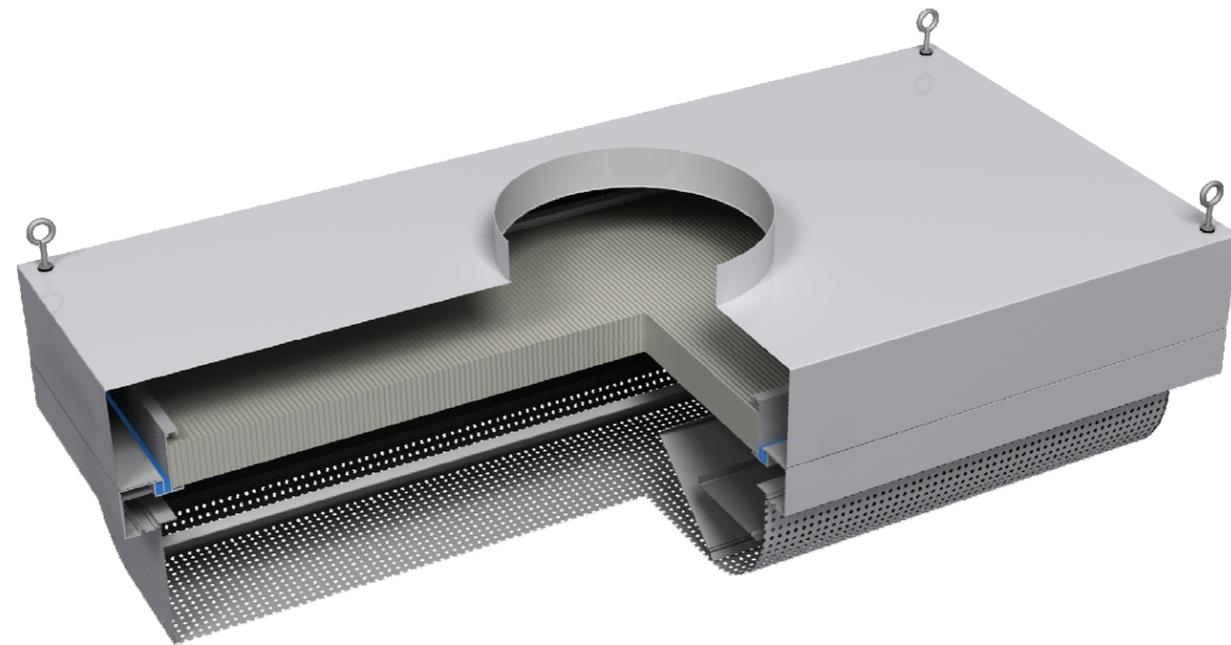


RFDC

RADIAL FLOW DIFFUSER WITH HEPA FILTER

FEATURES:

- DELIVERS LARGE VOLUMES OF FILTERED AIR WITH EXTREMELY SHORT THROWS AND LOW VELOCITY, WITHOUT ADVERSELY IMPACTING CONTAINMENT AT FUME HOODS.
- ROOM-SIDE REPLACEABLE HEPA FILTER REMOVES 99.99% OF AIRBORNE CONTAMINANTS
- THE RFDC IS A COMBINATION OF ASHRAE GROUP A AND GROUP E DIFFUSERS AND MEETS ALL ASHRAE 170 PERFORMANCE AND CONSTRUCTION REQUIREMENTS
- AEROSOL SAMPLE AND STATIC PRESSURE PORT AND OPTIONAL AEROSOL INJECTION PORT FACILITATE ROOM-SIDE AEROSOL CHALLENGE OF THE DIFFUSER



PRICE | **CRITICAL ENVIRONMENTS**

PROJECT:

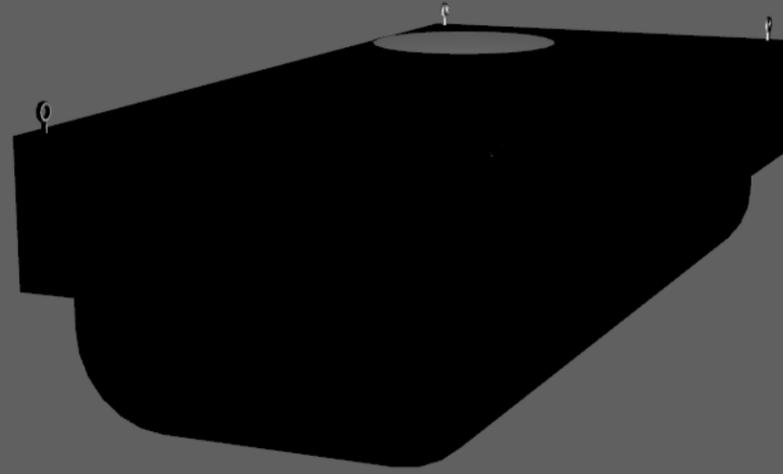
272485

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04-19-2023

RFDC 

RADIAL FLOW DIFFUSER WITH HEPA FILTER
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

PRICE | **CRITICAL ENVIRONMENTS**

PROJECT:

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RADIAL FLOW DIFFUSER WITH HEPA FILTER CONSTRUCTION DETAILS AND OPTIONS - SUPPLY

STANDARD CONSTRUCTION

- PLENUM SEALED WITH ADHESIVE SEALANT
- SPOT WELDED PLENUM SEAMS
- EXTRUDED ALUMINUM FILTER FRAME WITH URETHANE GEL
- STATIC PRESSURE AND AEROSOL SAMPLE PORT
- TWO STAINLESS STEEL RETAINER CABLES PER UNIT
- FACTORY TOLERANCE +/- $\frac{1}{32}$ "

PLENUM CONSTRUCTION

- ALUMINUM PLENUM,
- STAINLESS STEEL - 304

FACE AND FRAME CONSTRUCTION

- ALUMINUM (EXTRUDED FRAMES)
- STAINLESS STEEL - 304

PLENUM FINISH

- WHITE POWDER COAT - B12
- BRIGHT WHITE - B11
- CUSTOM MATCHED COLOUR - B25
- STAINLESS STEEL - 2B
(OPTIONAL FINISHES AVAILABLE)

FACE AND FRAME FINISH

- WHITE POWDER COAT - B12
- BRIGHT WHITE - B11
- CUSTOM MATCHED COLOUR - B25
- STAINLESS STEEL - #4
(OPTIONAL FINISHES AVAILABLE)

INLET SIZES

- 6" (152 mm) ROUND
- 8" (203 mm) ROUND
- 10" (254 mm) ROUND
- 12" (305 mm) ROUND

FILTER

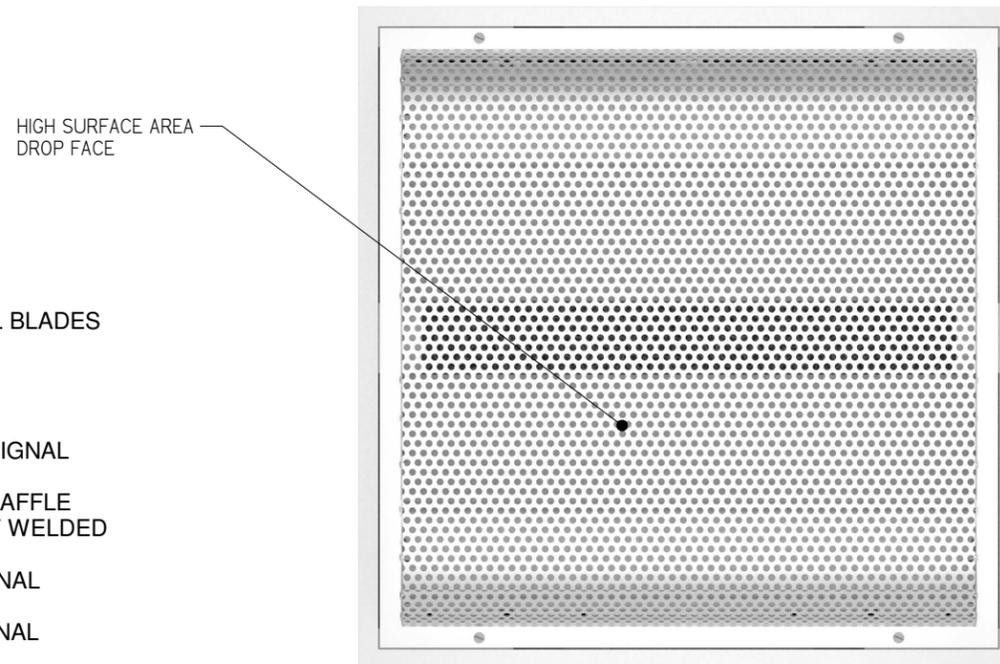
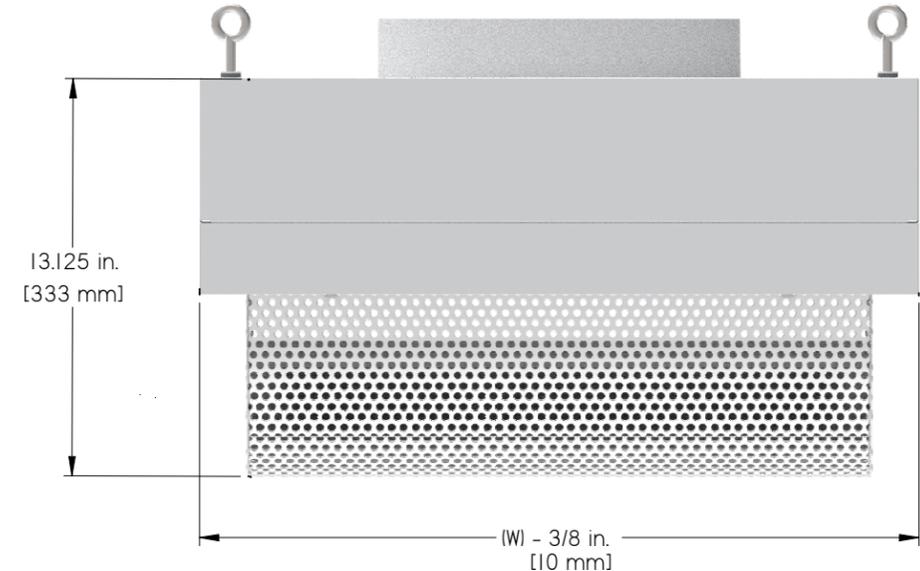
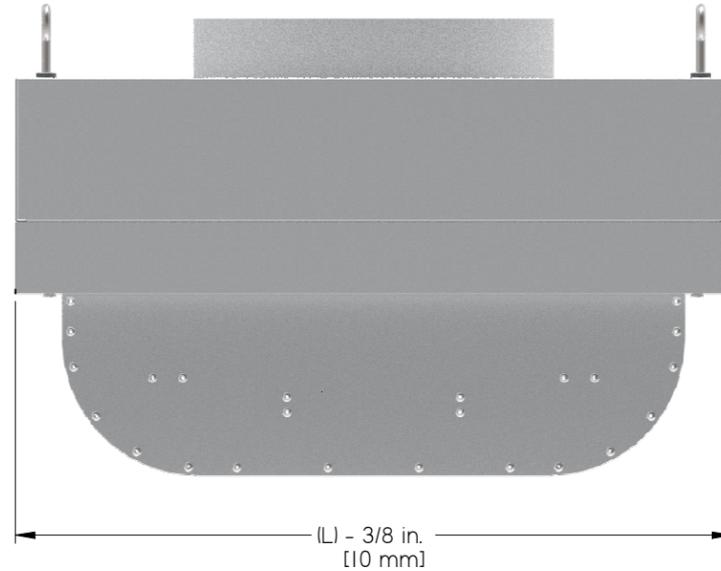
- NO-FTR - NO FILTER
- HEPA - 99.99% (0.3 MICRON)
- ULPA - 99.9995% (0.12 MICRON)
- FRB - FILTER REPLACEMENT BAFFLE

DAMPER (OPTIONAL)

- VRC8EC - BUTTERFLY DAMPER, WHITE POWDER COATED STEEL BLADES
- VRC8ECSS - BUTTERFLY DAMPER, STAINLESS STEEL BLADES

OPTIONS

- FL - FILTER INDICATOR LIGHT ON FACE
- FL+FBAS - FILTER INDICATOR LIGHT ON FACE AND FILTER BAS SIGNAL
- EQ - EQUALIZATION BAFFLE
- INJ - AEROSOL INJECTION SYSTEM WITH INLET EQUALIZATION BAFFLE
- CW - CONTINUOUSLY WELDED VERTICAL PLENUM SEAMS, SPOT WELDED INLET
- AFI-0.5: 0.5" THICK ALUMINUM FOIL-BACKED FIBERGLASS EXTERNAL INSULATION
- AFI-1.5: 1.5" THICK ALUMINUM FOIL BACKED FIBERGLASS EXTERNAL INSULATION



NOTES:

- FILTER PACKAGED SEPERATELY FROM DIFFUSER HOUSING FOR JOB SITE INSTALLATION BY OTHERS
- PLENUM FACTORY SCANNED FOR LEAKS IN ACCORDANCE WITH IEST-RP-CC034
- LAY IN CEILING INSTALLATION ONLY. UNIT SIZE DESIGNED FOR 1" WIDE T-BAR OR 1.5" WAIDE T-BAR WITH 18" NOMINAL SIZE INCREASE PER FOOT
- FOR SURFACE MOUNT INSTALLATION, ORDER SEPERATE HOSPITAL GRADE MOUNTING FRAME. SEE HGMF SUBMITTAL (271137)

IMPERIAL UNITS (INCHES)

NOMINAL UNIT SIZE (W x L)	ACTUAL LENGTH	ACTUAL WIDTH	FILTER AREA (ft ²)	FILTER AREA
24 X 48	47.625	23.625	5.3	2.3
24 X 24	23.625	23.625	2.3	5.3
12 X 48	47.625	11.625	1.8	3.8

SI UNITS (MM)

NOMINAL UNIT SIZE (W x L)	ACTUAL LENGTH	ACTUAL WIDTH	FILTER AREA (m ²)
600 X 1200	1190	590	0.48
600 X 600	590	590	0.21

PRICE | **CRITICAL ENVIRONMENTS**

PROJECT:

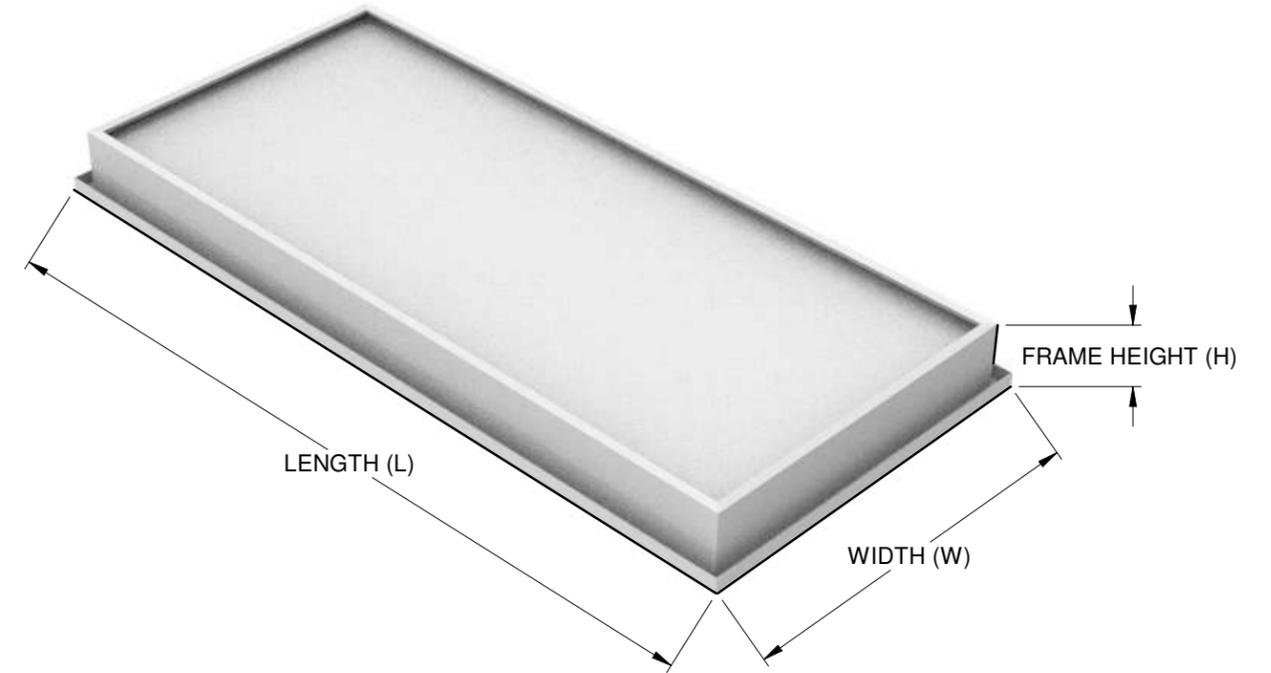
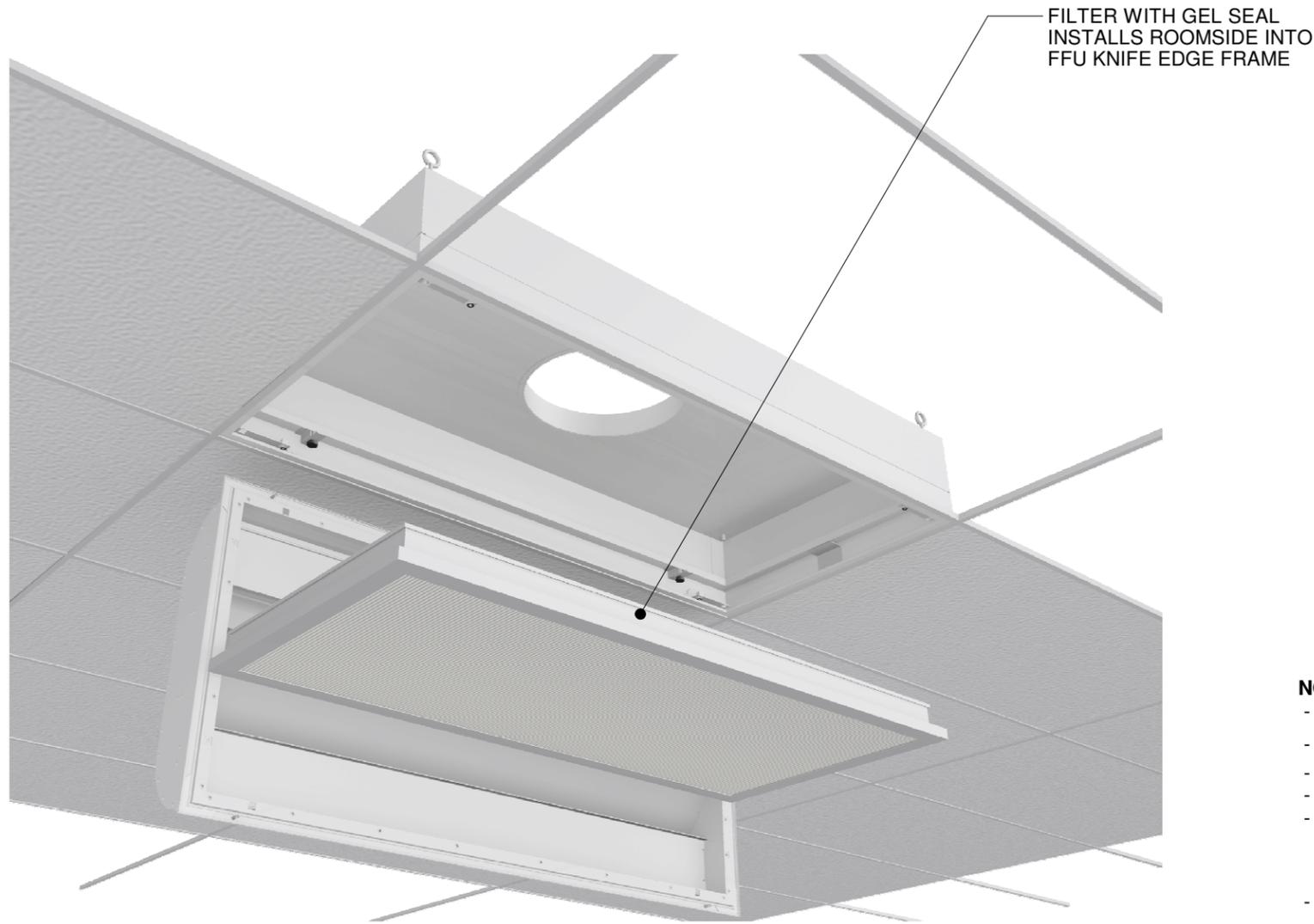
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RADIAL FLOW DIFFUSER WITH HEPA FILTER FILTER DETAILS



IMPERIAL UNITS (INCHES)

ACTUAL FILTER SIZE		
WIDTH (W)	LENGTH (L)	HEIGHT (H)
8.69	44.69	2.88
20.69	20.69	2.88
20.69	44.69	2.88

SI UNITS (MM)

ACTUAL FILTER SIZE		
WIDTH (W)	LENGTH (L)	HEIGHT (H)
516	516	73
516	1116	73

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
- ULPA FILTERS EFFICIENCY AND LEAK SCAN TESTED TO IEST RP CC001 TYPE F
- FILTER PACKAGED SEPERATELY FROM DIFFUSER FOR JOB SITE INSTALLATION BY OTHERS
- MERV8 PRE-FILTER IS ROOM-SIDE REPLACEABLE ON EXHAUST UNITS AND CEILING ACCESSIBLE ON SUPPLY UNITS



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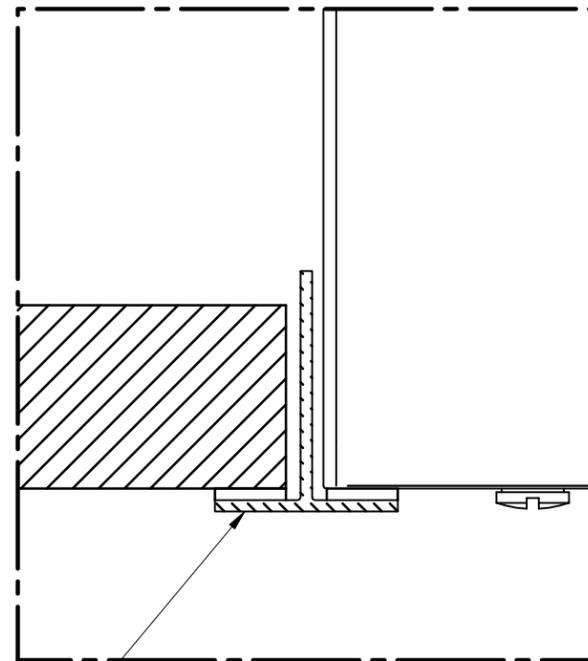
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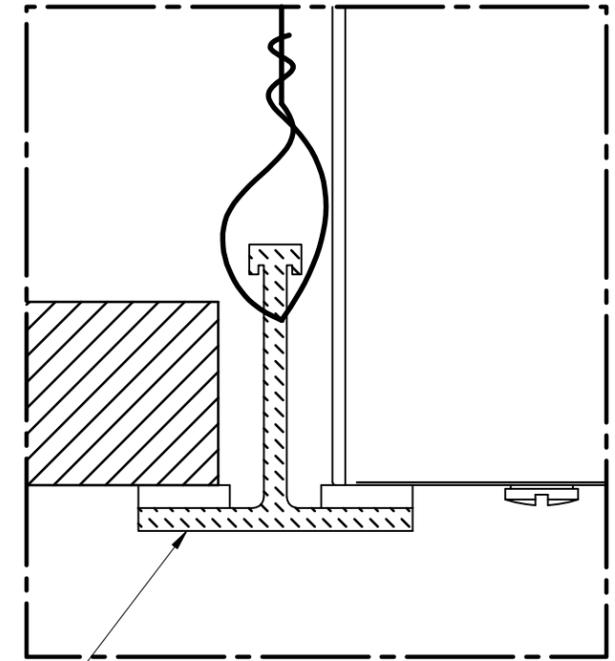
RADIAL FLOW DIFFUSER WITH HEPA FILTER FILTER & CEILING MOUNTING DETAILS



FILTER RETAINER TAB



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/ft-room-side-replaceable-filter-rsr-quick-start-guide.pdf>

PRICE | **CRITICAL ENVIRONMENTS**

PROJECT:

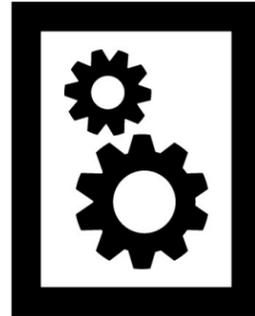
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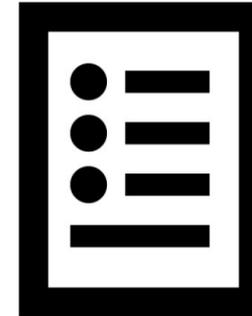
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RADIAL FLOW DIFFUSER WITH HEPA FILTER SUPPORTING CONTENT



MANUALS

FTR ROOM-SIDE REPLACEABLE FILTER (RSR) QUICK START GUIDE
INJ AEROSOL INJECTION PORT USER MANUAL
INJ AEROSOL INJECTION PORT INSTALLATION MANUAL



SPECIFICATIONS

RFDC RADIAL FLOW DIFFUSER WITH HEPA FILTER SPECIFICATION



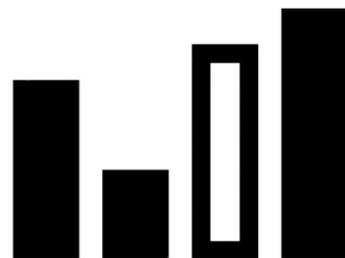
CATALOG

RFDC RADIAL FLOW DIFFUSER WITH HEPA FILTER CATALOG



SUBMITTALS

FTR REPLACEMENT FILTER SUBMITTAL



PERFORMANCE

RFDC RADIAL FLOW DIFFUSER WITH HEPA FILTER PERFORMANCE DATA
RFDC RADIAL FLOW DIFFUSER WITH HEPA FILTER PERFORMANCE DATA (METRIC)



FOR MORE INFORMATION ON PRICE RADIAL FLOW DIFFUSERS,
VISIT [PRICEINDUSTRIES.COM](https://www.priceindustries.com)

PRICE | **CRITICAL ENVIRONMENTS**

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