

# CARES

## CRITICAL AREA RECIRCULATION/EXHAUST SYSTEM



### FEATURES:

- THE PATENTED CARES (Pat. 2023/0083631) COMBINES THE CAPABILITIES OF A REVERSE FLOW FAN FILTER UNIT (FFU) WITH A ONE WAY, FLUSH FACE RADIAL FLOW DIFFUSER TO MANAGE THE AIRFLOW FOR AN ENTIRE PATIENT ROOM
- THE CARES IS A CENTRAL COMPONENT OF AN ISOLATION-READY PATIENT ROOM SOLUTION THAT:
  - ALLOWS A HOSPITAL TO BUILD ONE ROOM THAT CAN OPERATE WITH THE AIR DISTRIBUTION REQUIREMENTS OF A STANDARD PATIENT ROOM OR A NEGATIVE PRESSURE ISOLATION ROOM
  - CONVERTS THE AIR DISTRIBUTION SYSTEM TO ISOLATION MODE AT THE TOUCH OF A BUTTON ELIMINATING THE NEED FOR TIME CONSUMING FIELD MODIFICATIONS
- EASY MAINTENANCE IS REALISED WITH ROOM-SIDE REPLACEABLE HEPA FILTER AND MERV 8 PRE-FILTER



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**PRICE** | **CRITICAL ENVIRONMENTS**

PROJECT:

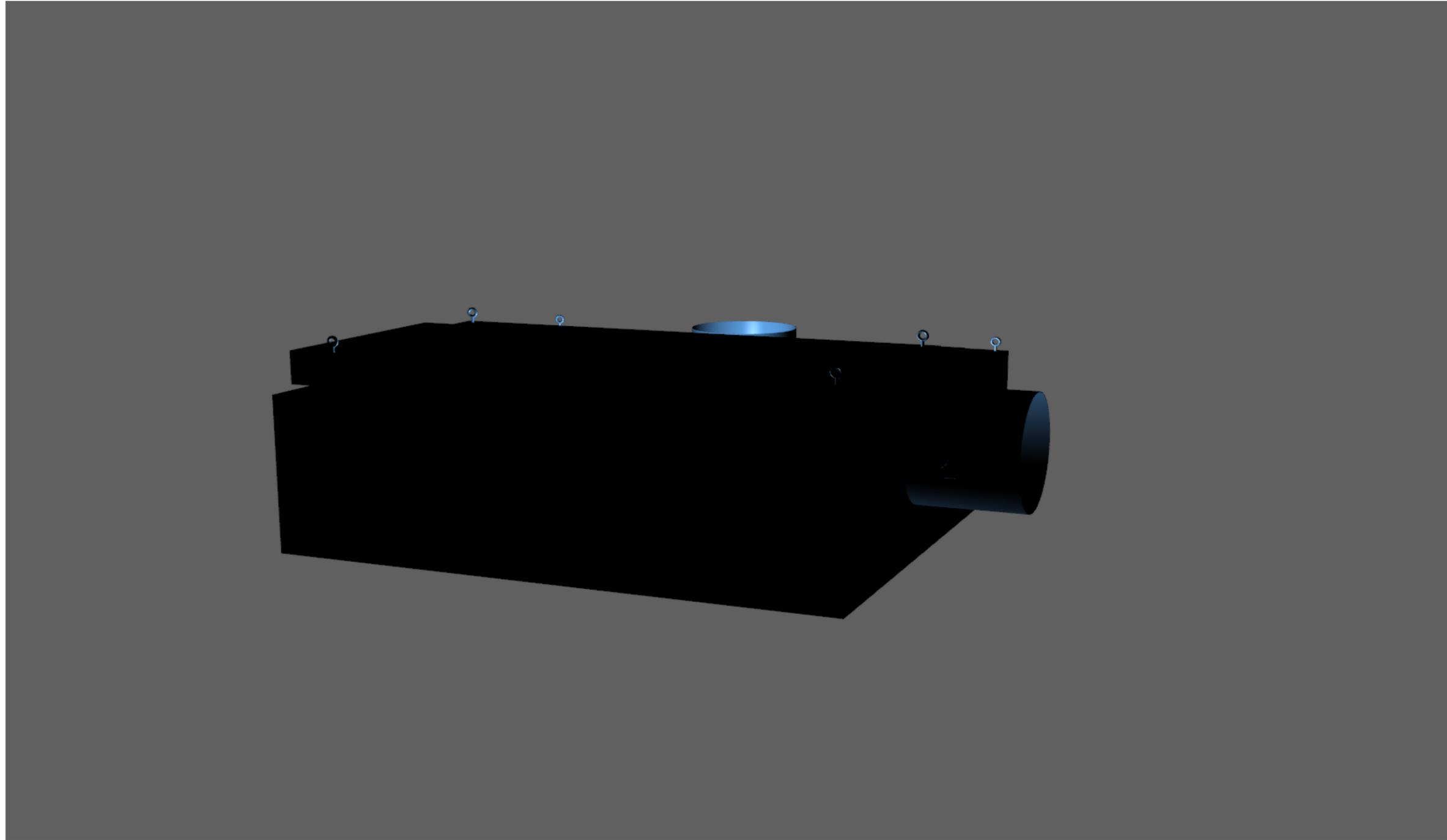
273024

Revision: E

03-23-2023

**CARES** <sup>360°</sup>

**CRITICAL AREA RECIRCULATION/EXHAUST SYSTEM  
3D INTERACTIVE MODEL**



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- USE THE SCROLL WHEEL TO ZOOM
- HOLD DOWN THE LEFT MOUSE BUTTON TO ROTATE
- HOLD DOWN CTRL AND LEFT MOUSE BUTTON TO MOVE

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## CRITICAL AREA RECIRCULATION/EXHAUST SYSTEM CONSTRUCTION DETAILS AND OPTIONS

### STANDARD CONSTRUCTION

- ALUMINUM PLENUM, EXTRUDED KNIFE EDGE FRAME
- GALVANIZED STEEL CONTROL BOX W/ DISCONNECT SWITCH
- 51% OPEN AREA ALUMINUM PERFORATED FAN FILTER UNIT FACE
- 51% OPEN AREA ALUMINUM PERFORATED 1 WAY FLUSH FACE RADIAL FACE
- FORWARD CURVED BLOWER WHEEL
- MOTOR/BLOWER ACCESSIBLE FROM ROOMSIDE
- ROOMSIDE REMOVABLE FILTER, PACKAGED SEPARATELY FOR JOBSITE INSTALLATION BY OTHERS
- EXTRUDED ALUMINUM FILTER FRAME WITH URETHANE GEL
- WALKABLE PLENUM (250 LBS)
- FOR SURFACE CEILING MOUNT INSTALLATION ORDER SEPARATE HGMF FRAME. SEE HGMF SUBMITTAL (271137)
- ROUND SUPPLY INLET ON FLUSH FACE RADIAL DIFFUSER
- ROUND EXHAUST OUTLET ON FAN FILTER UNIT

### FINISH

- B12 STANDARD WHITE

### INLET

- 8" [152mm] ROUND DUCT COLLAR
- 10" [203mm] ROUND DUCT COLLAR

### OUTLET

- 10" [203mm] ROUND RECIRCULATION DUCT COLLAR w MANUAL DAMPER

### FILTER

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

### FAN POWER VOLTAGE

- 115V
- 208V
- 240V
- 277V

### MOTOR

- EC MOTOR, 50/60 Hz, 1 PHASE

### FAN CONTROLLER

- EC MOTOR STANDARD SPEED CONTROLLER
- BACnet FLOW CONTROLLER. MOTOR AND FILTER STATUS OVER BACnet. SEE BFC MANUAL FOR DETAILS. (EC MOTOR ONLY)

### FILTER AND MOTOR STATUS LIGHTS

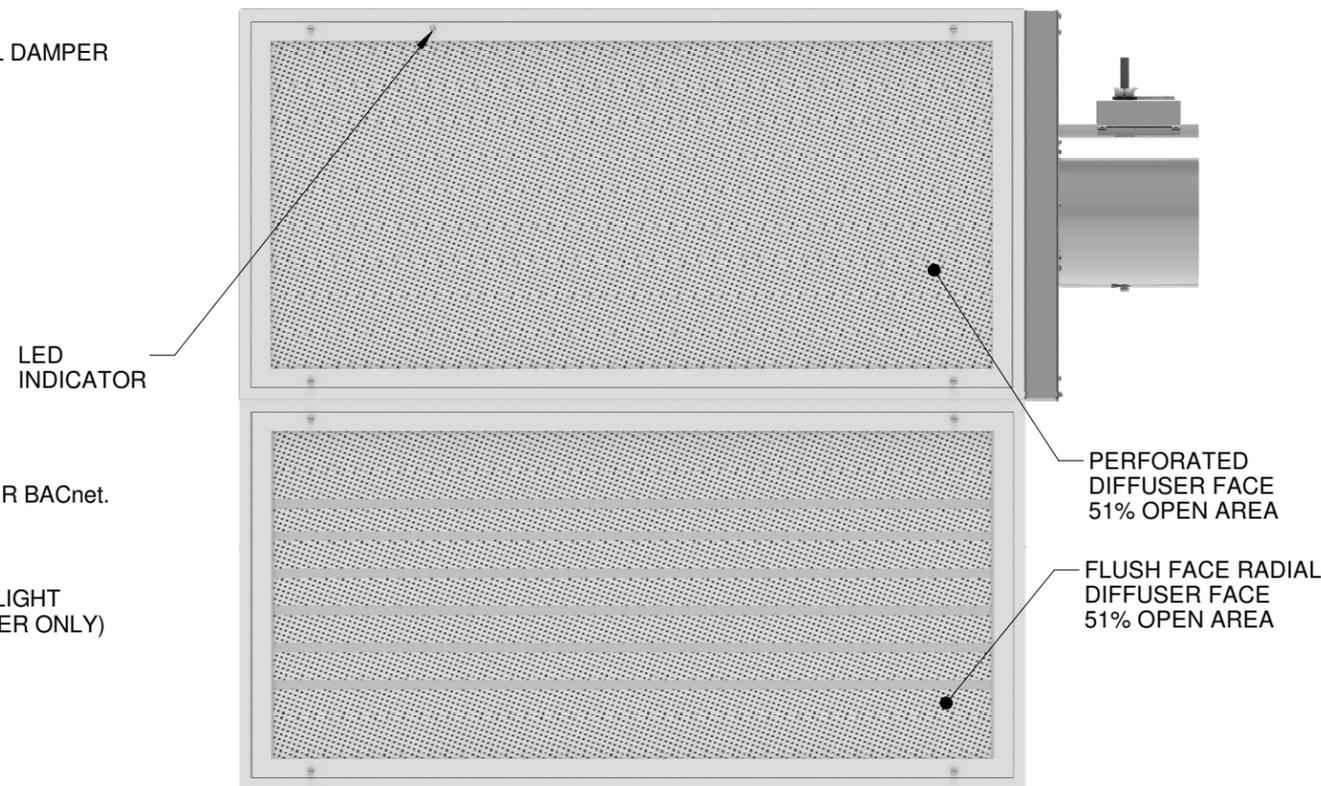
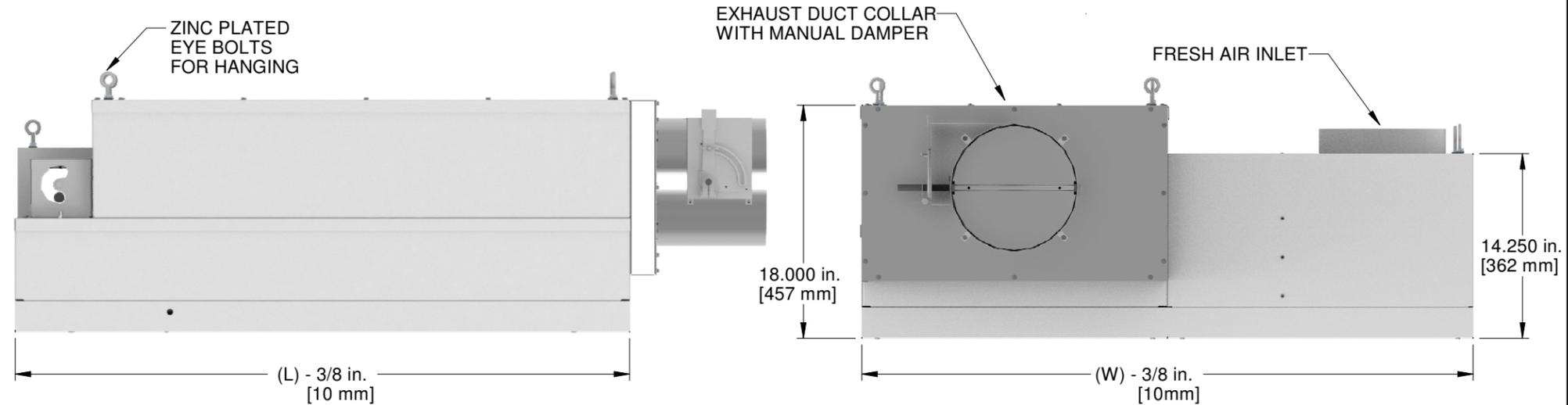
- TRI-COLOR FACE MOUNTED LED FILTER AND MOTOR STATUS LIGHT
- EC MOTOR LED INTEGRATES WITH BACnet (W/ BFC CONTROLLER ONLY)

### MOTOR PROGRAM

- CONSTANT FLOW
- CONSTANT TORQUE

### OPTIONS

- WMSC - WALL MOUNTED SPEED CONTROL (SEE FFUCS SUBMITTAL 269849)
- PC - POWER CORD (8ft 115V or 6ft 277V)
- R+TC - ROOMSIDE + TOP ACCESSIBLE CONTROLS
- M8PFE - MERV 8 PREFILTER (FACE FRAME ACCESS)



### IMPERIAL UNITS (INCHES)

NOMINAL UNIT SIZE (W x L)	ACTUAL WIDTH	ACTUAL LENGTH	MAX AMPS FAN (EC) (115/240/277)
48 x 48	47.625	47.625	4.8/3.0/2.7

### SI UNITS (MM)

NOMINAL UNIT SIZE (W x L)	ACTUAL WIDTH	ACTUAL LENGTH	MAX AMPS FAN (EC) (115/240/277)
1200 x 1200	1190	1190	4.8/3.0/2.7

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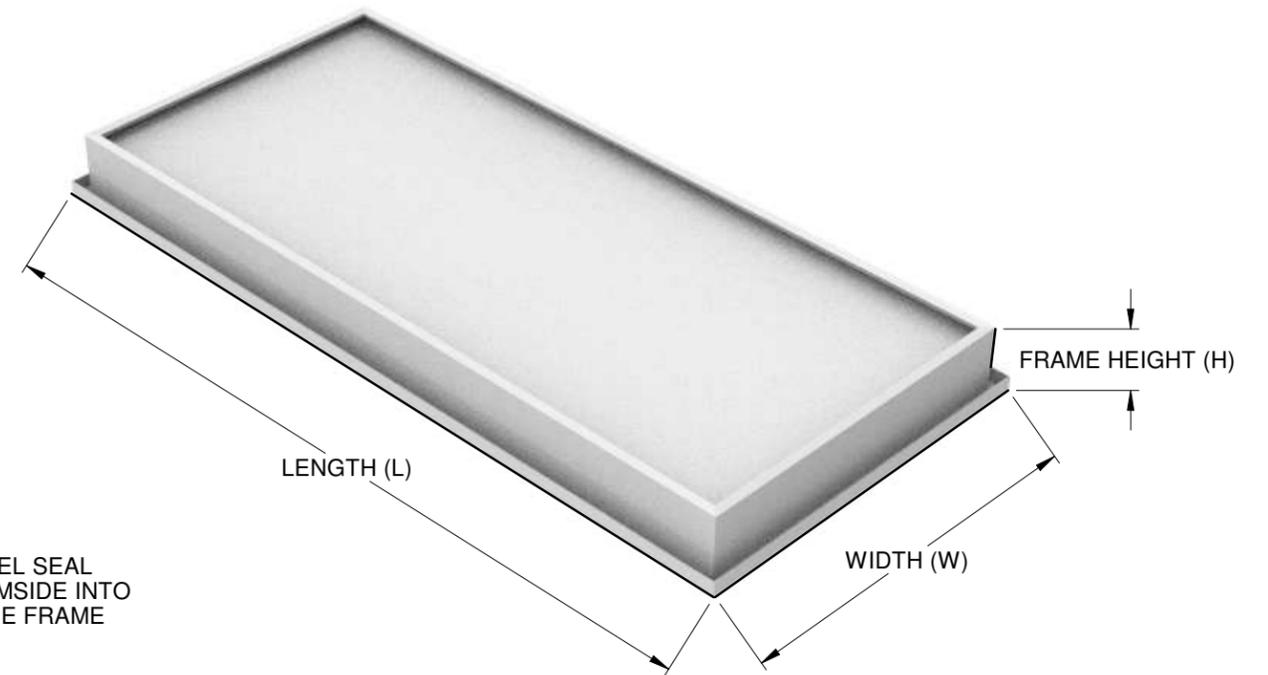
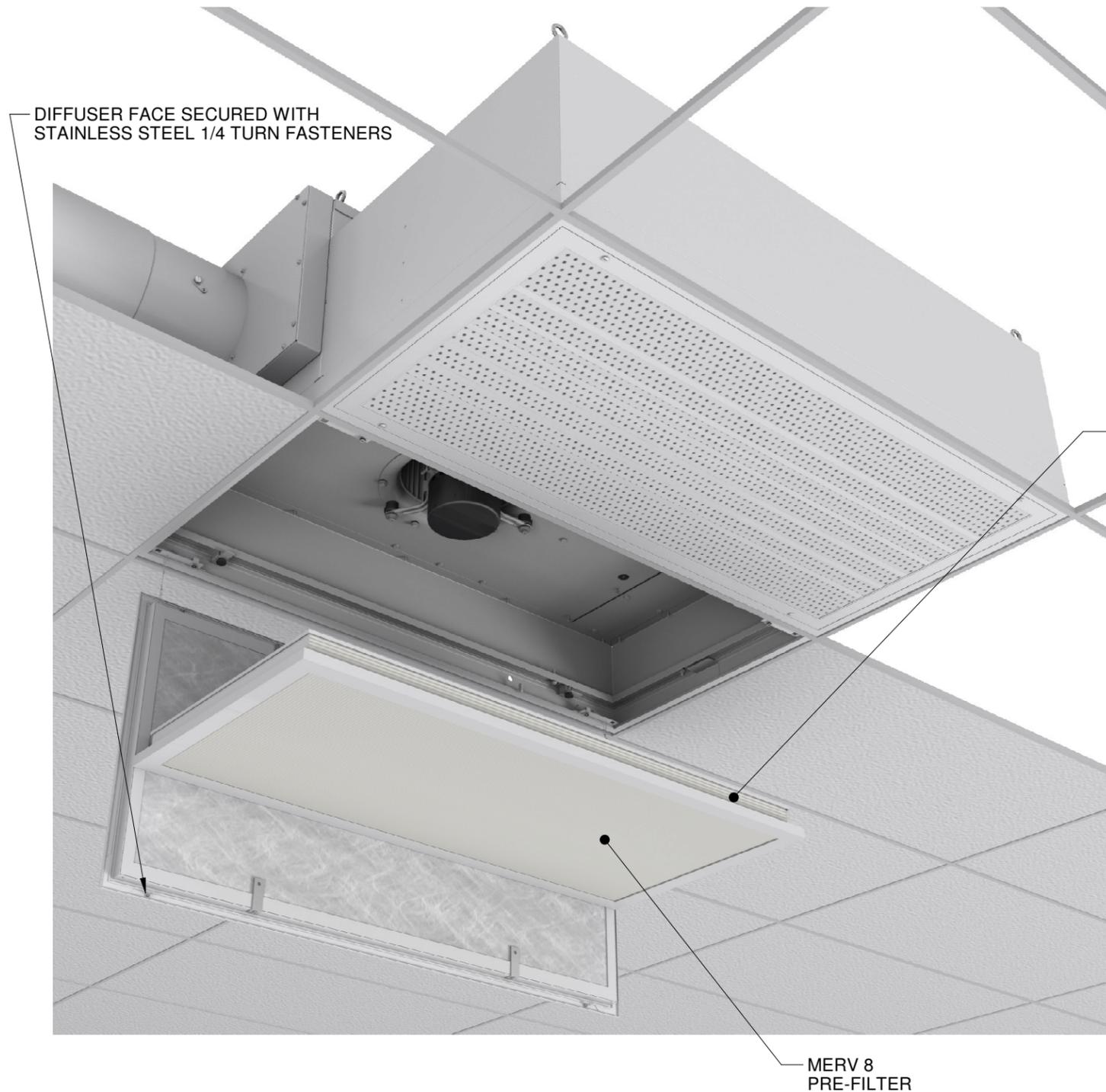
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## CRITICAL AREA RECIRCULATION/EXHAUST SYSTEM

### FILTER DETAILS



#### NOTES

- 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
- HEPA FILTERS EFFICIENCY AND LEAK SCAN TESTED TO IEST RP CC001 TYPE F
- FILTER PACKAGED SEPERATELY FROM DIFFUSER FOR JOB SITE INSTALLATION BY OTHERS

#### IMP UNITS (INCHES)

NOMINAL UNIT SIZE	ACTUAL FILTER SIZE		
	(W x L)	WIDTH (W)	LENGTH (L)
48 x 48	20.69	44.69	2.88

#### SI UNITS (MM)

NOMINAL UNIT SIZE	ACTUAL FILTER SIZE		
	(W x L)	WIDTH (W)	LENGTH (L)
1200 x 1200	516	1116	73

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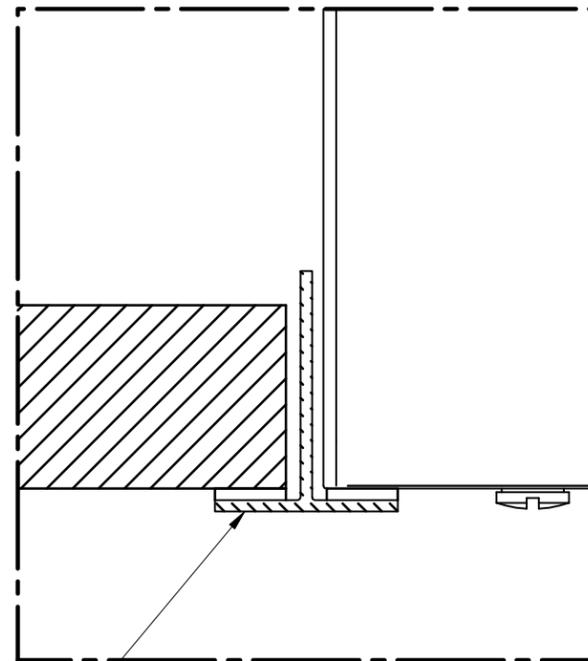
# CARES

## CRITICAL AREA RECIRCULATION/EXHAUST SYSTEM FILTER & CEILING MOUNT DETAILS

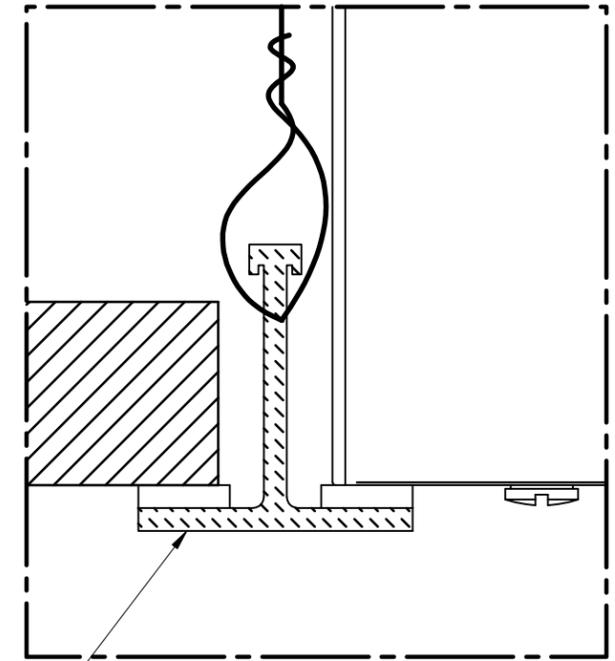


FILTER RETAINER TAB

QUICK RELEASE 1/4 TURN FASTENERS



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



SURFACE MOUNTING  
USING HGMF OR MOUNTING FRAME  
BY OTHERS

**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.

VISIT PRICE INDUSTRIES WEBSITE FOR FILTER QUICK START GUIDE  
<https://www.priceindustries.com/content/uploads/assets/literature/manuals/section%20e/ptr-room-side-replaceable-filter-rsr-quick-start-guide.pdf>

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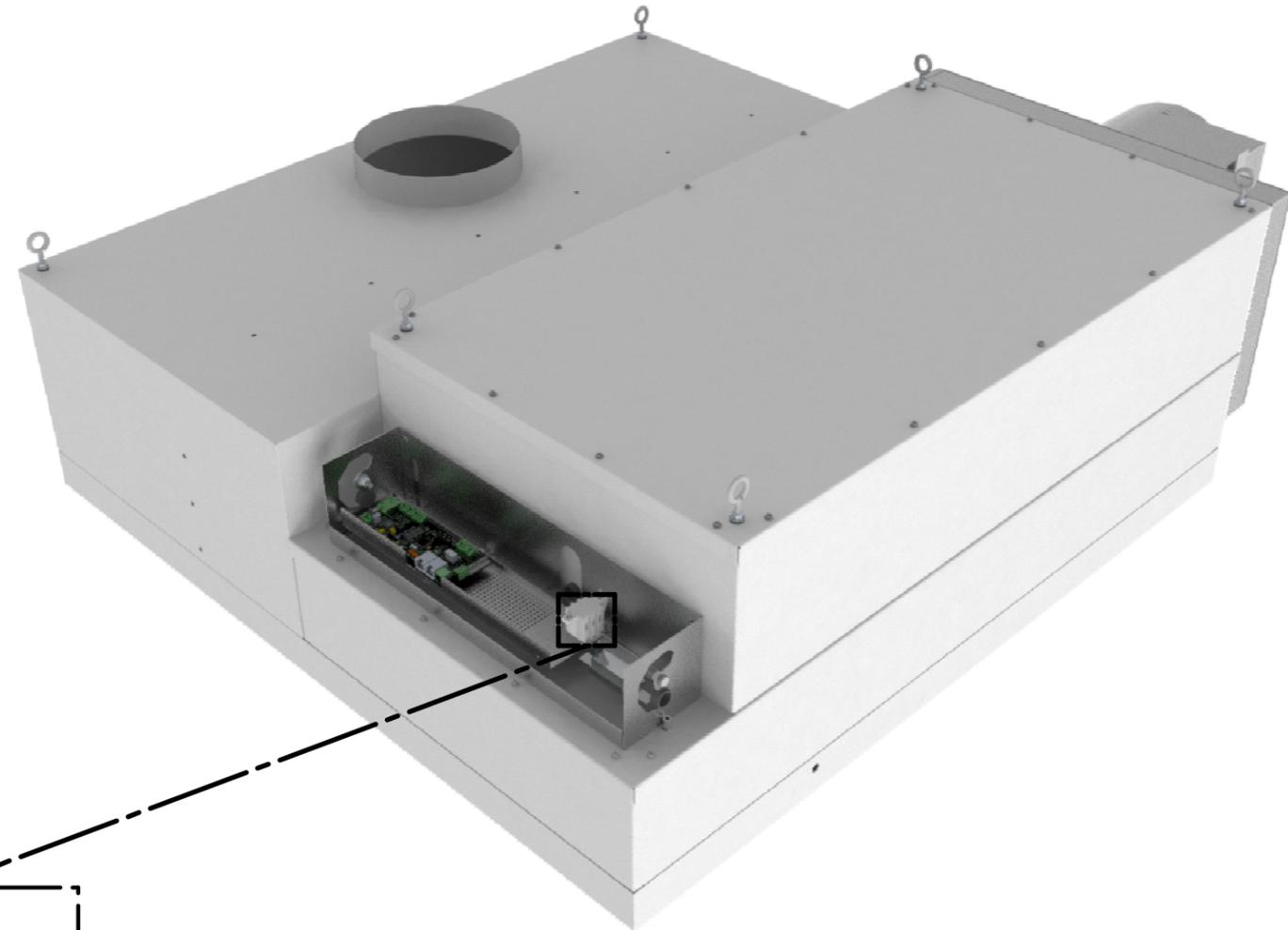
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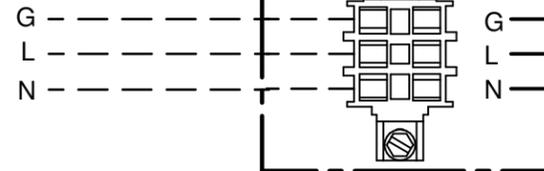
# CARES

## CRITICAL AREA RECIRCULATION/EXHAUST SYSTEM FIELD CONNECTION DETAILS

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



FAN  
HIGH VOLTAGE  
FIELD CONNECTIONS



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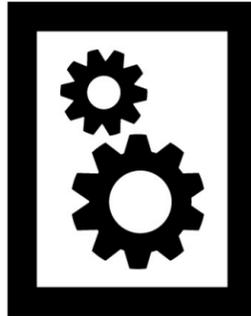
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INSTALLATION WORK AND ELECTRICAL WIRING MUST BE COMPLETED BY A CERTIFIED ELECTRICIAN AND/OR QUALIFIED PERSON(S) IN ACCORDANCE WITH APPLICABLE ELECTRICAL CODES AND STANDARDS

# CARES

## CRITICAL AREA RECIRCULATION/EXHAUST SYSTEM 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



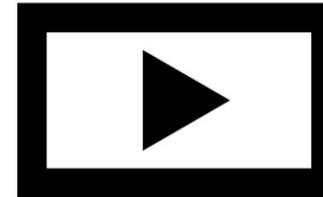
### SUBMITTALS

FTR REPLACEMENT FILTER SUBMITTAL  
HGMF HOSPITAL GRADE MOUNTING FRAME SUBMITTAL



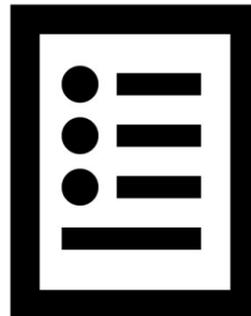
### CATALOG / PERFORMANCE

CARES CRITICAL AREA RECIRCULATION/EXHAUST SYSTEM CATALOG  
CARES CRITICAL AREA RECIRCULATION/EXHAUST SYSTEM PERFORMANCE DATA  
CARES CRITICAL AREA RECIRCULATION/EXHAUST SYSTEM PERFORMANCE DATA (METRIC)



### VIDEOS

HIGH PERFORMANCE MANUFACTURING ON CRITICAL ENVIRONMENTS PRODUCTS  
BFC BACnet FLOW CONTROLLER START-UP GUIDE AND BASICS



### SPECIFICATIONS

CARES CRITICAL AREA RECIRCULATION/EXHAUST SYSTEM SPECIFICATION



FOR MORE INFORMATION ON CARES, VISIT [PRICEINDUSTRIES.COM](https://www.priceindustries.com)

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