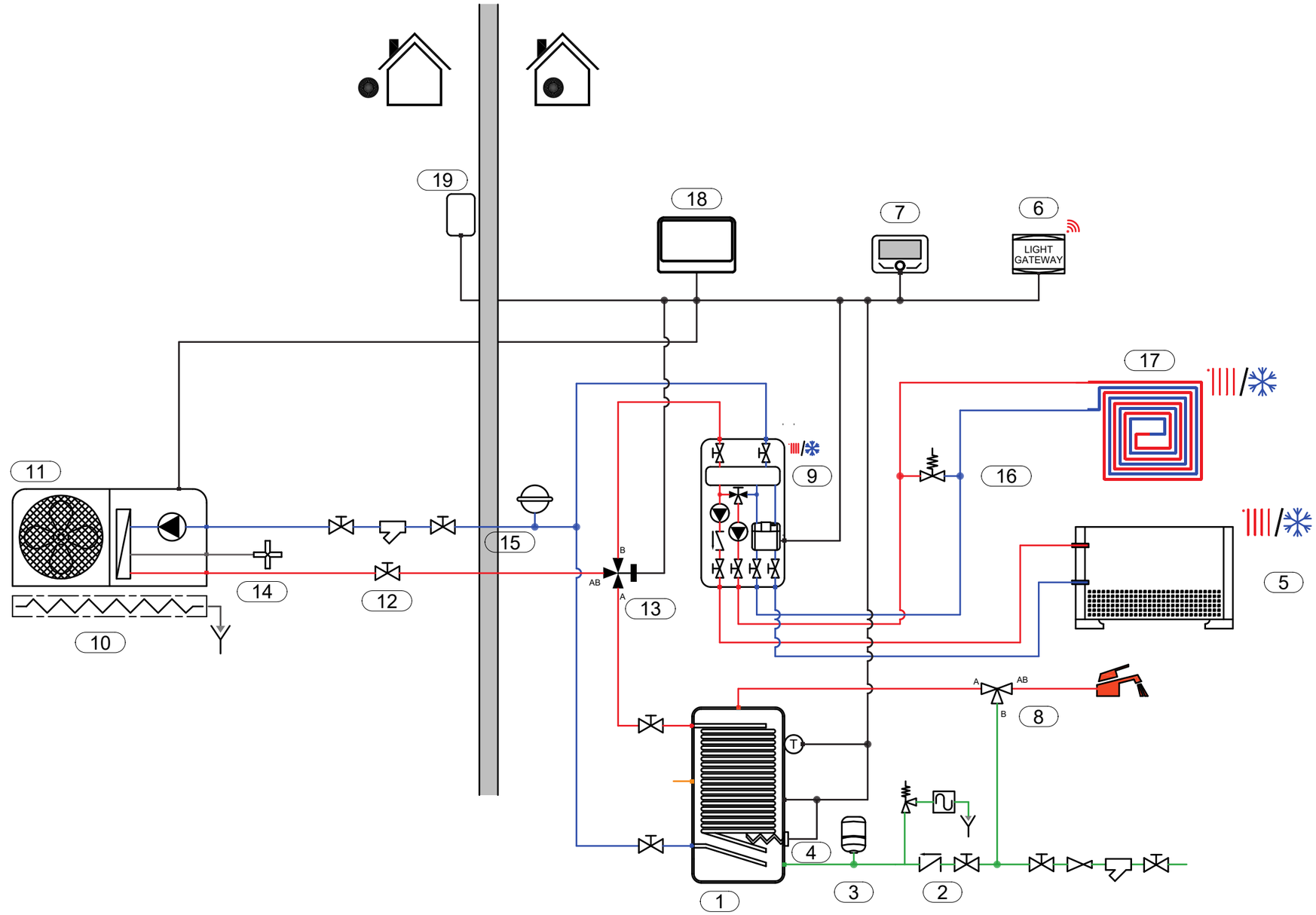
Pos.	Description
1	DHW TANK HHP 1-COIL WITH T PROBE AND ANODE
2	SAFETY GROUP
3	EXPANSION VESSEL - DHW
4	KIT HE IDU FS 2 kW
5	FANCOIL HEATING-COOLING
6	LIGHT GATEWAY
7	SYSTEM INTERFACE
8	THERMOSTATIC MIXING VALVE
9	MGM II HC
10	HE KIT BELOW ODU + DRAIN PAN
11	EXTERNAL UNIT HHP - MONOBLOC 1 -PH OR 3-PH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

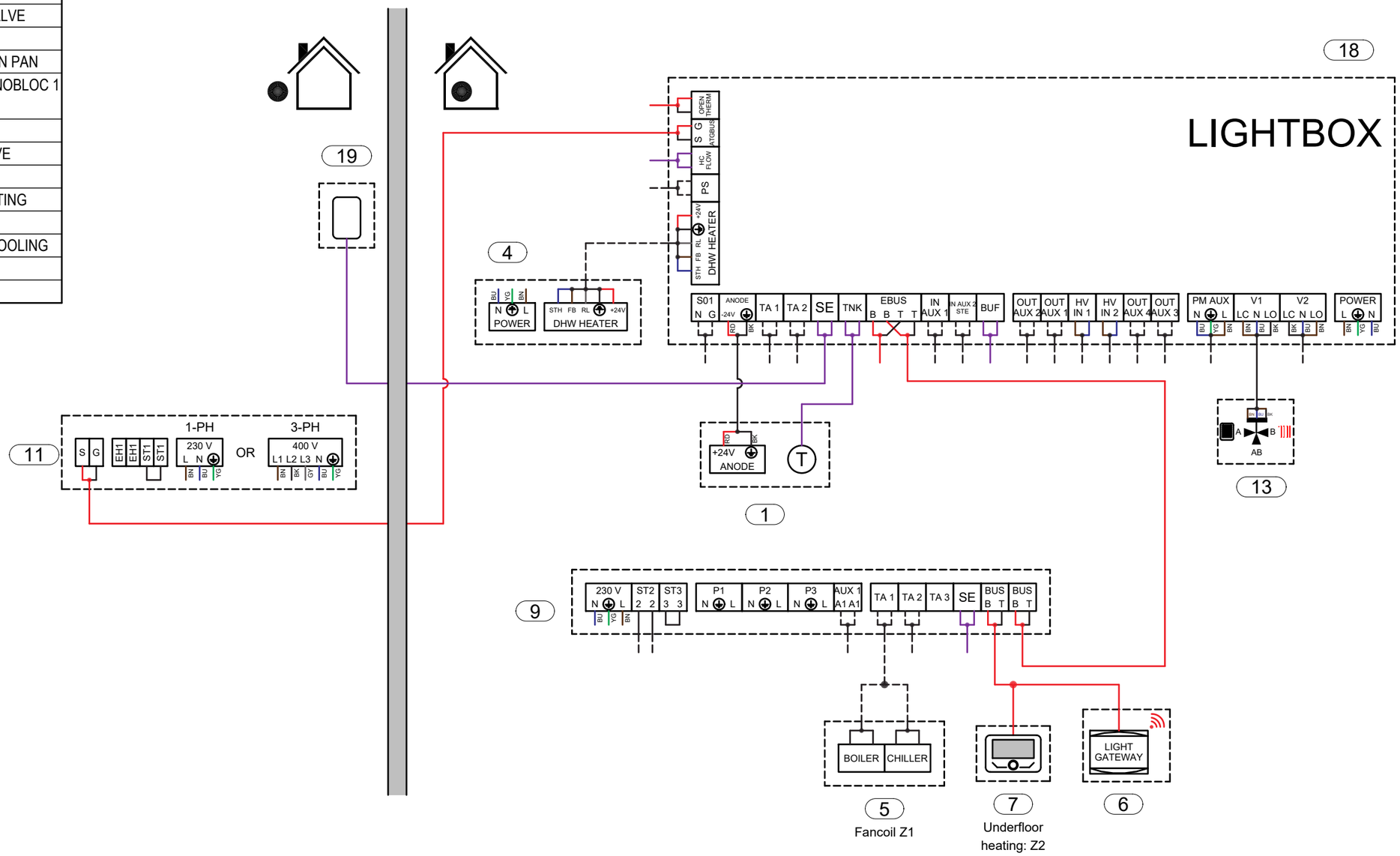


- This schematic has to be considered as example of the system functionality only and does not replace design by a qualified technician;
- The final schematic must be prepared respecting all the laws, norms and decrees in force, in order to facilitate a correct installation in compliance with the rule of the art;
- For the proper functioning of all system components, follow the instructions in the design, installation and user manuals provided by the manufacturer;
- This outline may be amended by the Ariston Group at any time without prior notice.

SCHEME			SCHEME NAME
Hydraulic			EN_004_PCM4.PK_HCD_CD1_MGM2_1D.1M
DATE	REV.	PAGE	
05/12/2023		1 / 6	

ARISTON GROUP

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



- This schematic has to be considered as example of the system functionality only and does not replace design by a qualified technician;
- The final schematic must be prepared respecting all the laws, norms and decrees in force, in order to facilitate a correct installation in compliance with the rule of the art;
- For the proper functioning of all system components, follow the instructions in the design, installation and user manuals provided by the manufacturer;
- This outline may be amended by the Ariston Group at any time without prior notice.

SCHEME			SCHEME NAME
Electrical			EN_004_PCM4.PK_HCD_CD1_MGM2_1D.1M
DATE	REV.	PAGE	
05/12/2023		2 / 6	

ARISTON GROUP

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
A AB B	THERMOSTATIC MIXING VALVE
	BALANCING VALVE

Legend	
Drawing symbols	
	INLET OR OUTLET AIR BLUE
	INLET OR OUTLET AIR RED
	COOLING
	HEATING
	HEATING-COOLING
	WIFI

- This schematic has to be considered as example of the system functionality only and does not replace design by a qualified technician;
- The final schematic must be prepared respecting all the laws, norms and decrees in force, in order to facilitate a correct installation in compliance with the rule of the art;
- For the proper functioning of all system components, follow the instructions in the design, installation and user manuals provided by the manufacturer;
- This outline may be amended by the Ariston Group at any time without prior notice.

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
	1.8.0	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

- This schematic has to be considered as example of the system functionality only and does not replace design by a qualified technician;
- The final schematic must be prepared respecting all the laws, norms and decrees in force, in order to facilitate a correct installation in compliance with the rule of the art;
- For the proper functioning of all system components, follow the instructions in the design, installation and user manuals provided by the manufacturer;
- This outline may be amended by the Ariston Group at any time without prior notice.

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
Zone Module	7.2.0	Hydraulic scheme	Defines the hydraulic scheme of the ZM: 0 = Not defined ¦ 1 = MCD ¦ 2 = MGM II ¦ 3 = MGM III ¦ 4 = MGZ I ¦ 5 = MGZ II ¦ 6 = MGZ III	2 = MGM II	[0-6]	2
Zone 1 parameter (For all thermoregulation parameters refer to the installer manual)	4.2.0	Zone temperature range	0 = Low temp ¦ 1 = High Temp	1 = High Temp	[0-1]	1
	4.4.0	Zone pump modulation	Defines the type of pump modulation: 0 = Fixed ¦ 1 = Modulating on DeltaT	Up to user	[0-1]	1
	4.4.1	Target deltaT for pump modulation	Defines in heating the range that the pump try to achieve between the flow and return temperature if the parameter 4.4.0=1	Up to user (According to the type of the emitter)	[4-25]°C	20°C if 4.2.0 = 1 hight temp; 7°C if 4.2.0 = 0 Low temp
	4.4.2	Pump fixed speed	Defines the speed of the pump if the parameter 4.4.0=0	Up to user	[20-100]%	1
	4.5.1	Cooling Temp Range	0 = Fan coil ¦ 1 = Underfloor	0 = Fan coil	[0-1]	0
	4.5.8	Target deltaT for pump modulation	Defines in cooling the range that the pump try to achieve between the flow and return temperature if the parameter 4.4.0=1	Up to user (According to the type of the emitter)	[4-20]°C	5°C
	4.8.3	Heating Controller	Define with which device the heat request is performed: 0 = None 1 = Room thermostat (Thermostat connected to TA1 of Zone Manager) 2 = Room sensor (Room sensor on eBus2)	1 = Room thermostat	[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	1 = Room thermostat	[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

- This schematic has to be considered as example of the system functionality only and does not replace design by a qualified technician;
- The final schematic must be prepared respecting all the laws, norms and decrees in force, in order to facilitate a correct installation in compliance with the rule of the art;
- For the proper functioning of all system components, follow the instructions in the design, installation and user manuals provided by the manufacturer;
- This outline may be amended by the Ariston Group at any time without prior notice.

MENU	N° PARAMETER	NAME	DESCRIPTION-OPTIONS	VALUE TO BE SET	RANGE	DEFAULT
Zone 2 parameter (For all thermoregulation parameters refer to the installer manual)	5.2.0	Zone temperature range	0 = Low temp ¦ 1 = High Temp	0 = Low temp	[0-1]	0
	5.4.0	Zone pump modulation	Defines the type of pump modulation: 0 = Fixed ¦ 1 = Modulating on DeltaT	Up to user	[0-1]	1
	5.4.1	Target deltaT for pump modulation	Defines in heating the range that the pump try to achieve between the flow and return temperature if the parameter 5.4.0=1	Up to user (According to the type of the emitter)	[4-25]°C	20°C if 5.2.0 = 1 hight temp; 7°C if 5.2.0 = 0 Low temp
	5.4.2	Pump fixed speed	Defines the speed of the pump if the parameter 5.4.0=0	Up to user	[20-100]%	1
	5.5.1	Cooling Temp Range	0 = Fan coil ¦ 1 = Underfloor	1 = Underfloor	[0-1]	1
	5.5.8	Target deltaT for pump modulation	Defines in cooling the range that the pump try to achieve between the flow and return temperature if the parameter 5.4.0=1	Up to user (According to the type of the emitter)	[4-20]°C	5°C
	5.8.3	Heating Controller	Define with which device the heat request is performed: 0 = None 1 = Room thermostat (Thermostat connected to TA1 of Zone Manager) 2 = Room sensor (Room sensor on eBus2)	2 = Room sensor	[0-2]	2
	5.8.4	Cooling controller	Define with which device the heat request is performed: 0 = None | 1 = Room thermostat | 2 = Room sensor	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		
	5.2.9	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
Zone Manager	Starting from 03.30.00
TDM	Starting from 21.01.186

- This schematic has to be considered as example of the system functionality only and does not replace design by a qualified technician;
- The final schematic must be prepared respecting all the laws, norms and decrees in force, in order to facilitate a correct installation in compliance with the rule of the art;
- For the proper functioning of all system components, follow the instructions in the design, installation and user manuals provided by the manufacturer;
- This outline may be amended by the Ariston Group at any time without prior notice.