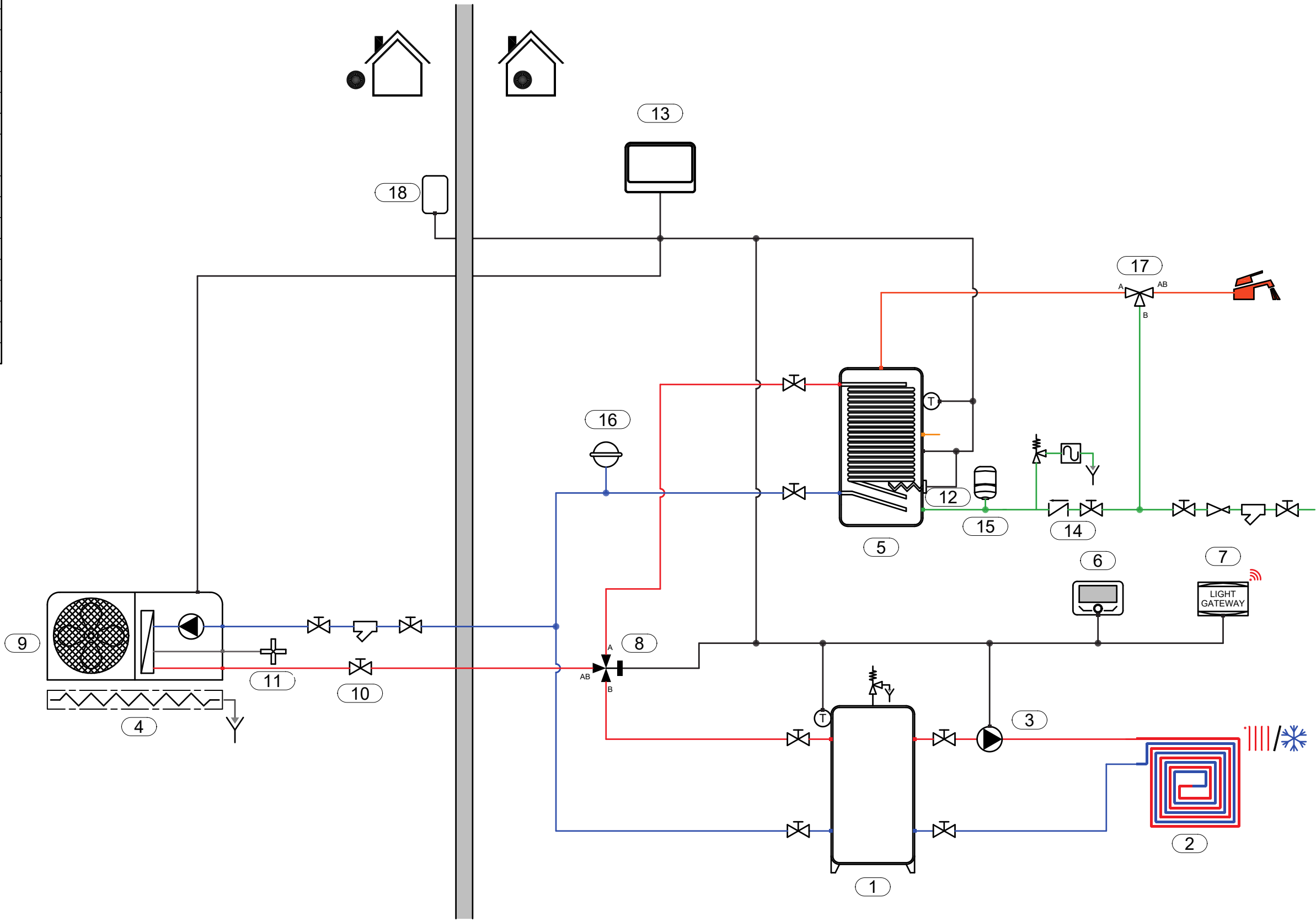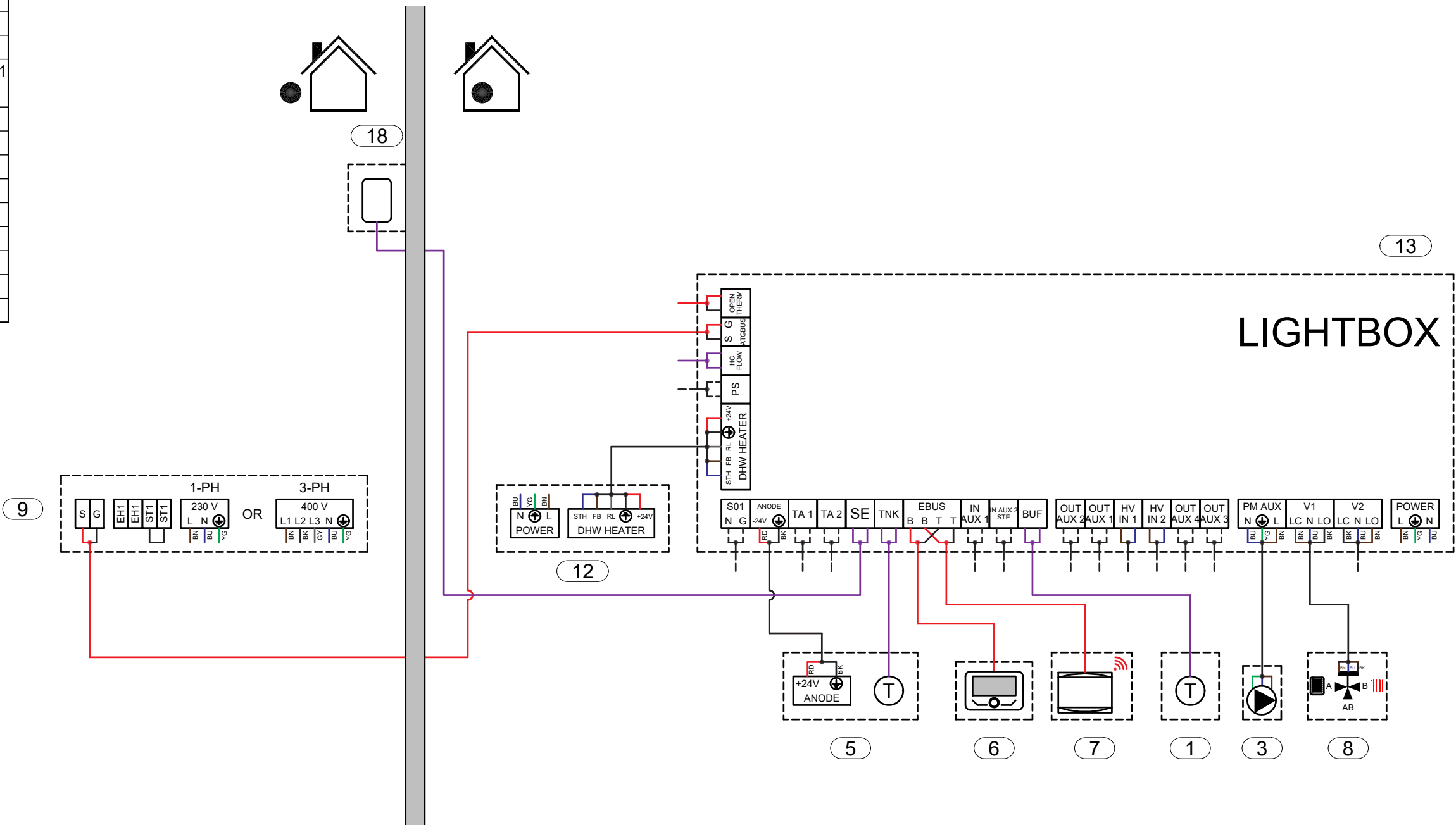| Pos.	Description
1	BUFFER TANK 4 ATTACKS WITH T PROBE
2	UNDER FLOOR HEATING-COOLING
3	CIRCULATOR GENERIC - 3 wires
4	HE KIT BELOW ODU + DRAIN PAN
5	DHW TANK HHP 1-COIL WITH T PROBE AND ANODE
6	SYSTEM INTERFACE
7	LIGHT GATEWAY
8	HEATING-DHW 3-WAY VALVE
9	EXTERNAL UNIT HHP - MONOBLOC 1-PH OR 3-PH
10	KIT VALVES AND FILTER
11	KIT ANTI-FREEZE
12	KIT HE IDU FS 2 kW
13	LIGHTBOX
14	SAFETY GROUP
15	EXPANSION VESSEL - DHW
16	EXPANSION VESSEL - HEATING
17	THERMOSTATIC MIXING VALVE
18	EXTERNAL PROBE

LIGHT GATEWAY

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LIGHTBOX

SCHEME			SCHEME NAME
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Legend	
Hydraulic	
————	Hot water
————	Cold water
————	DHW hot water
————	DHW cold water
————	DHW mixed water
————	DHW recirculation water
————	Refrigerant fluid
————	Gas connection
————	Electric connection
Electric	
————	BN Brown (L1)
————	BU Blue (N)
————	YG Yellow green (PE)
————	BK Black (L2)
————	GY Grey (L3)
————	RD Red
- - - - - -	Dry contact
————	BUS connection
————	Generic signal
————	Sensor signal

Legend	
Hydraulic components	
	2-WAY VALVE
	CIRCULATOR GENERIC
	BY-PASS VALVE
	MAGNETIC FILTER
	DISCHARGE
	POLYPHOSPHATE FEEDER
	SAFETY VALVE
	SYPHON
	NON RETURN VALVE
	SHUT-OFF VALVE
	THERMOSTATIC MIXING VALVE
	BALANCING VALVE

Legend	
Drawing symbols	
▲	INLET OR OUTLET AIR BLUE
▲	INLET OR OUTLET AIR RED
❄	COOLING
‖‖‖	HEATING
‖‖‖/❄	HEATING-COOLING
📶	WIFI

SCHEME			SCHEME NAME	
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MENU	N° PARAMETER	NAME	DESCRIPTION-OPTIONS	VALUE TO BE SET	RANGE	DEFAULT
HHP Energy Manager	1.0.0	IDU type	Defines the type of the internal unit: 0 = None ¦ 2 = Hydraulic module ¦ 3 = Light	3 = Light	[0-3]	3
	1.0.1	ODU type	Defines the type of the outdoor unit: 1 = Heat Pump	1 = Heat pump	1	1
	1.0.6	Thermoregulation	Activates or deactivates temperature control: 0 = Not Active ¦ 1 = Active	Up to user	[0-1]	1
	1.1.8	System flow T selection	Defines which kind of device is used by the product to determine flow temperature to system: 0 = HP water flow temp ¦ 1 = System flow T	0 = HP water flow temp	[0-1]	0
	1.2.5	AUX P2 circulator setting	Defines AUX P2 circulator configuration: 0 = Auxiliary circulator ¦ 1 = Cooling circulator ¦ 2 = Buffer circulator (visible with par. 20.0.0 = 1) ¦ 3 = DHW circulator ¦ 4 = Time programmed output ¦ 5 = De-stratification pump	2 = Buffer circulator (visible with par. 20.0.0 = 1)	[0-5]	0
	1.8.0	Cooling mode activation	Activates the cooling mode: 0 = Not active ¦ 1 = Active	Up to user	[0-1]	0
	1.12.9	Exogel kit activation	to activate when the antifreez kit is installed: 0 = OFF ¦ 1 = ON	1 = ON	[0-1]	1
HHP Energy Manager (DHW service)	1.0.2	Tank management	In case of DHW tank, to set which kind of sensor the DHW charge is managed through: 0 = None ¦ 1 = Storage with NTC ¦ 2 = Storage with Thermostat	1 = Storage with NTC	[0-2]	0
	1.2.6	Pro-Tech anode active	Indicates the presence of the impressed-current anode on the DHW calorifier: 0 = OFF ¦ 1 = ON	1 = ON	[0-1]	0
	1.4.0	DHW aux heat source activation logic	Defines which is the activation logic of secondary heat sources during DHW cycle: 0 = Heat integr. and backup ¦ 1 = HP failure backup	Up to user	[0-1]	0
	1.4.2	Delay timer	Time required for starting the calculation of the DHW integration with the auxiliary sources or with the heating elements.	Up to user	[10 - 120] min	120 min
	1.4.3	Release integral threshold	Activation threshold for DHW integration expressed in °C*min	Up to user	[15 - 200] °C*min	200°C*min
	1.4.4	Tank electric heater	To select the operating logic of the integration heating element immersed in the DHW tank: 0 = Absent: electric heater not present 1 = Disabled: electric heater present but disabled 2 = Alone electric heater: only the heating element heats the DHW tank 3 = Heat Pump and heating element can both contribute to reach the DHW set-point.	2 or 3 = Alone electric heater or Auxiliary (recommended settings in case of antilegionella cycle)	[0-3]	0
	1.9.0	DHW Comfort Setpoint Temperature	Defines the comfort DHW set-point temperature.	Up to user	[35 - 65]°C	55°C
	1.9.1	DHW Reduced Set Point Temperature.	DHW Reduced Set Point Temperature	Up to user	[35 - 60]°C	35°C
	1.9.2	Comfort function	Defines when comfort function must be active: 0 = Disabled ¦ 1 = Time Based ¦ 2 = Always active	Up to user	[0-2]	2
	1.9.3	DHW Operation Mode	0 = Standard ¦ 1 = Green ¦ 2 = HC - HP ¦ 3 = HC - HP 40	Up to user	[0-3]	1

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MENU	N° PARAMETER	NAME	DESCRIPTION-OPTIONS	VALUE TO BE SET	RANGE	DEFAULT
HHP Energy Manager (DHW service)	1.9.6	Thermal cleanse function	0 = OFF ¦ 1 = ON	Up to user	[0-1]	0
	1.9.7	Thermal Cleanse start time [hh :mm]	Start time of Thermal cleanse function	Up to user	[00:00 - 23:45] [hh:mm]	01:00
	1.9.8	Thermal cleanse cycle frequency	Frequency of Thermal cleanse cycle	Up to user	[24 h-30 d]	30 d
	1.23.0*	Thermal Cleanse target temp	Defines the setpoint of thermal cleanse cycle	Up to user	[60-70°]	60°C
	1.23.1*	Antilegionella target temperature duration	Defines the time in which the Thermal cleanse Target temp has to be mantained	Up to user	[1-2] h	1h
	1.23.2*	Max Duration Antilegionella	Defines the Max time in which the system can perform and complete the Thermal cleanse cycle.	Up to user	[4-12] h	6h
Buffer	20.0.0	Buffer activation	To activate buffer service: 0 = OFF ¦ 1 = ON	1 = ON	[0-1]	0
	20.0.1	Buffer charge mode	Defines the type of the buffer charge: 1 = Partial charge ¦ 2 = Full charge	1 = Partial Charge	[1-2]	1
	20.0.3	Buffer Comfort setpoint heating	Comfort temperature for Buffer in heating	Up to user	[20-70] °C	40°C
	20.0.4 (visible if par. 1.8.0 = 1)	Buffer Comfort setpoint cooling	Comfort temperature for Buffer in cooling	Up to user	[5-23] °C	18°C
	20.3.1	Reduced setpoint heating	Defines the buffer reduced set point in heating	Up to user	[20-40] °C	35°C
	20.3.2 (visible if par. 1.8.0 = 1)	Reduced setpoint cooling	Defines the buffer reduced set point in cooling	Up to user	[18-23] °C	23°C
	20.0.7	Buffer set point mode	Defines if dependent by menu 20 setting and time programming (fixed) or by zones thermoregulation calculation (variable): 0 = Fixed ¦ 1 = Variable	Up to user	[0-1]	0
	20.3.0	Control mode	Defines the buffer charge time programming: 0 = Disabled ¦ 1 = Time Based ¦ 2 = Always active	Up to user	[0-2]	2
	20.4.0	Buffer integration scheme	Defines which is the buffer integration scheme: 0 = Series ¦ 1 = Parallel	0 = Series	[0-1]	0
	20.4.5	CH switch off offset	Defines the offset over the Buffer Target to switch off the Heat generators (HHPs and auxiliary sources) during Heat Request	Up to user	[0-10] °C	0°C
	20.4.6 (visible if par. 1.8.0 = 1)	Cooling switch off offset	Defines the offset that has to be subtracted to the Buffer Target to switch off the Heat generators (HHPs and auxiliary sources) during Cooling Request	Up to user	[0-10] °C	0°C

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MENU	N° PARAMETER	NAME	DESCRIPTION-OPTIONS	VALUE TO BE SET	RANGE	DEFAULT
Zone 1 parameter (For all thermoregulation parameters refer to the installer manual)	4.8.3	Heating Controller	Define with which device the heat request is performed 0 = None 1 = Room thermostat (Thermostat connected to TA1 of Energy Manager) 2 = Room sensor (Room sensor on eBus2)	2 = Room sensor	[0-2]	2
	4.8.4	Cooling controller	Define with which device the heat request is performed 0 = None | 1 = Room thermostat | 2 = Room sensor	If the cooling mode is active (1.8.0 = 1) set: 2 = Room sensor	[0-2]	2
	User Menu/Zones Management	Operatione Mode	Define the operation mode of the zone: - Off (heat request inhibited) - Manual (setpoint temperature for the zone is maintained for 24h) - Time program (setpoint temperature of the zone follows the hourly programme profile. In case of Room thermostat, the reduced temperature level inhibits the heat request)	Up to user		
	4.2.9	Heat request mode	Define the Heat request mode for the zone 0 = Standard 1 =RT time program exclusion (In case of Room thermostat, the reduced temperature level doesn't inhibit the heat request) 2 = Forcing heat demand (Heat request always true)	Up to user	[0-2]	0

SOFTWARE COMPATIBILITY	
New Sensys	Starting from 00.07.12
	*Starting from 00.28.03
Energy Manager 2.0	Starting from 22.05.27
	*Starting from 22.26.05
TDM	Starting from 21.01.186

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