



PURITY™ LOW PROFILE 2” COMMERCIAL INSTALLATION & MAINTENANCE

IMPORTANT!

- Only qualified technicians should install this product*
- Install in accordance with relevant building codes
- Read instructions carefully including safety warnings

*Installation of this product by anyone other than licensed HVAC or electrical contractors voids warranty.

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Installation

1. Turn off power to the air handler
2. Remove the existing filter from the 2” slot
3. Add foam padding strips (included) to frame as needed to assure a tight fit
4. Insert PLP into 2” slot
5. Power the Purity Low Profile (PLP)
 - A. A field supplied 24v - 40VA Class 2 plug-in adapter power supply can be added for multiple filters to systems without factory 24v.
 - or
 - B. Locate the 24 volt AC power source in your HVAC system then connect the leads of the power cord illustrated in the electrical wiring diagram. See diagram (Fig. 1)

WARNING: Electrical work should be done by a qualified electrician or HVAC technician

Collector Pad Replacement

1. Turn off the power on the HVAC system.
2. Open the air handler filter access door.
3. Unplug the 24 volt power-cord and remove the PLP from the filter slot
4. Clean heavy accumulated dust on the outside screen with a vacuum.
5. Open the PLP and remove the old Collector Pad and discard it.
6. Insert new Collector Pad by sliding the electrode into the color tube inside the Pad.
7. Close the Air Cleaner and plug the 24 volt power cord into the power head.
8. Restore HVAC system power.

Note: You may hear a little snapping noise at the beginning. This is normal because of variations in temperature and humidity. This noise should cease after a few hours of operation. If the noise persists, contact your HVAC service company.

Periodical Operation Maintenance

Your collector pad should last 4 to 6 months, depending on the amount of air pollutants and fan usage. For maximum effectiveness of the PLP, we recommend that the fan control on the thermostat be in the “ON” position.

WARNING: Failure to change the collector pad on a regular basis will result in a reduction of air flow through the HVAC system. This can cause short cycling of your air handler system and may cause damage to your equipment.

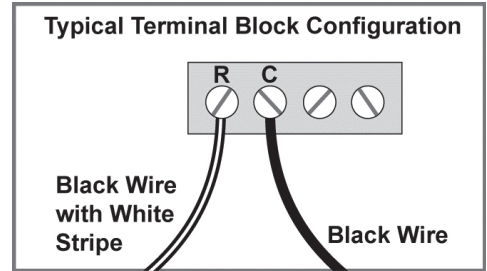


Fig. 1 HVAC Wiring

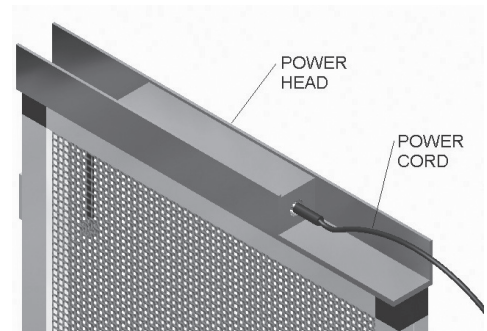


Fig. 2 Power Cord

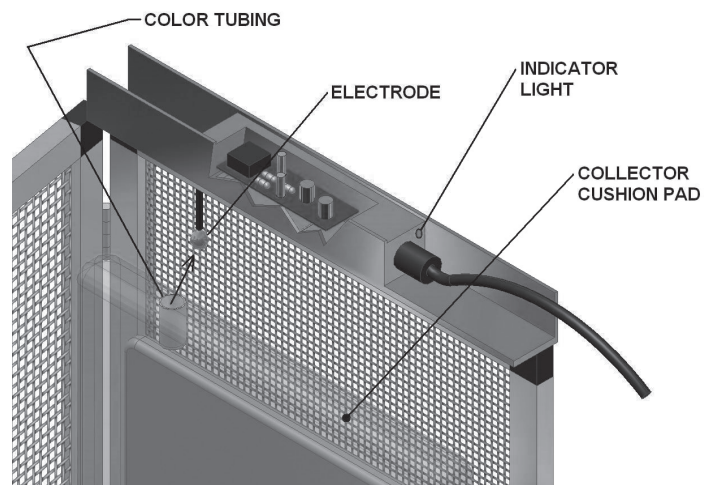
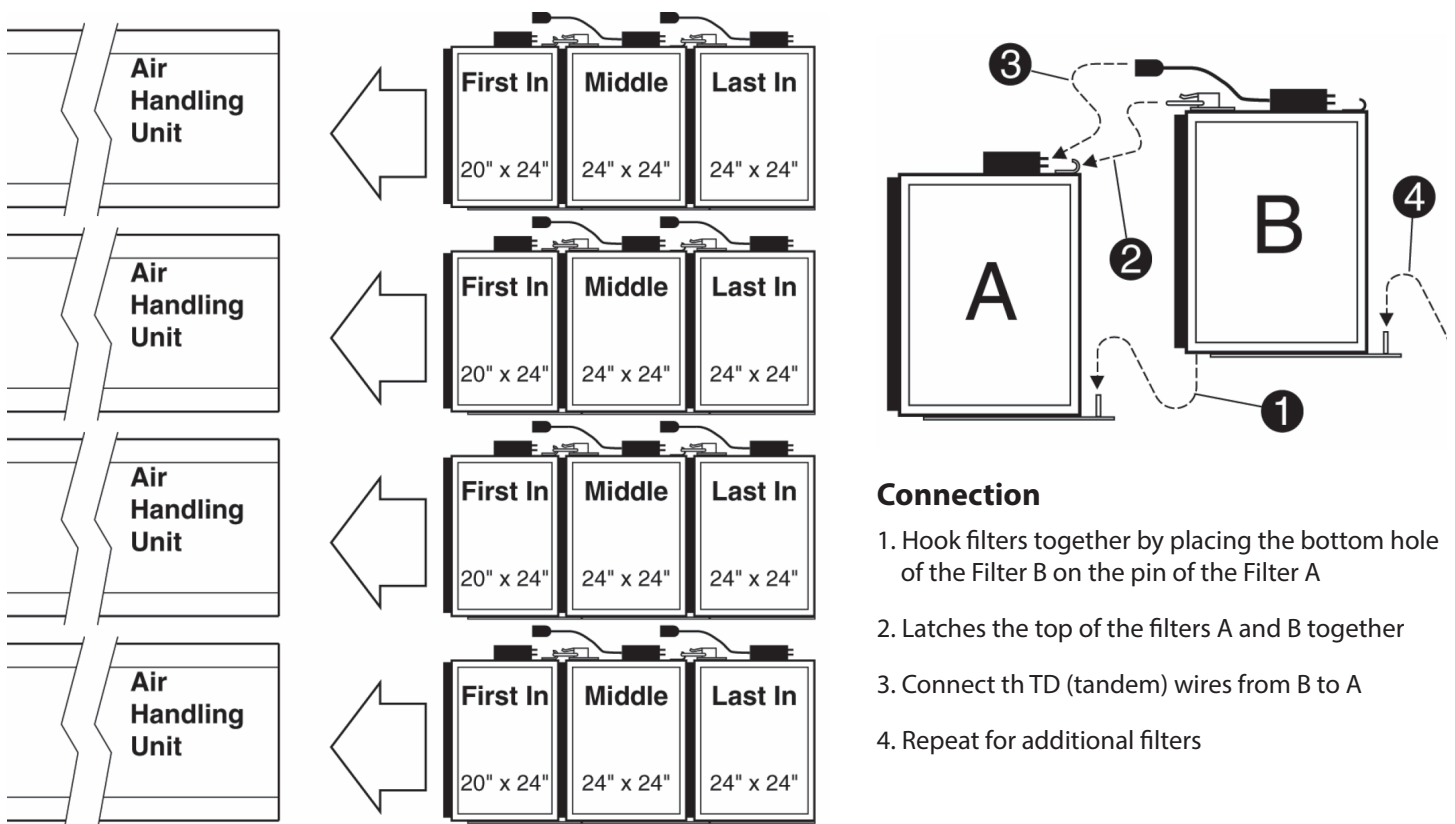


Fig. 3 Collector Pad Replacement

INSTALLATION MODE FOR 2" TANDEM PANEL P-224



Connection

1. Hook filters together by placing the bottom hole of the Filter B on the pin of the Filter A
2. Latches the top of the filters A and B together
3. Connect th TD (tandem) wires from B to A
4. Repeat for additional filters

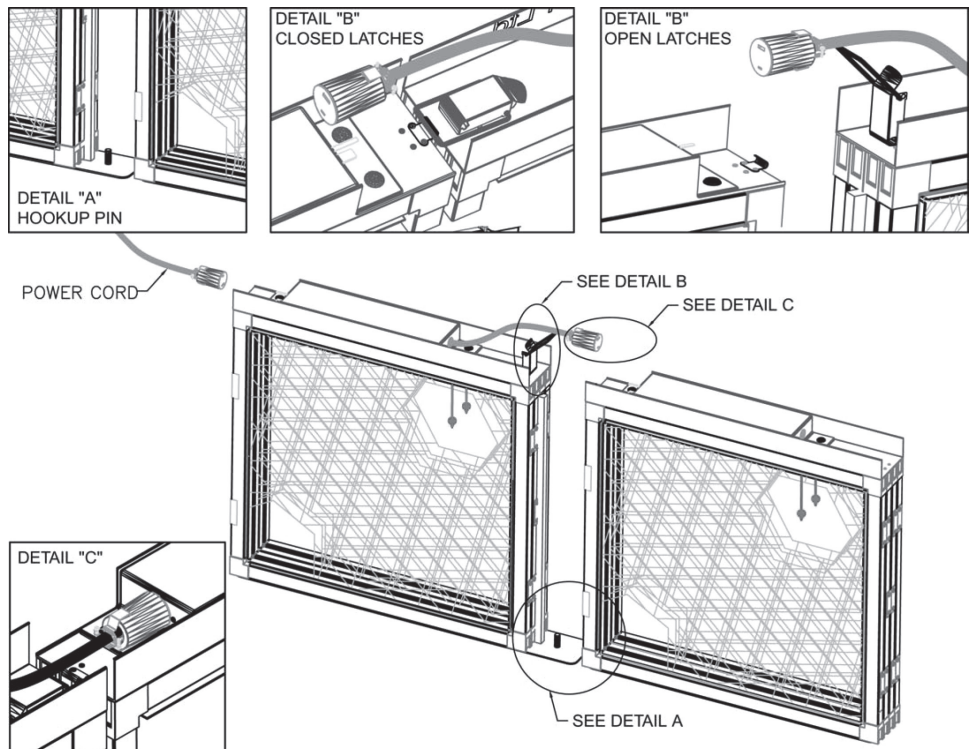
1. Mechanically hook-up filter panels at the bottom (See detail "A")
2. Snap top latches (See detail "B")
3. Electrically connect the filter panel (See detail "C")

POWER CONNECTION

By a licensed electrical contractor
(See "Control Box" instruction)

POWER CONSUMPTION

- 2 VA for each filter, one 24 Volts transformer can be used to power all filters.
- Use only 24 VAC to power filters.



PURITY™ LOW PROFILE 2" COMMERCIAL CONTROL BOX

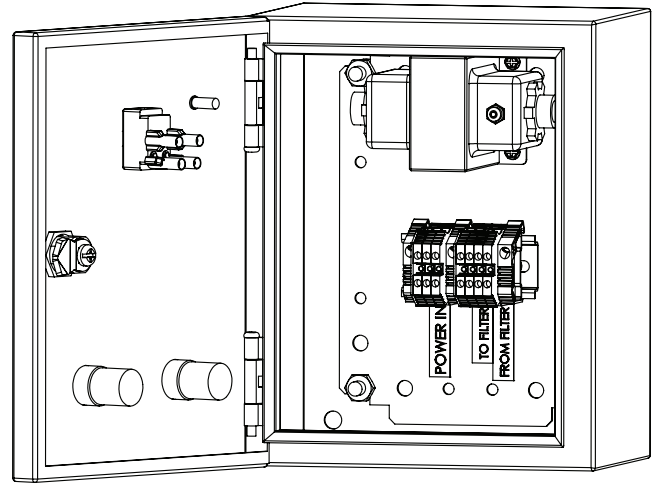
MODEL: TUV-CBX-PLP (Purchased Separately)

The TUV-CBX-PLP control box is designed to provide 24VAC power to the Purity Low Profile (PLP) filter(s) through a universal 120-480VAC step down transformer. All TUV-CBX-PLP will be supplied from the factory at 120VAC incoming power. A simple field wiring change to the transformer, by a qualified technician, is possible for the alternate incoming voltages.

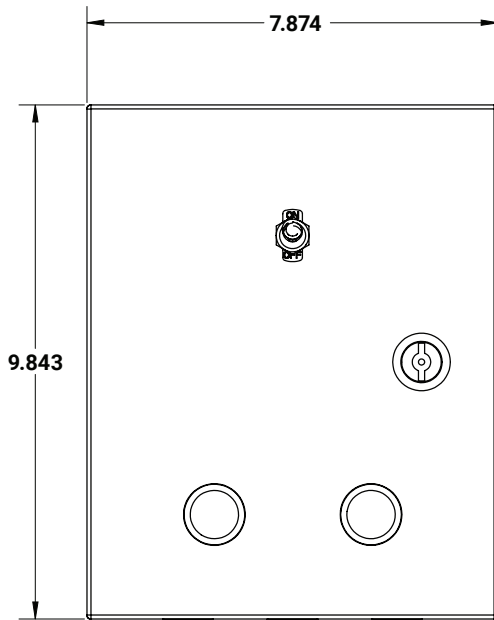
The control box toggle switch supplies 24VAC to the (PLP) filters for servicing. Each control box has the capacity to power twenty (20) standard 1" & 2" filters. The supplied power cord is connected to the gray terminal blocks within the control box, "TO FILTER", as the 24VAC source and inserted into the power-head of the filter assembly. When the toggle switch is turned to the "ON" position, the green light indicator labeled "CONTROL BOX ON" will be illuminated and the Red on-board LED at the filter will also light.

Filter arrangements can be configured with a supervisory circuit that provides fault indication on a loss of power for tandem filters. In a tandem system, the filter labeled "FIRST IN", has a power cord with a barrel jack adapter. Remove this adapter and splice extension cable with enough length to reach the control box.

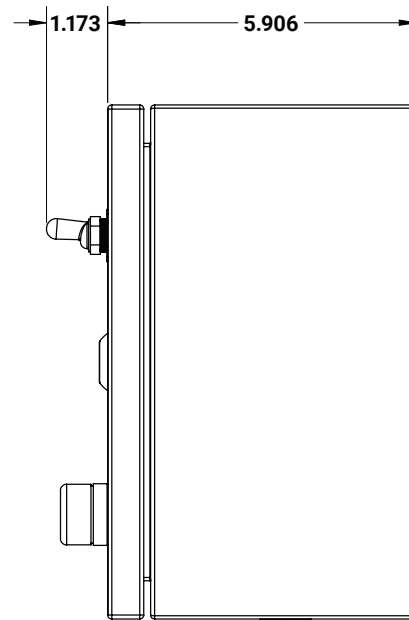
Note that this wire should meet all local regulatory requirements. This extension wire connects to the blue terminal blocks of the control box, labeled "FROM FILTER". With power to all the filters, the green light indicator labeled "FILTERS ON" will illuminate.



PLP 2" COMMERCIAL CONTROL BOX
MODEL: TUV-CBX-PLP



FRONT



SIDE