IN-ONE, 3 PHASE

			CH-HP12WTSIRM3	CH-HP14WTSIRM3	CH-HPWT16SIRM3
Capacity*	Cooling	kW	11.00	12.60	13.00
	Heating	kW	12.00	14.00	15.50
Power input*	Cooling	kW	2.50	3.41	3.60
	Heating	kW	2.40	2.98	3.44
EER *			4.40	3.70	3.60
COP *			5.00	4.70	4.51
Capacity*	Cooling	kW	10.65	11.24	11.52
	Heating	kW	12.29	14.44	16.13
Power input**	Cooling	kW	3.74	4.13	4.38
	Heating	kW	3.09	3.63	4.16
EER **			2.85	2.72	2.63
COP **			3.98	3.98	3.88
Refrigerant charge volume		kg	1.84	1.84	1.84
Power supply			-380-415V/50 Hz/3 Ph		
Sound pressure level	Cooling	dB (A)	62		
	Heating	dB (A)	58		
Dimensions (W×D×H)	Indoor unit	mm	600x600x1756		
	Outdoor unit	mm	940x460x820		
Net weight	Indoor unit	kg	210		
	Outdoor unit	kg	110		
Water circulating pipe inlet/outlet, DHW			1" Male BSP		
Diameter of pipe	Liquid	Inch (mm)	1/4" (6.35)		
	Gas	Inch (mm)	5/8" (15.6)		

NOTE

«*» capacity and power input are specified under the following conditions:

Cooling Water temperature: +23°C/+18°C; Outdoor temperature: +35°C DB; +24°C WB

Heating Water temperature: +30°C/+35°C; Outdoor temperature: +7°C DB; +6°C WB

«**» capacity and power input are specified under the following conditions:

Cooling Water temperature: +12°C/+7°C; Outdoor temperature: +35°C DB; +24°C WB

Heating Water temperature: +40°C/+45°C; Outdoor temperature: +7°C DB; +6°C WB

ELECTRICAL PARAMETERS UNITHERM 3 ALL-IN-ONE

	Power supply V/ Hz	Automatic switch (A)	The minimum cross-sectional area of the grounding wire (mm ²)	The minimum cross-sectional area of the power cable (mm ²)
CH-HP6.0WTSIRK3(O)	~220-240V/50 Hz/1 Ph	16	1.5	1.5
CH-HP6.0WTSIRK3(I)		20	6	6
CH-HP8.0WTSIRK3(O)		25	4	4
CH-HP8.0WTSIRK3(I)		40	6	6
CH-HP10WTSIRK3(O)		25	4	4
CH-HP10WTSIRK3(I)		40	6	6
CH-HP12WTSIRK3(O)		32	6	6
CH-HP12WTSIRK3(I)		40	6	6
CH-HP14WTSIRK3(O)		40	6	6
CH-HP14WTSIRK3(I)		40	6	6
CH-HP16WTSIRK3(O)		40	6	6
CH-HP16WTSIRK3(I)		40	6	6
CH-HP12WTSIRM3(O)	~380-415V/50 Hz/3 Ph	16	2.5	2.5
CH-HP12WTSIRM3(I)		20	4	4
CH-HP14WTSIRM3(O)		16	2.5	2.5
CH-HP14WTSIRM3(I)		20	4	4
CH-HP16WTSIRM3(O)		16	2.5	2.5
CH-HP16WTSIRM3(I)		20	4	4

NOTES:

- If circuit breakers with leakage protection are used, the trip time should be less than 0.1 second and the leakage current should be 30 mA.
- The diameter of the power cables selected above is determined based on the assumption that the distance from the distribution box to the device is less than 75 m. If the cables are laid at a distance of 75 to 150 m, then the diameter of the power cable must be increased.
- The power source must meet the rated voltage of the device and must be connected to a separate electrical line.
- All electrical work must be performed by professional technicians in accordance with local codes and ordinances.
- Implement safety grounding. The grounding wire must be connected to a special grounding line in the building, the connection must be made by professional technicians.
- The switch and power cord specifications in the table above are based on the maximum power (maximum current) of the device.
- The power cable specifications in the table above refer to a stranded copper cable in a protective sheath (e.g. YJV cross-linked polyethylene insulated power cable) used at +40 °C and resistant to +90 °C (see IEC 60364-5-52). If the requirements are changed, the cables must be replaced according to the relevant standard.
- The switch specifications in the table above refer to the switch with an operating temperature of +40 °C. In the event of a change in conditions, they must be changed in accordance with the current national standard.
- An automatic switch must be installed in the power supply line. Automatic switch with disconnection of all poles. The opening distance between the contacts should be at least 3 mm.

PIPE CONNECTION OF UNITHERM 3 ALL-IN-ONE

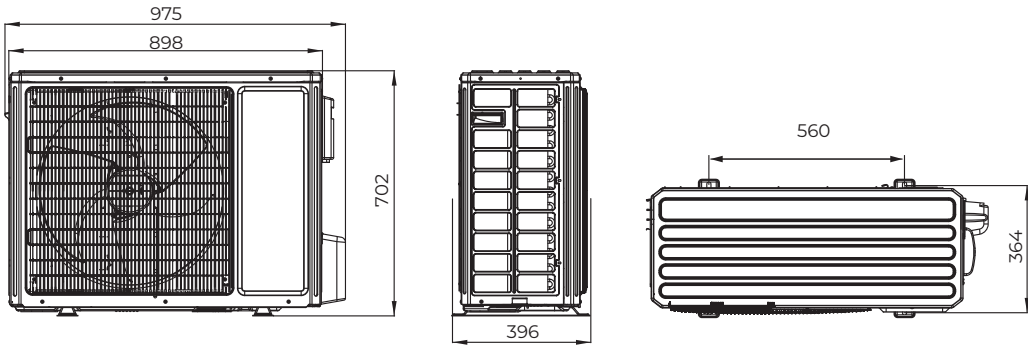
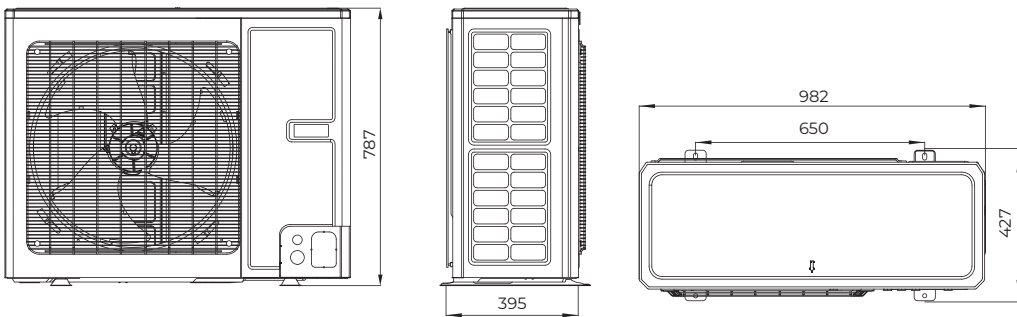
	Diameter of pipe		Length B		Height A		Additional
	Gas	Liquid	Standard	Max	Standard	Max	
ALL-IN-ONE							Refrigerant
CH-HP6.0WTSIRK3	1/2"	1/4"	5 m	20 m	0 m	15 m	16 g/m
CH-HP8.0WTSIRK3	1/2"	1/4"	5 m	25 m	0 m	15 m	0 g/m
CH-HP10WTSIRK3	1/2"	1/4"	5 m	25 m	0 m	15 m	0 g/m
CH-HP12WTSIRM3	5/8"	1/4"	5 m	15 m *	0 m	15 m	0 g/m
CH-HP14WTSIRM3	5/8"	1/4"	5 m	15 m *	0 m	15 m	0 g/m
CH-HP16WTSIRM3	5/8"	1/4"	5 m	15 m*	0 m	15 m	0 g/m
CH-HP12WTSIRK3	5/8"	1/4"	5 m	15 m*	0 m	15 m	0 g/m
CH-HP14WTSIRK3	5/8"	1/4"	5 m	15 m*	0 m	15 m	0 g/m
CH-HP16WTSIRK3	5/8"	1/4"	5 m	15 m*	0 m	15 m	0 g/m

* Under certain conditions, the length can be increased to 25 m.

NOTES:

- Additional refrigerant charging is not required if the pipe length is less than 10m, if the pipe length is more than 10m, additional refrigerant charging is required according to the table. For example: if a 10 kW model is installed at a distance of 25 m, you should add $(25-10) \times 16 = 240$ g of refrigerant.
- Rated capacity is based on standard pipe length and maximum allowable length is based on working length. The grease intake loop should be installed every 5-7 meters if the external unit is located above the internal unit (hydro module).
- Each 90° bend is approximately equal to 0.5 meters of pipe length.

OVERALL DIMENSIONS OF OUTDOOR UNIT

CH-HP4.0WTSIRK3 (O), CH-HP6.0WTSIRK3 (O)

CH-HP8.0WTSIRK3 (O), CH-HP10WTSIRK3 (O)

**CH-HP12WTSIRM3(O), CH-HP14WTSIRM3(O), CH-HP16WTSIRM3(O),
CH-HP12WTSIRK3(O), CH-HP14WTSIRK3(O), CH-HP16WTSIRK3(O)**
