

Wiring (Manual section 3.7 Electrical Connections)

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

Configuration with IBCconnect app (Manual section 5.3 Operating the Unit with a Mobile App)



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

Android

1. Open the IBCconnect app. If the WiFi connection is not displayed as **IBC-AHU2**, tap the **WIFI SETTINGS** button.
2. Select **IBC-AHU2-xxxxx** (where "xxxxx" is the controller serial number)
3. Enter **1234567890** when prompted for a password the first time you connect.
4. With the AHU cover off, the LEDs on the circuit board will start blinking simultaneously in an ON-OFF-ON-OFF pattern when connected.
5. 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.

Apple

1. In the main iPhone **Settings**, select **Cellular**.
2. Scroll down to **IBCconnect** under **Cellular Data**, and set to **Off**.
3. Navigate to the device's **Wi-Fi Settings**
4. Locate and select **IBC-AHU2-xxxxx** on the list of available networks, where "xxxxx" is the controller's serial number.
5. Enter **1234567890** when prompted for a password the first time you connect.
6. With the AHU cover off, the LEDs on the circuit board will start blinking simultaneously in an ON-OFF-ON-OFF pattern when connected.
7. Exit the **Settings** screen and open the IBCconnect app.
8. The landing page should display "IBC-AHU2-xxxxx"
9. Tap **GET STARTED** to access the **Home** page, where you can start adjusting settings.

Programming the air handling unit with the app

IBC pre-programs the model in the appliance. If you wish to change the heating mode, cooling mode or other default settings, you will need to use the IBCconnect app.

To set the mode using the IBCconnect app:

1. Tap **(menu)**, and select **Basic Settings**.
2. Set the **Heat Mode** and **Cool Mode** as desired.
3. 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.

Programming the air handling unit with the app (cont.)

4. Configure settings as desired (or accept defaults), and then tap **(SAVE)**.
5. To check the model and mode, go to **(menu)** and select **About**.

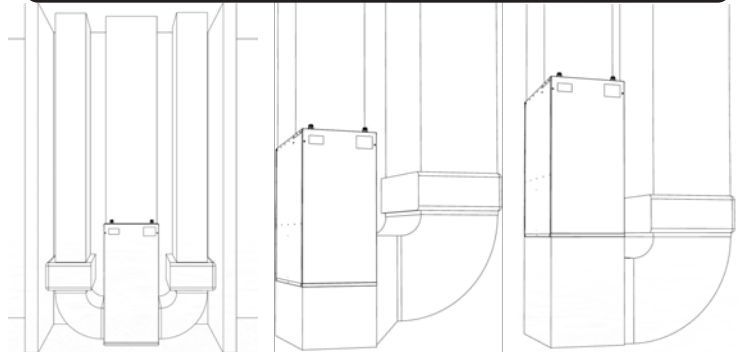
Default Settings (Manual section 5.4.1 Basic settings)

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

AHU 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 Defaults (CFM) (see Manual section 5.4.3, Fan speed operation)				
	AHU 800	AHU 1200 LV AHU 1200 AHU 1200 HC	AHU 1600	AHU 2000 LV AHU 2000 AHU 2000 HC
W1	500	600	1000	1200
W2	800	1000	1400	1800
Y1	700	800	800	1500
Y2	1000	1200	1600	2000
G	200	240	400	500

Ducting (See manual section 3.2.1 Return air openings for ducting)



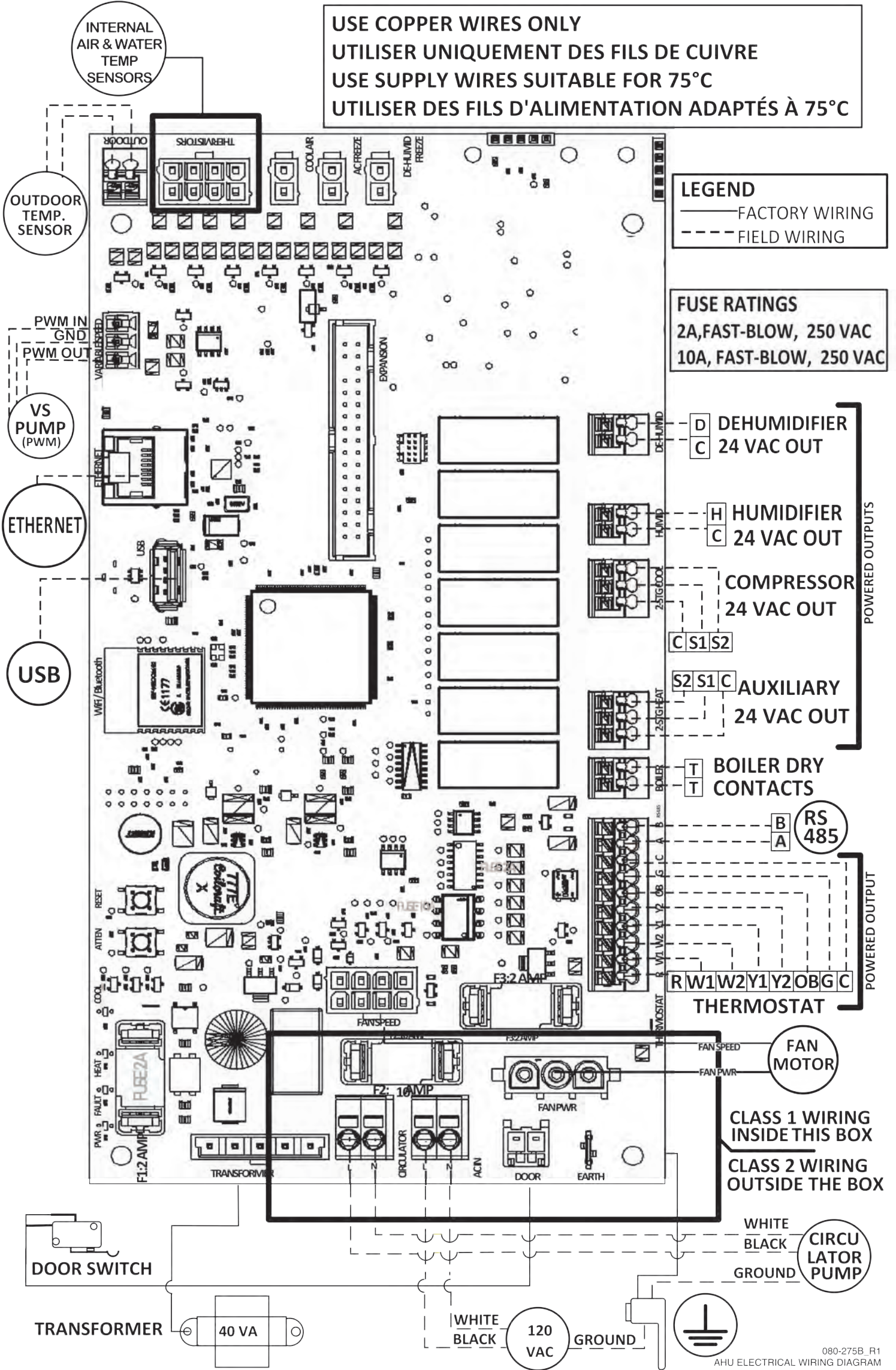
Checklist

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"/>

USE COPPER WIRES ONLY
UTILISER UNIQUEMENT DES FILS DE CUIVRE
USE SUPPLY WIRES SUITABLE FOR 75°C
UTILISER DES FILS D'ALIMENTATION ADAPTÉS À 75°C



LEGEND
 — FACTORY WIRING
 - - - FIELD WIRING

FUSE RATINGS
 2A, FAST-BLOW, 250 VAC
 10A, FAST-BLOW, 250 VAC

POWERED OUTPUTS

- D DEHUMIDIFIER 24 VAC OUT
- C HUMIDIFIER 24 VAC OUT
- COMPRESSOR 24 VAC OUT
- C S1 S2 AUXILIARY 24 VAC OUT
- S2 S1 C BOILER DRY CONTACTS

POWERED OUTPUT

- B RS 485
- A THERMOSTAT
- R W1 W2 Y1 Y2 O B G C

CLASS 1 WIRING INSIDE THIS BOX
CLASS 2 WIRING OUTSIDE THE BOX

WHITE
 BLACK
 GROUND

CIRCU LATOR PUMP

WHITE
 BLACK
 120 VAC
 GROUND