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 HGMF FRAME.

SEE HGMF SUBMITTAL (271137)
- 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
- WASHERABLE 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 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 FFUCS SUBMITTAL 269849)
- 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:
- 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)

<table>
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<tr>
<th>UNIT</th>
<th>SIZE</th>
<th>W</th>
<th>L</th>
<th>H</th>
<th>N</th>
<th>FILTER AREA (ft²)</th>
<th>MAX AMPS (115/208-240/277)</th>
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SI UNITS (mm)

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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 FFUCS SUBMITTAL 269849)
- 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:
- 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)

**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 HGMF frame.

**SEE HGMF SUBMITTAL (271137)**

- 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: EC motor standard speed controller
- 208V: BACnet flow controller, motor and filter
- 240V: Status over BACnet. See 265794 for details

**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 FFUCS submittal 269849)
- 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)

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

**PROJECT:**

**CUSTOMER:**

**SUBMITTAL DATE:**

**SPEC. SYMBOL:**

**SUBMITTAL SHEET**

**FFU**

**BTR-BC-ECM**

**265798**

**MAR 2020**

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

STANDARD CONSTRUCTION:
- FORWARD CURVED BLOWER WHEEL
- PSC MOTOR, 50/60 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 HGMF FRAME.
SEE HGMF SUBMITTAL (271137)
- 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
- 20"x20" RECTANGULAR INLET COLLAR
- WASHABLE PRE-FILTER (NON-DUCTED UNITS)

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

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

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 FFUCS SUBMITTAL 269849)
- 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)

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

FILTER AND MOTOR STATUS LIGHTS:
- FL OPTION - GREEN/YELLOW FACE MOUNTED FILTER STATUS LED
- ML OPTION - GREEN/RED FACE MOUNTED MOTOR STATUS LED
- FL+ML OPTION - TRI-COLOR FACE MOUNTED FILTER AND MOTOR STATUS LED

IMPERIAL UNITS (INCHES)

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SI UNITS (mm)

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**Fan Filter Unit**

**Bench Top Replaceable Filter, Backward Curved Wheel, PSC Motor**

**STANDARD CONSTRUCTION:**
- Backward Curved Blower Wheel
- PSC Motor, 50/60 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 HGMF Frame.

SEE HG MF SUBMITTAL (271137)
- 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 FFUCS Submittal 269849)
- Power Cord (8ft 115V or 6ft 277V)
- 10" Round Inlet Duct Collar
- 1" 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)
- MERV 8 Pre-Filter with Side Access Housing (Ducted Units Only)

**FILTER AND MOTOR STATUS LIGHTS:**
- FL Option - Green/Yellow Face Mounted Filter Status LED
- ML Option - Green/Red Face Mounted Motor Status LED
- FL+ML Option - Tri-Color Face Mounted Filter and Motor 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.

**SECTIONS:**
- Imperial Units (Inches)
- SI Units (mm)

**FILTER AREA:**

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**PROJECT:**

**ENGINEER:**

**CUSTOMER:**

**SUBMITTAL DATE:**

**SPEC. SYMBOL:**

**265802**

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**PRODUCT INFORMATION:**

- Bench Top Replaceable Filter
- Backward Curved Wheel
- 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)
- Washable Pre-Filter (Non-Ducted Units)

**SPECIFICATIONS:**

- Dimensions (Inches):
  - Center Divider 2 X 0.315 Sealed Port
  - 20"x20" Rectangular Inlet Collar

- Dimensions (MM):
  - Center Divider 610mm
  - 508mm Rectangular Inlet Collar

**FILTER INSTALLATION LATCHES:**

**BENCH TOP REPLACEABLE FILTER FIELD INSTALLED BY OTHERS**

**UPSTREAM GASKET:**

**DISCONNECT SWITCH:**

**FILTER INSTALLATION LATCHES:**

**BENCH TOP REPLACEABLE FILTER INSTALLATION LATCHES (OPTIONAL)**

**CENSUS ENCLOSURE FOR MOTOR AND FILTER STATUS (OPTIONAL)**

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