FEATURES:

- WALL MOUNTED SPEED CONTROLLER: OFFERS SIMPLE USER CONTROL FOR UP TO 30 FAN FILTER UNITS WITH THE SAME SETPOINT.

- BACnet FLOW CONTROLLER SERVICE TOOL: PROVIDES ACCESS TO BACnet FLOW CONTROLLER (BFC) MENUS AND CONTROLS ON A REMOTE DEVICE FOR EASE OF ACCESS IN LOW CLEARANCE INSTALLATIONS.

- WEB SERVER: PROVIDES FULL CONTROL AND MONITORING OF FAN FILTER UNITS ON A GRAPHICAL WEB-BASED INTERFACE AND COMMUNICATES WITH A VARIETY OF BUILDING CONTROL SYSTEMS USING BACnet COMMUNICATION PROTOCOL.
**FEATURES:**

- WALL MOUNTED DIAL CONTROLS FAN SPEED FROM OFF (1.5 VOLTS) to 100% (10 VOLTS).
- EACH 0-10 VDC OUTPUT CONTROLS A MAX OF 15 DAISY CHAINED FAN FILTER UNITS (FOR A TOTAL OF 30 UNITS PER WALL MOUNTED SPEED CONTROLLER) WITH SAME SETPOINT.
- WORKS WITH ECMSC AND BFC CONTROLLERS.
- 0-10 VDC OUTPUT CONNECTS TO 'BAS SIGNAL' INPUT ON ECM SPEED CONTROLLER OR BFC CONTROLLER. USE A MAXIMUM OF 100 FEET FOR SIGNAL CABLES.
- 24 VAC POWER SUPPLY REQUIRED TO POWER WALL MOUNTED SPEED CONTROLLER.
- CONTACT CLOSURE: WHEN 'CONTACT' IS SHORTED TO 'COM' THE 0-10 VDC OUTPUTS WILL GO TO 0 VOLTS CAUSING ALL CONNECTED SPEED CONTROLLERS TO DEFAULT TO THEIR LOCAL SETTING.
FEATURES:

- SERVICE TOOL CONNECTS TO THE RJ12 PORT ON THE BFC BOARD FOR FULL CONTROL UP TO 6 FEET AWAY FROM THE CONTROL PANEL. CONTROLS AND MENUS ARE THE SAME ON THE BFC BOARD AND THE SERVICE TOOL.

- PROVIDES A MEANS TO CONTROL THE BFC BOARD WHEN THERE IS INSUFFICIENT CLEARANCE FOR TRADITIONAL CONTROL PANEL ACCESS OR FOR EASIER CONTROLS ACCESS.

- NO ADDITIONAL POWER SUPPLY IS REQUIRED TO POWER THE BFC SERVICE TOOL.
**WEB SERVER**

**FEATURES:**

- INTERFACE TO BACnet MS/TP DEVICES IN BUILDING VIA WEB ADDRESS
- DISPLAY STATUS OF ETHERNET LAN VIA GREEN AND RED LEDS
- CAN BE CONFIGURED FOR REMOTE ACCESS VIA WEB ADDRESS
- ANIMATED GRAPHIC SCREENS (TO VIEW VARIABLES SUCH AS FILTER STATUS, CFM, FOR EACH FFU & MODIFY SET POINTS AS NEEDED

**EXAMPLE WEB-BASED BACnet FFU CONTROL SYSTEM:**

**EXAMPLE WEB SERVER GRAPHIC INTERFACE:**

BFC 24

- Unit Size: 24x48
- Unit Filter Type: RSR
- Unit Wheel Type: FC
- Unit Fan Type: Constant Volume
- Unit Voltage Type: 115

Motor Runtime
Filter Runtime
1311 RPM
659 CFM
Airflow
ECM Speed
ECM Setpoint in % Motor Speed
Filter Load
Filter Reset
Unit Status
BACnet ROUTER

FEATURES:
- CONNECTS BACnet IP/ETHERNET TO BACnet MS/TP SEGMENTS
- DISPLAYS STATUS OF POWER & ETHERNET VIA DIAGNOSTIC LEDs
- CAN BE CONFIGURED IN THE FIELD VIA WEB BROWSER

IP ETHERNET ROUTER

FEATURES:
- CONNECTS BACnet TO BUILDING NETWORK
- DISPLAYS STATUS OF POWER, ETHERNET LAN & WAN VIA DIAGNOSTIC LEDs
- CAN BE CONFIGURED IN THE FIELD VIA WEB BROWSER
- STATEFUL FIREWALL, PAT, NAT & PORT FORWARDING PROPERTIES

IP ETHERNET SWITCH

FEATURES:
- FIVE PORT UNMANAGED ETHERNET SWITCH PROVIDES 100 Mbps PERFORMANCE ON ALL PORTS
- ACCEPTS EITHER CROSS-OVER OR STRAIGHT THROUGH CABLES USING AUTO-DMIX PROTOCOL

EXAMPLE SYSTEMS:

- THE TABLE BELOW SHOWS THE NUMBER OF DEVICES REQUIRED FOR A GIVEN NUMBER OF FAN FILTER UNITS IN A SYSTEM.
- MORE UNITS CAN BE SUPPORTED, CONTACT CRITICAL ENVIRONMENTS APPLICATIONS TEAM FOR MORE INFORMATION.
- ASSUMES TWO PORTS ON IP ROUTER ARE FILLED WITH BACnet ROUTERS (i.e. 60 FFUs TOTAL).

<table>
<thead>
<tr>
<th>Maximum # of Units</th>
<th>QTY of BACnet Routers</th>
<th>QTY of IP Switches</th>
<th>QTY of IP Router</th>
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- SEE THE BACnet FLOW CONTROLLER MANUAL FOR MORE INFORMATION ON CONTROL SYSTEM OPTIONS.
FFUCS
FAN FILTER UNIT CONTROL SYSTEMS
SUPPORTING CONTENT

MANUALS
FFU/PURAFLO WIRING DIAGRAMS
BACnet WIRING GUIDELINES FOR PRICE CONTROLS MANUAL
BFC BACnet FLOW CONTROLLER MANUAL
FFU/PURAFLO INSTALLATION MANUAL

SUBMITTALS
FAN FILTER UNIT ROOM-SIDE REPLACEABLE FILTER SUBMITTAL
FAN FILTER BENCH TOP REPLACEABLE FILTER SUBMITTAL
ULTRA FAN FILTER UNIT WITH INTEGRATED LIGHTING SUBMITTAL

VIDEOS
FFU FAN FILTER UNIT CONTROL OPTIONS
BACnet FLOW CONTROLLER START-UP GUIDE AND BASICS

WEBSITE
FOR MORE INFORMATION ON PRICE FAN FILTER UNITS, VISIT PRICEINDUSTRIES.COM

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