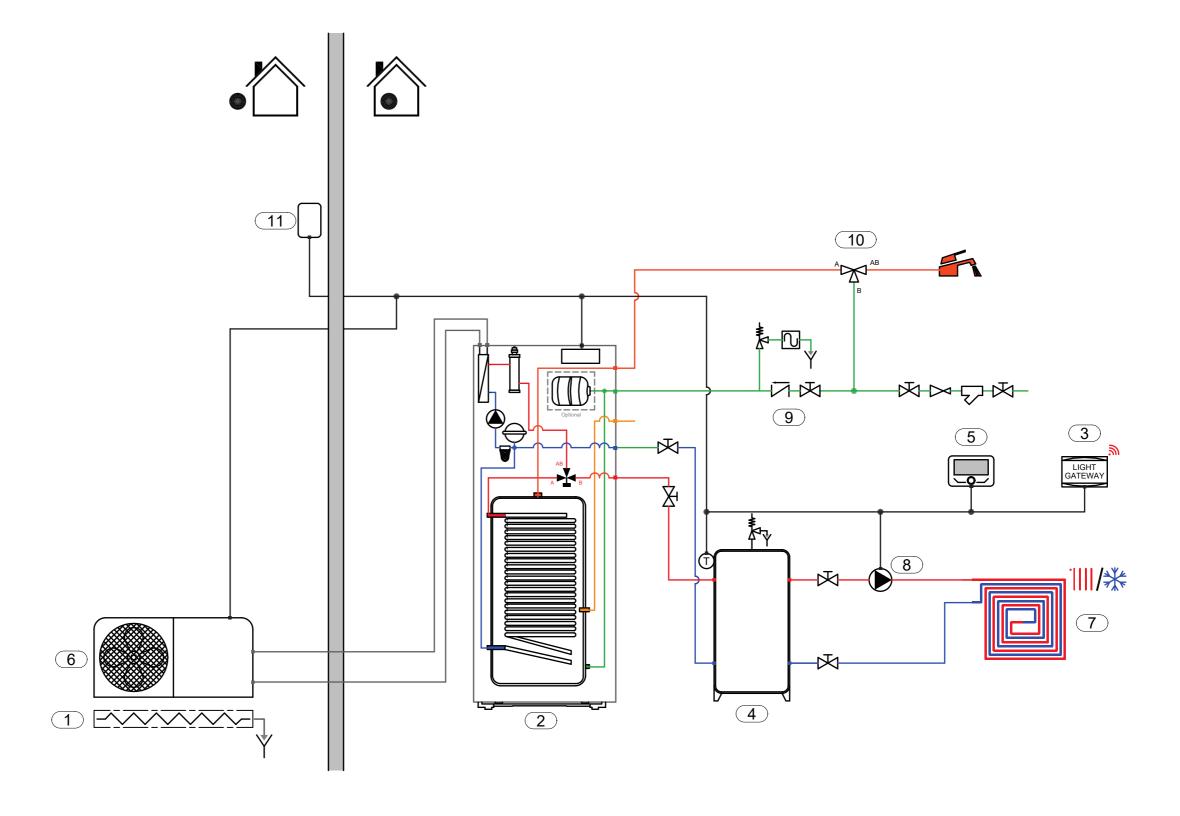
| Pos. | Description                    |  |  |  |
|------|--------------------------------|--|--|--|
| 1    | HE KIT BELOW ODU + DRAIN PAN   |  |  |  |
| 2    | IDU FS SPLIT                   |  |  |  |
| 3    | LIGHT GATEWAY                  |  |  |  |
| 4    | BUFFER TANK 4 ATTACKS WITH T   |  |  |  |
|      | PROBE                          |  |  |  |
| 5    | SYSTEM INTERFACE               |  |  |  |
| 6    | EXTERNAL UNIT HHP - SPLIT 1-PH |  |  |  |
|      | OR 3-PH                        |  |  |  |
| 7    | UNDER FLOOR HEATING-COOLING    |  |  |  |
| 8    | CIRCULATOR GENERIC - 3 wires   |  |  |  |
| 9    | SAFETY GROUP                   |  |  |  |
| 10   | THERMOSTATIC MIXING VALVE      |  |  |  |
| 11   | 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.

 Hydraulic

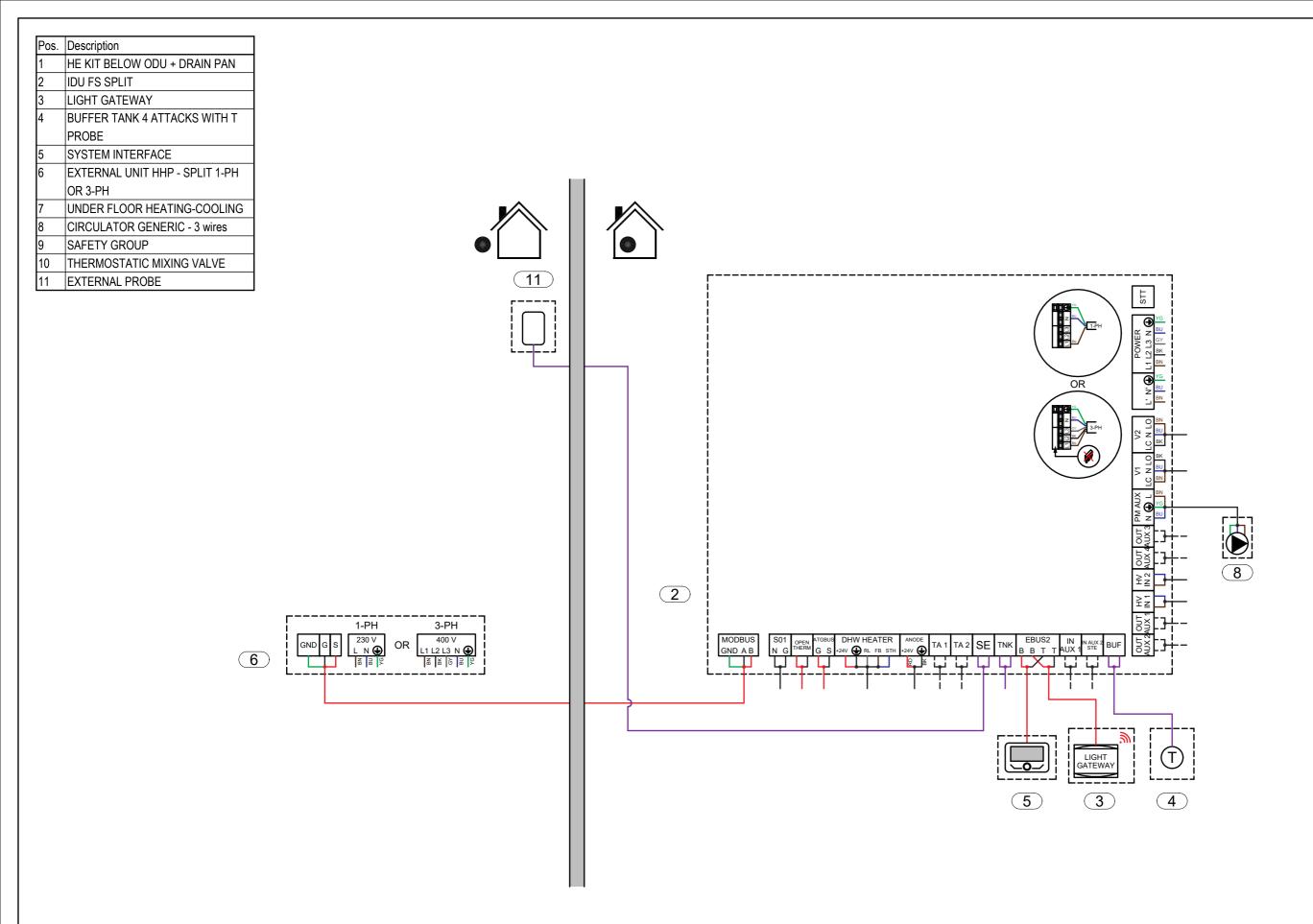
 DATE
 REV.
 PAGE

 05/12/2023
 1 / 6

SCHEME

SCHEME NAME





- 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.

PAGE

SCHEME Electrical

05/12/2023

SCHEME NAME



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

| Legend  |                           |  |  |  |  |
|---|---------------------------|--|--|--|--|
|   | Hydraulic components      |  |  |  |  |
| 2-WAY VALVE   |                           |  |  |  |  |
| <b>•</b>  | CIRCULATOR GENERIC        |  |  |  |  |
| Xw-   | BY-PASS VALVE             |  |  |  |  |
|   | MAGNETIC FILTER           |  |  |  |  |
| Y   | DISCHARGE                 |  |  |  |  |
|   | POLYPHOSPHATE FEEDER      |  |  |  |  |
| ₩Д  | SAFETY VALVE              |  |  |  |  |
|   | SYPHON                    |  |  |  |  |
| Image: section of the content of the | NON RETURN VALVE          |  |  |  |  |
| ×   | SHUT-OFF VALVE            |  |  |  |  |
| A AB  | THERMOSTATIC MIXING VALVE |  |  |  |  |
| Ń   | BALANCING VALVE           |  |  |  |  |

| Legend          |                          |  |  |  |  |
|-----------------|--------------------------|--|--|--|--|
|                 | Drawing symbols          |  |  |  |  |
| <b>A</b>        | INLET OR OUTLET AIR BLUE |  |  |  |  |
| <b>A</b>        | INLET OR OUTLET AIR RED  |  |  |  |  |
| **              | COOLING                  |  |  |  |  |
|                 | HEATING                  |  |  |  |  |
| HEATING-COOLING |                          |  |  |  |  |
| WIFI            |                          |  |  |  |  |
|                 |                          |  |  |  |  |
|                 |                          |  |  |  |  |
|                 |                          |  |  |  |  |
|                 |                          |  |  |  |  |
|                 |                          |  |  |  |  |

SCHEME
Legend
DATE REV. PAGE

05/12/2023



<sup>-</sup> This schematic has to be considered as example of the system functionality only and does not replace design by a qualified technician;

<sup>-</sup> 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;

<sup>-</sup> For the proper functioning of all system components, follow the instructions in the design, installation and user manuals provided by the manufacturer;

<sup>-</sup> 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                                |
|--|--------------|--------------------------------------|--|---|----------------------|--|
|  | 1.0.0        | IDU type                             | Defines the type of the internal unit:  0 = None   2 = Hydraulic module   3 = Light  | 2 = Hydraulic module                                    | [0-3]                | 2                                      |
|  | 1.0.1        | ODU type                             | Defines the type of the outdoor unit:<br>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  | 1 = System flow T                                       | [0-1]                | 1                                      |
| HHP<br>Energy Manager                  | 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<br>(visible with par. 20.0.0 = 1) | [0-5]                | 0                                      |
|  | 1.3.0        | CH aux heat source activation logic  | Defines which is the activation logic of secondary heat sources during heating cycle:  0 = Heat integr. and backup   1 = HP failure backup   | Up to user  | [0-1]                | 1                                      |
|  | 1.3.1        | CH active resistance stages          | Defines how many resistance stages are enabled during heating cycle: 0 = 0 Stage   1 = 1 Stage   2 = 2 Stages   3 = 3 Stages   | Up to user  | [0-3]                | 2 or 3<br>According to<br>the IDU size |
|  | 1.3.2        | ECO / COMFORT                        | Defines increasing reactivity of secondary heat sources during heating cycle from most economical/ecological (longer delay time) to most comfortable (shorter delay time):  0 = Eco Plus   1 = Eco   2 = Average   3 = Comfort   4 = Comfort Plus   5 = Customizable | Up to user  | [0-5]                | 2                                      |
|  | 1.12.9       | Exogel kit activation                | to activate when the antifreez kit is installed:<br>0 = OFF ¦ 1 = ON   | 1 = ON  | [0-1]                | 1                                      |
|  | 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]                | 1                                      |
| HHP Energy<br>Manager<br>(DHW service) | 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                                      |
|  | 1.4.1        | DHW active resistance stages         | Defines how many resistance stages are enabled during DHW cycle: 0 = 0 Stage   1 = 1 Stage   2 = 2 Stages   3 = 3 Stages   | Up to user  | [0-3]                | 2 or 3<br>According to<br>the IDU size |
|  | 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]<br>°C*min | 200°C*min                              |

| SCHEME | Parameter list | DATE | REV. | PAGE | 05/12/2023 | 4 / 6



<sup>-</sup> This schematic has to be considered as example of the system functionality only and does not replace design by a qualified technician;

<sup>-</sup> 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;

<sup>-</sup> For the proper functioning of all system components, follow the instructions in the design, installation and user manuals provided by the manufacturer;

<sup>-</sup> 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 |
|--------------------------|---------------------------------------|--|---|--------------------|----------------------------|---------|
|                          | 1.9.0                                 | DHW Comfort Setpoint<br>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:<br>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 -<br>HP 40  | Up to user         | [0-3]                      | 1       |
| HHP Energy               | 1.9.6                                 | Thermal cleanse function                   | 0 = OFF ¦ 1 = ON  | Up to user         | [0-1]                      | 1       |
| Manager<br>(DHW service) | 1.9.7                                 | Thermal Cleanse start time [hh:mm]         | Start time of Thermal cleanse function  | Up to user         | [00:00 - 23:45]<br>[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<br>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      |
|                          | 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:<br>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    |
| Buffer                   | 20.0.4<br>(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<br>(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:<br>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<br>(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     |



<sup>-</sup> This schematic has to be considered as example of the system functionality only and does not replace design by a qualified technician;

<sup>-</sup> 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;

<sup>-</sup> For the proper functioning of all system components, follow the instructions in the design, installation and user manuals provided by the manufacturer;

<sup>-</sup> 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 |
|--|-------------------------------|--------------------|--|--|-------|---------|
|  | 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       |
| Zone 1 parameter<br>(For all<br>thermoregulation<br>parameters refer to<br>the installer manual) | User Menu/Zones<br>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 |                         |  |  |  |
|------------------------|-------------------------|--|--|--|
|                        | Starting from 00.07.12  |  |  |  |
| New Sensys             | *Starting from 00.28.03 |  |  |  |
|                        | Starting from 22.05.27  |  |  |  |
| Energy Manager 2.0     | *Starting from 22.26.05 |  |  |  |
| TDM                    | Starting from 21.01.186 |  |  |  |

| SCHEME | Parameter list | DATE | REV. | PAGE | 6 / 6



<sup>-</sup> This schematic has to be considered as example of the system functionality only and does not replace design by a qualified technician;

<sup>-</sup> 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;

<sup>-</sup> For the proper functioning of all system components, follow the instructions in the design, installation and user manuals provided by the manufacturer;

<sup>-</sup> This outline may be amended by the Ariston Group at any time without prior notice.