

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

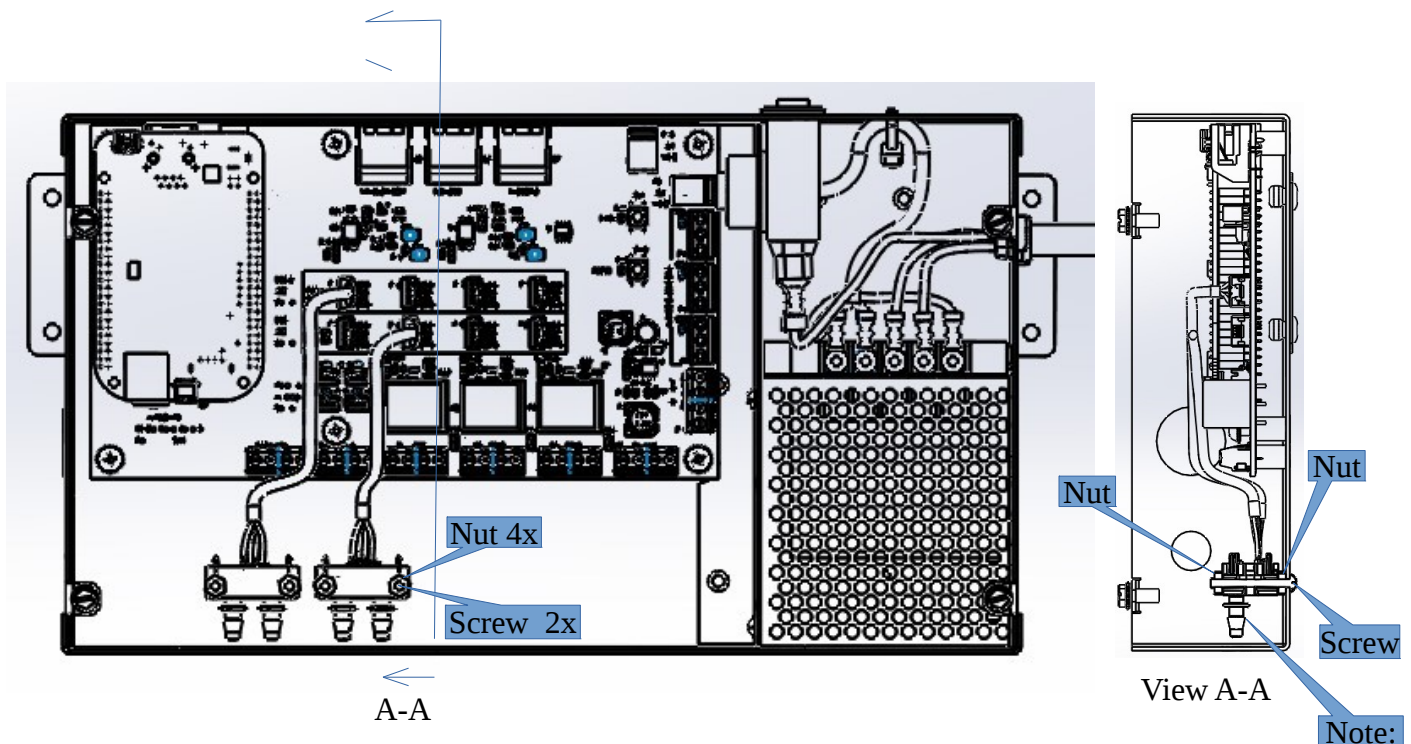
This document will take you through the upgrade to include the filter delta P sensor. A pressure sensor is used to determine the “dirtiness” (or pressure drop) of the Make-Up Air Unit Filters. This is helpful in determining when the filters need to be replaced. Because every installation is different and the Make-Up Air usage is different for every house hold, it is advisable to slowly determine at what filter pressure the filters need to be replaced.

Every V-Bank Filter Box comes with two pressure measuring ports installed and in most cases covered by a piece of aluminum tape.

Remove the tape from the back of the V-Bank Filter Box Assembly.

Disconnect the Make-Up Air power cord.

If the MUA Control box was mounted, remove the box mounting screws to be able to access the rear of the MUA Control Box.



Open the access cover plate, by loosening the four screws and sliding the panel sideways (use a flat blade (or hex) screwdriver).

Install the two screws from behind using two nuts (supplied) and tighten them (see above, View A-A). DO NOT over-tighten.

Install the Pressure Sensor here by sliding the sensor over the screws.

Note: orientation of the pressure sensor, install so tubing can be inserted through box wall to the sensor connections.

Secure the sensor using the two remaining nuts. DO NOT over-tighten.

Install 1/8" tubing (not included) between the V-Bank Filter Box and the Make-Up Air Control Box.

**If the tubing does not fit snugly, heat up the ends and stretch them, then slide them on while hot so they can set in place.*

Check the following:

Orientation of the wiring to the sensor should be:
White / Red / Black (heat shrink) Yellow

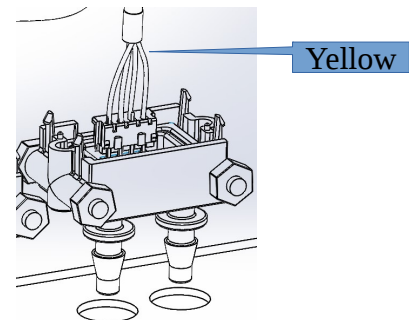
Route the other end of the harness to connect
to I2C Bus 1

Install the lid on to the Control Box and secure with
the screws.

If you removed the control panel mounting screws, reinstall them.

Access the MUA using a browser (see MUA-IOM) and perform the following:

In the browser at the end of the IP Address type: /config and hit enter.



The screen should look like this:

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Current Config	
Sensor Configuration:	basic.conf
Extended Mode:	true
Attic Module:	false
Whole House Fan Module:	true
Water Heating Module:	true
Water Heating Freeze Protection:	off
Makeup Air Proportional Gain:	1.00
Makeup Air Integral Gain:	0.10
Makeup Air Derivative Gain:	0.50
Water Heater Proportional Gain:	1.00
Water Heater Integral Gain:	0.10
Water Heater Derivative Gain:	0.50

System Status	
Board IP:	192.168.1.51
Board Type:	Make-up Air Unit
Serial Number:	NP-00000000
Date Compiled:	Wed Apr 19 16:19:50 PDT 2017
MAC Address:	b0:d5:cc:41:87:7c
Client IP:	192.168.1.64
Uptime:	3 hours
Versions:	sensor v1.4.5 control v1.5 webctrl v1.4

Sensor Configuration:	
<ul style="list-style-type: none"> attic-filter.conf attic.conf basic-filter.conf <li style="background-color: #f00;">basic.conf 	
Serial Number:	NP-00000000
Makeup Proportional Gain:	1.00
Makeup Integral Gain:	0.10
Makeup Derivative Gain:	0.50
Water Heater Proportional Gain:	1.00
Water Heater Integral Gain:	0.10
Water Heater Derivative Gain:	0.50

AIS	
<input checked="" type="checkbox"/> Extended (Recirculation) Module	
<input type="checkbox"/> Attic Module	
<input checked="" type="checkbox"/> Whole House Fan Module	

Water Heater	
<input checked="" type="checkbox"/> Water Heater Module	
<input type="checkbox"/> Water Heater Freeze Prevention Mode	

General Warning
 Setting up a hot water heating coil system may involve plumbing and controls that are beyond the average skillset. If in doubt of any safety or control concerns, please contact us at AirScape or consult a professional. In particular, it's critical to avoid contaminating

If you purchased the standard MUA unit select the “basic-filter.conf” and press the “submit” button.

If you purchased the Heating Assist Unit select the “attic-filter.config” and press the “submit” button.

Confirm your choice is loaded properly, see “current config”

And click return to main page when finished.

In the Main Access Page of the MUA interface you should now have a pressure reading for the “filter Pressure”. If the reading is negative but you prefer a positive reverse the filter tubing at the control box.