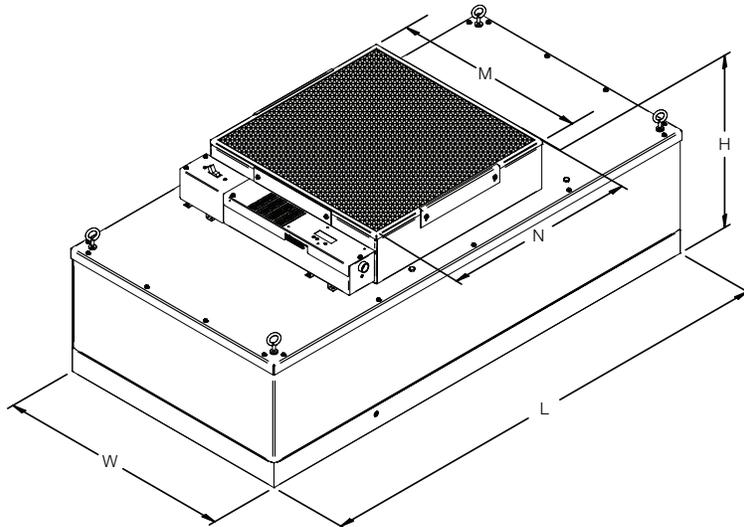


FAN FILTER UNIT

WARNING: TO REDUCE THE RISK OF FIRE, ELECTRICAL SHOCK OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

- + This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been provided supervision or instruction concerning use of the appliance by a person responsible for their safety.
- + Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
- + When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- + Means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules for all poles.
- + Before attempting any servicing, disconnect the unit from the electrical power source using an accessible power cable or a switch in the fixed wiring. Electrical service should be performed by a licensed electrician or authorized service technician.
- + To reduce the risk of injury to persons, install the unit horizontally at least 2.2 m above ground in ceiling grid. Allow for a minimum of 153 mm distance from top of unit and 25 mm from sides of unit to any obstructions.
- + T 0.25A L 250V overcurrent protection fuse is used.
- + When raising the unit, lifting methods shall comply with local health and safety regulations.
- + This product may contain a light source of energy efficiency class E
- + Use this unit only in the manner intended by the manufacturer. If you have any questions, contact Price Industries by email at criticalenvironments@priceindustries.com.
- + Quick start guide available in other languages upon request.

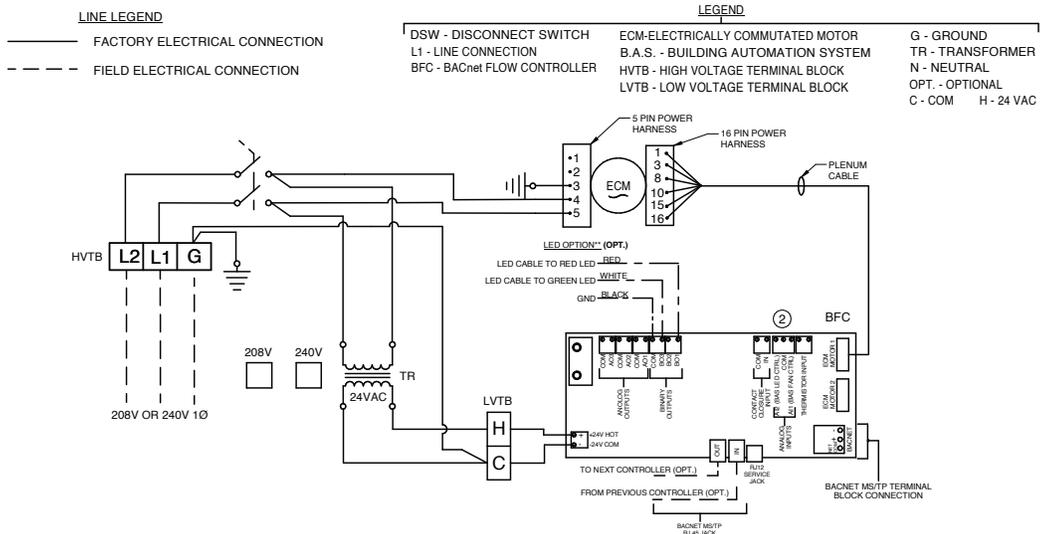
FAN FILTER UNIT (FFU) / INTEGRATED LED LIGHT FAN FILTER UNIT (UFFU) DIMENSION INFORMATION



Unit Size	L (mm)	W (mm)	H (mm)					
			Standard			Integrated Lighting (UFFU)		
			Ducted No PF	Nonducted w/ Prefilter	Ducted w/ Prefilter	Ducted No PF	Nonducted w/ Prefilter	Ducted w/ Prefilter
610 mm x 610 mm	600	600	441	465	478	546	570	583
610 mm x 915 mm	600	905	441	465	478	546	570	583
610 mm x 1220 mm	600	1210	441	465	478	546	570	583

FAN FILTER UNIT

FFU – 240V, 1Ø ECM MOTOR W/ BACNET FLOW CONTROLLER (BFC) WIRING DIAGRAM



NOTES:

- ① YELLOW LED INDICATOR LIGHT IS CREATED BY SIMULTANEOUS SIGNALS TO GREEN AND RED LED
- ** REFER TO DRAWING 266010 FOR LED KIT WIRING DIAGRAM

② **B.A.S. CONTROL**

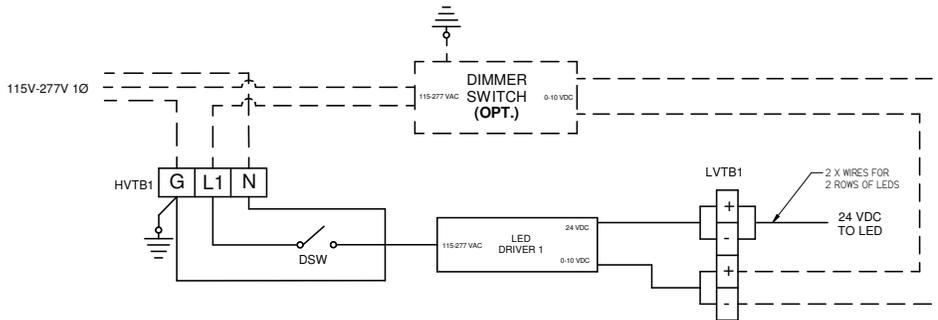
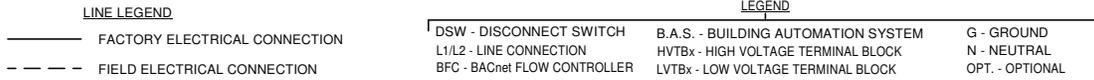
IF BAS CONTROL IS REQUIRED, FIELD WIRE CONNECTIONS TO ANALOG INPUTS (AI1/AI2 & COM).
 BAS INPUT SIGNAL TO THE SPEED CONTROL:
 2-10 VDC = MINIMUM TO MAXIMUM AIRFLOW
 1-2 VDC = BAS FAN OFF
 NO SIGNAL (0-1 VDC) = MANUAL SPEED ADJUSTMENT
 NOTE: BACnet CONTROL OVERRIDES BAS INPUT SIGNAL

WIRING NOTES

1. INSTALLATION WORK AND ELECTRICAL WIRING MUST BE DONE BY QUALIFIED PERSON(S) IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS.
2. USE COPPER 75 C MIN. RATED SUPPLY WIRE FOR FIELD CONNECTIONS.
3. FIELD LOW VOLTAGE WIRING INSULATION MUST HAVE 90V RATING.
4. 3-WIRE CONNECTION IS REQUIRED FOR BACNET MS/TP TERMINAL BLOCK (+, -, NETCOM).

FAN FILTER UNIT

UFFU – 600X600 DRIVER BOX W/ OPTIONAL DIMMER SWITCH WIRING DIAGRAM



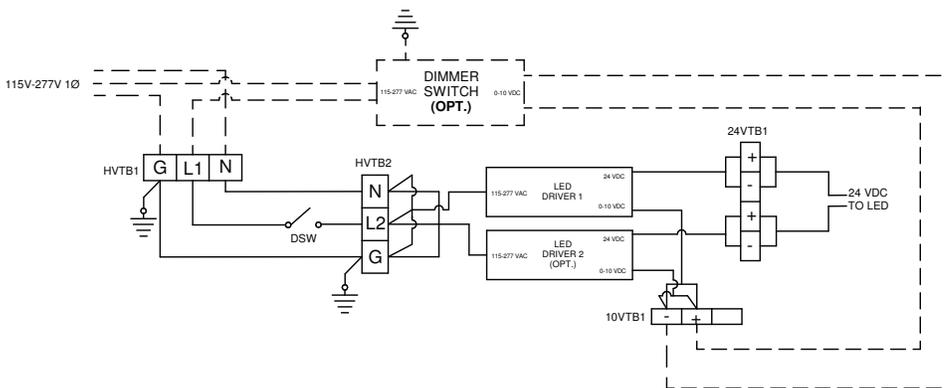
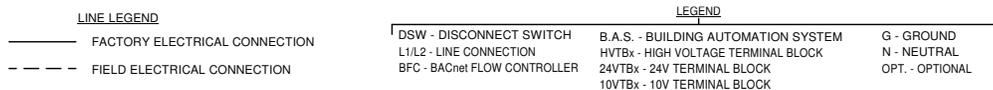
NOTES:

- ① WHEN LIMITED ENERGY CABLE IS USED FOR THE DC OUTPUTS AND DIMMING INPUTS, IT SHALL BE RELIABLY ROUTED AWAY FROM ANY NON-CLASS 2 FACTORY INSTALLED WIRING BY AT LEAST 1/4" BY THE USE OF TIE-WRAPPS, CABLES OR SIMILAR MEANS.

WIRING NOTES

1. INSTALLATION WORK AND ELECTRICAL WIRING MUST BE DONE BY QUALIFIED PERSON(S) IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS
2. USE COPPER 75 C MIN. RATED SUPPLY WIRE FOR FIELD CONNECTIONS.
3. FIELD LOW VOLTAGE WIRING INSULATION MUST HAVE 600V RATING.
4. USE 20AWG COPPER 80 C MIN RATED SUPPLY WIRE FOR LOW VOLTAGE LUMINAIRE CONNECTIONS. DO NOT EXCEED 500FT.

UFFU – 600X900 OR 600X1200 DRIVER BOX W/ OPTIONAL DIMMER SWITCH WIRING DIAGRAM



NOTES:

- ① WHEN LIMITED ENERGY CABLE IS USED FOR THE DC OUTPUTS AND DIMMING INPUTS, IT SHALL BE RELIABLY ROUTED AWAY FROM ANY NON-CLASS 2 FACTORY INSTALLED WIRING BY AT LEAST 1/4" BY THE USE OF TIE-WRAPPS, CABLES OR SIMILAR MEANS.

WIRING NOTES

1. INSTALLATION WORK AND ELECTRICAL WIRING MUST BE DONE BY QUALIFIED PERSON(S) IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS
2. USE COPPER 75 C MIN. RATED SUPPLY WIRE FOR FIELD CONNECTIONS.
3. FIELD LOW VOLTAGE WIRING INSULATION MUST HAVE 600V RATING.
4. USE 20AWG COPPER 80 C MIN RATED SUPPLY WIRE FOR LOW VOLTAGE LUMINAIRE CONNECTIONS. DO NOT EXCEED 500FT.

FAN FILTER UNIT

CEILING MOUNT INSTALLATION

The Price FFU will come completely assembled from the factory with the exception of the HEPA/ULPA filters, which are shipped loose. FFU recommended installation to be within local appropriate 25 mm or 38 mm T-bar with a center-to-center grid spacing equal to the nominal width and length of the FFU. Ceiling opening depth to be at least the height of the unit (H) + 153 mm. Ducted units should have a straight inlet duct section length equivalent to three duct diameters.

1. Supply power to unit with hardwired connection completed by a certified electrician (wiring diagrams within enclosure(s) for details, or found on previous two pages).
2. Install HEPA filter (see HEPA filter installation section).
3. Set FFU with filter installed on benchtop and set airflow rate to desired set point between minimum and maximum flow depending on unit size and room requirements (see full FFU installation guide's airflow set point section to determine initial set point).
4. Confirm airflow using a flow hood and adjust speed controller as required. *For unducted ceiling installations, skip to step 7.*
5. Ensure each supply air duct is balanced to scheduled airflow and matches FFU set point.
6. Turn off primary air source.
7. Lay unit flat on the ground with the perforated face facing downward.
8. Using at least two people and approved lifting equipment, carefully raise the unit through the ceiling grid at an angle until entire unit is above the grid and lower the unit onto the backside of the tees such that the unit is horizontally positioned with the perforated face facing downward (Figure 2).
9. Using approved lifting equipment to support unit from below, secure the unit to the overhead structure using the eyebolts (x4) located on the back of the unit using a 12 ga hanger wire or threaded rod (Figure 3).
10. Adjust and level the unit so that it rests on the tees and there is adequate compression on the gasket to warrant a tight seal (Figure 3).

NOTE: Above steps are manufacturer's suggested hanging techniques; always make sure to follow all local building codes, including seismic, where applicable.



Figure 2: Lower unit to rest on back of ceiling grid

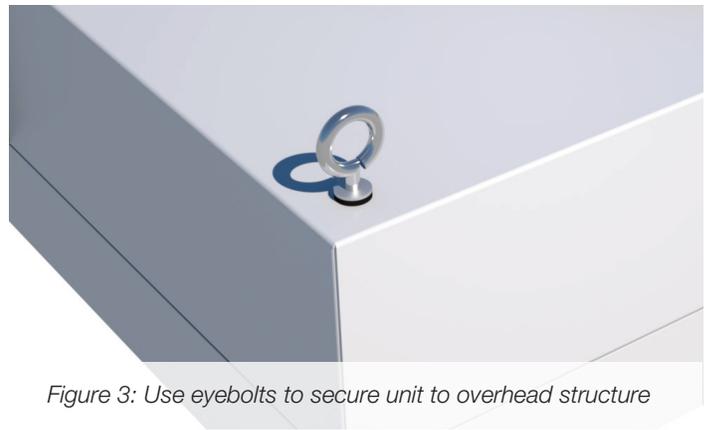


Figure 3: Use eyebolts to secure unit to overhead structure

FAN FILTER UNIT

HEPA/ULPA FILTER INSTALLATION

1. Carefully remove filter from packaging, **handling the filter by the frame only**. Touching filter media will result in damage that will negatively affect filter performance. The filters supplied by Price have been tested and certified by the manufacturer to meet their specifications at delivery by Price. Price cannot accept responsibility for damage that occurs after shipment, whether through transit, handling or installation, and will not replace filters under our standard warranty.
2. Loosen cam locks and note location of filter alignment guide.
3. Ensure knife edge of plenum is seated into gel channel, secure filter in place with cam locks (Figure 6) and tighten. HEPA/ULPA filter outer frame must be in contact with the horizontal component of the knife edge to be seated correctly (Figure 5).

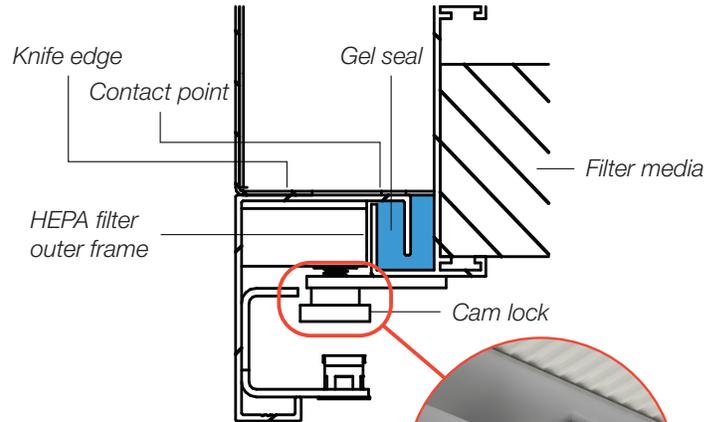


Figure 5: Filter gel seal engagement cross section

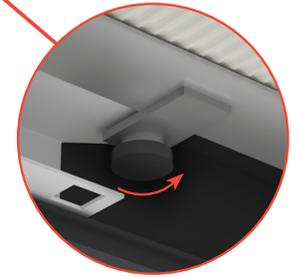


Figure 6: Cam locks

AIRFLOW SET POINT ADJUSTMENT

1. If using the BACnet Flow Controller (BFC), adjust the airflow set point either manually at the controller the arrow keys, using a 0-10V signal, or via BACnet. Controller setup detailed in the full BFC service and installation guide.
2. If using the ECM Speed Controller (ECMSC), adjust the airflow set point either manually at the controller using the potentiometer, or using a 0-10V signal as detailed in the full installation guide.

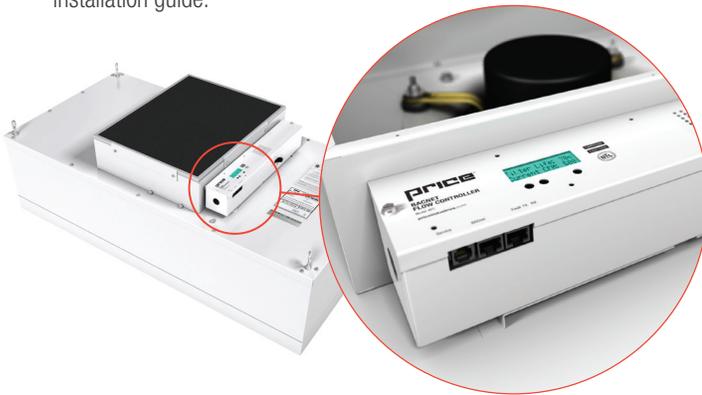


Figure 7: BACnet Flow Controller



Figure 8: ECM Speed Controller

SCAN FOR FULL FFU
INSTALLATION GUIDE



SCAN FOR FULL BFC
INSTALLATION GUIDE

