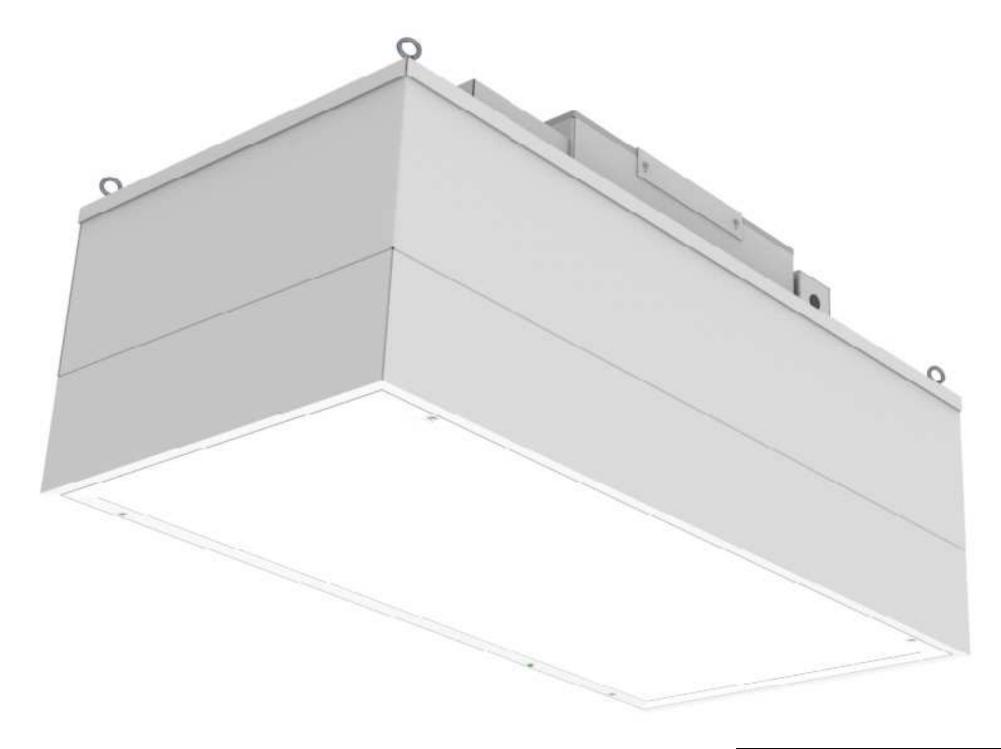
ULTRA FAN FILTER UNIT WITH INTEGRATED LED LIGHTING

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







90+ Im/W LED



hours



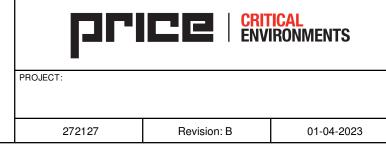




LED

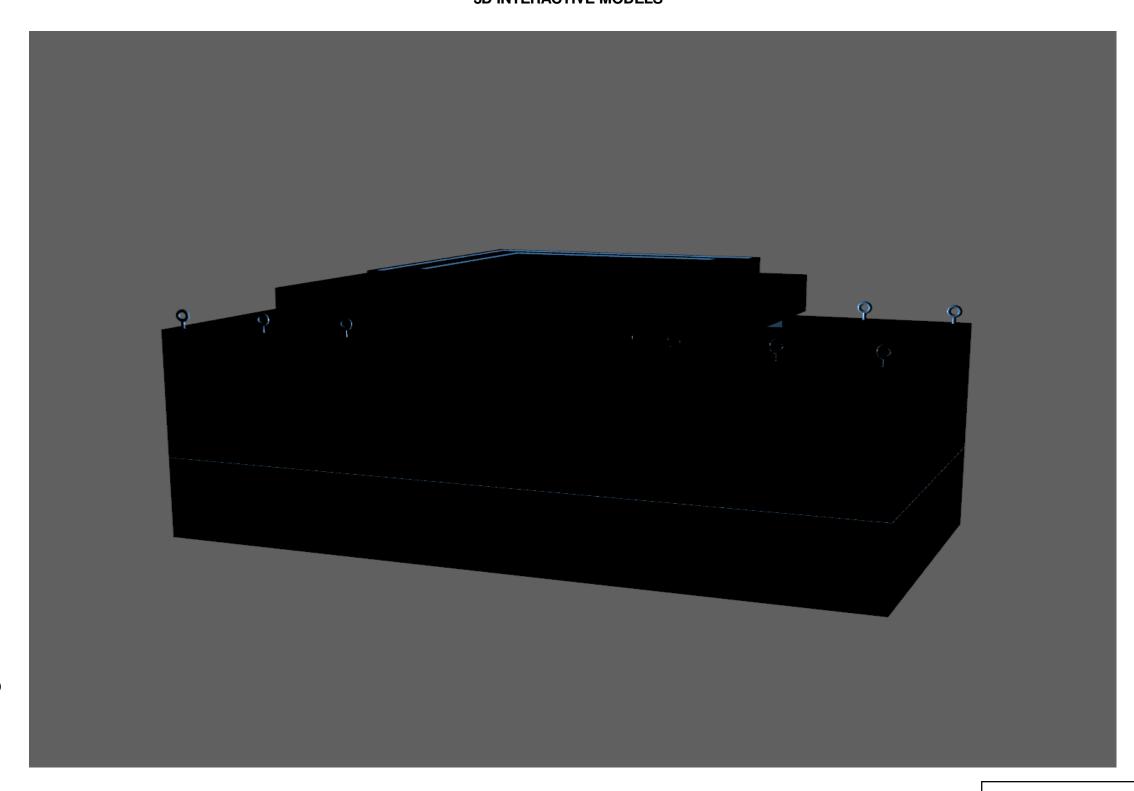


90+ CRI

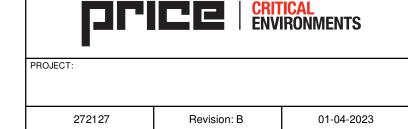




ULTRA FAN FILTER UNIT WITH INTEGRATED LED LIGHTING 3D INTERACTIVE MODELS



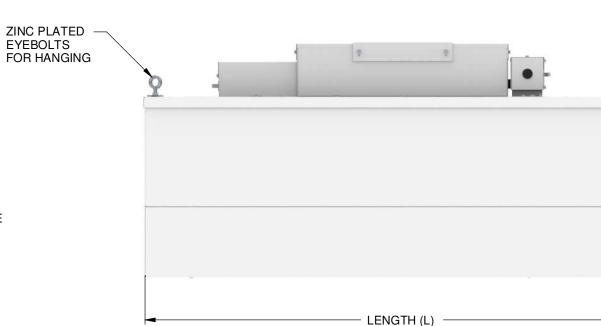
PRODUCT CONFIGURATIONS (CLICK BUTTONS TO TOGGLE VIEWS)

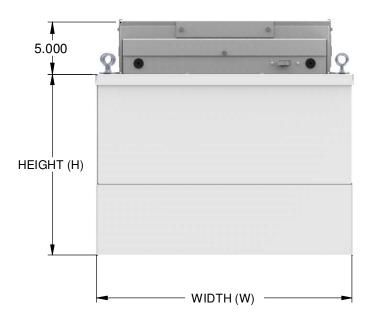


- USE THE SCROLL WHEEL TO ZOOM

- HOLD DOWN THE LEFT MOUSE BUTTON TO ROTATE
- HOLD DOWN CTRL AND LEFT MOUSE BUTTON TO MOVE

ULTRA FAN FILTER UNIT WITH INTEGRATED LED LIGHTING CONSTRUCTION DETAILS AND OPTIONS





FINISH

- B12 STANDARD WHITE

- EC MOTOR, 50/60 Hz, 1 PHASE

STANDARD CONSTRUCTION

- 14 GA (.064 THICK) ALUMINUM PLENUM

- ZINC PLATED EYE BOLTS FOR HANGING

- STATIC PRESSURE AND AEROSOL SAMPLE PORT

INLET SIZES

- □ NONE (UNDUCTED)
- ☐ 10" ROÙND ☐ 12" ROUND
- ☐ 14" ROUND

PRE-FILTER

- □ WASHABLE PRE-FILTER
- ☐ MERV 8 PRE-FILTER

FILTER

- ☐ HEPA 2" IEST RP CC001 TYPE J
- ☐ ULPA 2" IEST RP CC001 TYPE F

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

- EXTRUDED ALUMINUM FILTER FRAME WITH URETHANE GEL - TWO STAINLESS STEEL RETAINER CABLES PER UNIT

- DIFFUSER FACE SECURED WITH QUARTER TURN FASTENERS

- EXTRUDED ALUMÍNUM OUTER FRAME AND DIFFUSER FRAME

- MOTOR/BLOWER ACCESSIBLE FROM ROOMSIDE AND TOPSIDE

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

- ☐ WALL MOUNTED SPEED CONTROL (SEE FFUCS SUBMITTAL 269849)
- ☐ 1/2" DIA. BARBED AEROSOL INJECTION PORT (SEE INJ DETAILS ON SHEET 6)

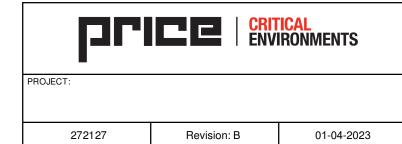
TRANSLUCENT PERFORATED POLYCARBONATE DIFFUSER FACE 13% FREE AREA

FORWARD CURVE BLOWER WHEEL

NOM INAL UNIT SIZE	WIDTH (W)	LENGTH (L)	HEIGHT (H)	MAX AMPS FAN (115/240/277)
24x24	23.625	23.625	17.000	2.7/1.8/1.5
24x36	23.625	35.625	17.000	4.8/2.8/2.8
24x48	23.625	47.625	17.000	5.0/3.3/2.9

BACKWARD CURVE BLOWER WHEEL

NOMINAL UNIT SIZE		LENGTH (L)	HEIGHT (H)	MAX AMPS FAN (115/240/277)
24x36	23.625	35.625	17.000	4.0/2.2/1.8
24x 48	23.625	47.625	17.000	4.0/2.0/1.8



ULTRA FAN FILTER UNIT WITH INTEGRATED LED LIGHTING LED LIGHT DETAILS



LIGHTING MAXIMUM AMP DRAW

NOM INAL UNIT SIZE	MAX LIGHTING AMPS (115/240/277)	
S. II. OILL	SINGLE ROW	DOUBLE ROW
24x24	1.2/0.6/0.5	1.2/0.6/0.5
24x36	1.2/0.6/0.5	2.4/1.1/1.0
24x48	1.2/0.6/0.5	2.4/1.1/1.0

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

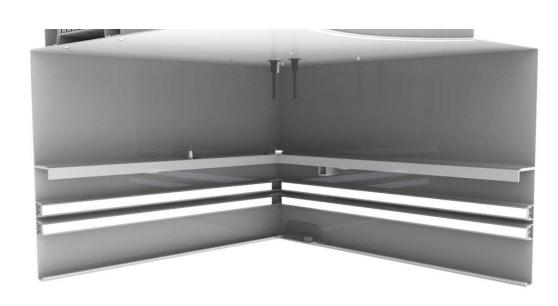
- ☐ SINGLE ROW
- ☐ DOUBLE ROW

- **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
 UL8750 LIGHT EMITTING DIODE (LED) EQUIPMENT FOR USE IN LIGHTING PRODUCTS
 UL1310 CLASS 2 POWER UNITS

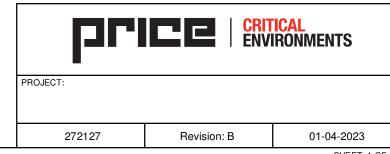
- UL94 FLAMMABILITY OF PLASTIC MATERIALS FOR PARTS IN DEVICES AND APPLIANCES
- IP67 RATED INGRESS PROTECTION AGAINST DUST AND LIQUIDS
- MIL-STD-461 FOR ELECTROMAGNETIC COMPATIBILITY



SINGLE ROW LED LIGHTS

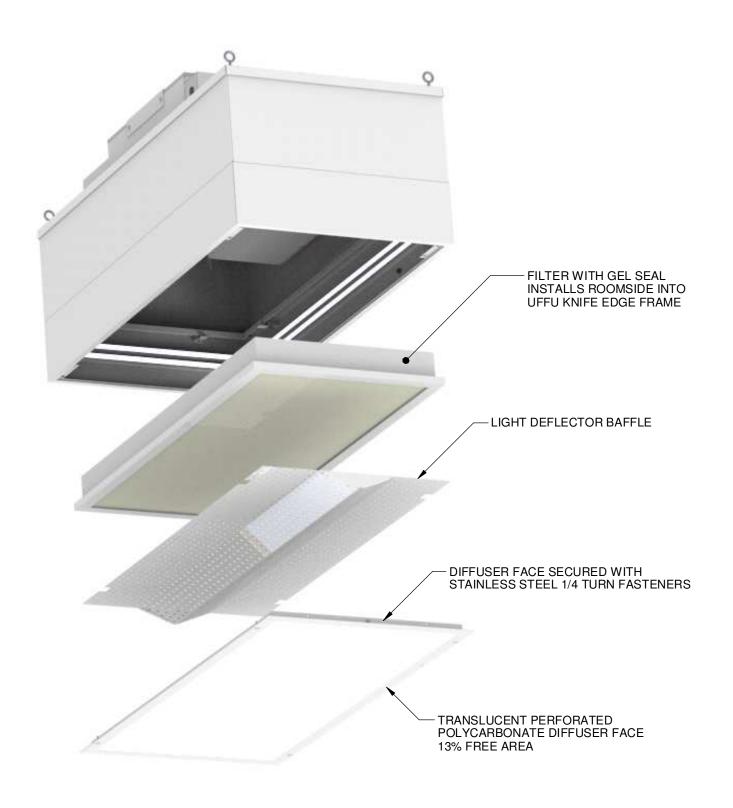


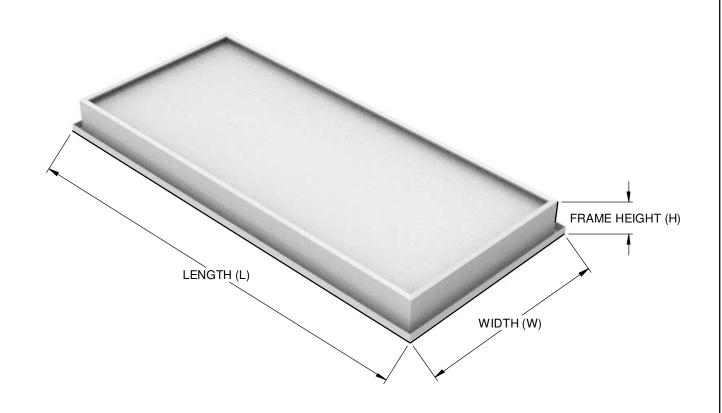
DOUBLE ROW LED LIGHTS



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ULTRA FAN FILTER UNIT WITH INTEGRATED LED LIGHTING FILTER DETAILS

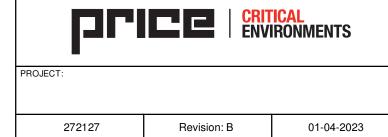




- FILTER PLEATS RUN PARALLEL TO THE WIDTH (W) DIMENSION

- 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: ¹/₁₆" (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 SEPERATELY FROM DIFFUSER FOR JOB SITE **INSTALLATION BY OTHERS**

ACTUAL FILTER SIZE			
WIDTH (W)	LENGTH (L)	HEIGHT (H)	
20.69	20.69	2.88	
20.69	32.69	2.88	
20.69	44.69	2.88	

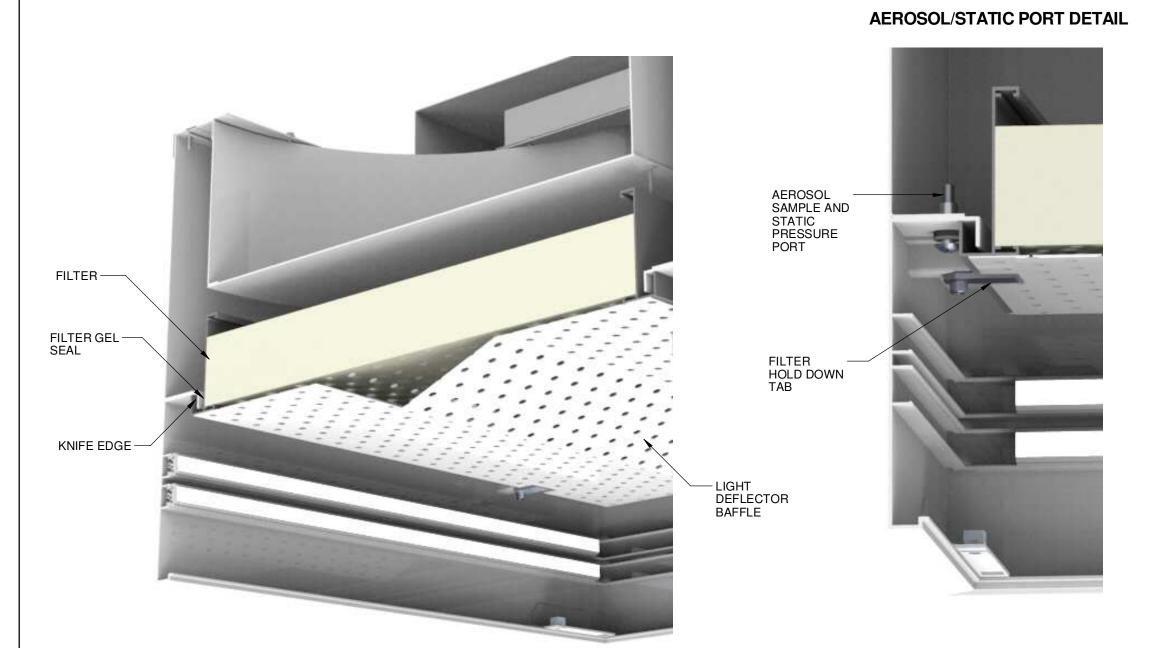


VISIT PRICE INDUSTRIES WEBSITE FOR FILTER QUICK START GUIDE

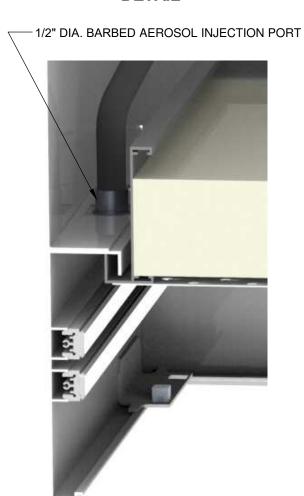
https://www.priceindustries.com/content/uploads/assets/literature/manuals/section%20e/ftr-room-side-replaceable-filter-rsr-quick-start-guide.pdf

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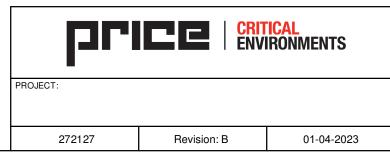
ULTRA FAN FILTER UNIT WITH INTEGRATED LED LIGHTING DETAIL VIEWS



☐ INJ - AEROSOL INJECTION PORT DETAIL

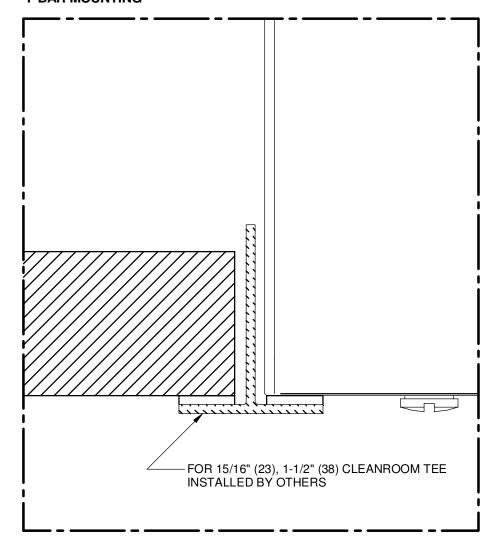


- LED LIGHTS BELOW INJ PORT MUST BE REMOVED TO ACCESS THE PORT. FOR DETAILS ON REMOVING LEDs, SEE UCA MANUAL HERE
- SEE INJ AEROSOL INJECTION PORT MANUAL HERE

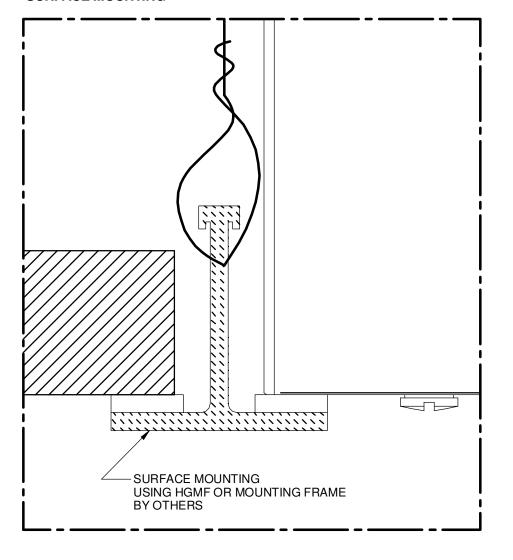


ULTRA FAN FILTER UNIT WITH INTEGRATED LED LIGHTING MOUNTING DETAILS

T-BAR MOUNTING



SURFACE MOUNTING



NOTES

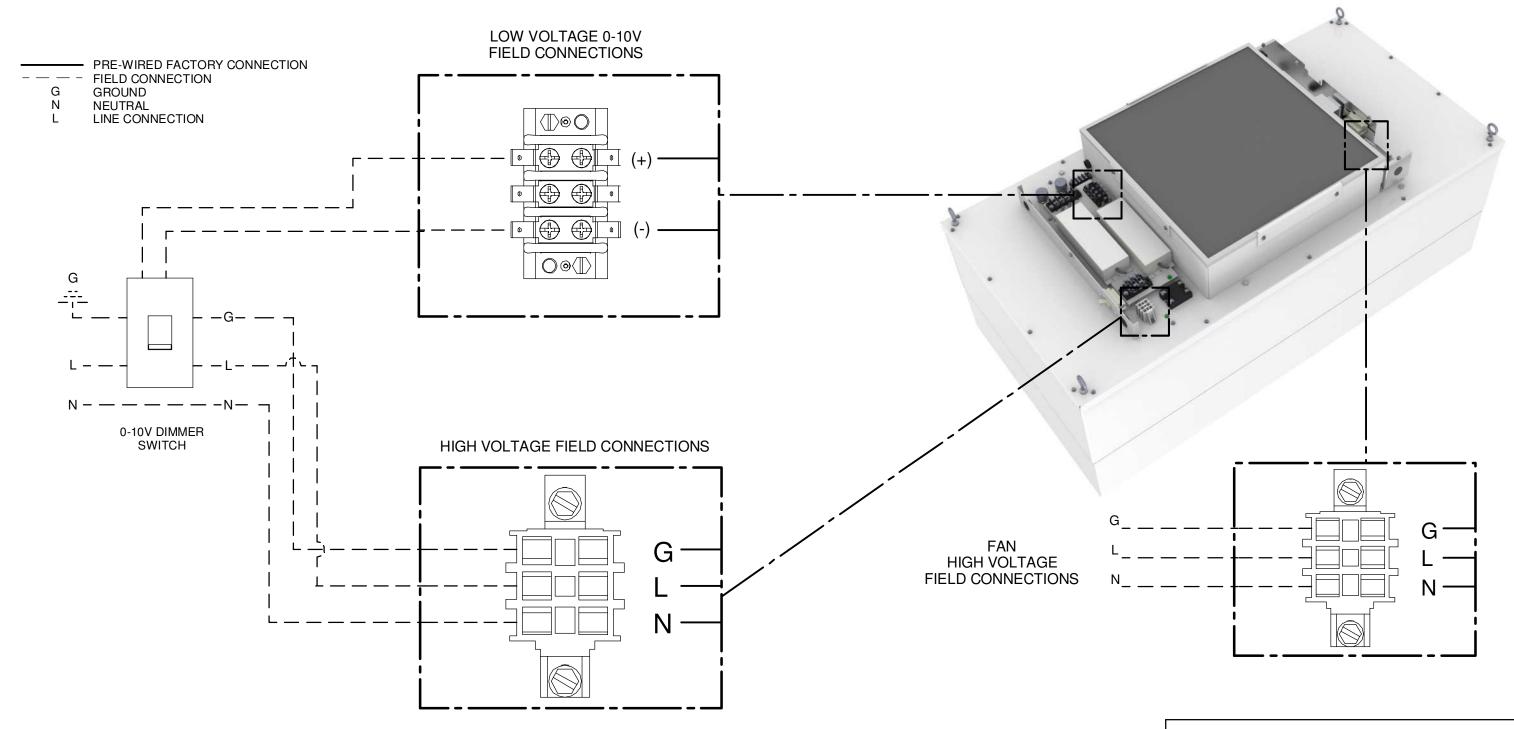
- LAY IN CEILING INSTALLATION ONLY. UNIT SIZE DESIGNED FOR 1" WIDE T-BAR OR 1.5" WIDE T-BAR.
- FOR SURFACE MOUNT INSTALLATION ORDER SEPARATE HOSPITAL GRADE MOUNTING FRAME. SEE HGMF SUBMITTAL HERE.

PROJECT:		
272127	Revision: B	01-04-2023

CRITICAL ENVIRONMENTS

ULTRA FAN FILTER UNIT WITH INTEGRATED LED LIGHTING

☐ DIMMER - TYPICAL WIRING DETAILS



- 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

Revision: B

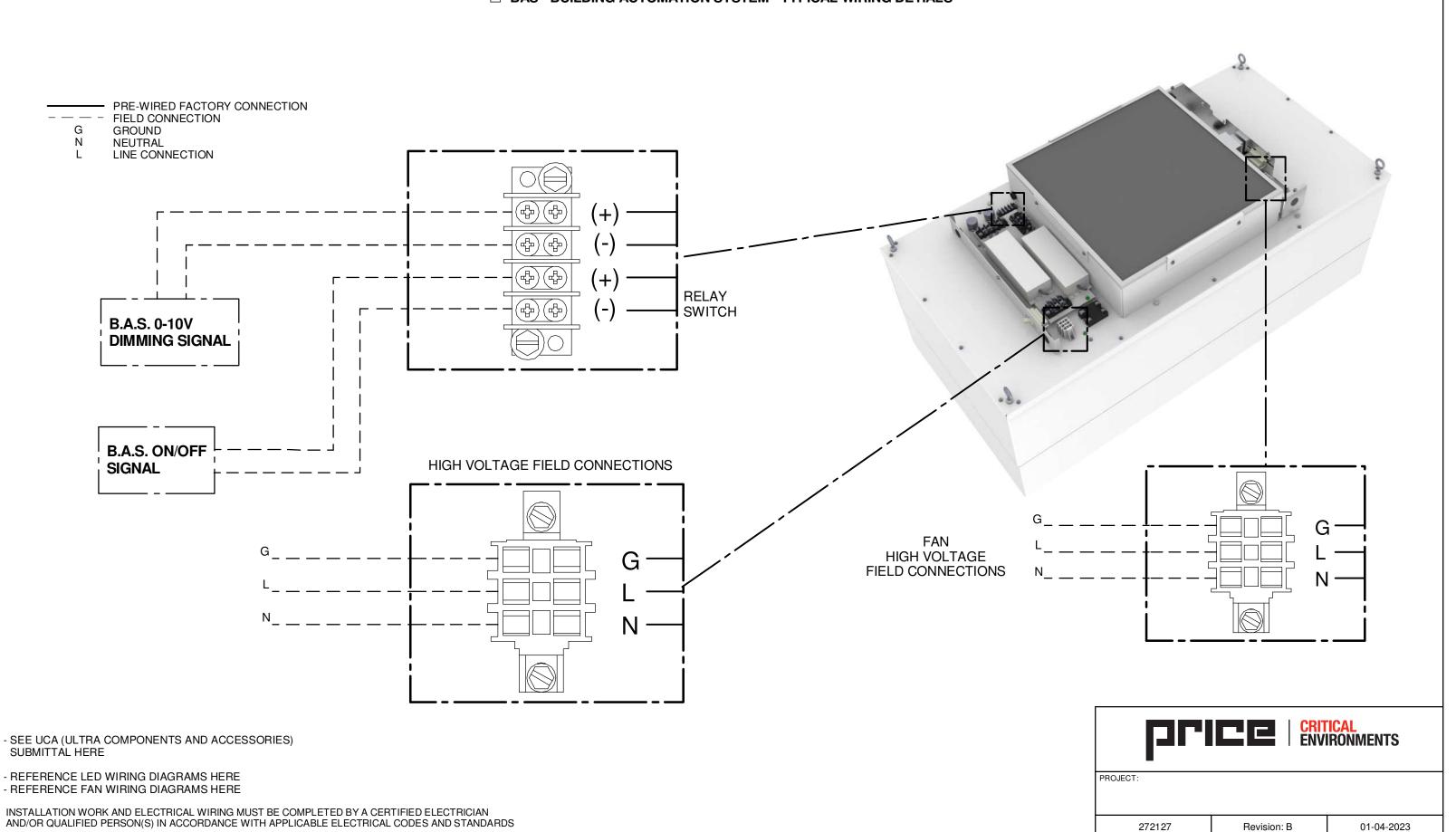
272127

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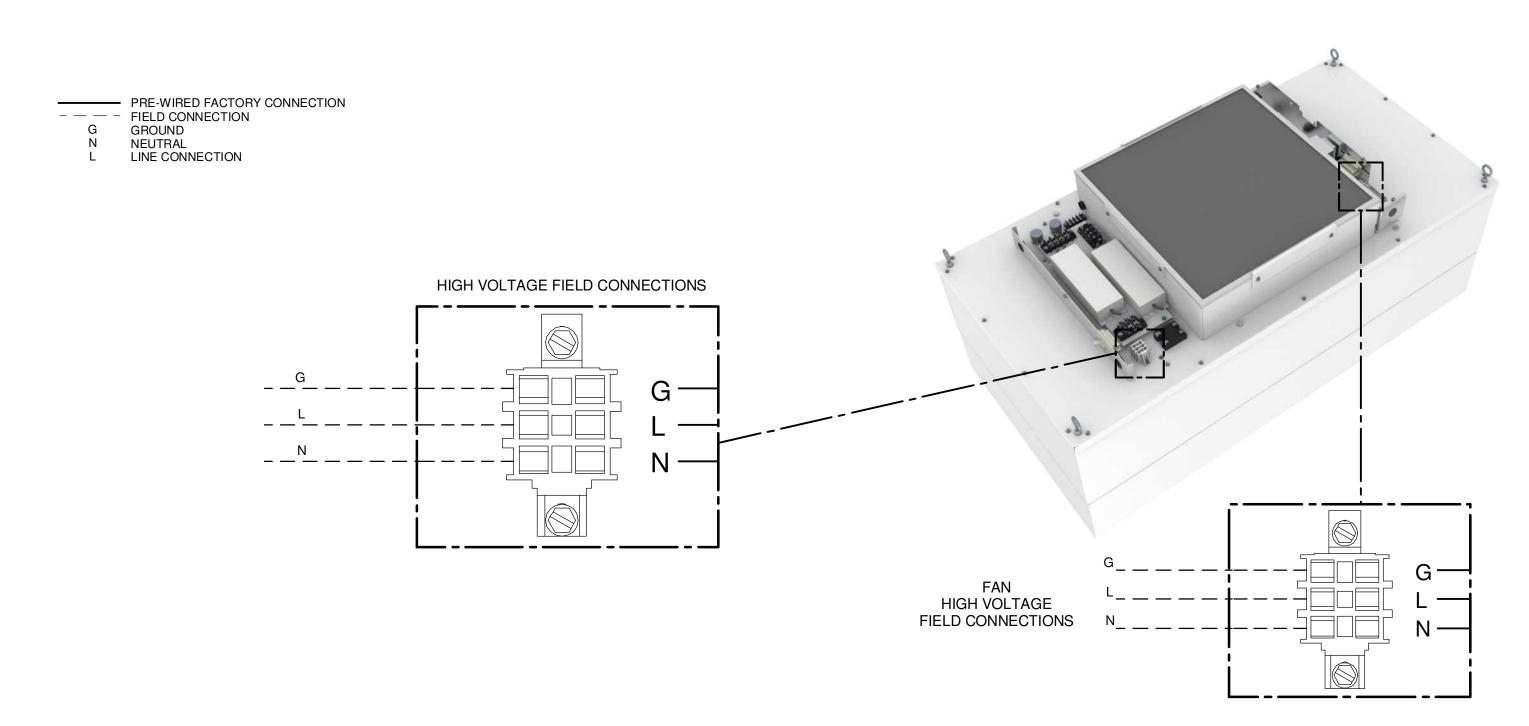
ULTRA FAN FILTER UNIT WITH INTEGRATED LED LIGHTING

☐ BAS - BUILDING AUTOMATION SYSTEM - TYPICAL WIRING DETIALS



ULTRA FAN FILTER UNIT WITH INTEGRATED LED LIGHTING

☐ BACNET - TYPICAL WIRING DETAILS

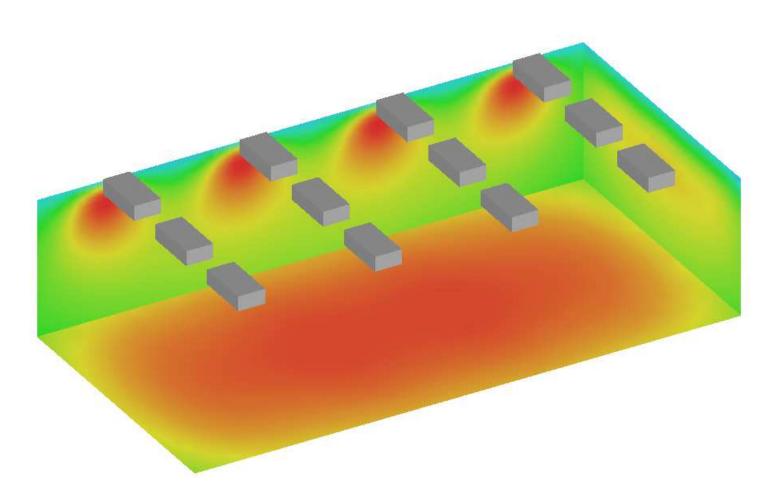


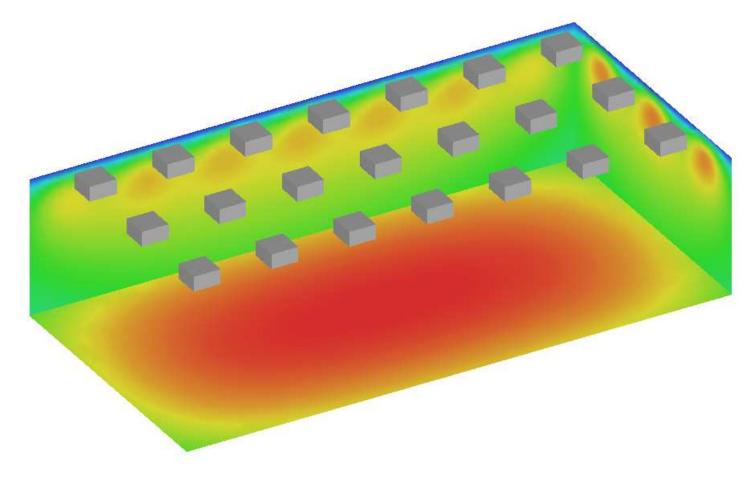
- SEE UCA (ULTRA COMPONENTS AND ACCESSORIES) SUBMITTAL HERE
- REFERENCE LED WIRING DIAGRAMS HERE REFERENCE FAN WIRING DIAGRAMS HERE

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





% CEILING COVERAGE REQUIREMENT			
24 x 48 UFFU MODULES			
TARGET AVERAGE	NUMBER OF ROWS OF LED		
ILLUMINANCE (FC)	LIGHTS PER MODULE		
	SINGLE ROW	DUAL ROW	
50 FC	21%	12%	
75 FC	32%	18%	
100 FC	45%	24%	

% CEILING COVERAGE REQUIREMENT			
24 x 24 UFFU MODULES			
TARGET AVERAGE NUMBER OF ROWS OF LED			
ILLUMINANCE (FC) LIGHTS PER MODULE		R MODULE	
	SINGLE ROW	DUAL ROW	
50 FC	39%	21%	
75 FC	57%	32%	
100 FC	78%	42%	

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

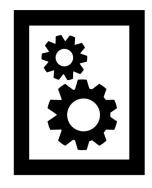
THE CALCULATED VALUES DO NOT INCLUDE OR ACCOUNT FOR ADDITIONAL LIGHTING.
LIGHTING ANALYSIS HAS BEEN PERFORMED USING LAB TESTED .IES FILES AND STANDARD ROOM REFLECTANCE VALUES.

LIGHTING CALCULATIONS ARE ESTIMATED USING BEST PRACTICE AND MAY DIFFER SLIGHTLY FROM ACTUAL FIELD CONDITIONS.

PROJECT: 272127 Revision: B 01-04-2023

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ULTRA FAN FILTER UNIT WITH INTEGRATED LED LIGHTING SUPPORTING CONTENT



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
LEDK FILTER STATUS INDICATOR KIT INSTALLATION MANUAL
UCA ULTRA COMPONENTS AND ACCESSORIES MANUAL
URDC ULTRA DRIVER CABINET MANUAL



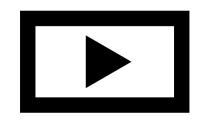
SUBMITTALS

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



VIDEOS

FFU FAN FILTER UNIT FUNDAMENTALS

FFU FAN FILTER UNIT SYSTEM DESIGN

FFU FAN FILTER UNIT CONTROL OPTIONS

BFC BACnet FLOW CONTROLLER START-UP GUIDE AND BASICS

FILTER TESTING & AEROSOL INJECTION

HIGH PERFORMANCE MANUFACTURING ON CRITICAL ENVIRONMENTS PRODUCTS

LIGHTING STANDARDS IN OPERATING ROOMS & CLEANROOMS

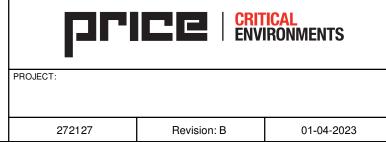


SPECIFICATIONS

FFU FAN FILTER UNIT SPECIFICATION
FFU FAN FILTER UNIT EXHAUST FLOW SPECIFICATION



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



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