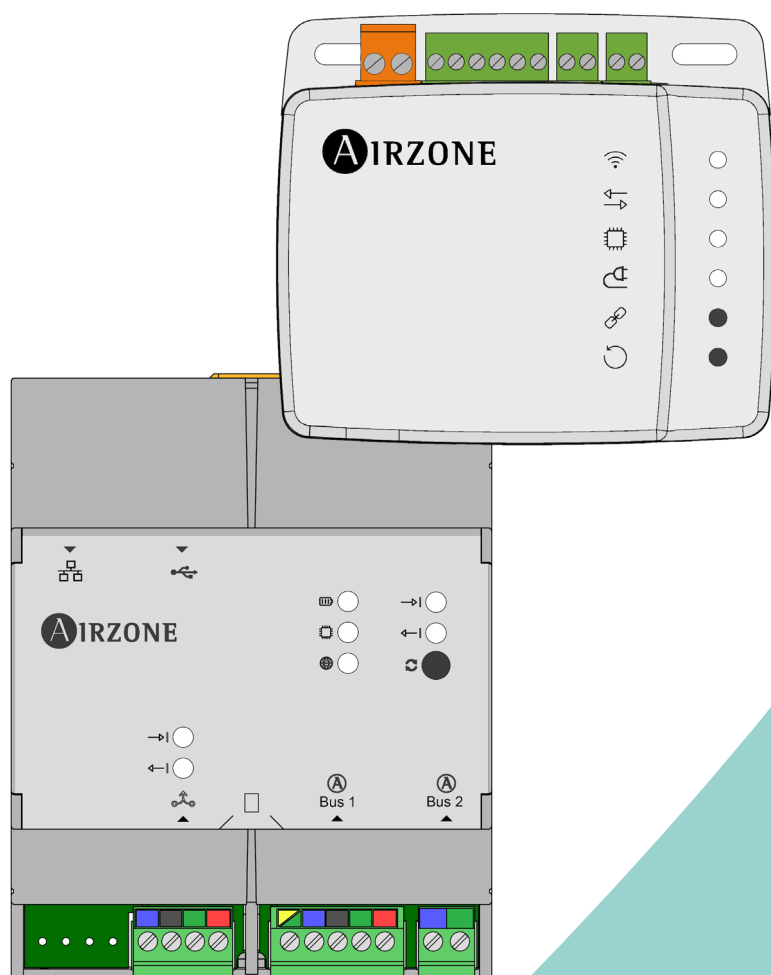




EN

Integration manual



AIRZONE

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Introduction

DESCRIPTION AND CHARACTERISTICS

Airzone systems allow integration with Lutron through two devices: the Webserver HUB and the Aidoo Pro. This integration can be carried out through the HomeWorks QS Processor or through the Lutron Palladiom thermostat.

Webserver HUB Airzone Cloud Dual (AZX6WSPHUB)

The Webserver HUB enables the integration of Lutron control systems into Airzone HVAC systems through the Lutron HomeWorks QS/QSX Processor.

The Webserver HUB is a Plug&Play device for Airzone systems that, using the Telnet protocol (in the case of a HomeWorks QS Processor) or through authentication/encryption using LAP and LEAP protocols (in the case of a HomeWorks QSX Processor), 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 or Blueface Zero thermostat. It enables the HVAC control of each connected zone via Lutron Keypads and the control of time schedules both through the HomeWorks QS/QSX Processor and the Lutron app.

Aidoo Pro (AZAI6WSPxxx)

The Aidoo Pro enables the integration of Lutron control systems into individual HVAC units through the RS-485 port of the Lutron Palladiom thermostat.

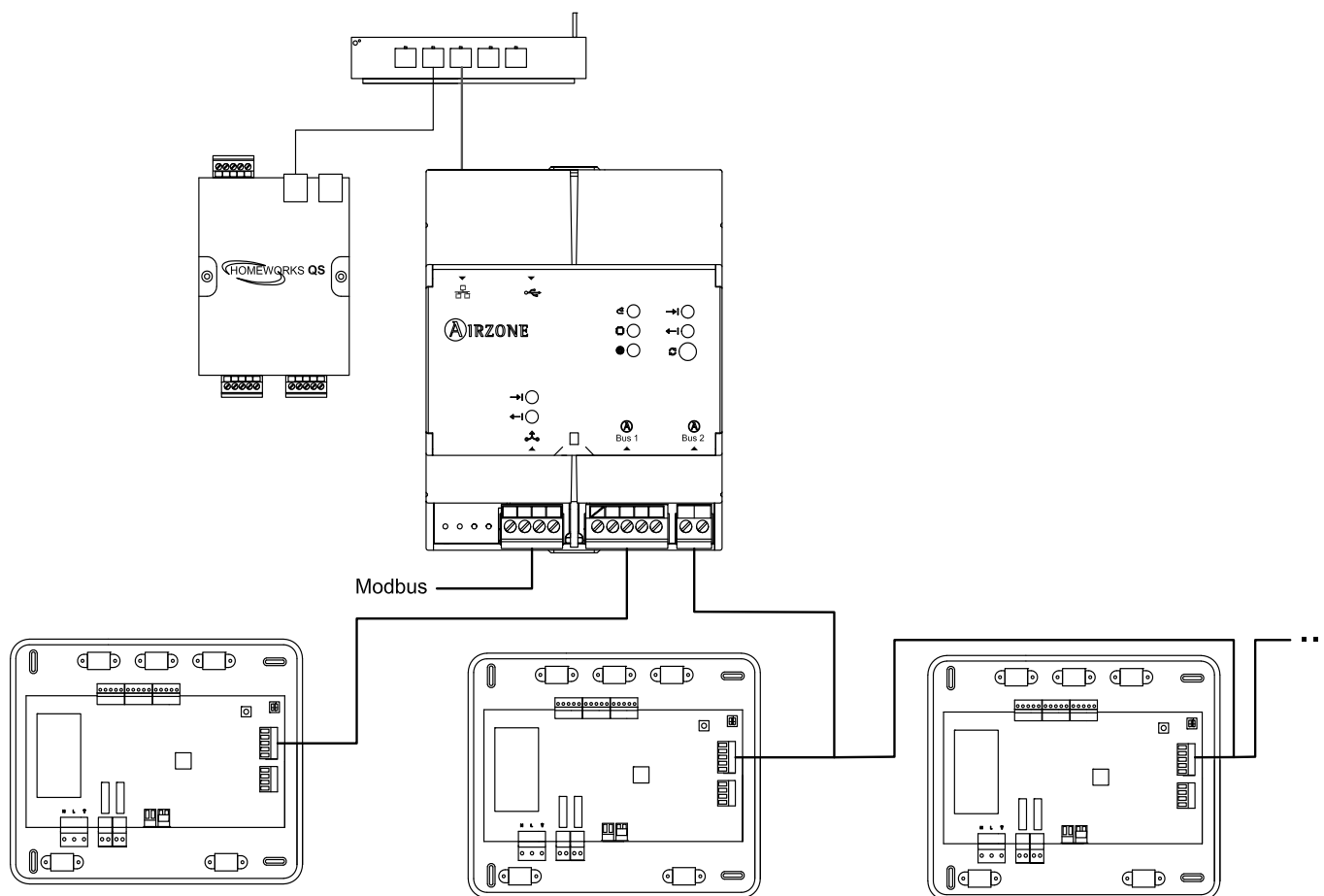
The Aidoo Pro is a Plug&Play device for the control of individual HVAC units, enabling the following actions to be carried out:

- Control of the different HVAC unit parameters:
 - ◊ Control of set point temperature
 - ◊ Control of the operation mode
 - ◊ Control of fan speed
 - ◊ Control of switching the HVAC unit on and off
- Communication via Wi-Fi Dual (2.4/5 GHz).
- Detection of errors during communication.
- Access to device parameter settings via Bluetooth.

SYSTEM DIAGRAM

The typical connection diagram with Lutron is shown below:

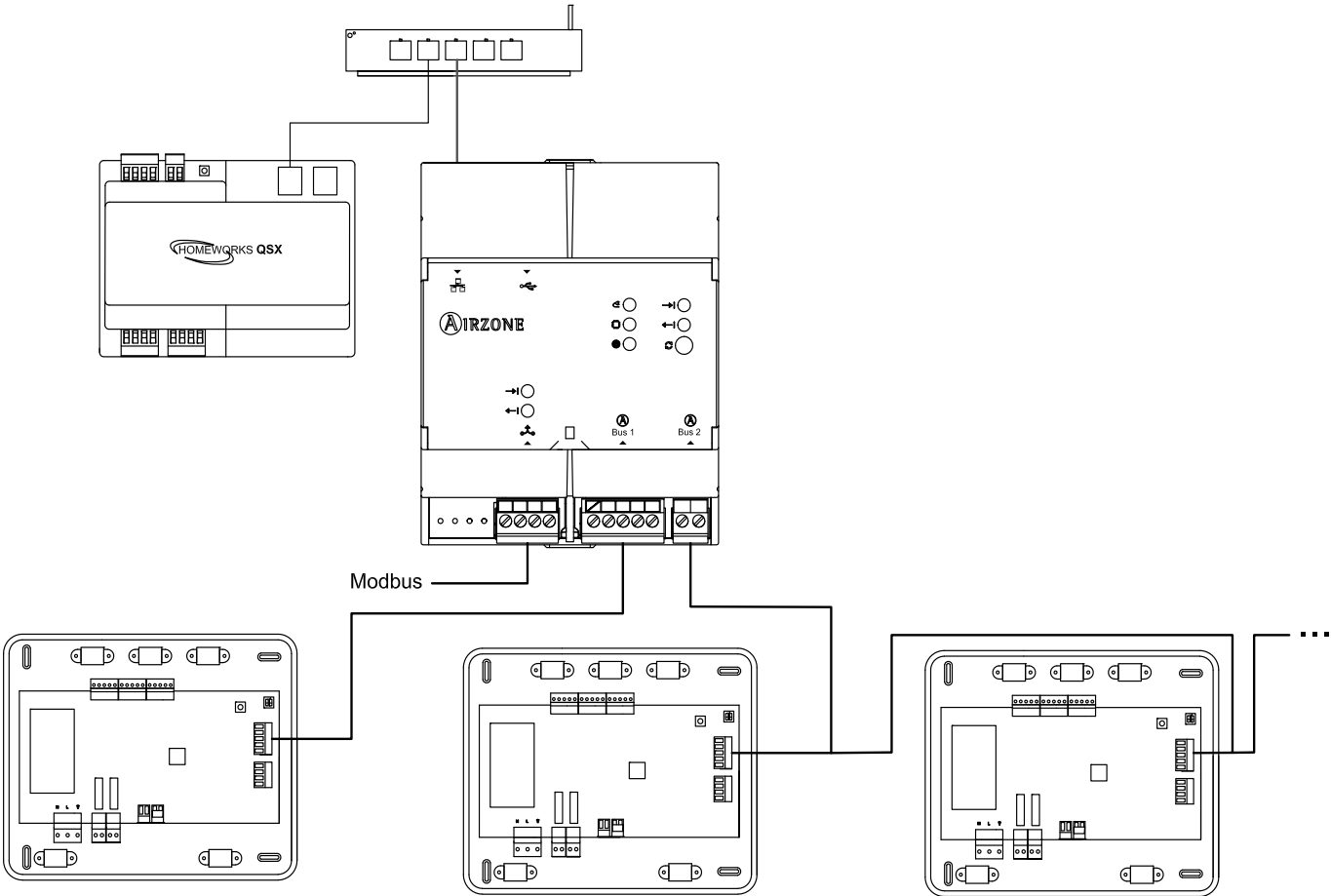
Webserver HUB connection diagram with the HomeWorks QS processor



Important: The Webserver HUB can control up to 32 systems simultaneously from a single Lutron HomeWorks QS 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.

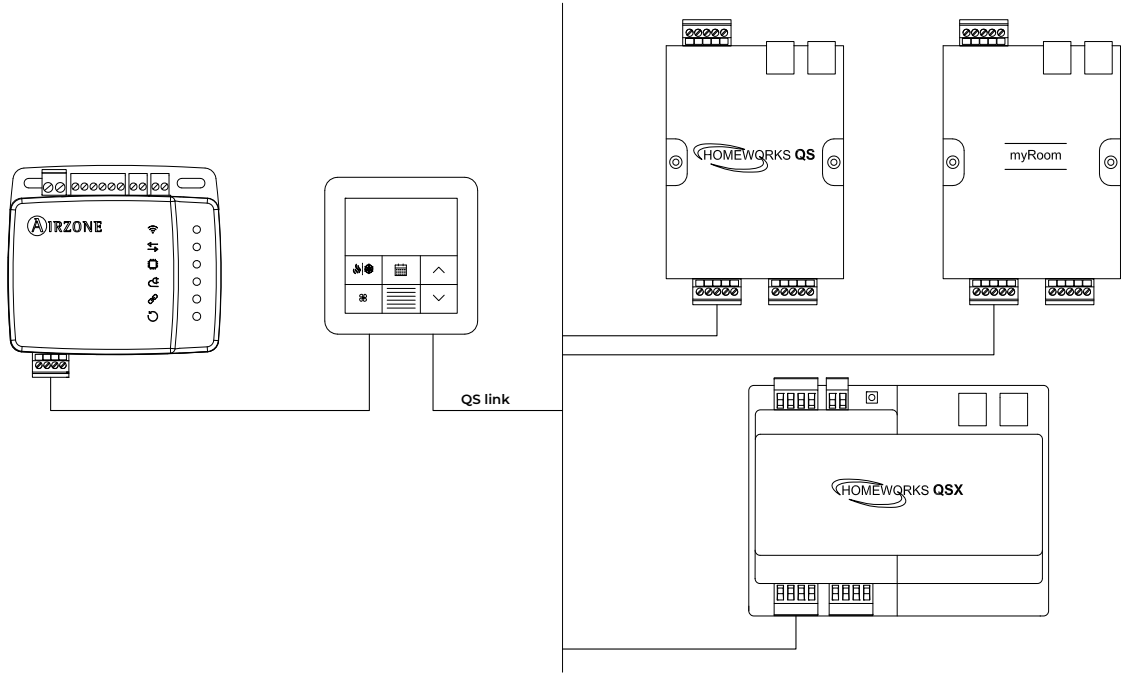
Webserver HUB connection diagram with the HomeWorks QSX processor



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.

Aidoo Pro connection diagram with the Lutron Palladiom thermostat

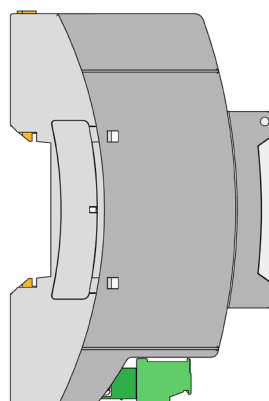
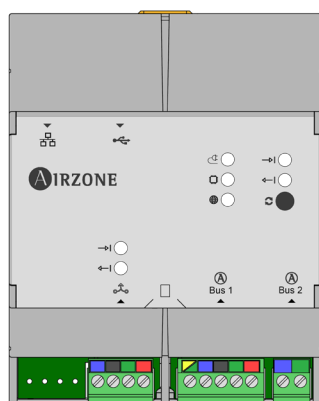


SPECIFICATIONS AND ELEMENTS

Webserver HUB

Power supply and consumption	
Type of power supply	Vac
Max. V	12 V (powered from the system main control board)
Max. I	1.1 mA
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

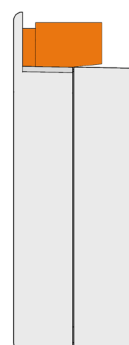
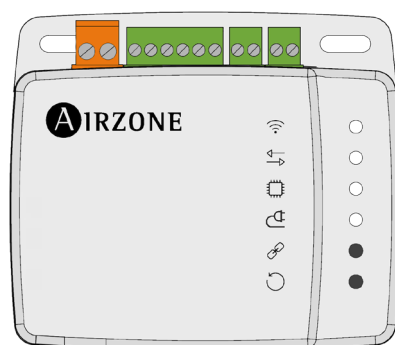


Note: For further information about the Webserver HUB, please refer to the [technical datasheet](#).

Aidoo Pro

Power supply and consumption	
Type of power supply	Vdc
Max. V	18 V
Max. I	2 mA
Consumption	1.85 W
Operating temperatures	
Storage	- 20 – 70 °C (- 4 – 158 °F)
Operation	0 – 45 °C (32 – 113 °F)
Operating humidity range	5 – 90% (no condensation)

RS485 port	
Twisted shielded cable	2x0.22 + 2 x 0.5 mm ² (2 x AWG 23 + 2 x AWG 20)
Communication protocol	RS-485 BACnet MS-TP Even – 19200 bps
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
Sensitivity	- 82 dBm
Default IP addressing	DHCP



Note: For more information about the Aidoo Pro, please visit airzonecontrol.com.

Installation

The Webserver HUB acts as an interpreter using the services defined by the Lutron HomeWorks QS/QSX Processor to connect Airzone and Lutron systems through the Lutron integration protocol. In the case of using an Aidoo Pro to control an individual HVAC unit, the integration will be carried out through the RS-485 port of the Lutron Palladiom thermostat.

Note: The HomeWorks QS Processor and the Lutron Palladiom thermostat must use the Lutron Designer software version 13.0 or above. In the case of implementing the HomeWorks QS Processor, the Lutron Designer software must be version 23.0 or above.

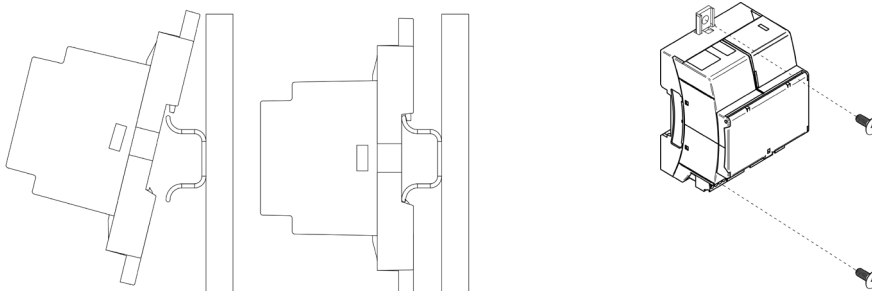
The Webserver HUB is a Plug&Play device that, when connected to the Airzone system main control board and to the HomeWorks QS/QSX Processor (via Ethernet or Wi-Fi), using the Lutron integration protocol, self-configures and configures the system main control board to work with the Lutron system.

Important: When working with the Webserver HUB, at least one Airzone Blueface or Blueface Zero thermostat must be connected at all times.

ASSEMBLY AND CONNECTION

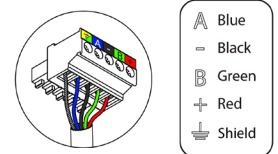
Webserver HUB

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



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

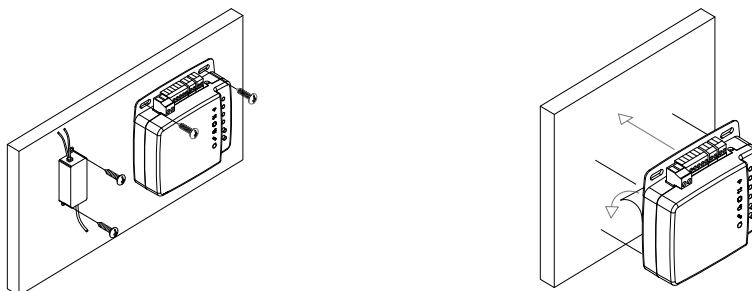
For connection to the first main control board, use the DM1 automation bus's 5-pin terminal to connect the Webserver HUB to the main control board's automation bus. Use the appropriate cable: 4-wire twisted shielded cable: 2 x 0.22 mm² + 2 x 0.5 mm² (2 x AWG 23 + 2 x AWG 20). Fix the cables with the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



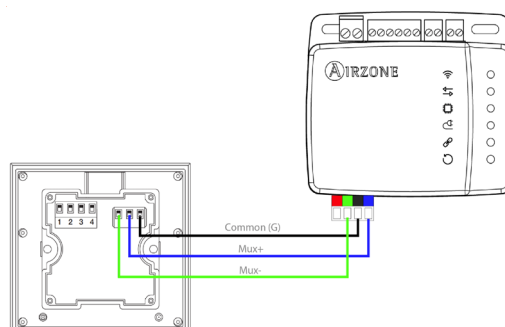
A connection must be established between the Webserver HUB and the Lutron system (either via Ethernet or Wi-Fi). Once the system main control board is connected to the Webserver, it will automatically detect its presence and will set the parameters to enable operation with the Lutron system.

Aidoo Pro

The Aidoo Pro is surface mounted (using screws or double-sided adhesive tape).

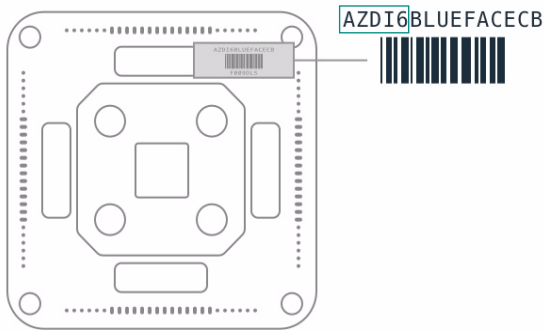


For connection with the Lutron Palladiom thermostat, fix the cables with the screws on the terminal, following the polarity.



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
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 Manual

Note: This step is only necessary when the application has a Webserver HUB.

Configuration of Airzone systems with HomeWorks QS

INTEGRATION IDENTIFIERS

Depending on the presence or absence of the Airzone thermostat in the zones, two different configurations are possible.

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

Identification of the HVAC zone

The Airzone system uses *HVAC commands* to control the set point temperature, operation mode and ventilation mode. The necessary format for this identifier (*HVAC Integration ID*) is: 1XXYY, 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: A HVAC Integration ID for Airzone system 1 and zone 2 will be 10102.

Identification of the Lutron thermostat

The *DEVICE* 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 (*Device Integration ID*) 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 DEVICE Integration ID for Airzone system 1 and zone 1 will be 20101.

CONFIGURATION WITH LUTRON DESIGNER

1. Define the HVAC zones in the Lutron Designer software from the *design - loads* menu in the "HVAC zones" tab (by clicking on "Add load") and configure their parameters.

Note: The UID (*DEVICE/HVAC Integration ID*) 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 or not, as described in the "Integration identifiers" section.

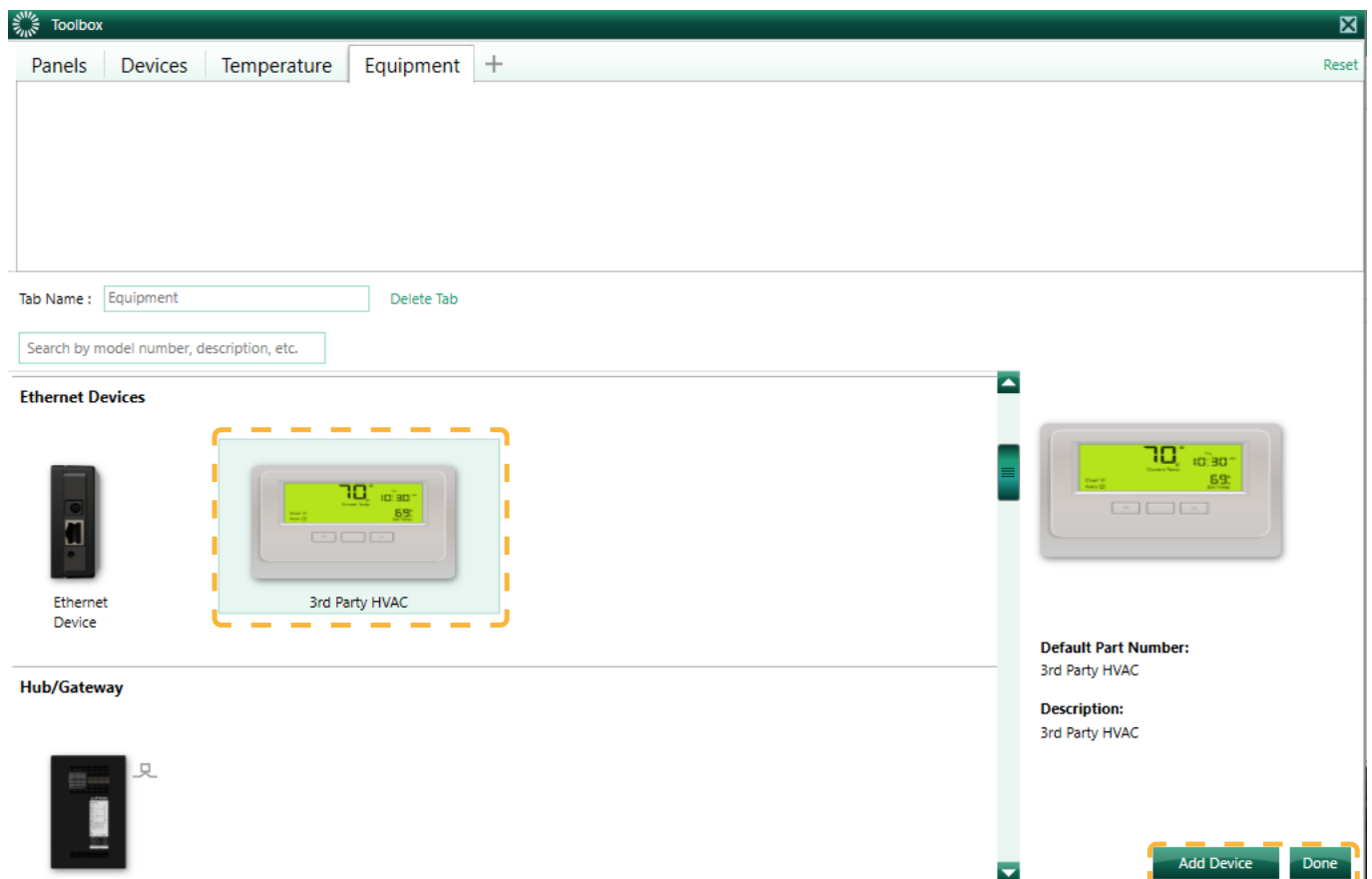
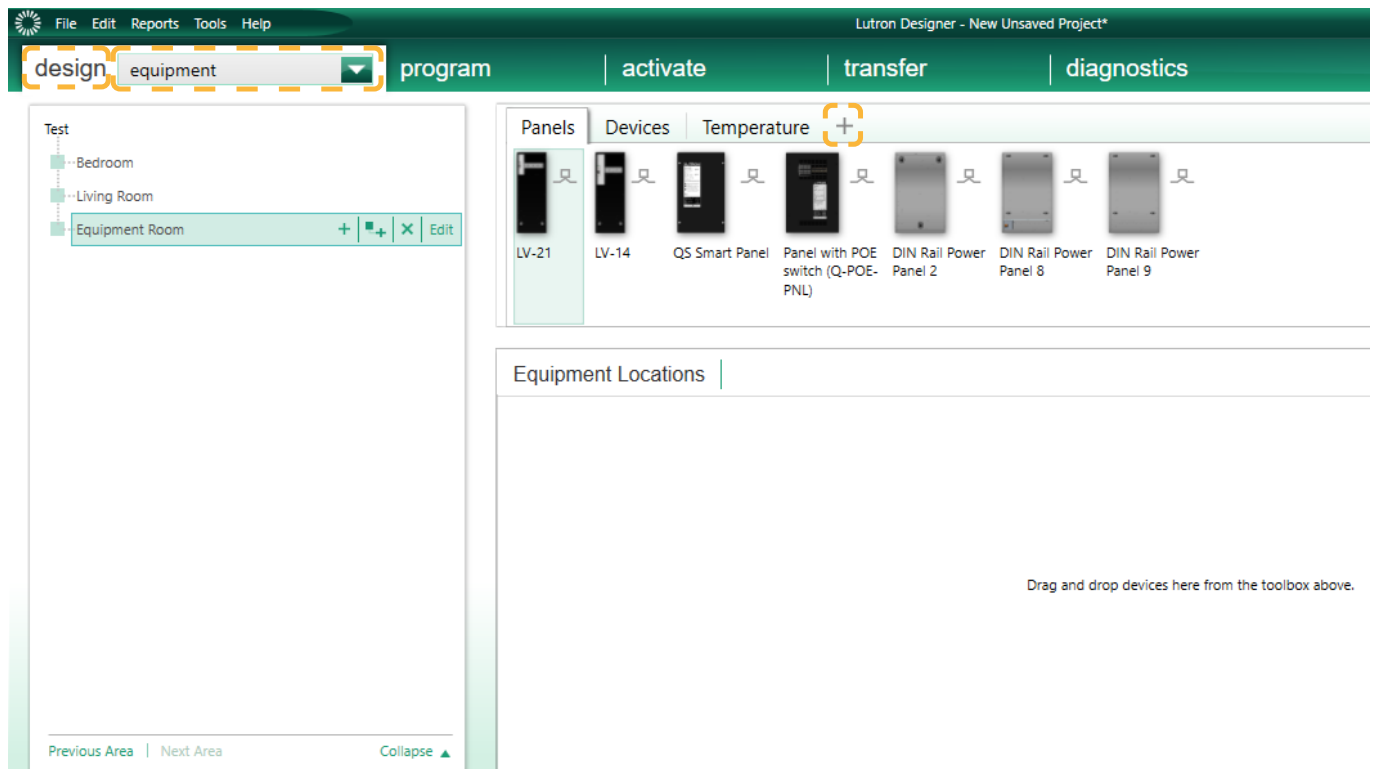
Important: For zoned ducted units, Fan Speeds must be set to Auto. The Auto operation mode is only available for North America.

The screenshot shows the Lutron Designer software interface. The top menu bar includes File, Edit, Reports, Tools, and Help. The main window has a green header with tabs: design, loads, program, activate, transfer, and diagnostics. The 'design' tab is active, and the 'loads' menu is open, showing 'HVAC Zones'. On the left, a tree view shows 'Test' with sub-items 'Bedroom', 'Living Room', and 'Equipment Room'. The 'Living Room' item is selected. The main area displays a table with the following data:

Zone #	Zone Name	UID	Operating Modes	Fan Speeds	Fan
1	Living hvac	001	Off,Heat,Cool,Auto	Auto	-

At the bottom, there is a 'Previous Area' button, a 'Next Area' button, and a 'Collapse' button. A green '+ Add load' button is highlighted at the bottom right.

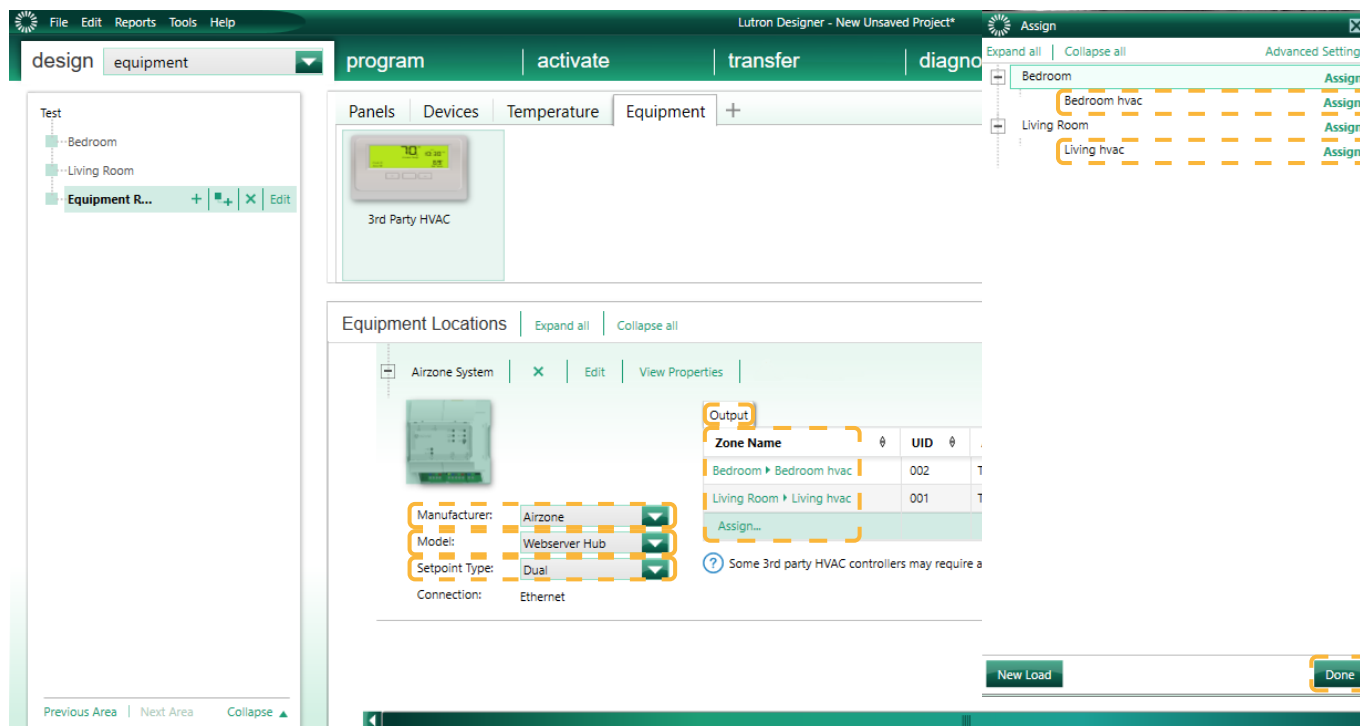
2. Define the Webserver HUB on the *design – equipment* screen. To do so, first create a new group in the *Toolbox* and add a “3rd Party HVAC” device.



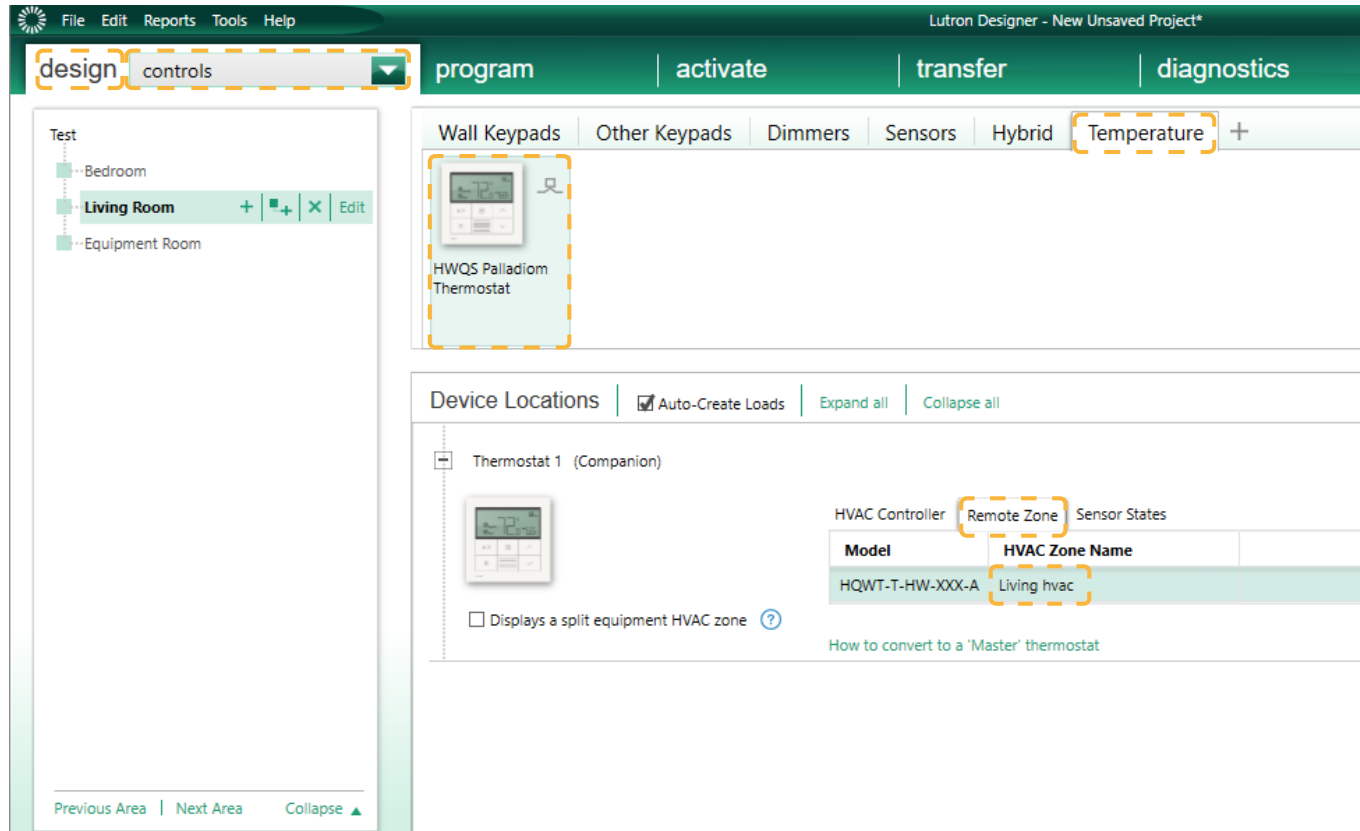
Once the device has been added, select “Airzone” in the *Manufacturer* drop-down menu, under *Model* select “Webserver HUB” and under *Setpoint type* select “Dual” for VAF/ZBS/ZS6 systems or “Single” for Flexa/Acuazone/Radiant systems.

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

In the “Output” table, click on “Assign” and add all the HVAC zones created previously.



- If Lutron Palladiom thermostats are used as zone thermostats, add the thermostat on the *design – controls* screen from the “Temperature” tab. The HVAC zone that will control this thermostat must be assigned in the *Remote Zone* parameter.



- Return to the *design – equipment* screen and check that the data have been updated correctly.

The screenshot shows the Lutron Designer software interface. The top menu bar includes 'File', 'Edit', 'Reports', 'Tools', and 'Help'. Below the menu bar are tabs for 'design', 'equipment', 'program', 'activate', 'transfer', and 'diagnostics'. The 'equipment' tab is active. On the left, a 'Test' panel shows a tree view with 'Bedroom', 'Living Room', and 'Equipment R...'. The main area displays 'Panels', 'Devices', 'Temperature', and 'Equipment'. A '3rd Party HVAC' device is shown. Below this, 'Equipment Locations' are listed, including 'Airzone System'. A table shows 'Output' data for 'Zone Name', 'UID', 'Areas', 'Operating Modes', 'Fan Speeds', and 'Assigned Devices'. The 'Assigned Devices' column shows 'Living Room > Thermostat 1 (Companion)'.

- Click on *Tools* in the menu of the top toolbar and select *Configure Integration*.

The screenshot shows the Lutron Designer software interface with the 'Tools' menu open. The menu options are: 'Project Settings', 'Generate Final Record Set', 'Sync Homeowner Edits', 'Sensor Data Logging', 'Configure Integration', 'Where Programmed', 'Verify Low End', 'Set Shade Limits', 'Set Shade Speed Alignment (IHA)', and 'Upgrade Processor Firmware'. The 'Configure Integration' option is highlighted with a dashed orange box.

- Select the *Integration* tab and, in the *Assign integration IDs* drop-down menu, click on "Devices". The *Integration IDs* of the Palladiom thermostats must now be assigned manually with the 2XXYY format as described on page 9.

Configure Integration

Integration | Ethernet Device Commands | Telnet Logins

Assign integration IDs to: **Devices** Integration Protocol

Expand all | Collapse all

Living Room ☒

Living room ☒ ID: 20101

Next, select "HVAC" in the *Assign integration IDs* drop-down menu. The *Integration IDs* of the HVAC zones must now be assigned manually with the 1XXYY format as described on page 9.

Note: The Integration IDs must be unique for each zone.

Configure Integration

Integration | Ethernet Device Commands | Telnet Logins

Assign integration IDs to: **HVAC** Integration Protocol

Expand all | Collapse all

Bedroom ☒

Bedroom hvac ☒ ID: 10102

- Click on the "Telnet Logins" tab on the *Configure Integration* screen. Enter the Username and Passphrase that will be used by the Webserver HUB to make the Telnet connection to the HomeWorks QS Processor.

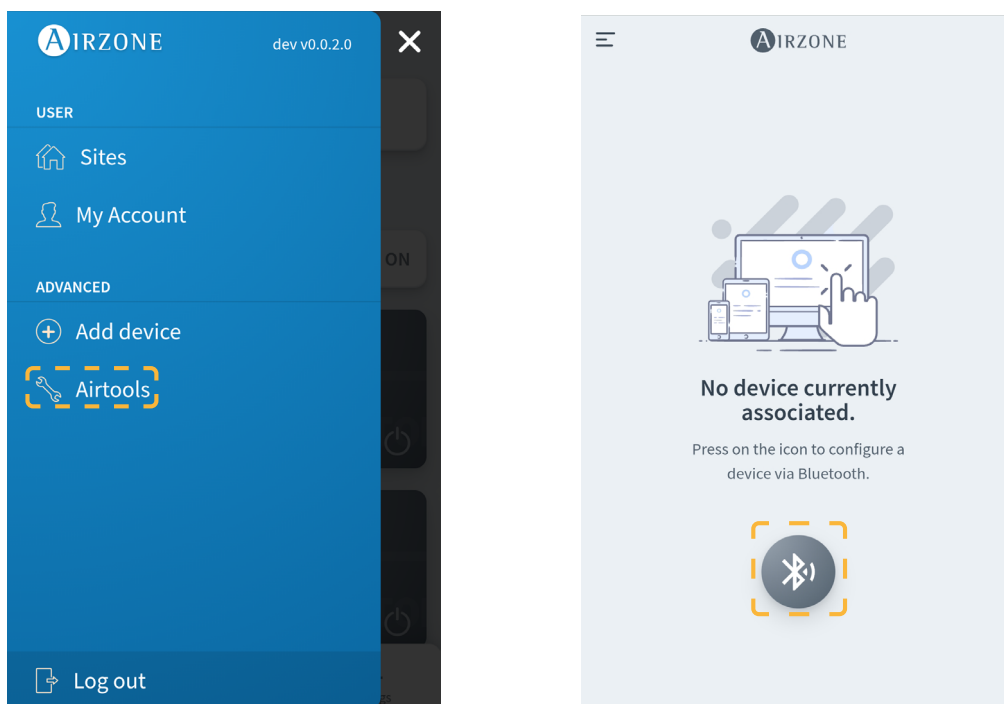
Configure Integration

Integration | Ethernet Device Commands | **Telnet Logins**

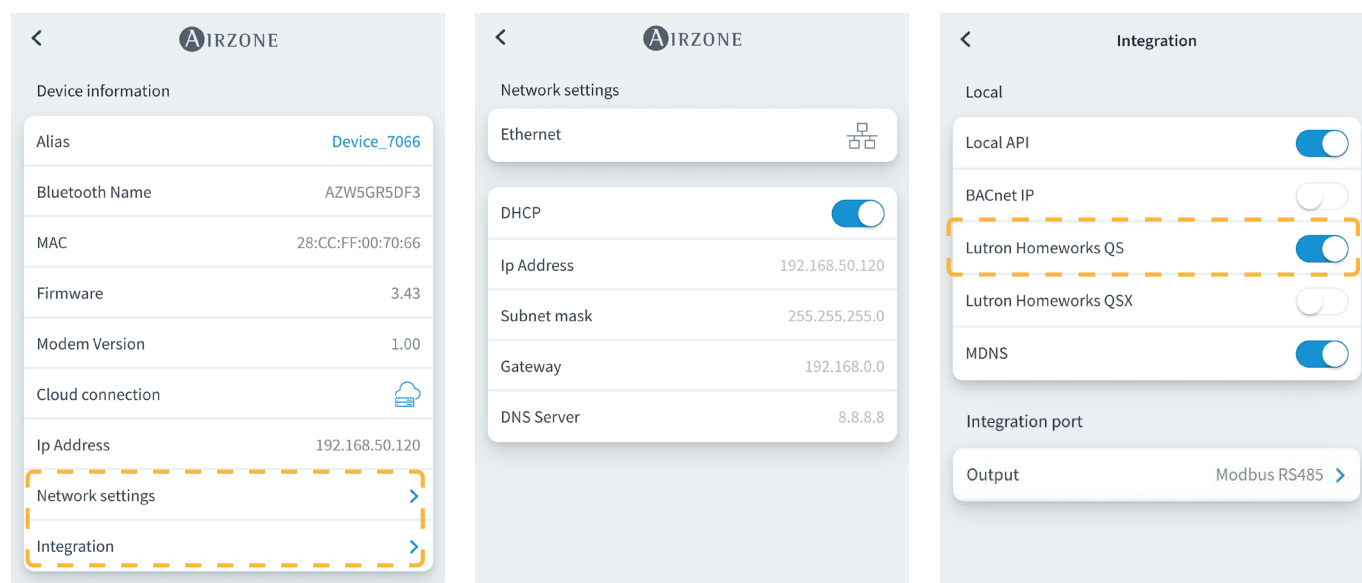
Username	Access Level ⓘ	Button Editing	Timeclock Editing	Passphrase	Enabled?
Default Home Control+ Us	User	Add / Edit	Add / Edit	Preconfigured	Yes
airzone	Admin	Add / Edit	Add / Edit	Change Passphrase	Yes

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.



LINKING THE AIRZONE SYSTEM TO HOMEWORKS QS

Using a web browser, open the IP address set on the Airzone Blueface thermostat (see the *Configuration of Airzone systems* section), enter the Username “airzone” and the Passphrase “lutron” in the access request pop-up window. Once inside, enter the Username and Passphrase to match those created in the HWQS software in step 6, as described on page 12. In the “Lutron IP Gateway” field, enter the IP address of the Lutron HomeWorks QS Processor and click on “Set IP”.

Configuration of Airzone systems with HomeWorks QSX

INTEGRATION IDENTIFIERS

Depending on the presence or absence of the Airzone thermostat in the zones, two different configurations are possible.

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

Identification of the HVAC zone

The Airzone system uses *UID* to control the set point temperature, operation mode and ventilation mode. The necessary format for this identifier (*UID*) is: *1XXYY*, 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: A *UID* for Airzone system 1 and zone 2 will be 10102.

Identification of the Lutron thermostat

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

1. Define the HVAC zones in the Lutron Designer software from the *design - loads* menu in the "HVAC zones" tab (by clicking on "Add load") and configure their parameters.

Note: The ID 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 or not, as described in the "Integration identifiers" section.

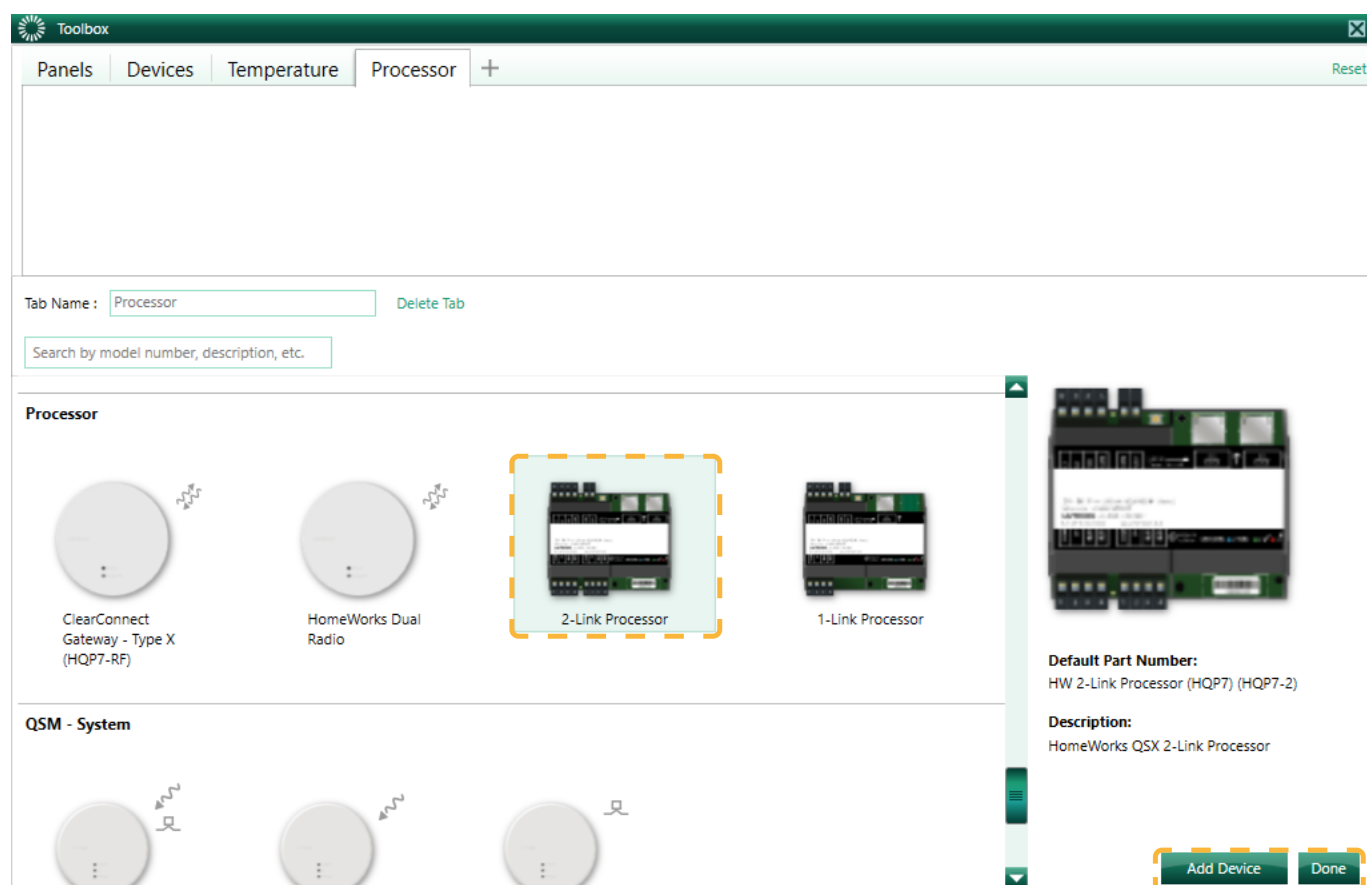
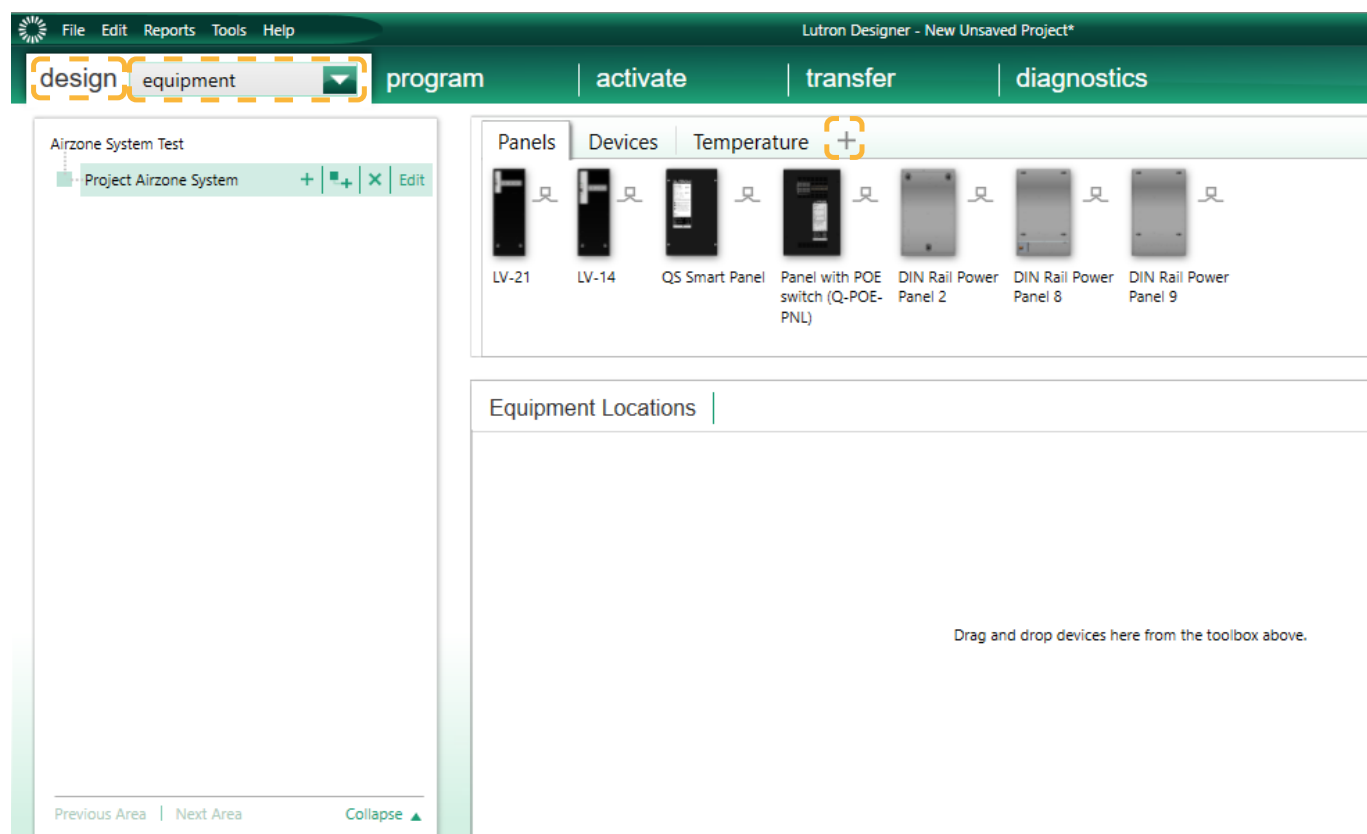
Important: For zoned ducted units, Fan Speeds must be set to Auto. The Auto operation mode is only available for North America.

The screenshot shows the Lutron Designer software interface. The top menu bar includes 'File', 'Edit', 'Reports', 'Tools', and 'Help'. The main workspace is divided into several tabs: 'design', 'loads', 'program', 'activate', 'transfer', and 'diagnostics'. The 'design' tab is currently selected, and within it, the 'loads' sub-tab is active. On the left side, there is a tree view showing the project structure, including 'Airzone System Test' and 'Project Airzone System'. The main area displays a table titled 'HVAC Zones' with the following data:

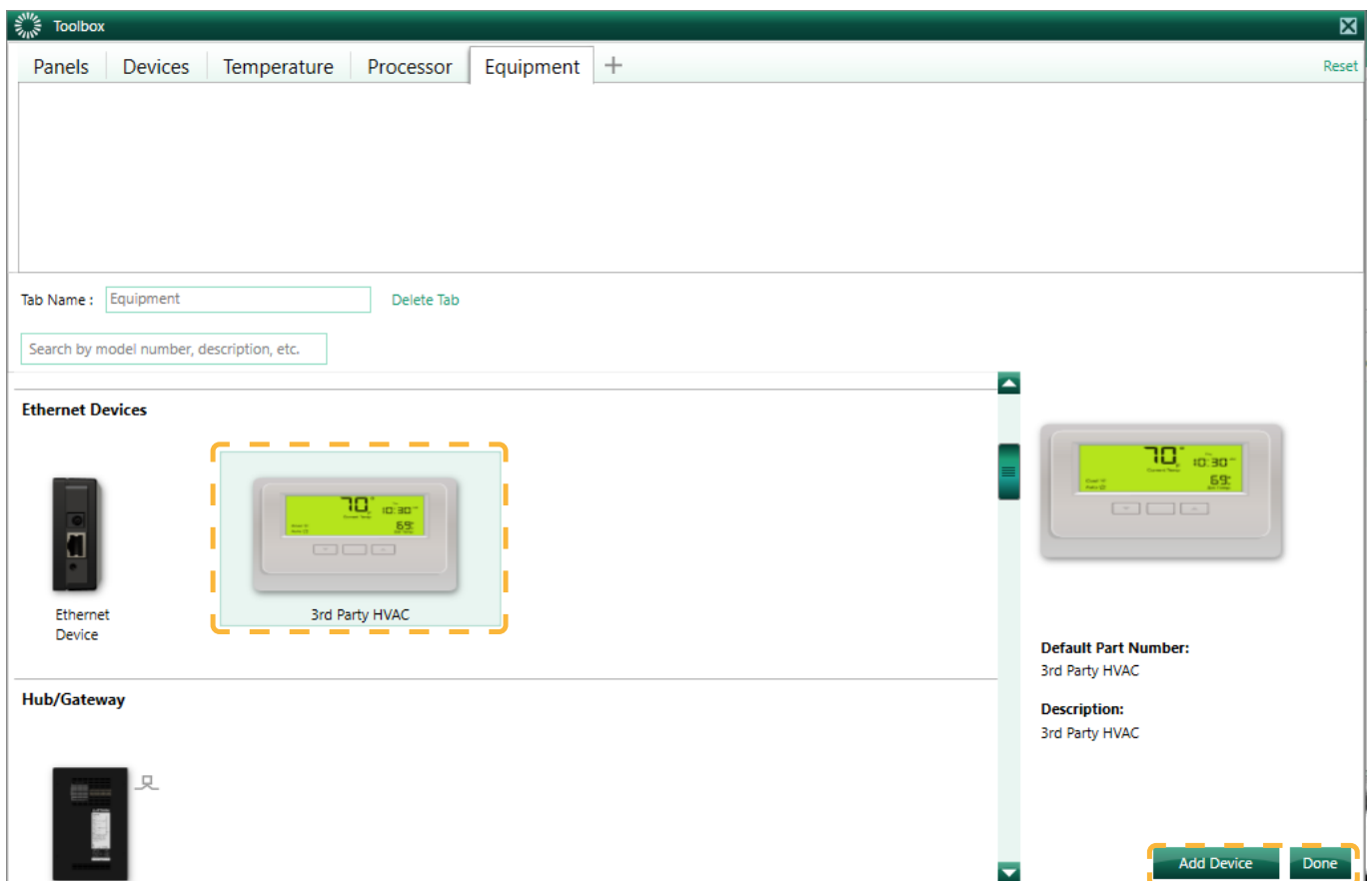
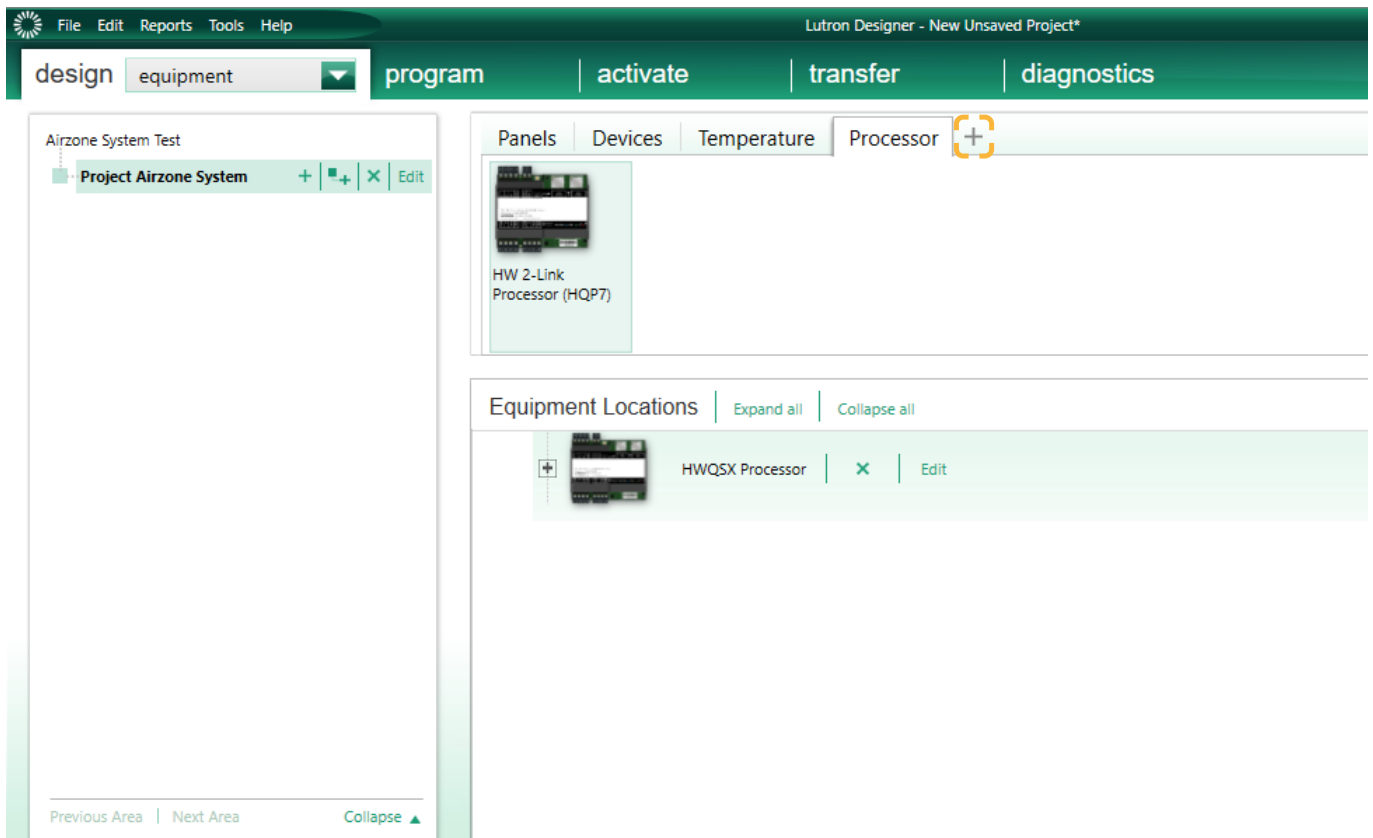
Zone #	Zone Name	UID	Operating Modes	Fan Speeds	Fan
1	Room 1	10101	Off,Heat,Cool,Auto	Auto	-
2	Room 2	10102	Off,Heat,Cool,Auto	Auto	-
3	Room 3	20103	Off,Heat,Cool,Auto	Auto	-

At the bottom right of the interface, there is a button labeled 'Add load' with a plus icon.

2. Define the Webserver HUB on the *design – equipment* screen. To do so, first create a new group in the *Toolbox* and add the processor.



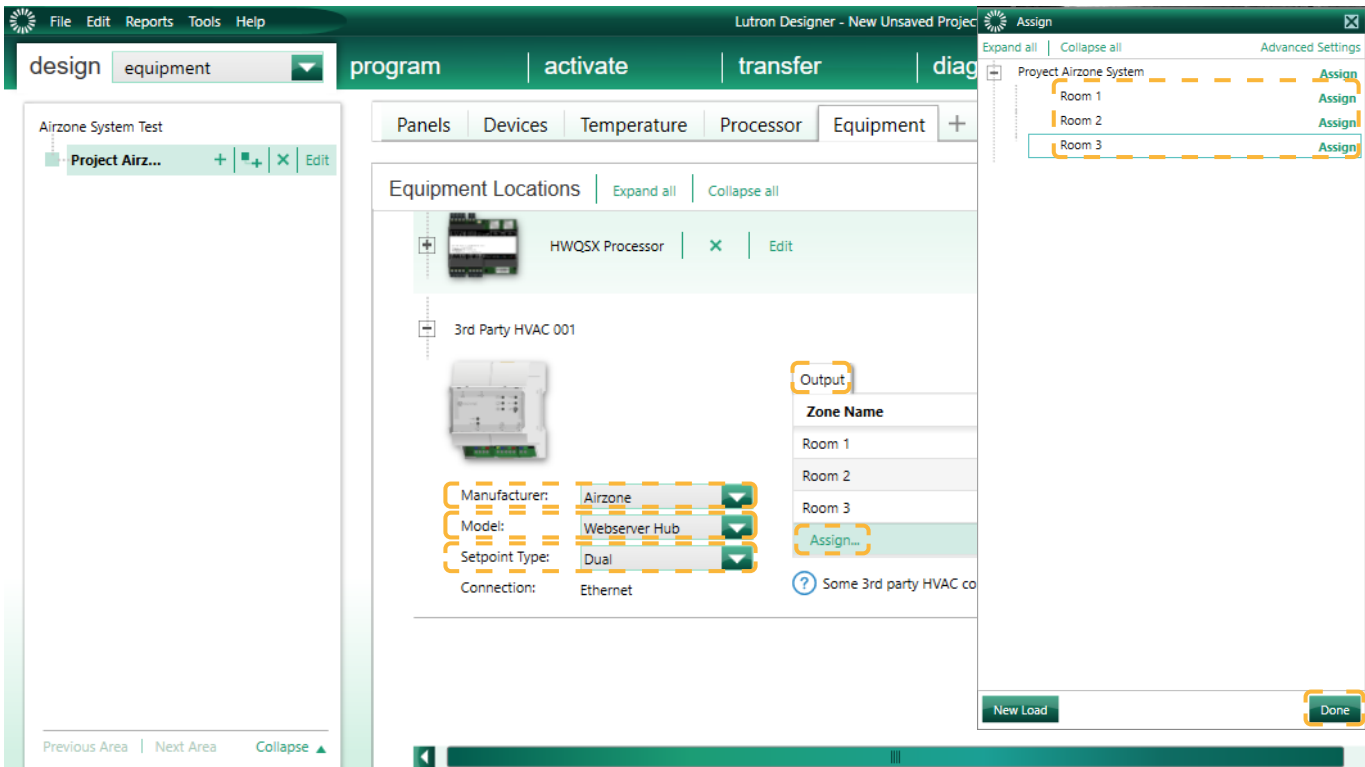
Then, create another group in the *Toolbox* and add a “3rd Party HVAC” device.



Once the device has been added, select "Airzone" in the *Manufacturer* drop-down menu, under *Model* select "Webserver HUB" and under *Setpoint type* select "Dual" for VAF/ZBS/ZS6 systems or "Single" for Flexa/Acuazone/RadianT systems.

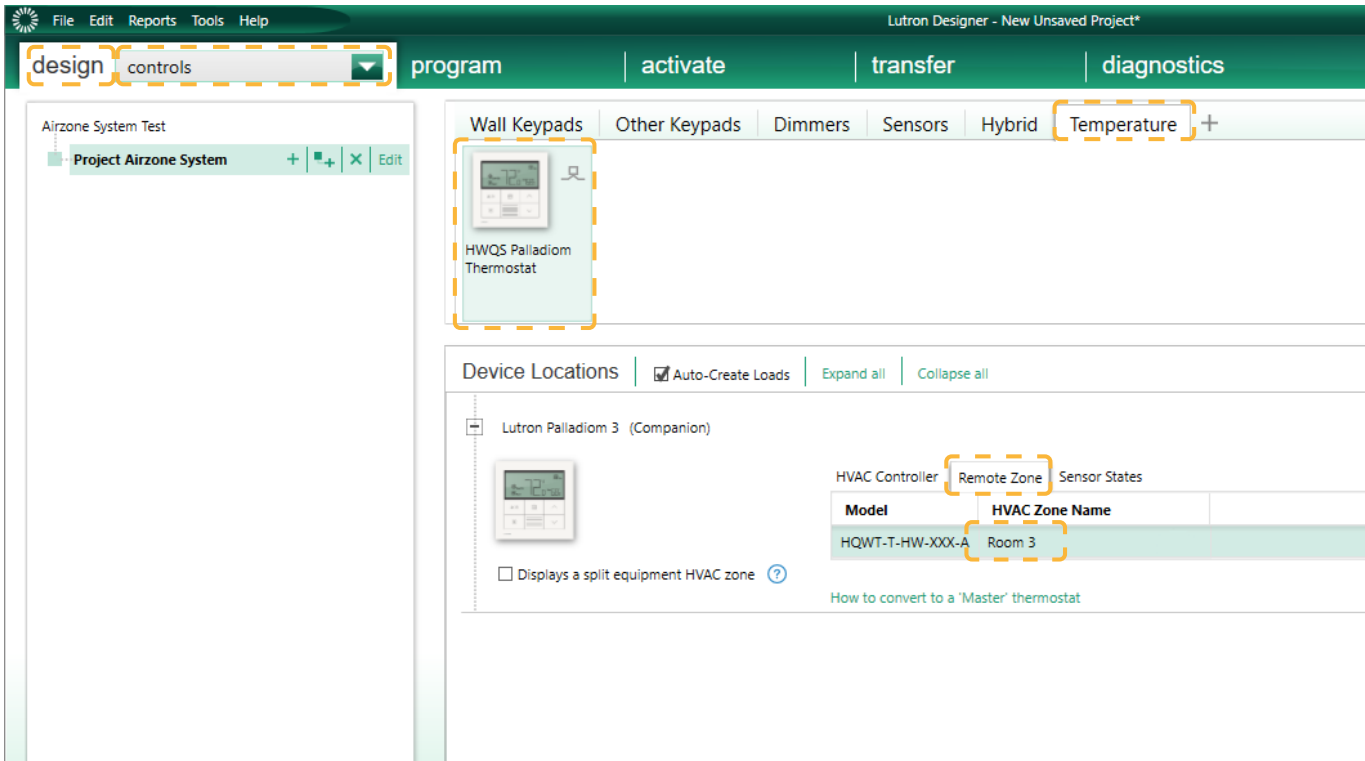
Flexa/Acuazone/RadianT systems only use °C, while VAF/ZBS/ZS6 systems use both °C and °F, so the system must be configured with the same units used in the Lutron project.

In the "Output" table, click on "Assign" and add all the HVAC zones created previously.



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

- If Lutron Palladiom thermostats are used as zone thermostats, add the thermostat on the *design – controls* screen from the "Temperature" tab. The HVAC zone that will control this thermostat must be assigned in the *Remote Zone* parameter.



4. Return to the *design – equipment* screen and check that the data have been updated correctly.

FileEditReportsToolsHelp

Lutron Designer - New Unsaved Project*

designequipment

programactivate

transfer

diagnostics

Airzone System Test

Project Airz...+XEdit

Panels

Devices

Temperature

Processor

Equipment+

3rd Party HVAC

Equipment Locations

Expand all

Collapse all

HWQ5X ProcessorXEdit

3rd Party HVAC 001

3rd Party HVAC 001

Manufacturer:Airzone

Model:Webserver Hub

Setpoint Type:Dual

Connection:Ethernet

Output

Zone Name	UID	Areas	Operating Modes	Fan Speeds	Assigned Devices
Room 1	10101	Airzone System Test	Off,Heat,Cool,Auto	Auto	Not assigned to a Palladiom thermostat.
Room 2	10102	Airzone System Test	Off,Heat,Cool,Auto	Auto	Not assigned to a Palladiom thermostat.
Room 3	20103	Airzone System Test	Off,Heat,Cool,Auto	Auto	Lutron Palladiom 3(Companion)
Assign...					

Some 3rd party HVAC controllers may require an interface to connect to the processor over Ethernet link.

Previous Area

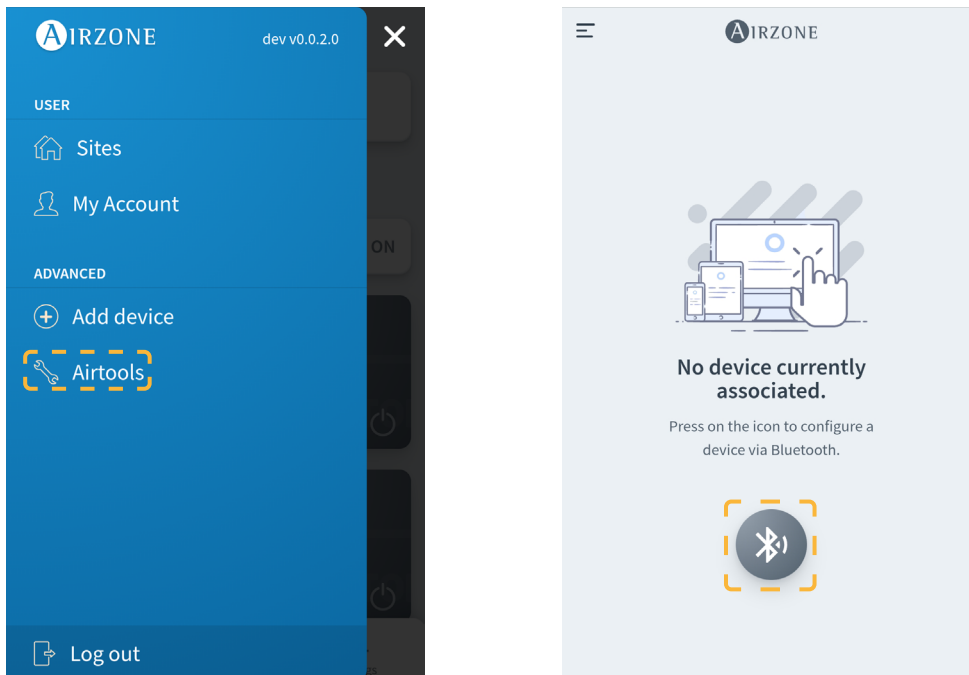
Next Area

Collapse

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 or not, as described on page 15.

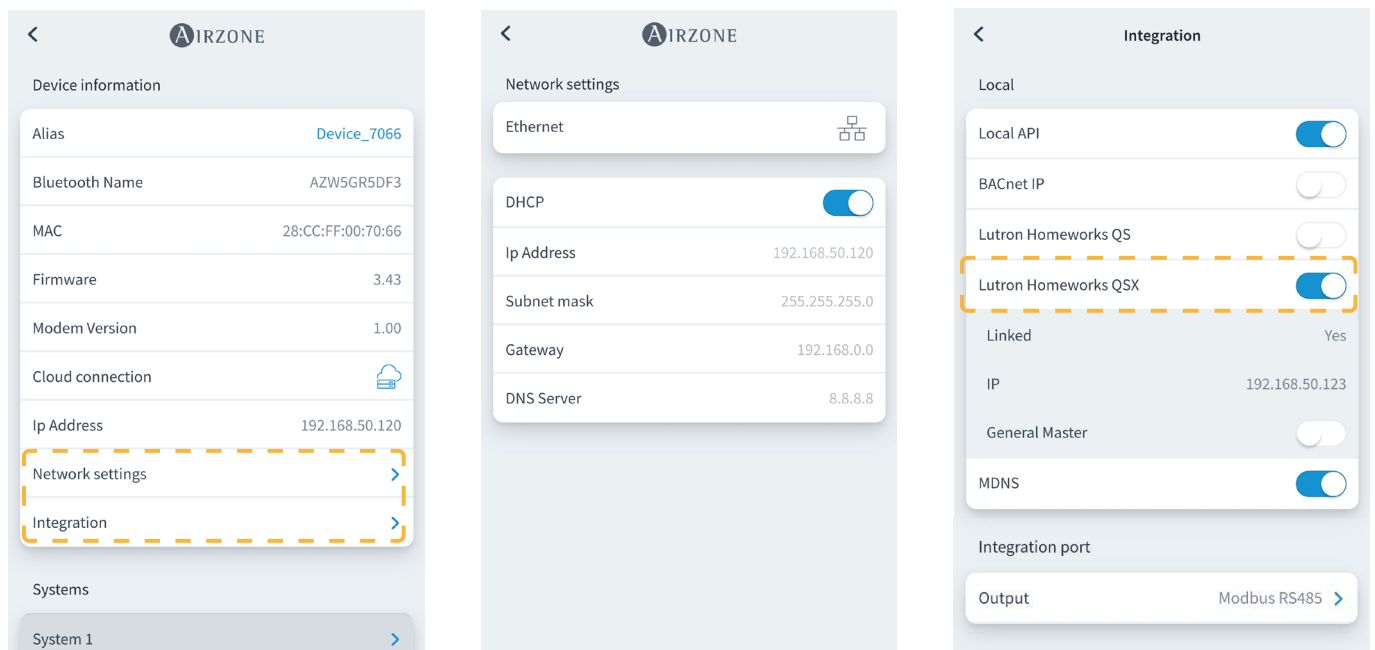
CONFIGURATION WITH AIRZONE CLOUD

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 HomeWorks QSX 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 HomeWorks QSX 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.
- **IP.** This defines, on an informative basis, the association between the Lutron HomeWorks QSX Processor and the Webserver HUB. It is possible to control several Lutron processors with a single Webserver, provided they are on the same network. If it is necessary to divide the application with several processors and webserver, different IP ranges must be used to share the same physical interface with different configurations.
- **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.

Configuration of Aidoo Pro with the Lutron Palladiom thermostat

CONFIGURATION WITH LUTRON DESIGNER

1. Define the Aidoo Pro on the *design – equipment* screen. To do so, first create a new group in the *Toolbox* and add a “3rd Party HVAC” device.

The screenshot displays the Lutron Designer software interface, titled "Lutron Designer - New Unsaved Project*". The main menu bar includes "File", "Edit", "Reports", "Tools", and "Help". Below this, a secondary menu bar shows "design", "equipment", "program", "activate", "transfer", and "diagnostics". The "equipment" tab is currently selected and highlighted with an orange dashed border.

The main workspace is divided into several sections. On the left, a "Test" section shows a "Bedroom" entry with a green plus icon, a green square icon, a green minus icon, and an "Edit" button. The central area is titled "Panels" and "Devices" and contains a row of device icons: LV-21, LV-14, QS Smart Panel, Panel with POE switch (Q-POE-PNL), DIN Rail Power Panel 2 (highlighted with a green plus icon), DIN Rail Power Panel 8, and DIN Rail Power Panel 9. Below this row is an "Equipment Locations" section.

The bottom section is the "Toolbox", which has tabs for "Panels", "Devices", "Temperature", and "Equipment" (the active tab). The "Equipment" tab shows a search bar with the text "Equipment" and a "Delete Tab" button. Below the search bar is a search input field labeled "Search by model number, description, etc.". The toolbox is divided into two main categories: "Ethernet Devices" and "Hub/Gateway". Under "Ethernet Devices", there is an "Ethernet Device" icon and a "3rd Party HVAC" device icon (highlighted with an orange dashed border). Under "Hub/Gateway", there is a "Hub/Gateway" icon.

On the right side of the toolbox, a detailed view of the "3rd Party HVAC" device is shown. It features a digital display with a green background and a yellow temperature reading of 70°. Below the display are three buttons. To the right of the device image, the following information is displayed:

- Default Part Number:** 3rd Party HVAC
- Description:** 3rd Party HVAC

At the bottom right of the toolbox, there are two buttons: "Add Device" (highlighted with an orange dashed border) and "Done" (highlighted with an orange dashed border).

Once the device has been added, select "Airzone" in the *Manufacturer* drop-down menu and select "Aidoo Pro" under *Model*.

An HVAC zone will be automatically generated in the "Output" table without assigned parameters.

The screenshot shows the Lutron Designer interface with the 'equipment' tab selected. The 'Panels' tab is active, displaying a '3rd Party HVAC' device. The 'Equipment Locations' section shows a table with one row: '3rd Party HVAC 001'. The 'Output' table is visible, showing a row for 'Bedroom HVAC Zone' with 'Test' in the 'Areas' column. The 'Manufacturer' is set to 'Airzone' and the 'Model' is 'Aidoo Pro'.

2. Define the HVAC zone in the *design - loads* menu from the "HVAC zones" tab and configure their parameters.

Note: The Aidoo Pro controls a single zone associated with an individual HVAC unit, so it is not necessary to assign an identifier to this zone (UID).

Important: For zoned ducted units, Fan Speeds must be set to Auto. The Auto operation mode is only available for North America.

The screenshot shows the Lutron Designer interface with the 'loads' tab selected. The 'design' tab is active, displaying the 'loads' menu. The 'HVAC Zones' tab is selected, showing a table with one row: '1 Bedroom HVAC Zone'. The 'Operating Modes' are set to 'Off,Heat,Cool' and the 'Fan Speeds' are set to 'Auto'.

- If a Lutron Palladiom thermostat is used as the zone thermostat, add the thermostat on the *design – controls* screen from the “Temperature” tab. The HVAC zone that will control this thermostat must be assigned in the *Remote Zone* parameter.

The screenshot shows the Lutron Designer software interface. The top menu bar includes File, Edit, Reports, Tools, and Help. The main navigation bar has tabs for design, controls, program, activate, transfer, and diagnostics. The 'controls' tab is active, and the 'Temperature' sub-tab is selected. On the left, a 'Test' panel shows a 'Bedroom' zone. The main area displays a 'HWQS Palladiom Thermostat' under the 'Wall Keypads' section. Below this, the 'Device Locations' section shows a table with the following data:

Model	HVAC Zone Name
HQWT-T-HW-XXX-A	Bedroom HVAC Zone

Additional options include 'Auto-Create Loads', 'Expand all', 'Collapse all', and a checkbox for 'Displays a split equipment HVAC zone'.

- Return to the *design – equipment* screen and check that the data have been updated correctly.

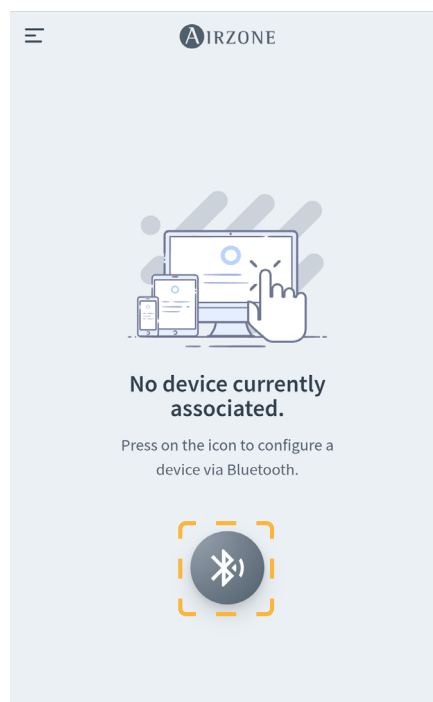
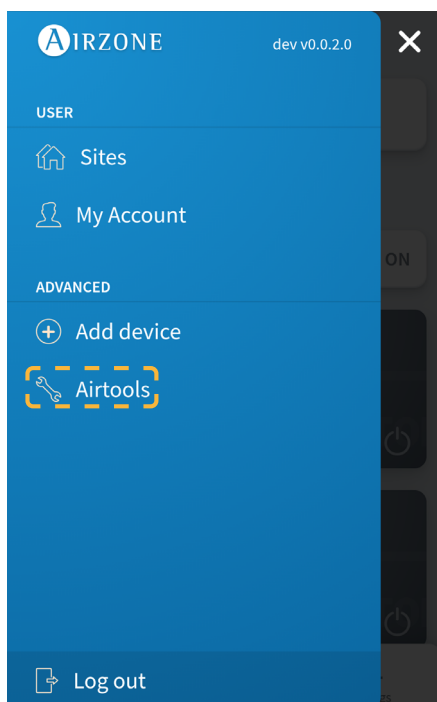
The screenshot shows the Lutron Designer software interface. The top menu bar includes File, Edit, Reports, Tools, and Help. The main navigation bar has tabs for design, equipment, program, activate, transfer, and diagnostics. The 'equipment' tab is active, and the 'Equipment' sub-tab is selected. On the left, a 'Test' panel shows a 'Bedroom' zone. The main area displays a '3rd Party HVAC' unit under the 'Panels' section. Below this, the 'Equipment Locations' section shows a table with the following data:

Zone Name	Areas	Operating Modes	Fan Speeds	Assigned Devices
Bedroom HVAC Zone	Test	Off,Heat,Cool	Auto	Bedroom • Lutron Palladiom(Companion)

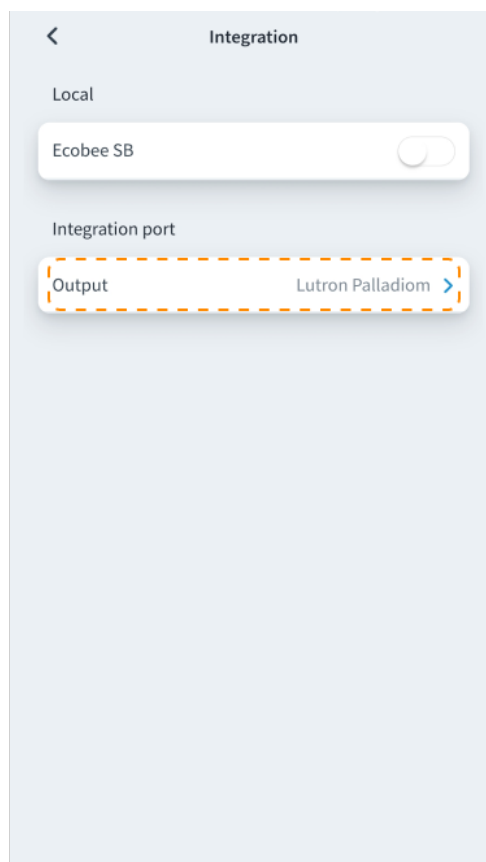
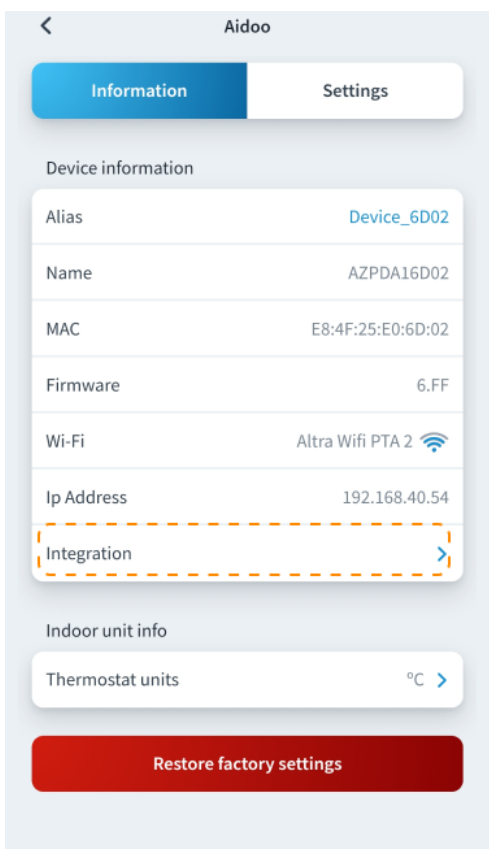
Additional options include 'Expand all', 'Collapse all', and a 'View Properties' button. The 'Output' section shows the unit's configuration: Manufacturer: Airzone, Model: Aldoo Pro, Setpoint Type: Single, Connection: HVAC Controller.

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.



Selecting the Aidoo Pro device, click on the *Integration* submenu. Then select “Lutron Palladiom” as the output of the integration port.



Troubleshooting

THE AIRZONE SYSTEM DOES NOT DETECT THE WEBSERVER HUB

Check the following points:

1. The D9 LED  (microcontroller activity) is blinking.
2. The D7  and D8  LEDs are blinking alternately.
3. The connection between the Webserver HUB and the Airzone system main control board is correct.

THE WEBSERVER HUB DOES NOT CONNECT

Check the following points:

1. The LED , and the LEDs on the Ethernet cable connector are active or verify Wi-Fi connectivity.
2. The Ethernet cable is connected correctly.



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