



Integration manual



HOMEWORKS QSX

myRoom XC



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Introduction

DESCRIPTION

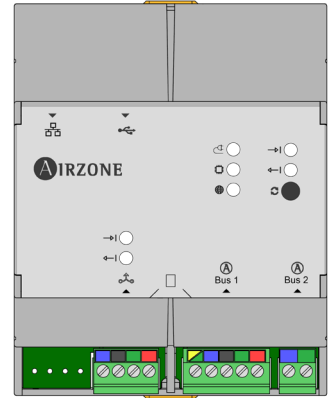
The Webserver HUB (AZX6WSPHUB) enables the integration of Lutron control systems into Airzone HVAC systems through two devices:

- HomeWorks QSX processor
- myRoom XC processor

This is a Plug&Play device for Airzone systems that, through authentication/encryption using LAP and LEAP protocols, enables the following actions to be carried out:

- Control of up to 32 systems.
- Configuration and control of zone and system parameters through Cloud platform.
- Association with router via Bluetooth through the app.
- Multi-user and multi-session.
- Port for integration via Modbus or BACnet MS/TP protocol.
- Integration via Local API.
- Remote update of Webserver firmware and connected systems.
- Remote management and solution of system errors.

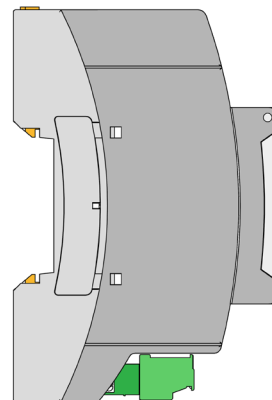
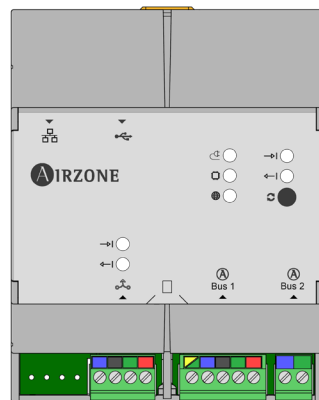
The system requires the connection of at least one Airzone Blueface Zero thermostat. It enables the HVAC control of each connected zone via Lutron Keypads and the control of time schedules both through the processor and the Lutron app.



TECHNICAL SPECS

Power supply and consumption	
Type of power supply	Vdc
Max. V	12 V (powered from the system main control board)
Max. I	1.1 A
Standby consumption	1.3 W
Operating temperatures	
Storage	- 20 – 70 °C (- 4 – 158°F)
Operation	0 – 50 °C (32 – 113 °F)
Operating humidity range	5 – 90% (no condensation)

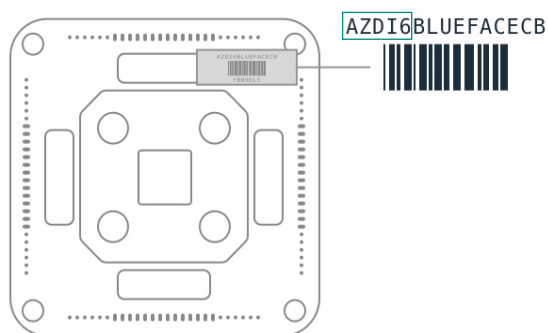
Ethernet	
Cable type	UTP cat. 5
Standard	100BASE-TX
Default IP addressing	DHCP
Wi-Fi	
Protocol	Wi-Fi CERTIFIED™ 802.11a/b/g/n/ac
Frequency	2.4 GHz (max. 150 Mbps) 5 GHz (max. 433 Mbps)
Maximum power	19.5 dBm
Maximum distance	100 m (328 ft)
Default IP addressing	DHCP



Note: For further information about the Webserver HUB, please refer to the [technical datasheet](#).

SYSTEM IDENTIFICATION

To perform the configuration process, the system must first be identified; to do so, remove the Blueface thermostat from its base and check the code on the label located on the back of the thermostat.



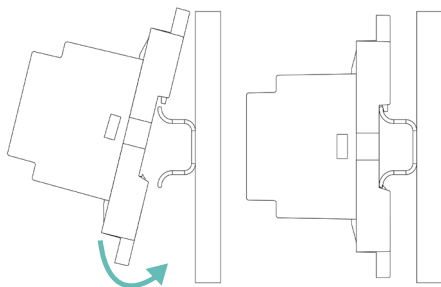
Depending on the code printed on the label, the system will be configured differently. For more information, please refer to the documentation associated with each system:

Classification		Associated documentation	
AZCE6	Flexa 3.0 / Innobus Pro6 system	Quick guide	Installation manual
AZCE8	Flexa 4.0 / Innobus Pro8 system	-	Installation manual
AZC25	Flexa 25 system	-	Installation manual
AZDI6	Acuazone / Innobus Pro32 system	Quick guide	Installation manual
AZRA6	RadianT365 system	Quick guide	Installation manual
AZVAF	VAF system	Quick guide	Installation manual
AZZBS	ZBS system	Quick guide	Installation manual
AZZS6	2-pipe / 2-wire system	Quick guide	-

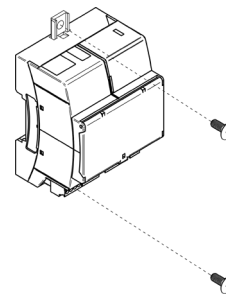
Installation

ASSEMBLY

The module is DIN rail or surface mounted. The location and assembly must comply with current electronic regulations.



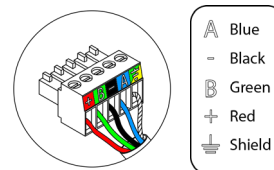
Mounted using DIN rail



Mounted on wall

Note: To remove the module on DIN rail, pull the tab downwards to release it.

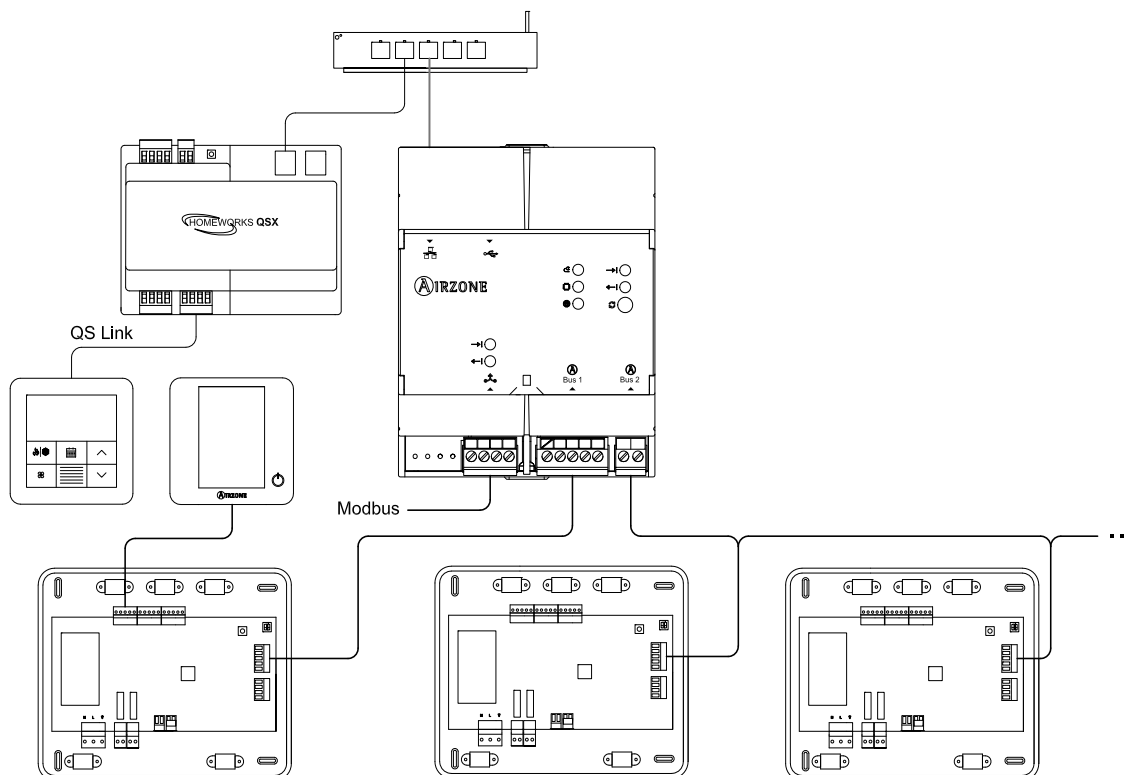
For connection to the first main control board, use the DM1 5-pin terminal to connect the Webserver HUB to the main control board's automation bus. Use the appropriate cable: 4-wire twisted shielded cable: 2 x 0.22 mm² + 2 x 0.5 mm² (2 x AWG 23 + 2 x AWG 20). Fix the cables with the screws on the terminal, following the color code.



A connection must be established between the Webserver HUB and the Lutron system (either via Ethernet or Wi-Fi). Once the system main control board is connected to the Webserver, it will automatically detect its presence and will set the parameters to enable operation with the Lutron system.

CONNECTION DIAGRAMS

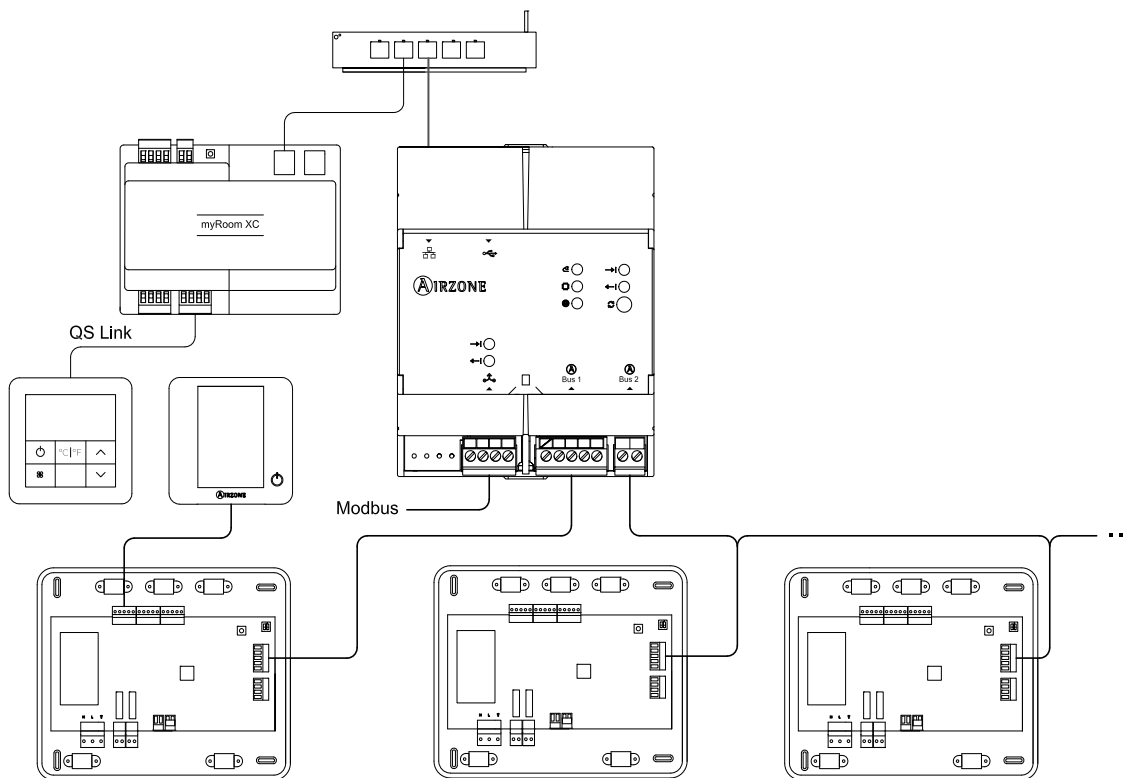
Webserver HUB connection diagram with the HomeWorks QSX processor



Important: The Webserver HUB can control up to 32 systems simultaneously from a single Lutron HomeWorks QSX system. Each system has an identifier that will be necessary to perform the configuration through Lutron Designer.

Note: The Webserver can be connected to the router via an Ethernet cable or Wi-Fi.

Webserver HUB connection diagram with the myRoom XC processor



Important: The Webserver HUB can control up to 32 systems simultaneously from a single Lutron myRoom XC system. Each system has an identifier that will be necessary to perform the configuration through Lutron Designer.

Note: The Webserver can be connected to the router via an Ethernet cable or Wi-Fi.

Configuration of Airzone systems with Lutron processors

INTEGRATION IDENTIFIERS

Depending on which device is in charge of providing the system with the room temperature, two different configurations are possible. According to this, the following will apply:

- Airzone will be in charge of providing the room temperature when it comes from one of the following devices: Blueface Zero Airzone thermostat, wired controller of the indoor unit, return from the indoor unit, or external sensor.
- Lutron will be in charge of providing the room temperature when it comes from the Palladiom thermostat.

Regardless of the thermostat used, the Lutron system will have full control of the zones from the keypads, timers and the Lutron app.

Identification of the HVAC zone controlled by Airzone

The Airzone system uses *UID* to control the set point temperature, operation mode and ventilation mode. The necessary format for this identifier (*UID*) is: *IXYY*, where *XX* is the system number and *YY* the HVAC zone number.

- XX → 01 for Airzone system 1; 02 for Airzone system 2; ... Up to 32 Airzone systems.
- YY → 01 for Airzone zone 1; 02 for Airzone zone 2; ... Up to 32 Airzone zones per system (depending on the type of Airzone system).

Example: An *UID* for Airzone system 1 and zone 2 will be 10102.

Identification of the HVAC zone controlled by Lutron

The *UID* identifier is used to exchange the room temperature measured by the Lutron thermostat in the zone with the Airzone system. The necessary format for this identifier (*UID*) is as follows: *2XXYY*, where *XX* identifies the system number and *YY* the Airzone zone number.

- XX → 01 for Airzone system 1; 02 for Airzone system 2; ... Up to 32 Airzone systems.
- YY → 01 for Airzone zone 1; 02 for Airzone zone 2; ... Up to 32 Airzone zones per system (depending on the type of Airzone system).

Example: A Palladiom thermostat *UID* for Airzone system 1 and zone 1 will be 20101.

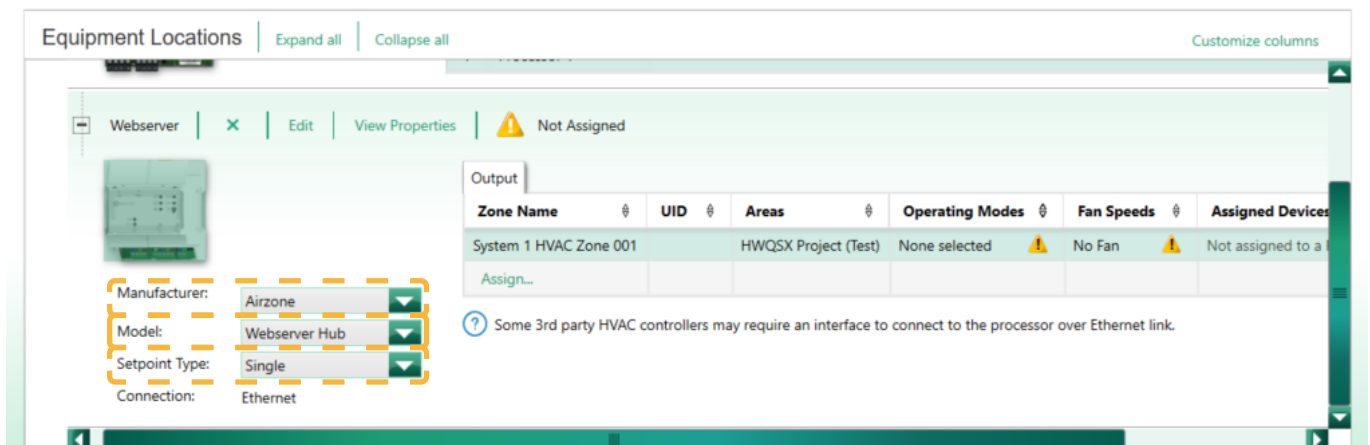
CONFIGURATION WITH LUTRON DESIGNER

Note: Lutron Designer software version 23.0 or higher must be used.

1. Define the Webserver HUB on the *design - equipment* screen. To do so, add a "3rd Party HVAC" device. Select the following options in the drop-down menu:
 - **Manufacturer:** Airzone
 - **Model:** Webserver HUB
 - **Setpoint type:** Single (for Airzone Flexa / Acuazone / RadianT systems) or Dual (for Airzone VAF / ZBS / ZS6 systems)

Flexa / Acuazone / RadianT systems only use °C, while VAF / ZBS / ZS6 systems use both °C and °F, so the Airzone system and the Lutron project must be configured with the same units.

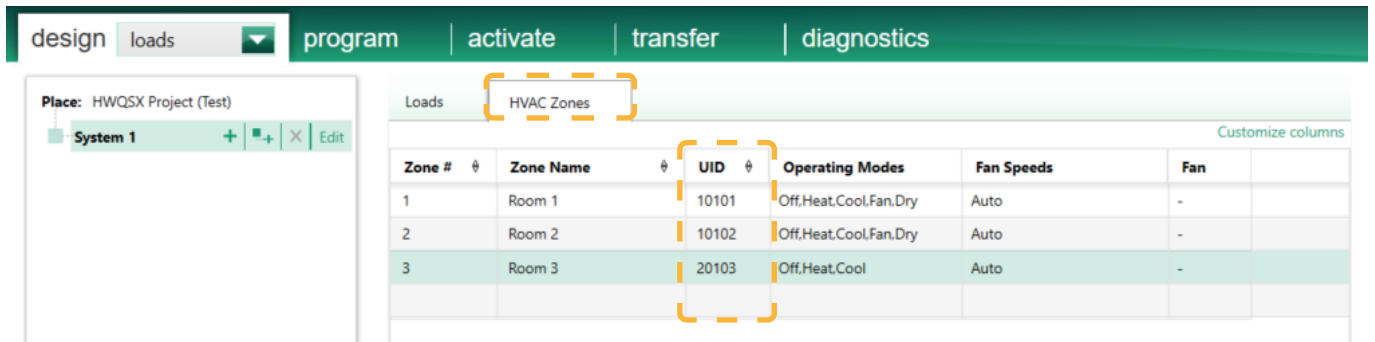
Set the minimum and maximum set point temperature to 19°C and 30°C (66°F and 86°F), respectively. In the case of "Setpoint Dual", set the "Minimum Heat/Cool Set point Difference" value equal to that of the Lutron system.



2. Define the HVAC zones on the *design - loads* screen, in the "HVAC zones" tab, and configure their parameters.

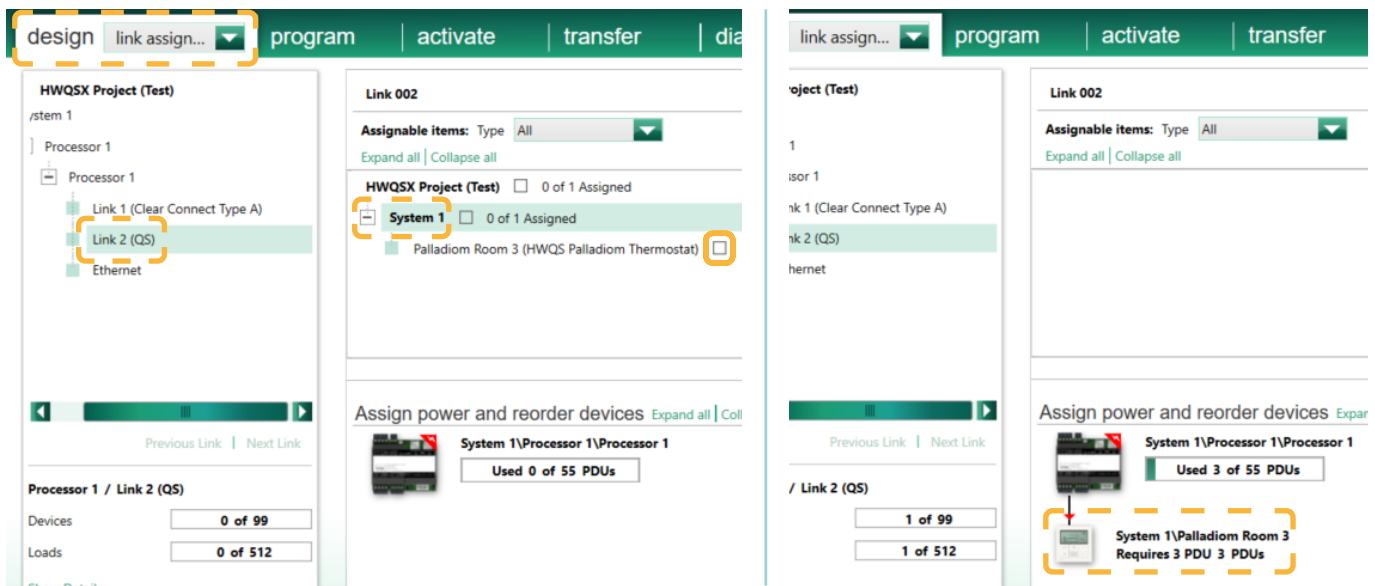
Note: The UID must be unique for each zone and will be assigned with the format 2XXYYY or 1XXYYY, depending on whether the zone has a Lutron Palladiom thermostat as a zone controller, as described in the "Integration identifiers" section.

Important: For zoned ducted units, Fan Speeds must be set to Auto.

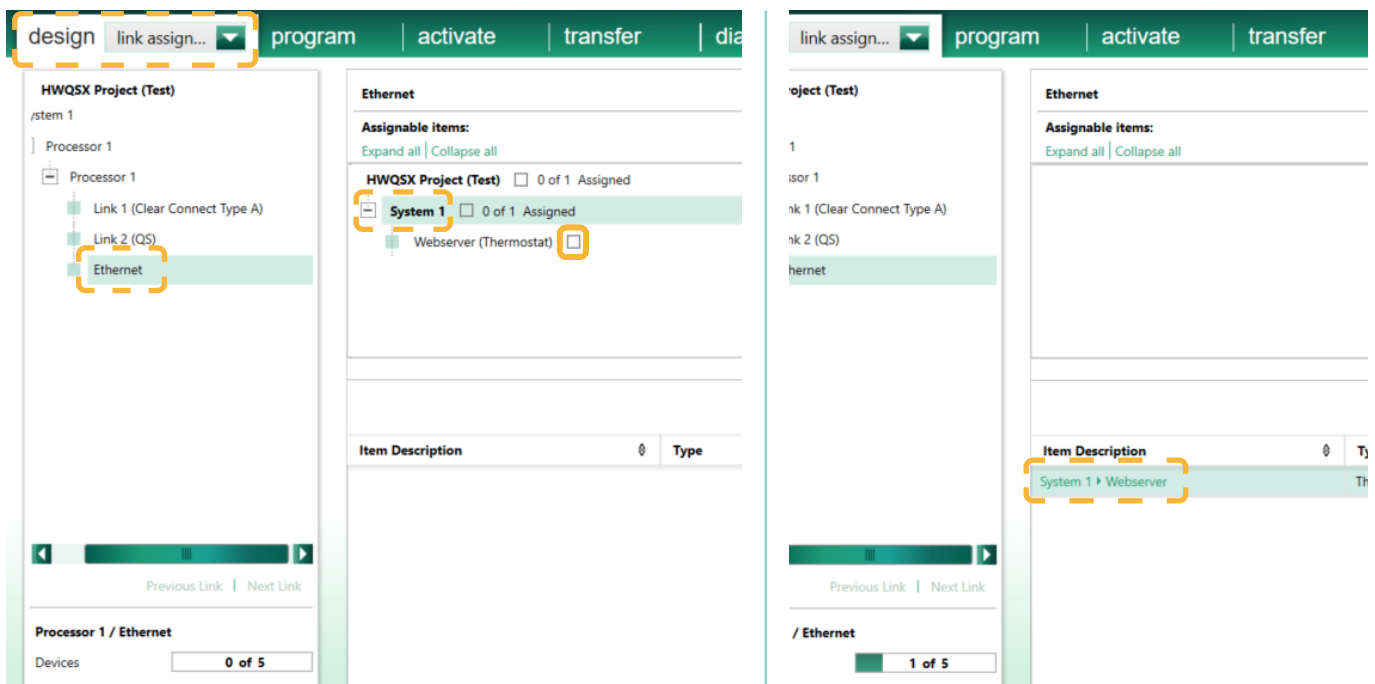


3. From the *design - link assignment* screen, assign the Webserver HUB and Lutron Palladiom thermostats previously defined to the processor.

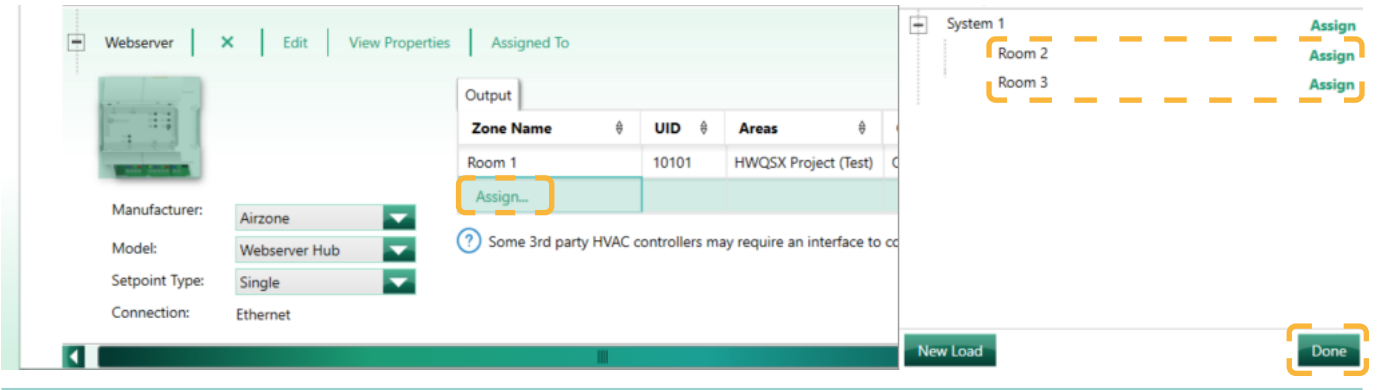
- Lutron Palladiom: Associate the thermostats to the processor's QS link.



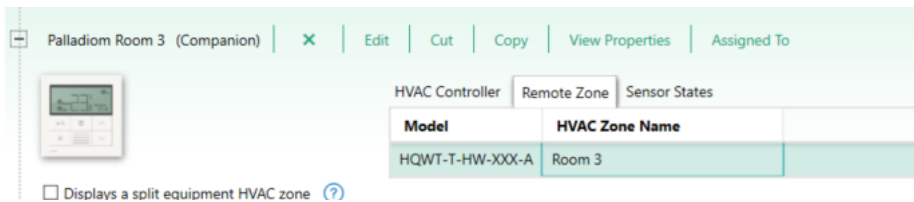
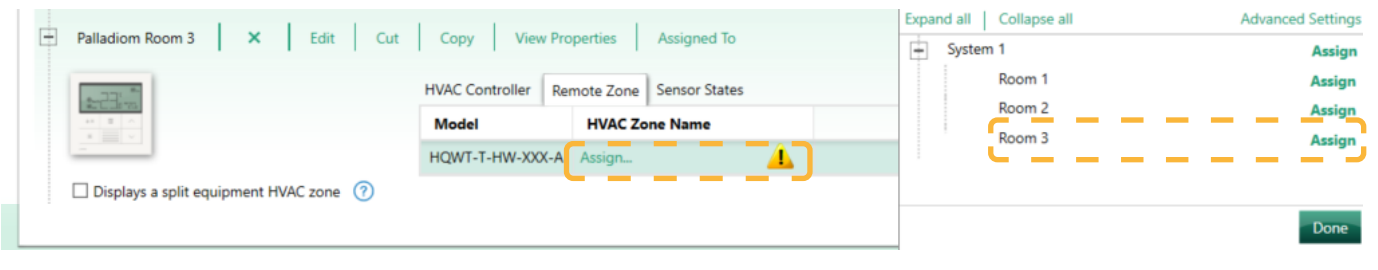
- Webserver HUB: Associate the Webserver through Ethernet with the processor.



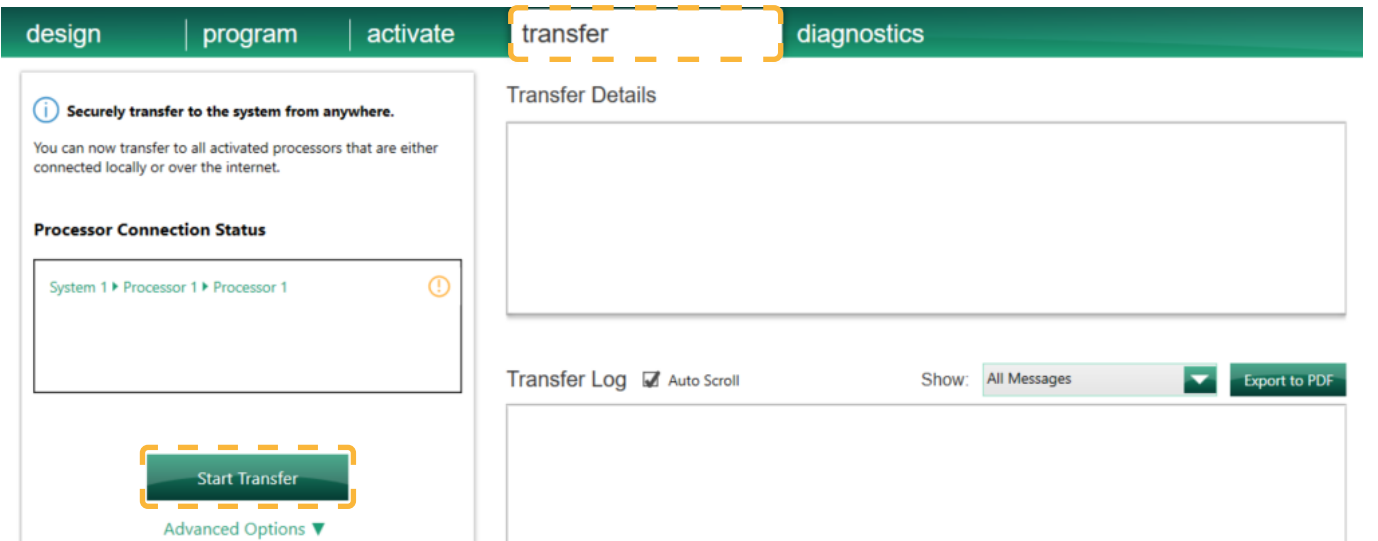
4. From the *design - equipment* screen, in the "Output" table, click on "Assign" and add the remaining HVAC zones created previously.



5. From the *design - controls* screen, in the *Remote Zone* parameter, click on "Assign" and add the HVAC zone that will be controlled by the Palladium thermostat.

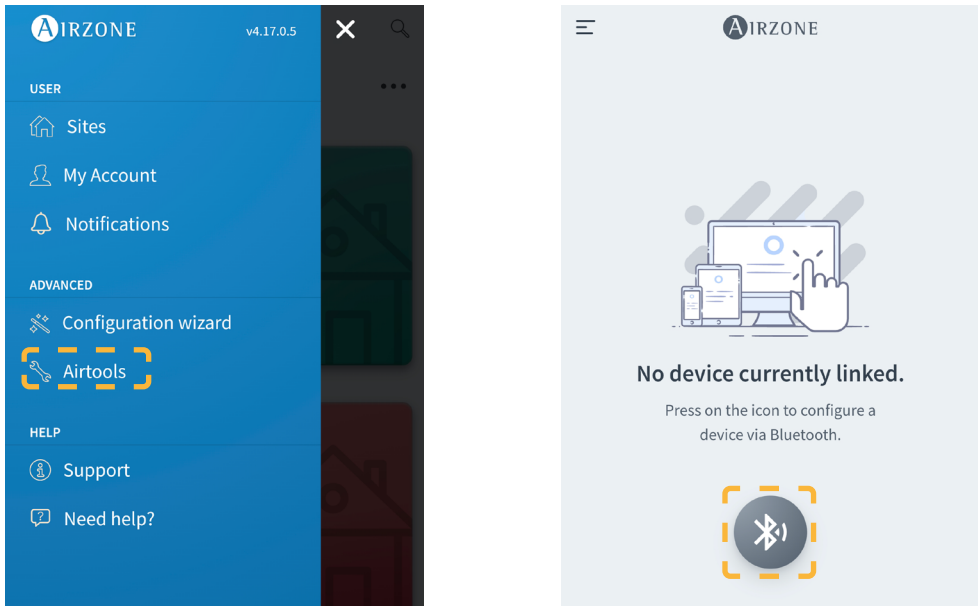


6. Finally, select the *transfer* screen and start transferring the configuration to the processor.



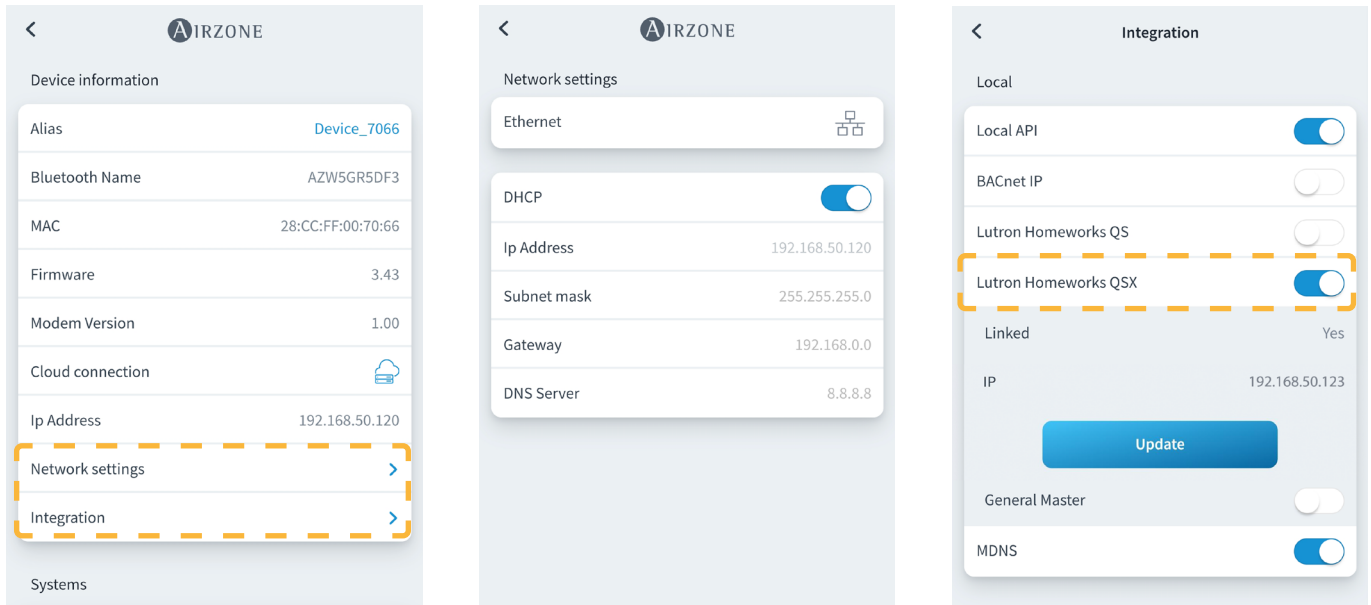
CONFIGURATION WITH AIRZONE CLOUD

Access the Airzone Cloud app and, in the side menu, click on “Airtools” to access the advanced settings. Click on the “Bluetooth” icon to search for devices and select the device that you want to configure.



You can see the *Network settings* in the “Device information” tab. By selecting the *Integration* submenu, you can also choose the type of integration of your system.

Note: The Lutron HomeWorks QSX processor is available in the Webserver HUB from version 3.44.



After enabling integration with the Lutron processor, 3 parameters appear:

- Linked.** This indicates whether Airzone has been linked to Lutron. Both systems must be on the same network (Wi-Fi or Ethernet) and the association process must have been enabled at least once on the Lutron processor (by pressing the button on the processor*). To delete a previous link, a factory reset can be performed from the Webserver (by pressing for 10 seconds or longer) or from the Airzone Cloud app by following the **Airtools → Bluetooth → Factory reset** path. Once the parameter status is active, the Airzone system zones will be linked to the Lutron HVAC zones.

** During the association process, once the processor button has been pressed, it is sometimes necessary to wait several seconds for the link to be completed.*
- IP.** Shows, on an informative basis, the IP address of the Lutron processor. It is possible to control several Lutron processors with a single Webserver (up to 256), provided they are on the same network.
- General Master.** If this option is enabled, all Lutron HVAC zones will be able to change the operation mode of the Airzone system. However, if it is disabled, only the Lutron HVAC zone associated to the Airzone master zone will be able to change the mode, while the rest of the zones will work in the mode the master zone is in when they are on demand.

Click “Update” to refresh the status of the Webserver association with the processor.



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