



AHU Series Quick Reference Installation Guide

Wiring (Manual section 2.6 Electrical Connections)

See reverse for a full page wiring diagram. See manual for detailed wiring instructions.

Default Settings

(Manual section 3.2 Default Fan Speed Settings)

All AHU units comes set with the following default factory settings. The free IBCconnect app allows for configuring custom settings.

Default Settings - Basic	
Heating Mode	1 stage
Cooling Mode	2 stage
Boiler Heating	1 stage and 2 stage
Temperature	°F
Pump Enable	On
Tankless Mode	On

AHU Fan Speed Operation		
W1	Heating stage 1 = 600 CFM	Range 300-800
W2	Heating stage 2 = 800 CFM	Range 300-1000 (must be ≥ than heating stage 1)
Y1	Cooling stage 1 = 700 CFM	Range 300-800
Y2	Cooling stage = 1000 CFM	Range 300-1000 (must be ≥ than cooling stage 1)
G	Fan on speed = 400 CFM	Range 150-1000

Configuration with IBCconnect app

(Manual section 3.3 Operating the Unit with a Mobile App)



- Scan the respective QR codes above, or search for "IBCconnect" (one word) on the Google Play or Apple App store and tap **Install**.
- Connect your device to the AHU. Depending on your device, follow either the Android or Apple instructions below.

Android

- Open the IBCconnect app. If the WiFi connection is not displayed as **IBC-AHU**, tap the **WIFI SETTINGS** button.
- Select **IBC-AHU-xxxxx** (where "xxxxx" is the controller serial number)
- Enter **1234567890** when prompted for a password the first time you connect.
- With the AHU cover off, the LEDs on the circuit board will start blinking simultaneously in an ON-OFF-ON-OFF pattern when connected.
- Tap the device's back button to return to the app, then tap **GET STARTED** to access the **Home** page, where you can start adjusting settings.

Configuration with IBCconnect app (cont.)

Apple

You need to first change some app settings after installation. This may vary depending on device and iOS version.

- In the main iPhone **Settings**, select **Cellular**.
- Scroll down to **IBCconnect** under **Cellular Data**, and set to **Off**.
- Navigate to the device's **Wi-Fi Settings**
- Locate and select "**IBC-AHU-xxxxx**" on the list of available networks, where "xxxxx" is the controller's serial number.
- Enter **1234567890** when prompted for a password the first time you connect.
- With the AHU cover off, the LEDs on the circuit board will start blinking simultaneously in an ON-OFF-ON-OFF pattern when connected.
- Exit the **Settings** screen and open the IBCconnect app.
- The landing page should display "IBC-AHU-xxxxx"
- Tap **GET STARTED** to access the **Home** page, where you can start adjusting settings.

Programming the air handling unit with the app

The IBC factory pre-programs the name of the model (AHU 800, AHU 1200 or AHU 1600) in the appliance. However, you will need to use the app to set the heating and cooling mode and to change default settings.

To set the mode using the IBCconnect app:

- Tap **(menu)**, and select **Basic Settings**.
- Set the **Heat Mode** and **Cool Mode** as desired.
- To make adjustments to settings, tap **(menu)**, and then select **Advanced Settings**. It is recommended that "Tankless" is set to On in most applications for optimal performance.
- Configure settings as desired (or accept defaults), and then tap **(SAVE)**.
- To check the model and mode, go to **(menu)** and select **About**.

Checklist

Electrical connections	
Ensure the power supply is 120V 15A circuit	<input type="checkbox"/>
Check all electrical and thermostat connections to ensure they are correct and tight	<input type="checkbox"/>
Thermostat is in a suitable location.	<input type="checkbox"/>

Water connections	
All connections are pressure-tested and leak-free.	<input type="checkbox"/>
All piping flushed to ensure all air is removed	<input type="checkbox"/>
Check valve installed, external pump is flowing in the correct direction	<input type="checkbox"/>
Boiler/water heater properly installed and safe to operate	<input type="checkbox"/>

Ducting connections	
All connections pressure-tested and leak-free.	<input type="checkbox"/>
Ducts sized correctly and joints sealed.	<input type="checkbox"/>
Air supply air dampers and registers are opened.	<input type="checkbox"/>
Inspect filter, return air ducting, and registers.	<input type="checkbox"/>
Water temperature is sufficient for the space's heating requirements.	<input type="checkbox"/>

