

CB Installation Guide

This document is applicable to BBCB-A-1-1 Make-Up Air Controllers.

This document will take you through the upgrade to include the Heated Coil Box in your MUA unit. The Heated Coil Box is designed to warm outside air before introducing it into the home when outdoor temperatures are low.

Installation of the Heated Coil Box

The Heated Coil Box must be installed between the Cabinet Fan and the Filter Box of the MUA unit, as shown below.



If you are adding the Coil Box to an already installed MUA unit, be advised that the unit will need to be disassembled and reassembled in order to properly fit the Coil Box into place.

If you are installing the unit in a very cold environment, we suggest you use a mixture of glycol and water to keep the Coil Box from freezing when not in use.

General Warning:

Setting up a hot water heating coil system may involve plumbing and controls that are beyond the average skill set. If in doubt of any installation procedures or if there are any safety or control concerns, contact Airscape at 866-448-4187 or consult a professional. In particular, it is critical to avoid contaminating domestic hot water systems.



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The MUA unit control board must be configured when the Coil Box is installed. A jumper needs to be installed and the supply valve control needs to be connected.

Remove the Control Box cover plate by loosening the four screws holding it in place and sliding it off. Install provided jumper on pins 2 & 3 of JP2 on the control board and connect the hot water supply valve (not supplied) to the P23 connector.

Cover Plate Screws





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MUA Unit Network Setup and Configuration

In order to activate and control the Coil Box, the MUA unit must be programmed and set up properly. This is done via a web browser on any computer, tablet or smartphone that is connected to the same Local Area Network (LAN) as the MUA unit.

Make sure the MUA unit is on and connected to the network router via Cat-5 cable.

Open a web browser on any device that is connected to the same network as the MUA unit. In the URL Address Bar of the browser, type in the IP Address of the MUA unit followed by /config and press enter. If the IP Address of the MUA unit is unknown, you must use a network scanner utility to locate the unit on the network and note its IP Address. The MUA unit should show up as either "Texas Instruments" or "Beagle Bone" in the list of devices on the network. Be advised that some wireless mobile devices might not be able to scan or locate devices on local networks due to rigorous security measures implemented by the device manufacturers.

On the main configuration page of the MUA unit, check the box next to "Water Heater Module" under the Water Heater section of the page (see Figure 1). You may also choose to select "Water Heater Freeze Prevention Mode", which helps keep the coils from freezing in very cold environments.

Go back to the main MUA unit page by clicking on the "Back to Main Page" button, or re-entering the IP Address of the MUA unit in the URL Address Bar, or simply deleting the /config portion of the address and pressing Enter.

The toggle switch to enable Hot Water Heat should now be active (See Figure 2) and clicking on it will turn this option on. Clicking again will turn it off. Note the blue "i" buttons throughout the MUA unit web interface pages. Hovering over or clicking on these icons provides additional information about the various functions of the MUA unit. Also note the information banner toward the top of the page regarding adding glycol to the heating loop.

Clicking on the Settings Tab of the main MUA unit's main page will bring up various settings that can be controlled by the user. (See Figure 3) Set the Water Heating Target by sliding the selector to the desired temperature, then press the "Confirm" button at the bottom of the page. Some experimentation will need to take place to find the optimum setting for your configuration and location.



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Factory Settings

Figure 1

basic.conf
1/3 hp
true
false
false
false
off
3.00
0.50
2.00
1.00
0.10
0.50

Click here after making changes and clicking the "Submit" button below, this will return you to the Main Page of the MUA unit's control software.

Current Config			Sensor Configuration:	
Sensor Configuration:		basic.conf	attic-filter.conf attic.conf	~
Motor Configuration:		1/3 hp	basic-filter.conf basic.conf	
Extended Mode:		true		~
Attic Module:		false	Motor Configuration:	
Whole House Fan Mode	ule:	false	1/3 hp	~
Water Heating Module:		false	1/2 hp 3/4 hp	
Water Heating Freeze F	Protection:	off		× .
Makeup Air Proportion	al Gain:	3.00	Serial Number:	
Makeup Air Integral Ga	in:	0.50	NP-0000000	
Makeup Air Derivative	Gain:	2.00	Makeup Proportional Gain:	
Water Heater Proportio	onal Gain:	1.00	3.00	
Water Heater Integral (Gain:	0.10	Makeup Integral Gain:	
Water Heater Derivativ	ve Gain:	0.50	0.50	
			Makeup Derivative Gain:	
			2.00	
			Water Heater Proportional Gain:	
System Status			100	
Board IP:	192.168.10.133		Water Heater Integral Gain:	
Board Type:	Make-up Air Unit		0.10	
Serial Number:	NP-00000000		Water Heater Derivative Gain:	
Date Compiled:	Wed Jul 11 02:09:06 PDT 2018		0.50	
MAC Address:	78:04:73:2c:0c:00		415	
Client IP:	192.168.10.122		AIS	
Uptime:	0 hours		Attic Module	
Versions:	sensordv1.4.5		Whole House Fan Module	
Che	controldv1.6 webctr/v1.5.1		Water Heater	
			Vater Heater Module	
	neck this box to acti	vate	Vater Heater Freeze Prevention Mode	Check this box to enab
He	ot Water Heat option	1 on	General Warning	Freeze Prevention Mod
main MUA page			Setting up a hot water heating coil system may in beyond the average skillset. If in doubt of any saf- at AirScape or consult a professional. In particula domestic hot water systems.	volve plumbing and controls that are ety or control concerns, please contact us r, it's critical to avoid contaminating
LICK the Sub	omit button after			
king boxes t	o apply the changes		Submit	Reset to Defaults

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Shutdown



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Notifications

Pre	ess "Confirm" button after	
cha	anging settings on this page.	
Reset to Defaults	Confirm	ncel