Fan Filter Unit
Roomside Removable Filter, Backward Curved Wheel, EC Motor

STANDARD CONSTRUCTION:
- BACKWARD CURVED BLOWER WHEEL
- EC MOTOR, 50/60 Hz, 1 PHASE
- CONSTANT TORQUE MOTOR PROGRAM
- DISCONNECT SWITCH
- ROOMSIDE REMOVABLE FILTER, PACKAGED SEPARATELY FOR JOBSITE INSTALLATION BY OTHERS
- EXTRUDED ALUMINUM FILTER FRAME WITH URETHANE GEL
- WALKABLE PLENUM (250 LBS)
- STATIC PRESSURE AND AEROSOL SAMPLE PORT
- LAY IN CEILING INSTALLATION ONLY. FOR SURFACE MOUNT INSTALLATION ORDER SEPARATE ALUMINUM PLASTER FRAME. SEE APF SUBMITTAL (228804)
- 20"X20" RECTANGULAR INLET COLLAR
- WASHABLE PRE-FILTER (NON-DUCTED UNITS)

VOLTAGE:  SPEED CONTROL:
- 115V  EC MOTOR STANDARD SPEED CONTROLLER
- 208V  BACnet FLOW CONTROLLER, MOTOR AND FILTER
- 240V  STATUS OVER BACnet. SEE 265794 FOR DETAILS
- 277V

PLENUM CONSTRUCTION:
- ALUMINUM PLENUM, EXTRUDED KNIFE EDGE FRAME
- STAINLESS STEEL - 304 PLENUM & KNIFE EDGE FRAME

FACE CONSTRUCTION:
- ALUMINUM (EXTRUDED FRAME)
- STAINLESS STEEL - 304 PERF SCREEN & INNER FRAME

MOTOR/BLOWER ACCESS:
- TOP ACCESS  ROOMSIDE ACCESS

PLENUM FINISH:
- WASHED MILL ALUMINUM
- B12 - STANDARD WHITE
- STAINLESS STEEL - 2B PLENUM & STAINLESS STEEL - #4 KNIFE EDGE (OPTIONAL FINISH AVAILABLE)

FACE FINISH:
- WASHED MILL ALUMINUM
- B12 - STANDARD WHITE
- #4 STAINLESS STEEL (OPTIONAL FINISH AVAILABLE)

FILTER:
- HEPA, 99.99% @ 0.30 MICRON, IEST RP CC001.5 TYPE C
- ULPA, 99.9995% @ 0.12 MICRON, IEST RP CC001.5 TYPE F

OPTIONS:
- WALL MOUNTED SPEED CONTROL (SEE 269849 FOR DETAILS)
- POWER CORD (9R 115V or 6R 277V)
- 10" ROUND INLET DUCT COLLAR
- 12" ROUND INLET DUCT COLLAR
- 14" ROUND INLET DUCT COLLAR
- MERV 8 PRE-FILTER (NON-DUCTED UNITS ONLY)
- WASHABLE PRE-FILTER WITH SIDE ACCESS HOUSING (DUCTED UNITS ONLY)
- 3/8" NPT ROOMSIDE AEROSOL INJECTION PORT

FILTER AND MOTOR STATUS LIGHTS:
- TRI-COLOR FACE MOUNTED LED FILTER AND MOTOR STATUS LIGHT (AVAILABLE w/BACnet FLOW CONTROLLER ONLY)

SEISMIC:
- OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL: OSP-0302-10.
- SEISMIC HANGER BRACKETS AND SPECIAL MOUNTING REQUIRED (SEE 266852 FOR DETAILS)

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Fan Filter Unit
Bench Top Replaceable Filter, Backward Curved Wheel, EC Motor

STANDARD CONSTRUCTION:
- BACKWARD CURVED BLOWER WHEEL
- EC MOTOR, 50/60 Hz, 1 PHASE
- TOP MOTOR-BLOWER ACCESS
- CONSTANT TORQUE MOTOR PROGRAM
- DISCONNECT SWITCH
- FACTORY INSTALLED LATCHES ON PLENUM FOR TOOL-FREE FILTER INSTALLATION/REPLACEMENT (IN FIELD BY OTHERS)
- BENCH TOP REPLACEABLE FILTER, PACKAGED SEPARATELY FOR JOBSITE INSTALLATION BY OTHERS
- WALKABLE PLENUM (250 LBS)
- LAY IN CEILING INSTALLATION ONLY. FOR SURFACE MOUNT INSTALLATION ORDER SEPARATE ALUMINUM PLASTER FRAME. See APF Submittal (228804)
- EXTRUDED ALUMINUM FILTER FRAME WITH UPSTREAM GASKET, WHITE POWDER COAT EXPANDED METAL SCREEN
- EXTRUDED ALUMINUM CENTER DIVIDER WITH 0.315"(x2) PORTS, SEALED WITH WELL NUTS
- PORT (1) STATIC PRESSURE AND AEROSOL SAMPLE PORT
- PORT (2) OPTIONAL FILTER AND MOTOR STATUS INDICATOR (FIELD MOUNTED BY OTHERS)
- 20"x20" RECTANGULAR INLET COLLAR
- WASHABLE PRE-FILTER (NON-DUCTED UNITS)

VOLTAGE: SPEED CONTROL:
- 115V
- 208V
- 240V
- 277V
- EC MOTOR STANDARD SPEED CONTROLLER
- Bacnet FLOW CONTROLLER, MOTOR AND FILTER
- STATUS OVER Bacnet. See 265794 FOR DETAILS

FILTER:
- HEPA, 99.99% @ 0.30 MICRON, IEST RP CC001.5 TYPE C
- ULPA, 99.9995% @ 0.12 MICRON, IEST RP CC001.5 TYPE F

OPTIONS:
- WALL MOUNTED SPEED CONTROL (SEE 269849 FOR DETAILS)
- POWER CORD (8ft 115V or 6ft 277V)
- 10" ROUND INLET DUCT COLLAR
- 12" ROUND INLET DUCT COLLAR
- 14" ROUND INLET DUCT COLLAR
- MERV 8 PRE-FILTER (NON-DUCTED UNITS ONLY)
- MERV 8 PRE-FILTER WITH SIDE ACCESS HOUSING (DUCTED UNITS ONLY)
- WASHABLE PRE-FILTER WITH SIDE ACCESS HOUSING (DUCTED UNITS ONLY)

FILTER AND MOTOR STATUS LIGHTS:
- TRI-COLOR FACE MOUNTED LED FILTER AND MOTOR STATUS LIGHT (AVAILABLE w/Bacnet FLOW CONTROLLER ONLY)
- SEISMIC:
- OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL: OSP-0302-10.
- SEISMIC HANGER BRACKETS AND SPECIAL MOUNTING REQUIRED (SEE 266852 FOR DETAILS)


PROJECT:
DK FFU BTR-BC-ECM

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: SPEC. SYMBOL:
JAN 2019 JAN 2019

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FFU-1-X
Fan Filter Unit

Roomside Removable Filter, Forward Curved Wheel, EC Motor

**STANDARD CONSTRUCTION:**
- Forward Curved Blower Wheel
- EC Motor, 50/60 Hz, 1 Phase
- Disconnect Switch
- Roomside Removable Filter, Packaged Separately for Jobsite Installation by Others
- Extruded Aluminum Filter Frame with Urethane Gel
- Walkable Penum (250 Lbs)
- Static Pressure and Aerosol Sample Port
- Lay In Ceiling Installation Only. For Surface Mount Installation Order Separate Aluminum Plaster Frame. See APF Submittal (228804)
- 16"x20" Rectangular Inlet Collar
- Washable Pre-Filter (Non-Ducted Units)

**VOLTAGE:**
- 115V
- EC Motor Standard Speed Controller
- 208V
- BACnet Flow Controller, Motor and Filter
- 240V
- Status Over BACnet. See 265794 for Details
- 277V

**PLENUM CONSTRUCTION:**
- Aluminum Penum, Extruded Knife Edge Frame
- Stainless Steel - 304 Penum & Knife Edge Frame

**FACE CONSTRUCTION:**
- Aluminum (Extruded Frame)
- Stainless Steel - 304 Perf Screen & Inner Frame

**MOTOR/BLOWER ACCESS:**
- Top Access
- Roomside Access

**PLENUM FINISH:**
- Washed Mill Aluminum
- B12 - Standard White
- Stainless Steel - 2B Penum & Stainless Steel - #4 Knife Edge (Optional Finish Available)

**FACE FINISH:**
- Washed Mill Aluminum
- B12 - Standard White
- #4 Stainless Steel (Optional Finish Available)

**FILTER AND MOTOR STATUS LIGHTS:**
- Tri-Color Face Mounted LED Filter and Motor Status Light (Available w/BACnet Flow Controller Only)

**FILTER:**
- HEPA, 99.99% @ 0.30 Micron, IEST RP CC001.5 Type C
- ULPA, 99.9995% @ 0.12 Micron, IEST RP CC001.5 Type F

**OPTIONS:**
- Wall Mounted Speed Control (See 269849 for Details)
- Power Cord (8ft 115V or 6ft 277V)
- 10" Round Inlet Duct Collar
- 12" Round Inlet Duct Collar
- 14" Round Inlet Duct Collar
- MERV 8 Pre-Filter (Non-Ducted Units Only)
- MERV 8 Pre-Filter With Side Access Housing (Ducted Units Only)
- Washable Pre-Filter With Side Access Housing (Ducted Units Only)
- 3/8" NPT Roomside Aerosol Injection Port

**MOTOR PROGRAM:**
- Constant Flow
- Constant Torque

**SEISMIC:**
- OSHPD Special Seismic Certification Preapproval OSP-0302-10.
- Seismic Hanger Brackets and Special Mounting Required (See 266852 for Details)

**NOTE:**
For ducted applications, reference FFU Service and Installation manual for balancing procedure.

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**IMPERIAL UNITS (INCHES)**

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<th>UNIT SIZE</th>
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**FILTER:**
- HEPA, 99.99% @ 0.30 Micron, IEST RP CC001.5 Type C
- ULPA, 99.9995% @ 0.12 Micron, IEST RP CC001.5 Type F

**OPTIONS:**
- Wall Mounted Speed Control (See 269849 for Details)
- Power Cord (8ft 115V or 6ft 277V)
- 10" Round Inlet Duct Collar
- 12" Round Inlet Duct Collar
- 14" Round Inlet Duct Collar
- MERV 8 Pre-Filter (Non-Ducted Units Only)
- MERV 8 Pre-Filter With Side Access Housing (Ducted Units Only)
- Washable Pre-Filter With Side Access Housing (Ducted Units Only)
- 3/8" NPT Roomside Aerosol Injection Port

**MOTOR PROGRAM:**
- Constant Flow
- Constant Torque

**FILTER AND MOTOR STATUS LIGHTS:**
- Tri-Color Face Mounted LED Filter and Motor Status Light (Available w/BACnet Flow Controller Only)

**SEISMIC:**
- OSHPD Special Seismic Certification Preapproval OSP-0302-10.
- Seismic Hanger Brackets and Special Mounting Required (See 266852 for Details)

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**NOTE:**
For ducted applications, reference FFU Service and Installation manual for balancing procedure.
Fan Filter Unit
Bench Top Replaceable Filter, Forward Curved Wheel, EC Motor

STANDARD CONSTRUCTION:
- FORWARD CURVED BLOWER WHEEL
- EC MOTOR, 50/60 Hz, 1 PHASE
- TOP MOTOR/Blower ACCESS
- DISCONNECT SWITCH
- FACTORY INSTALLED LATCHES ON PLENUM FOR TOOL-FREE FILTER INSTALLATION/REPLACEMENT (IN FIELD BY OTHERS)
- BENCH TOP REPLACEABLE FILTER, PACKAGED SEPARATELY FOR JOBSITE INSTALLATION BY OTHERS
- WALKABLE PLENUM (250 LBS)
- LAY IN CEILING INSTALLATION ONLY. FOR SURFACE MOUNT INSTALLATION ORDER SEPARATE ALUMINUM PLASTER FRAME.
- EXTRUDED ALUMINUM FILTER FRAME WITH UPSTREAM GASKET, WHITE POWDER COAT EXPANDED METAL SCREEN
- EXTRUDED ALUMINUM CENTER DIVIDER WITH 0.315"(x2) PORTS, SEALED WITH WELL NUTS
- PORT (1) STATIC PRESSURE AND AEROSOL SAMPLE PORT (FIELD MOUNTED BY OTHERS)
- 16"x20" RECTANGULAR INLET COLLAR
- WASHABLE PRE-FILTER (NON-DUCTED UNITS)

VOLTAGE: SPEED CONTROL:
- 115V  □ EC MOTOR STANDARD SPEED CONTROLLER
- 208V  □ EC MOTOR STANDARD SPEED CONTROLLER
- 240V  □ BACnet FLOW CONTROLLER. MOTOR AND FILTER
- 277V  □ STATUS OVER BACnet. SEE 265794 FOR DETAILS

FILTER:
□ HEPA, 99.99% @ 0.30 MICRON, IEST RP CC001.5 TYPE C
□ ULPA, 99.9995% @ 0.12 MICRON, IEST RP CC001.5 TYPE F

OPTIONS:
□ WALL MOUNTED SPEED CONTROL (SEE 269849 FOR DETAILS)
□ POWER CORD (8ft 115V or 6ft 277V)
□ 10" ROUND INLET DUCT COLLAR
□ 12" ROUND INLET DUCT COLLAR
□ 14" ROUND INLET DUCT COLLAR
□ MERV 8 PRE-FILTER (NON-DUCTED UNITS ONLY)
□ MERV 8 PRE-FILTER WITH SIDE ACCESS HOUSING (DUCTED UNITS ONLY)
□ WASHABLE PRE-FILTER WITH SIDE ACCESS HOUSING (DUCTED UNITS ONLY)

MOTOR PROGRAM:
□ CONSTANT FLOW  □ CONSTANT TORQUE

FILTER AND MOTOR STATUS LIGHTS:
□ TRI-COLOR FACE MOUNTED LED FILTER AND MOTOR STATUS LIGHT (AVAILABLE w/BACnet FLOW CONTROLLER ONLY)

SEISMIC:
□ OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL- OSP-0302-10
□ SEISMIC HANGER BRACKETS AND SPECIAL MOUNTING REQUIRED (SEE 266852 FOR DETAILS)


IMPERIAL UNITS (INCHES)

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<th>SIZE</th>
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<th>H</th>
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SI UNITS (mm)

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PROJECT: DK FFU

ENGINEER: BTR-FC-ECM
CUSTOMER: 265800

SPEC. SYMBOL:

SUBMITTAL DATE: JAN 2019

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Fan Filter Unit
Roomside Removable Filter, Backward Curved Wheel, PSC Motor

STANDARD CONSTRUCTION:
- BACKWARD CURVED BLOWER WHEEL
- PSC MOTOR, 60 Hz, 1 PHASE
- PSC MOTOR STANDARD UNIVERSAL SPEED CONTROLLER
- DISCONNECT SWITCH
- ROOMSIDE REMOVABLE FILTER, PACKAGED SEPARATELY FOR JOBSITE INSTALLATION BY OTHERS
- EXTRUDED ALUMINUM FILTER FRAME WITH URETHANE GEL
- WALKABLE PLENUM (250 LBS)
- STATIC PRESSURE AND AEROSOL SAMPLE PORT
- LAY IN CEILING INSTALLATION ONLY. FOR SURFACE MOUNT INSTALLATION ORDER SEPARATE ALUMINUM PLASTER FRAME.
SEE APF SUBMITTAL (228804)
- 20"x20" RECTANGULAR INLET COLLAR
- WASHABLE PRE-FILTER (NON-DUCTED UNITS)

VOLTAGE:
- 115V
- 208V
- 240V
- 277V

PLENUM CONSTRUCTION:
- ALUMINUM PLENUM, EXTRUDED KNIFE EDGE FRAME
- STAINLESS STEEL - 304 PLENUM & KNIFE EDGE FRAME

FACE CONSTRUCTION:
- ALUMINUM (EXTRUDED FRAME)
- STAINLESS STEEL - 304 PERF SCREEN & INNER FRAME

MOTOR/BLOWER ACCESS:
- TOP ACCESS
- ROOMSIDE ACCESS

PLENUM FINISH:
- WASHED MILL ALUMINUM
- B12 - STANDARD WHITE
- STAINLESS STEEL - 2B PLENUM & STAINLESS STEEL - #4 KNIFE EDGE (OPTIONAL FINISH AVAILABLE)

FACE FINISH:
- WASHED MILL ALUMINUM
- B12 - STANDARD WHITE
- #4 STAINLESS STEEL (OPTIONAL FINISH AVAILABLE)

FILTER:
- HEPA, 99.99% @ 0.30 MICRON, IEST RP CC001.5 TYPE C
- ULPA, 99.9995% @ 0.12 MICRON, IEST RP CC001.5 TYPE F

OPTIONS:
- WALL MOUNTED SPEED CONTROL (SEE 247779 FOR DETAILS)
- POWER CORD (8ft 115V or 6ft 277V)
- 10" ROUND INLET DUCT COLLAR
- 12" ROUND INLET DUCT COLLAR
- 14" ROUND INLET DUCT COLLAR
- MERV 8 PRE-FILTER (NON-DUCTED UNITS ONLY)
- MERV 8 PRE-FILTER WITH SIDE ACCESS HOUSING (DUCTED UNITS ONLY)
- WASHABLE PRE-FILTER WITH SIDE ACCESS HOUSING (DUCTED UNITS ONLY)
- 3/8" NPT ROOMSIDE AEROSOL INJECTION PORT

FILTER AND MOTOR STATUS LIGHTS:
- GREEN/RED FACE MOUNTED MOTOR STATUS LED
- GREEN/YELLOW FACE MOUNTED FILTER STATUS LED

SEISMIC:
- OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL: OSP-0302-10.
- SEISMIC HANGER BRACKETS AND SPECIAL MOUNTING REQUIRED (SEE 266852 FOR DETAILS)

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE:

SPEC. SYMBOL:

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Fan Filter Unit
Bench Top Replaceable Filter, Backward Curved Wheel, PSC Motor

STANDARD CONSTRUCTION:
- BACKWARD CURVED BLOWER WHEEL
- PSC MOTOR, 60 Hz, 1 PHASE
- PSC MOTOR STANDARD UNIVERSAL SPEED CONTROLLER
- TOP MOTOR/BLOWER ACCESS
- DISCONNECT SWITCH
- FACTORY INSTALLED LATCHES ON PLENUM FOR TOOL-FREE FILTER INSTALLATION/REPLACEMENT (IN FIELD BY OTHERS)
- BENCH TOP REPLACEABLE FILTER, PACKAGED SEPARATELY FOR JOB SITE INSTALLATION BY OTHERS
- WALKABLE PLENUM (250 LBS)
- LAY IN CEILING INSTALLATION ONLY. FOR SURFACE MOUNT INSTALLATION ORDER SEPARATE ALUMINUM PLASTER FRAME.
- EXTRUDED ALUMINUM FILTER FRAME WITH UPSTREAM GASKET, WHITE POWDER COAT EXPANDED METAL SCREEN
- EXTRUDED ALUMINUM CENTER DIVIDER WITH 0.315"(x2) PORTS, SEALED WITH WELL NUTS
- PORT (1) STATIC PRESSURE AND AEROSOL SAMPLE PORT
- PORT (2) OPTIONAL FILTER AND MOTOR STATUS INDICATOR (FIELD MOUNTED BY OTHERS)
- 20"x20" RECTANGULAR INLET COLLAR
- WASHABLE PRE-FILTER (NON-DUCTED UNITS)

VOLTAGE:
- 115V
- 208V
- 240V
- 277V

PLENUM FINISH:
- WASHED MILL ALUMINUM
- B12 - STANDARD WHITE

FILTER:
- HEPA, 99.99% @ 0.30 MICRON, IEST RP CC001.5 TYPE C
- ULPA, 99.9995% @ 0.12 MICRON, IEST RP CC001.5 TYPE F

OPTIONS:
- WALL MOUNTED SPEED CONTROL (SEE 247779 FOR DETAILS)
- POWER CORD (8ft 115V or 6ft 277V)
- 10" ROUND INLET DUCT COLLAR
- 12" ROUND INLET DUCT COLLAR
- 14" ROUND INLET DUCT COLLAR
- MERV 8 PRE-FILTER (NON-DUCTED UNITS ONLY)
- MERV 8 PRE-FILTER WITH SIDE ACCESS HOUSING (DUCTED UNITS ONLY)
- WASHABLE PRE-FILTER WITH SIDE ACCESS HOUSING (DUCTED UNITS ONLY)

FILTER AND MOTOR STATUS LIGHTS:
- GREEN/RED FACE MOUNTED MOTOR STATUS LED
- GREEN/YELLOW FACE MOUNTED FILTER STATUS LED

SEISMIC:
- OSHPD SPECIAL SEISMIC CERTIFICATION
- PREAPPROVAL: OSP-0302-10.
- SEISMIC HANGER BRACKETS AND SPECIAL MOUNTING REQUIRED (SEE 266852 FOR DETAILS)

NOTE:
For ducted applications, reference FFU Service and Installation manual for balancing procedure.
Fan Filter Unit
Roomside Removable Filter, Forward Curved Wheel, PSC Motor

STANDARD CONSTRUCTION:
- FORWARD CURVED BLOWER WHEEL
- PSC MOTOR, 60 Hz, 1 PHASE
- PSC MOTOR STANDARD UNIVERSAL SPEED CONTROLLER
- DISCONNECT SWITCH
- ROOMSIDE REMOVABLE FILTER, PACKAGED SEPARATELY
  FOR JOBSITE INSTALLATION BY OTHERS
- EXTRUDED ALUMINUM FILTER FRAME WITH URETHANE GEL
- WALKABLE PLENUM (250 LBS)
- STATIC PRESSURE AND AEROSOL SAMPLE PORT
- LAY IN CEILING INSTALLATION ONLY. FOR SURFACE MOUNT
  INSTALLATION ORDER SEPARATE ALUMINUM PLASTER FRAME.
SEE APF SUBMITTAL (228804)
- 16"x20" RECTANGULAR INLET COLLAR

SINGLE UNIT OPTIONS:
- WASHABLE PRE-FILTER (NON-DUCTED UNITS)
- 1/4 TURN FASTENERS
- PERFORATED FACE
- FACE MOUNTED LED INDICATOR (OPTIONAL)
- PRE-FILTER HOUSING (OPTIONAL ON DUCTED)
- DISCONNECT SWITCH
- FACE MOUNTED LED INDICATOR (OPTIONAL)
- QUICK RELEASE (1/4 TURN) FASTENERS
- STANDARD HANGING: ZINC PLATED EYEBOLTS
- CONTROLS ENCLOSURE FOR MOTOR AND FILTER STATUS (OPTIONAL)

IMPERIAL UNITS (INCHES)

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<td>324</td>
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<tr>
<td>2x2</td>
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<td>324</td>
<td>0.21</td>
<td>4.0/1.6/1.6</td>
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</table>

FILTER:
- HEPA, 99.99% @ 0.30 MICRON, IEST RP CC001.5 TYPE C
- ULPA, 99.9995% @ 0.12 MICRON, IEST RP CC001.5 TYPE F

OPTIONS:
- WALL MOUNTED SPEED CONTROL (SEE 247779 FOR DETAILS)
- POWER CORD (8ft 115V or 6ft 277V)
- 10" ROUND INLET DUCT COLLAR
- 12" ROUND INLET DUCT COLLAR
- WASHABLE PRE-FILTER WITH SIDE ACCESS HOUSING (DUCTED UNITS ONLY)
- 3/8" NPT ROOMSIDE AEROSOL INJECTION PORT

FILTER AND MOTOR STATUS LIGHTS:
- GREEN/RED FACE MOUNTED MOTOR STATUS LED
- GREEN/YELLOW FACE MOUNTED FILTER STATUS LED

SEISMIC:
- OSHPD SPECIAL SEISMIC CERTIFICATION
  PREAPPLICATION: OSP-0302-10.
  SEISMIC HANGER BRACKETS AND SPECIAL MOUNTING REQUIRED
  (SEE 266852 FOR DETAILS)

**Fan Filter Unit**

Bench Top Replaceable Filter, Forward Curved Wheel, PSC Motor

### Standard Construction:
- Forward curved blower wheel
- PSC motor, 60 Hz, 1 phase
- PSC motor standard universal speed controller
- Top motor/Blower access
- Disconnect switch
- Factory-installed latches on plenum for tool-free filter installation/replacement (in field by others)
- Bench top replaceable filter, packaged separately for jobsite installation by others
- Walkable plenum (250 lbs)
- Lay in ceiling installation only, for surface mount installation order separate aluminum plaster frame. See APF Submittal (229804)
- Extruded aluminum filter frame with upstream gasket, white powder coat expanded metal screen
- Extruded aluminum center divider with 0.315"(x2) ports, sealed with well nuts
- Port (1) static pressure and aerosol sample port
- Port (2) optional filter and motor status indicator (field mounted by others)
- 16"x20" rectangular inlet collar
- Washable pre-filter (non-ducted units)

### Controls Enclosure
- For motor and filter status (optional)

### Duct Collar (Optional) (Nom. - 1/8"

### Upstream Gasket

### Standard hanging:
- Zinc plated eyebolts

### Pre-filter Housing (Optional on Ducted)

### Standard Construction:
- Standard construction:
  - Forward curved blower wheel
  - PSC motor, 60 Hz, 1 phase
  - PSC motor standard universal speed controller
  - Top motor/Blower access
  - Disconnect switch
  - Factory-installed latches on plenum for tool-free filter installation/replacement (in field by others)
  - Bench top replaceable filter, packaged separately for jobsite installation by others
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  - Extruded aluminum center divider with 0.315"(x2) ports, sealed with well nuts
  - Port (1) static pressure and aerosol sample port
  - Port (2) optional filter and motor status indicator (field mounted by others)
  - 16"x20" rectangular inlet collar
  - Washable pre-filter (non-ducted units)

### Voltage:
- 115V
- 208V
- 240V
- 277V

### Plenum Finish:
- Washed mill aluminum
- B12 - Standard white

### Filter:
- HEPA, 99.99% @ 0.30 micron, IEST RP CC001.5 TYPE C
- ULPA, 99.9995% @ 0.12 micron, IEST RP CC001.5 TYPE F

### OPTIONS:
- Wall mounted speed control (see 247779 for details)
- Power cord (8ft 115V or 6ft 277V)
- 10" round inlet duct collar
- 12" round inlet duct collar
- 14" round inlet duct collar
- MERV 8 pre-filter (non-ducted units only)
- MERV 8 pre-filter with side access housing (ducted units only)
- Washable pre-filter with side access housing (ducted units only)

### Filter and Motor Status Lights:
- Green/red face mounted motor status LED
- Green/yellow face mounted filter status LED

### Seismic:
- OSHPD special seismic certification
- Preapproval: OSP-0302-10
- Seismic hanger brackets and special mounting required (see 266852 for details)

### Note:
- For ducted applications, reference FFU Service and Installation manual for balancing procedure.

### Imperial Units (Inches):

<table>
<thead>
<tr>
<th>Unit</th>
<th>Size</th>
<th>W (in)</th>
<th>L (in)</th>
<th>H (in)</th>
<th>Filter Area (ft²)</th>
<th>Max Amps (115/208-240/277)</th>
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<tbody>
<tr>
<td>2x4</td>
<td>23.625</td>
<td>47.625</td>
<td>11.000</td>
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### SI Units (mm):

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<thead>
<tr>
<th>Unit</th>
<th>Size</th>
<th>W (mm)</th>
<th>L (mm)</th>
<th>H (mm)</th>
<th>Filter Area (m²)</th>
<th>Max Amps (115/208-240/277)</th>
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</thead>
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<td>2x3</td>
<td>600</td>
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<tr>
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SECURED AS PER OSP - 0302-10 REPORT.
- LATERAL BRACING REQUIRED AS PER OSP - 0302-10 REPORT.

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<tr>
<th>NOM. LENGTH</th>
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<td>24.000&quot;</td>
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<td>22.285&quot;</td>
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</tbody>
</table>

NOTE:
- 12GA. GALVANIZED HANGER BRACKET.
- MASON SCB-2 BRACKET REQUIRED (QTY. 4).

ALL METRIC DIMENSIONS () ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.
Fan Filter Unit - Reverse Flow
Exhaust or Return, Room Side Removable Filter, Forward Curved Wheel, EC Motor

STANDARD CONSTRUCTION:
- FORWARD CURVED BLOWER WHEEL
- EC MOTOR, 50/60 Hz, 1 PHASE
- DISCONNECT SWITCH
- ROOM SIDE ACCESSIBLE MOTOR AND BLOWER ASSEMBLY
- ROOM SIDE REMOVABLE FILTER, PACKAGED SEPARATELY FOR JOBSITE INSTALLATION BY OTHERS
- EXTRUDED ALUMINUM FILTER FRAME WITH URETHANE GEL
- WALKABLE PLENUM (250 LBS)
- LAY IN CEILING INSTALLATION ONLY. FOR SURFACE MOUNT INSTALLATION ORDER SEPARATE ALUMINUM PLASTER FRAME. SEE APF SUBMITTAL (228804)

PLENUM CONSTRUCTION:
- ALUMINUM PLENUM, EXTRUDED KNIFE EDGE FRAME

FACE CONSTRUCTION:
- ALUMINUM (EXTRUDED FRAME)

PLENUM FINISH:
- WASHED MILL ALUMINUM
- WHITE POWDER COAT - B12

FACE FINISH:
- WASHED MILL ALUMINUM
- WHITE POWDER COAT - B12

VOLTAGE: SPEED CONTROL:
- 115V EC MOTOR STANDARD SPEED CONTROLLER
- 208V BACnet FLOW CONTROLLER, MOTOR AND FILTER
- 240V STATUS OVER BACnet. SEE 265794 FOR DETAILS
- 277V

OPTIONS:
- WALL MOUNTED SPEED CONTROL (SEE 269849 FOR DETAILS)
- POWER CORD (8ft 115V or 6ft 277V)
- 10" ROUND DUCT COLLAR
- 12" ROUND DUCT COLLAR
- MERV 8 PRE-FILTER

MOTOR PROGRAM:
- CONSTANT FLOW
- CONSTANT TORQUE

MOTOR AND FILTER STATUS INDICATORS:
- TRI-COLOR FACE MOUNTED LED (AVAILABLE w/BACnet FLOW CONTROLLER ONLY)

FILTER:
- HEPA, 99.99% @ 0.30 MICRON, IEST RP CC001.5 TYPE C
- ULPA, 99.9995% @ 0.12 MICRON, IEST RP CC001.5 TYPE F

NOTE:
For ducted applications, reference FFU Service and Installation manual for balancing procedure.

PROJECT:

ENGINEER: DK

CUSTOMER:

SUBMITTAL DATE: SPEC. SYMBOL: JAN 2019
Fan Filter Unit - Reverse Flow
Exhaust or Return, Room Side Removable Filter, Forward Curved Wheel, PSC Motor

STANDARD CONSTRUCTION:
• FORWARD CURVED BLOWER WHEEL
• PSC MOTOR, 60 Hz, 1 PHASE
• PSC MOTOR STANDARD UNIVERSAL SPEED CONTROLLER
• DISCONNECT SWITCH
• ROOM SIDE ACCESSIBLE MOTOR AND BLOWER ASSEMBLY
• ROOM SIDE REMOVABLE FILTER, PACKAGED SEPARATELY
• FOR JOBSITE INSTALLATION BY OTHERS
• EXTRUDED ALUMINUM FILTER FRAME WITH URETHANE GEL
• LAY IN CEILING INSTALLATION ONLY. FOR SURFACE MOUNT
INSTALLATION ORDER SEPARATE ALUMINUM PLASTER FRAME. SEE APF SUBMITTAL (228804)

VOLTAGE:
□ 115V
□ 208V
□ 240V
□ 277V

PLENUM CONSTRUCTION:
□ ALUMINUM PLENUM, EXTRUDED KNIFE EDGE FRAME

FACE CONSTRUCTION:
□ ALUMINUM (EXTRUDED FRAME)

PLENUM FINISH:
□ WASHED MILL ALUMINUM
□ WHITE POWDER COAT - B12
(OPTIONAL FINISH AVAILABLE)

FACE FINISH:
□ WASHED MILL ALUMINUM
□ WHITE POWDER COAT - B12
(OPTIONAL FINISH AVAILABLE)


FILTER:
□ HEPA, 99.99% @ 0.30 MICRON, IEST RP CC001.5 TYPE C
□ ULPA, 99.9995% @ 0.12 MICRON, IEST RP CC001.5 TYPE F

OPTIONS:
□ WALL MOUNTED SPEED CONTROL (SEE 247779 FOR DETAILS)
□ POWER CORD (8ft 115V or 6ft 277V)
□ 10" ROUND DUCT COLLAR
□ 12" ROUND DUCT COLLAR
□ MERV 8 PRE-FILTER

IMPERIAL UNITS (INCHES)

<table>
<thead>
<tr>
<th>UNIT SIZE</th>
<th>W</th>
<th>L</th>
<th>H</th>
<th>AREA (ft²)</th>
<th>FILTER AREA (ft²)</th>
<th>MAX AMPS (115/208-240/277)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2'x4'</td>
<td>23.625</td>
<td>47.625</td>
<td>18.000</td>
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SI UNITS (mm)

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<tr>
<th>UNIT SIZE</th>
<th>W</th>
<th>L</th>
<th>H</th>
<th>AREA (m²)</th>
<th>FILTER AREA (m²)</th>
<th>MAX AMPS (115/208-240/277)</th>
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</thead>
<tbody>
<tr>
<td>2'x4'</td>
<td>600</td>
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<td>457</td>
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PROJECT:  
DK

ENGINEER:  
FFU

CUSTOMER:  
RSR-FC-PSC

SUBMITTAL DATE:  
REVERSE FLOW

SPEC. SYMBOL:  
AUG 2018

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Sheet 1 of 1  Rev 0  FFU-1-X
WALL KIT FOR PSC MOTOR:

HIGH VOLTAGE AND REQUIRES FIELD SUPPLIED CONDUIT AND JUNCTION BOX. IT IS SUPPLIED LOOSED FOR FIELD INSTALLATION IN PLACE OF A SPEED CONTROLLER USUALLY LOCATED ON THE FAN FILTER UNIT. AS OPPOSED TO STANDARD SPEED CONTROLLER IT IS EASILY ACCESSIBLE AND COMES WITH A KNOB THAT CAN BE ADJUSTED WITHOUT THE USE OF A TOOL.
NOTE 1: CONNECT 0-10 VDC OUTPUT TO 'BAS SIG' INPUT ON PRICE ECM SPEED CONTROLLER (P/N’S 232953-100, 232953-230).

EACH 0-10 OUTPUT CAN CONTROL A MAX OF 15 ECM SPEED CONTROLLERS (FOR A TOTAL OF 30 PER WALL MOUNTED SPEED CONTROLLER). CONNECT COMMON TO 'BAS COMMON' ON ECM SPEED CONTROLLER.

NOTE 2: EACH 0-10 OUTPUT CAN SUPPORT A MAX CABLE LENGTH OF 100 FEET. CABLES SHALL BE SHEIELDED FOR ELECTRICAL NOISE AND MUST BE RUN AWAY FROM ALL POWER LINES.

NOTE 3: CONTACT CLOSURE INPUT - WHEN CONTACTS OPEN, DIAL WILL CONTROL FAN SPEED FROM OFF TO 100% PROPORTIONALLY. WHEN CONTACTS SHORTED, 0-10 OUTPUTS 7 AND 8 WILL GO TO 0 VOLTS, AND ALL ASSOCIATED ECM SPEED CONTROLLERS WILL DEFAULT TO THEIR LOCAL SETTING.

NOTE 4: TURNING DIAL FROM MIN TO MAX POSITION WILL PROPORTIONALLY INCREASE VOLTAGE FROM EACH 0-10 VDC OUTPUT FROM 1.5 VDC (FAN OFF) TO 10 VDC (FAN MAX SPEED)
**FFU - FAN FILTER UNIT**

**BACnet FLOW CONTROLLER (BFC)**

**INPUT / OUTPUT DESCRIPTION**

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<thead>
<tr>
<th>ANALOG OUTPUTS</th>
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<tbody>
<tr>
<td>A01</td>
<td>CONFIGURABLE FOR UNIT PRESSURE, CFM (AIR FLOW), RPM (MOTOR SPEED), FILTER LOAD &amp; BAS</td>
</tr>
<tr>
<td>A02</td>
<td>CONFIGURABLE FOR UNIT PRESSURE, CFM (AIR FLOW), RPM (MOTOR SPEED), FILTER LOAD &amp; BAS</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>BINARY OUTPUTS</th>
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</thead>
<tbody>
<tr>
<td>B01</td>
<td>RED LED OUT</td>
</tr>
<tr>
<td>B02</td>
<td>GREEN LED OUT</td>
</tr>
<tr>
<td>B03</td>
<td>COMMON</td>
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<tbody>
<tr>
<td>A11</td>
<td>INPUT VOLTAGE FOR REMOTE FAN SPEED CONTROL</td>
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<tr>
<td>A12</td>
<td>SPARE</td>
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<table>
<thead>
<tr>
<th>INPUTS</th>
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<tbody>
<tr>
<td>THERMISTOR INPUT</td>
<td>ANALOG INPUT FOR MONITORING AIR OVER FILTER TEMPERATURE, 10k TYPE J THERMISTOR</td>
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<tr>
<td>CONTACT CLOSURE</td>
<td>BINARY INPUT FOR NIGHT SETBACK</td>
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</table>

**PROJECT:**

**ENGINEER:**

**CUSTOMER:**

**SUBMITTAL DATE:**

**SPEC. SYMBOL:**

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FFUCS - FAN FILTER UNIT CONTROL SYSTEM
FRONT END BACnet SYSTEM

WEB SERVER

FEATURES:
- INTERFACE TO BACnet MS/TP DEVICES IN BUILDING VIA WEB ADDRESS
- DISPLAYS 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)
- REFERENCE STANDARD SUBMITTAL 265512 FOR ADDITIONAL INFORMATION

IP ETHERNET ROUTER

FEATURES:
- CONNECTS BACnet IP 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
- REFERENCE STANDARD SUBMITTAL 265511 FOR ADDITIONAL INFORMATION

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 ADDRESS
- REFERENCE STANDARD SUBMITTAL 265510 FOR ADDITIONAL INFORMATION

IP ETHERNET SWITCH

FEATURES:
- FIVE PORT UNMANAGED ETHERNET SWITCH PROVIDES 100Mbps PERFORMANCE ON ALL PORTS
- ACCEPTS EITHER CROSS-OVER OR STRAIGHT THROUGH CABLES USING AUTO-MDIX PROTOCOL
- REFERENCE STANDARD SUBMITTAL 265513 FOR ADDITIONAL INFORMATION

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER: DK
CUSTOMER: FFUCS
SUBMITTAL DATE: JAN 2019
SPEC. SYMBOL: 269692

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