

7. Main remote controller operation

■ Engineers Forms

Should settings be changed from default, please enter and record new setting in 'Field Setting' column. This will ease resetting in the future should the system use change or the circuit board need to be replaced.

Commissioning/Field settings record sheet

Main remote controller screen			Parameters	Default setting	Field setting	Notes
Main	Zone1 heating room temp.		10°C - 30°C	20°C		
	Zone2 heating room temp. *14		10°C - 30°C	20°C		
	Zone1 heating flow temp.		20°C - 60°C	45°C		
	Zone2 heating flow temp. *1		20°C - 60°C	35°C		
	Zone1 cooling flow temp. *12		5°C - 25°C	15°C		
	Zone2 cooling flow temp. *12		5°C - 25°C	20°C		
	Zone1 heating compensation curve		-9°C - + 9°C	0°C		
	Zone2 heating compensation curve *1		-9°C - + 9°C	0°C		
Option	Holiday mode		Active/Non active/Set time	—		
	Forced DHW operation		On/Off	—		
	DHW		On/Off/Timer	On		
	Heating/Cooling		On/Off/Timer	On		
Setting	Energy monitor		Consumed electrical energy/Delivered energy	—		
	DHW *13	Operation mode	Normal/Eco *16	Normal		
		DHW max. temp.	40°C - 60°C *2	50°C		
		DHW temp. drop	5°C - 30°C	10°C		
		DHW max. operation time	30 - 120 min	60 min		
		DHW mode restriction	30 - 120 min	30 min		
		DHW recharge	Large/Standard	Large *19		
	Legionella prevention *13	Active	Yes/No	Yes		
		Hot water temp.	60°C - 70°C *2	65°C		
		Frequency	1 - 30 days	15 days		
		Start time	00.00 - 23.00	03.00		
		Max. operation time	1 - 5 hours	3 hours		
		Duration of maximum temp.	1 - 120 min	30 min		
	Heating/ Cooling *12	Zone1 operation mode	Heating room temp./ Heating flow temp./ Heating compensation curve/ Cooling flow temp.	Room temp.		
		Zone2 operation mode *1	Heating room temp./ Heating flow temp./ Heating compensation curve/ Cooling flow temp.	Compensation curve		
	Compensation curve	Hi flow temp. set point	Zone1 outdoor ambient temp.	-30°C - +33°C *3	-15°C	
			Zone1 flow temp.	20°C - 60°C	50°C	
			Zone2 outdoor ambient temp. *1	-30°C - +33°C *3	-15°C	
			Zone2 flow temp. *1	20°C - 60°C	40°C	
		Lo flow temp. set point	Zone1 outdoor ambient temp.	-28°C - +35°C *4	35°C	
			Zone1 flow temp.	20°C - 60°C	25°C	
			Zone2 outdoor ambient temp. *1	-28°C - +35°C *4	35°C	
			Zone2 flow temp. *1	20°C - 60°C	25°C	
		Adjust	Zone1 outdoor ambient temp.	-29°C - +34°C *5	—	
			Zone1 flow temp.	20°C - 60°C	—	
			Zone2 outdoor ambient temp. *1	-29°C - +34°C *5	—	
			Zone2 flow temp. *1	20°C - 60°C	—	
	Holiday	DHW *13	Active/Non active	Non active		
		Heating/ Cooling *12	Active/Non active	Active		
		Zone1 heating room temp.	10°C - 30°C	15°C		
		Zone2 heating room temp. *14	10°C - 30°C	15°C		
		Zone1 heating flow temp.	20°C - 60°C	35°C		
		Zone2 heating flow temp. *1	20°C - 60°C	25°C		
		Zone1 cooling flow temp. *12	5°C - 25°C	25°C		
		Zone2 cooling flow temp. *12	5°C - 25°C	25°C		
	Initial settings	Language	EN/FR/DE/SV/ES/IT/DA/NL/FI/NO/PT/BG/PL/CZ/RU/TR/SL	EN		
		°C/°F	°C/°F	°C		
		Summer time	On/Off	Off		
		Temp. display	Room/DHW tank/Room&DHW tank /Off	Off		
		Time display	hh:mm/hh:mm AM/AM hh:mm	hh:mm		
		Room sensor settings for Zone1	TH1/Main RC/Room RC1-8/"Time/Zone"	TH1		
		Room sensor settings for Zone2 *1	TH1/Main RC/Room RC1-8/"Time/Zone"	TH1		
		Room RC zone select *1	Zone1/Zone2	Zone1		

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Main remote controller screen				Parameters	Default setting	Field setting	Notes
Setting	Service menu	Thermistor adjustment	THW1	-10°C - +10°C	0°C		
			THW2	-10°C - +10°C	0°C		
			THW5B	-10°C - +10°C	0°C		
			THW6	-10°C - +10°C	0°C		
			THW7	-10°C - +10°C	0°C		
			THW8	-10°C - +10°C	0°C		
			THW9	-10°C - +10°C	0°C		
			THW10	-10°C - +10°C	0°C		
			THWB1	-10°C - +10°C	0°C		
		Auxiliary settings	Economy settings for pump.	On/Off *6	On		
			Delay (3 - 60 min)		10 min		
			Electric heater (Heating)	Space heating: On (used)/Off (not used)	On		
			Electric heater delay timer (5 - 180 min)		30 min		
			Electric heater (DHW) *13	Booster heater	DHW: On (used)/Off (not used)	On	
				Immersion heater	DHW: On (used)/Off (not used)	On	
			Electric heater delay timer (15 - 30 min)		15 min		
			Mixing valve control	Running (10 - 240 sec)	120 sec		
			Interval (1 - 30 min)		2 min		
			Flow sensor *18	Minimum (0 - 100 L/min)	5 L/min		
				Maximum (0 - 100 L/min)	100 L/min		
			Analog output	Interval (1 - 30 min)	5 min		
				Priority (Normal/High)	Normal		
		Pump speed	DHW	Pump speed (1 - 5)	5		
			Heating/Cooling	Pump speed (1 - 5)	5		
		Heat source setting	Standard/Heater/Boiler/Hybrid *7		Standard		
		Heat pump setting	Heat pump flow rate range	Minimum (0 - 100 L/min)	5 L/min		
				Maximum (0 - 100 L/min)	100 L/min		
			Quiet mode	Day (Mon - Sun)	—		
				Time	0:00 - 23:45		
			Quiet level (Normal/ Level1/ Level2)		Normal		
		Operation settings	Heating operation *8	Flow temp.range *10	Min.temp. (20 - 45°C)	30°C	
					Max.temp. (35 - 60°C)	50°C	
				Room temp.control *15	Mode (Normal/Fast)	Normal	
				Interval (10 - 60min)		10min	
				Heat pump thermo diff.adjust	On/Off *6	On	
			Freeze stat function *11	Lower limit (-9 - -1°C)	-5°C		
				Upper limit (+3 - +5°C)	5°C		
				Outdoor ambient temp. (3 - 20°C) / **	5°C		
			Simultaneous operation (DHW/ Heating)	On/Off *6	Off		
				Outdoor ambient temp. (-30 - +10°C) *3	-15°C		
			Cold weather function	On/Off *6	Off		
				Outdoor ambient temp. (-30 - -10°C) *3	-15°C		
			Boiler operation	Hybrid settings	Outdoor ambient temp. (-30 - +10°C) *3	-15°C	
					Priority mode (Ambient/Cost/CO ₂) *17	Ambient	
					Outdoor ambient temp. rise (+1 - +5 °C)	+3 °C	
				Intelligent settings	Energy price *9	Electricity (0.001 - 999 */kWh)	0.5 */kWh
						Boiler (0.001 - 999 */kWh)	0.5 */kWh
					CO ₂ emission	Electricity (0.001 - 999 kg -CO ₂ /kWh)	0.5 kg -CO ₂ / kWh
						Boiler (0.001 - 999 kg -CO ₂ /kWh)	0.5 kg -CO ₂ / kWh
					Heat source	Heat pump capacity (1 - 40 kW)	11.2 kW
						Boiler efficiency (25 - 150%)	80%
						Booster heater 1 capacity (0 - 30 kW)	2 kW
						Booster heater 2 capacity (0 - 30 kW)	4 kW

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Commissioning/Field settings record sheet (continued from the previous page)

Main remote controller screen					Parameters		Default setting	Field setting	Notes
	Service menu	Operation settings	Smart grid ready	DHW	On/Off		Off		
					Target temp(+1- +20°C) / -- (Non active)		--		
				Heating	On/Off		Off		
					Target temp.	Switch-on recommendation (20 - 60°C)	50°C		
						Switch-on command (20 - 60°C)	55°C		
				Cooling	On/Off		Off		
					Target temp.	Switch-on recommendation (5 - 25°C)	15°C		
						Switch-on command (5 - 25°C)	10°C		
				Pump cycles	Heating (On/Off)		On		
					Cooling (On/Off)		On		
					Interval (10-120 min)		10 min		
				Floor dry up function	On/Off *6		Off		
			Target temp.		Start&Finish (20 - 60°C)	30°C			
					Max. temp. (20 - 60°C)	45°C			
					Max. temp. period (1 - 20 days)	5 days			
			Flow temp. (Increase)		Temp. increase step (+1 - +10°C)	+5°C			
					Increase interval (1 - 7 days)	2 days			
			Flow temp. (Decrease)		Temp. decrease step (−1 – −10°C)	−5°C			
					Decrease interval (1 - 7 days)	2 days			
			Summer mode		On/Off		Off		
					Outdoor ambi- ent temp.	Heating ON (4-19°C)	10°C		
						Heating OFF (5-20°C)	15°C		
					Judgement time	Heating ON (1-48 hours)	6 hours		
				Heating OFF (1-48 hours)		6 hours			
		Forced heating ON (-30 - 10°C)		5 °C					
		Water flow control		On/Off	Off				
		Energy monitor set- tings	Electric heater capacity	Booster heater 1 capacity	0 - 30 kW		2 kW		
					Booster heater 2 capacity		4 kW		
					Immersion heater capacity		0 kW		
					Analog output		0 - 30 kW	0 kW	
				Delivered energy adjustment		−50 - +50%	0%		
			Water pump input	Pump 1	0 - 200 W or *(factory fitted pump)		*(		
				Pump 2	0 - 200 W		0 W		
				Pump 3	0 - 200 W		0 W		
				Pump 4 *19	0 - 200 W		72 W		
			Electric energy meter		0.1/1/10/100/1000 pulse/kWh		1 pulse/kWh		
			Heat meter		0.1/1/10/100/1000 pulse/kWh		1 pulse/kWh		
			External in- put settings	Demand control (IN4)		Heat source OFF/Boiler operation		Boiler operation	
	Outdoor thermostat (IN5)			Heater operation/Boiler operation		Boiler operation			
	Thermo ON output			Zone1/Zone2/Zone1&2		Zone1&2			

*1 The settings related to Zone2 can be switched only when 2 Zone temperature control is enabled (when DIP SW2-6 and SW 2-7 are ON).

*2 For the model without both booster and immersion heater, it may not reach the set temperature depending on the outside ambient temperature.

*3 The lower limit is -15°C depending on the connected outdoor unit.

*4 The lower limit is -13°C depending on the connected outdoor unit.

*5 The lower limit is -14°C depending on the connected outdoor unit.

*6 On: the function is active; Off: the function is inactive.

*7 When DIP SW1-1 is set to OFF "WITHOUT Boiler" or SW2-6 is set to OFF "WITHOUT Mixing tank", neither Boiler nor Hybrid can be selected.

*8 Valid only when operating in Room temp. control mode.

*9 *** of "*/kWh" represents currency unit (e.g. € or £ or the like)

*10 Valid only when operating in Heating room temperature.

*11 If asterisk (**) is chosen freeze stat function is deactivated. (i.e. primary water freeze risk)

12 Cooling mode settings are available for ERS model only.

*13 Only available if DHW tank present in system.

*14 The settings related to Zone2 can be switched only when 2-zone temperature control or 2-zone valve ON/OFF control is active.

*15 When DIP SW5-2 is set to OFF, the function is active.

*16 When the hydrobox is connected with a PUMY-P outdoor unit, the mode is fixed to "Normal".

*17 When the hydrobox is connected with a PUMY-P outdoor unit, the mode is fixed to "Ambient".

*18 Do not change the setting since it is set according to the specification of flow sensor attached to the hydrobox.

*19 This setting is valid for only cylinder units.