FEATURES:

- FAN FILTER UNIT WITH INTEGRATED HIGH PERFORMANCE LED LIGHTS
- OPTIONAL HGMF - HOSPITAL GRADE MOUNTING FRAME FOR SURFACE MOUNT INSTALLATION
- COMPLETE CONTROL AND MONITORING VIA BACnet
ULTRA FAN FILTER UNIT WITH INTEGRATED LED LIGHTING
CONSTRUCTION DETAILS AND OPTIONS

STANDARD CONSTRUCTION
- EXTRUDED ALUMINUM FILTER FRAME WITH URETHANE GEL
- TWO STAINLESS STEEL RETAINER CABLES PER UNIT
- DIFFUSER FACE SECURED WITH QUARTER TURN FASTENERS
- 14 GA (.064 THICK) ALUMINUM PLENUM
- EXTRUDED ALUMINUM OUTER FRAME AND DIFFUSER FRAME
- ZINC PLATED EYE BOLTS FOR HANGING
- MOTOR-BLOWER ACCESSIBLE FROM ROOMSIDE AND TOPSIDE
- STATIC PRESSURE AND AEROSOL SAMPLE PORT
- EC MOTOR, 50/60 Hz, 1 PHASE

FINISH
- B12 STANDARD WHITE

INLET SIZES
- NONE (UNDUCTED)
- 10" ROUND
- 12" ROUND
- 14" ROUND

PRE-FILTER
- WASHABLE PRE-FILTER
- MERV 8 PRE-FILTER

FILTER
- HEPA - 2" - IEST RP CC201 TYPE J
- ULPA - 2" - IEST RP CC201 TYPE F

WHEEL TYPE
- FORWARD CURVE BLOWER WHEEL
- BACKWARD CURVE BLOWER WHEEL (NOT AVAILABLE FOR 2x2)

FAN POWER VOLTAGE
- 115V
- 208V
- 240V
- 277V

FAN CONTROLLER
- EC MOTOR STANDARD SPEED CONTROLLER
- BACnet FLOW CONTROLLER

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

MOTOR PROGRAM
- CONSTANT FLOW (NOT AVAILABLE FOR BACKWARD CURVE BLOWER WHEEL)
- CONSTANT TORQUE

OPTIONS
- WALL MOUNTED SPEED CONTROL (SEE FFUCS SUBMITTAL 269849)
- 3/8" NPT AEROSOL INJECTION PORT (SEE INJ DETAILS ON SHEET 5)

FORWARD CURVE BLOWER WHEEL

<table>
<thead>
<tr>
<th>NOMINAL UNIT SIZE</th>
<th>WIDTH (W)</th>
<th>LENGTH (L)</th>
<th>HEIGHT (H)</th>
<th>MAX AMPS FAN (115/240/277)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24x36</td>
<td>30.625</td>
<td>30.625</td>
<td>17.000</td>
<td>2.73/2.1/1.8</td>
</tr>
<tr>
<td>24x48</td>
<td>30.625</td>
<td>47.625</td>
<td>17.000</td>
<td>4.0/2.0/1.8</td>
</tr>
</tbody>
</table>

BACKWARD CURVE BLOWER WHEEL

<table>
<thead>
<tr>
<th>NOMINAL UNIT SIZE</th>
<th>WIDTH (W)</th>
<th>LENGTH (L)</th>
<th>HEIGHT (H)</th>
<th>MAX AMPS FAN (115/240/277)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24x36</td>
<td>30.625</td>
<td>30.625</td>
<td>17.000</td>
<td>4.0/2.0/1.8</td>
</tr>
</tbody>
</table>

TRANSLUCENT PERFORATED POLYCARBONATE DIFFUSER FACE
13% FREE AREA
ULTRA FAN FILTER UNIT WITH INTEGRATED LED LIGHTING

LED LIGHT DETAILS

LED LIGHTING SPECIFICATIONS
- LED lighting integrated into each diffuser module
- IP67 rated LED strip with quick connectors
- Color rendering index (CRI) 90+
- L80 > 60,000 hrs.
- For IES photometric files visit: www.priceindustries.com/criticalenvironments/products/uffu

LED COLOR TEMPERATURE
☐ 5000K (5000 Kelvin)

LED ROWS
☐ Single Row
☐ Double Row

LISTINGS:
- UL 507 Standard for Electric Fans
- UL 2043 Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces
- UL2108 Low Voltage Lighting System
- UL750 Light Emitting Diode (LED) Equipment for Use in Lighting Products
- UL1310 Class 2 Power Units
- UL94 Flammability of Plastic Materials for Parts in Devices and Appliances
- IP67 Rated Ingress Protection Against Dust and Liquids
- MIL-STD-461 for Electromagnetic Compatibility

LIGHTING MAXIMUM AMP DRAW

<table>
<thead>
<tr>
<th>NOMINAL UNIT SIZE</th>
<th>MAX. LIGHTING AMPS (115/240/277)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single Row</td>
<td>Double Row</td>
</tr>
<tr>
<td>24x24</td>
<td>1.2/0.6/0.5</td>
</tr>
<tr>
<td>24x36</td>
<td>1.2/0.6/0.5</td>
</tr>
<tr>
<td>36x48</td>
<td>1.2/0.6/0.5</td>
</tr>
</tbody>
</table>
ULTRA FAN FILTER UNIT WITH INTEGRATED LED LIGHTING

FILTER DETAILS

- FILTER PLEATS RUN PARALLEL TO THE WIDTH (W) DIMENSION
- DIMENSIONS L & W TOLERANCES ± 1/16"
- FILTERS COME WITH GEL SEAL FILLED CHANNEL
- EXPANDED PAINTED WHITE SCREEN ON THE DOWNSTREAM SIDE
- FRAME DETAILS:
  - MATERIAL: ANODIZED EXTRUDED ALUMINUM
  - THICKNESS: 1 1/16" (MINIMUM)
- HEPA FILTERS EFFICIENCY AND LEAK SCAN TESTED TO IEST RP CC001 TYPE J
- ULPA FILTERS EFFICIENCY AND LEAK SCAN TESTED TO IEST RP CC001 TYPE F
- FILTER PACKAGED SEPARATELY FROM DIFFUSER FOR JOB SITE INSTALLATION BY OTHERS

NOTES

FILTER WITH GEL SEAL INSTALLS ROOMSIDE INTO UFFU KNIFE EDGE FRAME

LIGHT DEFLECTOR BAFFLE

DIFFUSER FACE SECURED WITH STAINLESS STEEL 1/4 TURN FASTENERS

TRANSLUCENT PERFORATED POLYCARBONATE DIFFUSER FACE 13% FREE AREA

ACTUAL FILTER SIZE

<table>
<thead>
<tr>
<th>WIDTH (W)</th>
<th>LENGTH (L)</th>
<th>HEIGHT (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.69</td>
<td>20.69</td>
<td>2.88</td>
</tr>
<tr>
<td>20.69</td>
<td>32.69</td>
<td>2.88</td>
</tr>
<tr>
<td>20.69</td>
<td>44.69</td>
<td>2.88</td>
</tr>
</tbody>
</table>

VISIT PRICE INDUSTRIES WEBSITE FOR FILTER QUICK START GUIDE
UFFU
ULTRA FAN FILTER UNIT WITH INTEGRATED LED LIGHTING
DETAIL VIEWS

AEROSOL/STATIC PORT DETAIL

- LED LIGHTS BELOW INJ PORT MUST BE REMOVED TO ACCESS THE PORT. FOR DETAILS ON REMOVING LEDS, SEE UCA MANUAL HERE
- SEE INJ - AEROSOL INJECTION PORT MANUAL HERE

(filter name)
(filter gel seal)
(knife edge)
(light deflector baffle)

AEROSOL SAMPLE AND STATIC PRESSURE PORT
FILTER HOLD DOWN TAB
3/8" NPT AEROSOL INJECTION PORT

© Copyright Price Industries 2021
06-07-2021
ULTRA FAN FILTER UNIT WITH INTEGRATED LED LIGHTING

MOUNTING DETAILS

T-BAR MOUNTING

SURFACE MOUNTING

NOTES:
- LAY IN CEILING INSTALLATION ONLY. UNIT SIZE DESIGNED FOR 1" WIDE T-BAR OR 1.5" WIDE T-BAR.
- FOR SURFACE MOUNT INSTALLATION ORDER SEPARATE HOSPITAL GRADE MOUNTING FRAME. SEE HGMF SUBMITTAL HERE.

FOR 15/16" (23), 1-1/2" (38) CLEANROOM TEE INSTALLED BY OTHERS

SURFACE MOUNTING USING HGMF OR MOUNTING FRAME BY OTHERS

© Copyright Price Industries 2021
ULTRA FAN FILTER UNIT WITH INTEGRATED LED LIGHTING

- 0-10V DIMMER SHIPS LOOSE. THE TOTAL 0-10V CONTROL SIGNAL WIRING FOR THIS CONTROL SHOULD NOT EXCEED 500 ft. DO NOT USE WIRE SMALLER THAN 20 AWG.
- SEE UCA (ULTRA COMPONENTS AND ACCESSORIES) SUBMITTAL HERE
- REFERENCE LED WIRING DIAGRAMS HERE
- REFERENCE FAN WIRING DIAGRAMS HERE

INSTALLATION WORK AND ELECTRICAL WIRING MUST BE COMPLETED BY A CERTIFIED ELECTRICIAN AND/OR QUALIFIED PERSON(S) IN ACCORDANCE WITH APPLICABLE ELECTRICAL CODES AND STANDARDS

© Copyright Price Industries 2021
UFFU
ULTRA FAN FILTER UNIT WITH INTEGRATED LED LIGHTING

BAS - BUILDING AUTOMATION SYSTEM - TYPICAL WIRING DETAILS

- PRE WIRED FACTORY CONNECTION
- FIELD CONNECTION
- G GROUND
- N NEUTRAL
- L LINE CONNECTION

HIGH VOLTAGE FIELD CONNECTIONS

RELAY SWITCH

B.A.S. 0-10V DIMMING SIGNAL

B.A.S. ON/OFF SIGNAL

INSTALLATION WORK AND ELECTRICAL WIRING MUST BE COMPLETED BY A CERTIFIED ELECTRICIAN AND/OR QUALIFIED PERSON(S) IN ACCORDANCE WITH APPLICABLE ELECTRICAL CODES AND STANDARDS

- SEE UCA (ULTRA COMPONENTS AND ACCESSORIES) SUBMITTAL HERE
- REFERENCE LED WIRING DIAGRAMS HERE
- REFERENCE FAN WIRING DIAGRAMS HERE

© Copyright Price Industries 2021
- SEE UCA (ULTRA COMPONENTS AND ACCESSORIES) SUBMITTAL HERE
- REFERENCE LED WIRING DIAGRAMS HERE
- REFERENCE FAN WIRING DIAGRAMS HERE

INSTALLATION WORK AND ELECTRICAL WIRING MUST BE COMPLETED BY A CERTIFIED ELECTRICIAN AND/OR QUALIFIED PERSON(S) IN ACCORDANCE WITH APPLICABLE ELECTRICAL CODES AND STANDARDS
ULTRA FAN FILTER UNIT WITH INTEGRATED LED LIGHTING
PHOTOMETRIC ANALYSIS - EXAMPLE LAYOUTS

THE CALCULATED VALUES DO NOT INCLUDE OR ACCOUNT FOR ADDITIONAL LIGHTING.
LIGHTING ANALYSIS HAS BEEN PERFORMED USING LAB TESTED IES FILES AND STANDARD ROOM REFLECTANCE VALUES.
LIGHTING CALCULATIONS ARE ESTIMATED USING BEST PRACTICE AND MAY DIFFER SLIGHTLY FROM ACTUAL FIELD CONDITIONS.

ROOM DIMENSION PARAMETERS:
800 SQ FT
10 FT CEILING HEIGHT
3 FT WORKPLANE

ROOM REFLECTANCES:
CEILINGS: 80%
WALLS: 50%
FLOORS: 20%

THE TABLES REFLECT THE PERCENTAGE OF UFFU CEILING COVERAGE
REQUIRED TO MEET AVERAGE ILLUMINANCE (FC) REQUIREMENTS
- 50 FC AVERAGE ILLUMINATION WITH 2 ROWS OF LEDS PER MODULE SHOWN

<table>
<thead>
<tr>
<th>% CEILING COVERAGE REQUIREMENT</th>
<th>24 x 48 UFFU MODULES</th>
<th>24 x 24 UFFU MODULES</th>
</tr>
</thead>
<tbody>
<tr>
<td>TARGET AVERAGE ILLUMINANCE (FC)</td>
<td>50 FC</td>
<td>75 FC</td>
</tr>
<tr>
<td>NUMBER OF ROWS OF LED LIGHTS PER MODULE</td>
<td>SINGLE ROW</td>
<td>DUAL ROW</td>
</tr>
<tr>
<td></td>
<td>21%</td>
<td>12%</td>
</tr>
<tr>
<td></td>
<td>32%</td>
<td>16%</td>
</tr>
<tr>
<td></td>
<td>45%</td>
<td>24%</td>
</tr>
</tbody>
</table>
MANUALS
- FFU/PURAFLO INSTALLATION MANUAL
- FFU/PURAFLO WIRING DIAGRAMS
- BACnet WIRING GUIDELINES FOR PRICE CONTROLS MANUAL
- BFC BACnet FLOW CONTROLLER MANUAL
- FTR ROOM-SIDE REPLACEABLE FILTER (RSR) QUICK START GUIDE
- INJ AEROSOL INJECTION PORT USER MANUAL
- INJ REMOTE AEROSOL INJECTION PORT INSTALLATION MANUAL
- LEKD FILTER STATUS INDICATOR KIT INSTALLATION MANUAL
- UCA ULTRA COMPONENTS AND ACCESSORIES MANUAL
- URDC ULTRA DRIVER CABINET MANUAL

SUBMITTALS
- FFU FAN FILTER UNIT CONTROLS SUBMITTAL
- FTR REPLACEMENT FILTER SUBMITTAL
- HGMF HOSPITAL GRADE MOUNTING FRAME SUBMITTAL

CATALOG / PERFORMANCE
- FFU FAN FILTER UNIT CATALOG
- FFU FAN FILTER UNIT PERFORMANCE DATA

SPECIFICATIONS
- FFU FAN FILTER UNIT SPECIFICATION
- FFU FAN FILTER UNIT EXHAUST FLOW SPECIFICATION

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

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

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

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