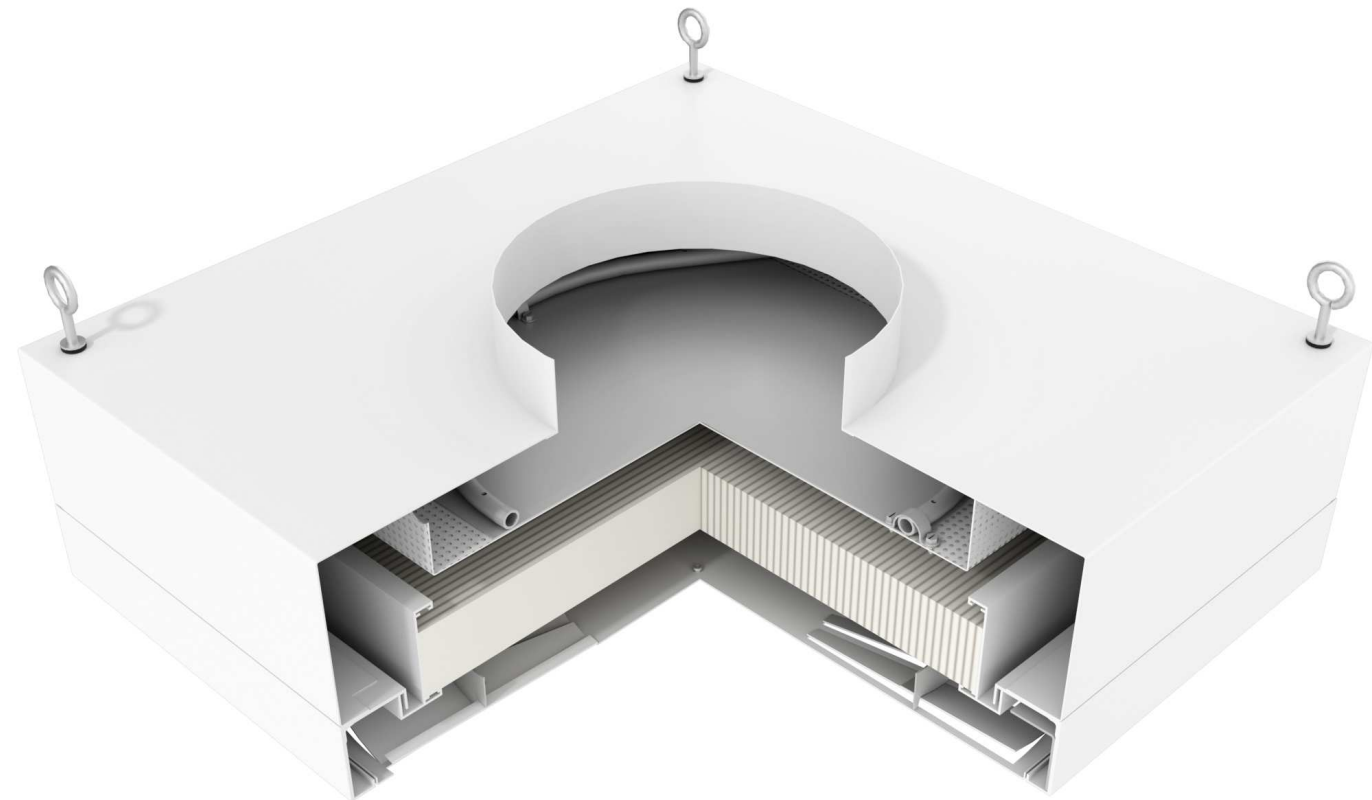


RVDC

RADIAL VANE DIFFUSER WITH HEPA FILTER

FEATURES:

- THE RVDC FEATURES RADIAL SLOTS THAT PROVIDE A HIGH INDUCTION VORTEX AIRFLOW THAT PROJECTS HORIZONTALLY FROM THE FACE OF THE DIFFUSER.
- ROOM-SIDE REPLACEABLE HEPA FILTER REMOVES 99.99% OF AIRBORNE PARTICULATE
- THE RAPID MIXING OF FILTERED SUPPLY AIR WITH THE ROOM AIR REDUCES PARTICLE CONCENTRATION AND IS IDEAL FOR CLEANROOMS.
- AEROSOL SAMPLE AND STATIC PRESSURE PORT AND OPTIONAL AEROSOL INJECTION PORT FACILITATE ROOM-SIDE AEROSOL CHALLENGE OF THE DIFFUSER



PRICE | **CRITICAL ENVIRONMENTS**

PROJECT:

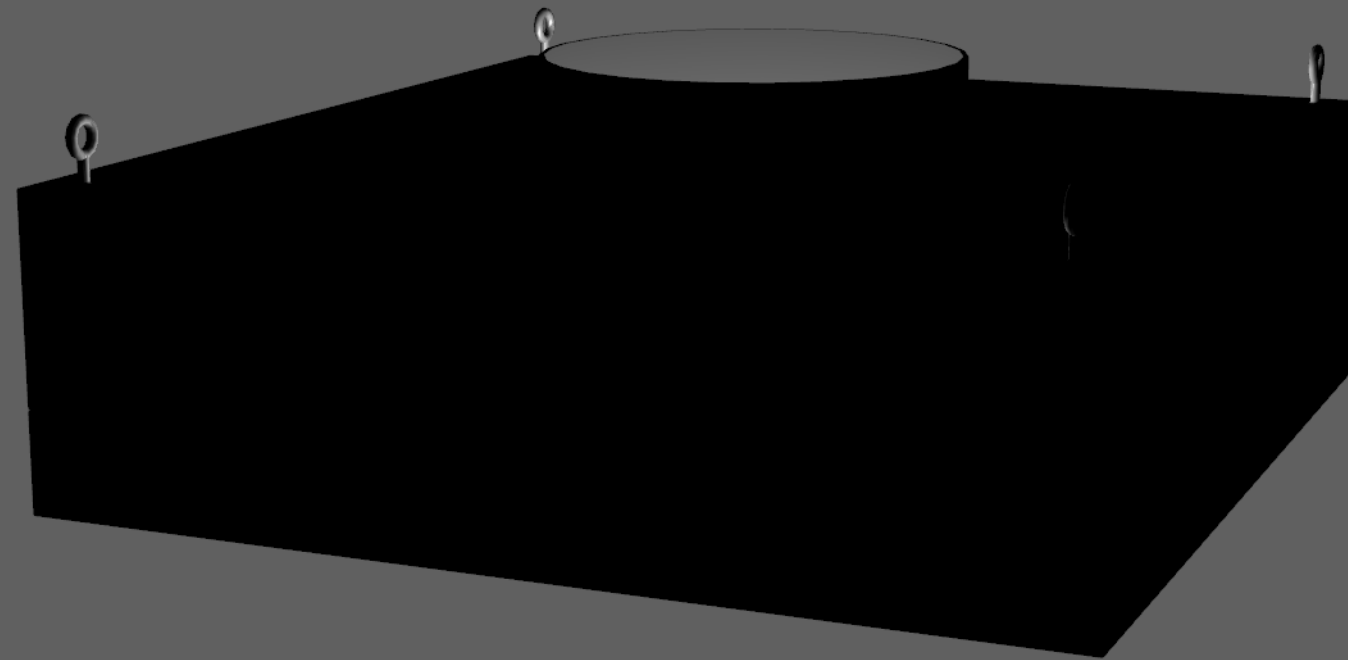
275008

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RVDC ^{360°}

**RADIAL VANE DIFFUSER WITH HEPA FILTER
3D INTERACTIVE MODELS**



- 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**

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RADIAL VANE DIFFUSER WITH HEPA FILTER CONSTRUCTION DETAILS AND OPTIONS

STANDARD CONSTRUCTION

- PLENUM SEALED WITH ADHESIVE SEALANT
- SPOT WELDED PLENUM SEAMS
- CONTINUOUSLY WELDED VERTICAL AND HORIZONTAL KNIFE EDGE SEAMS
- EXTRUDED ALUMINUM FILTER FRAME WITH URETHANE GEL
- STATIC PRESSURE AND AEROSOL SAMPLE PORT
- TWO STAINLESS STEEL RETAINER CABLES PER UNIT
- FACTORY TOLERANCE +/- 1/32"

PLENUM CONSTRUCTION

- ALUMINUM PLENUM, EXTRUDED KNIFE EDGE FRAME
- STAINLESS STEEL - 304 PLENUM & KNIFE EDGE FRAME

FACE CONSTRUCTION

- ALUMINUM - ALUMINUM PANEL WITH RADIAL VANES

PLENUM FINISH

- B12 STANDARD WHITE
- STAINLESS STEEL - 2B PLENUM & STAINLESS STEEL #4 KNIFE EDGE (OPTIONAL FINISHES AVAILABLE)

FACE AND FRAME FINISH

- B12 STANDARD WHITE (OPTIONAL FINISHES AVAILABLE)

INLET SIZES

- 8" (203) ROUND
- 10" (254) ROUND
- 12" (305) ROUND

FILTER

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

DAMPER (OPTIONAL)

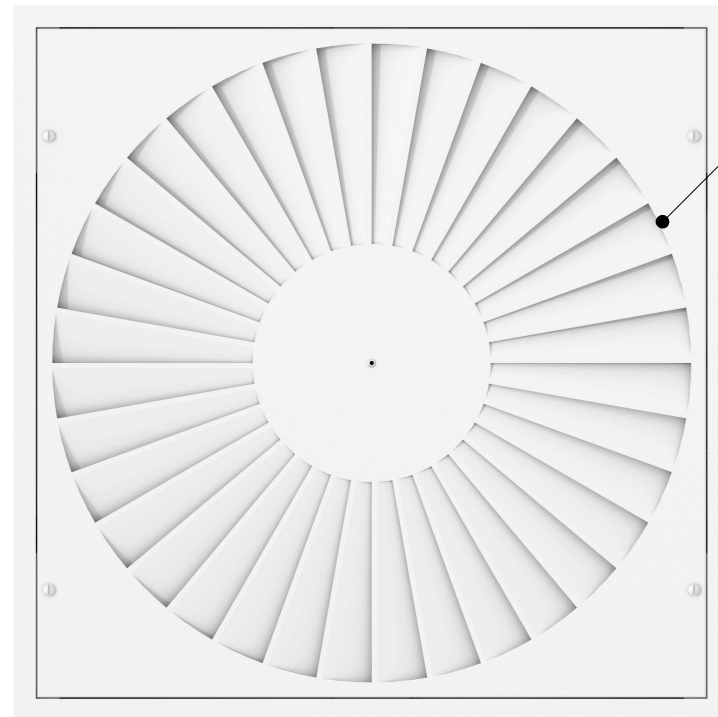
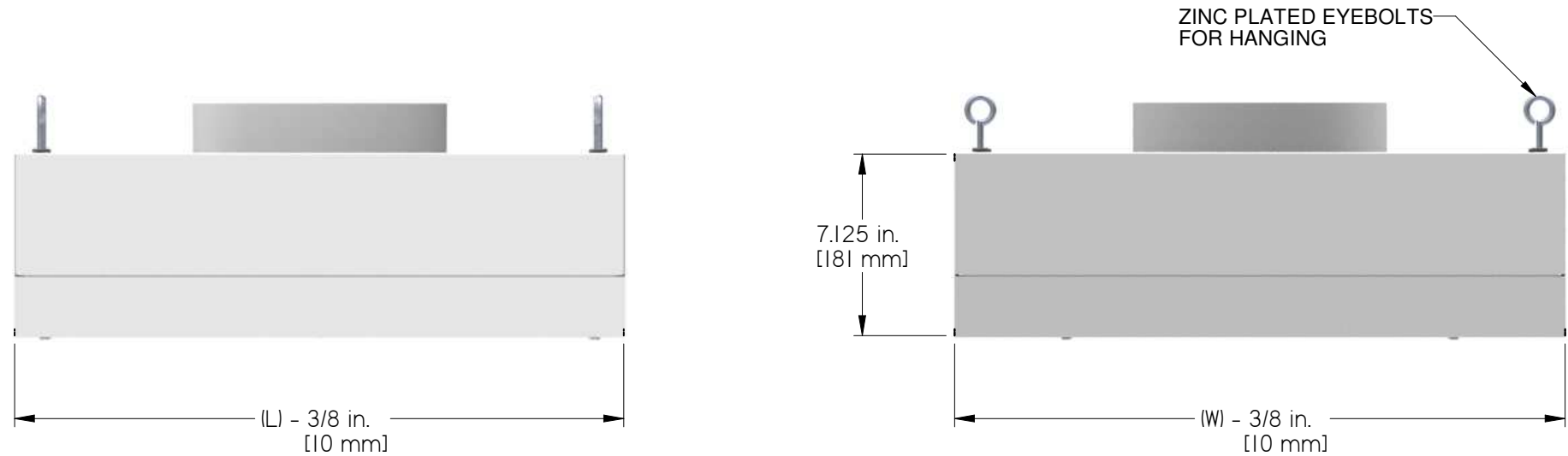
- VRC8EC - BUTTERFLY DAMPER, WHITE POWDER COATED STEEL BLADES
- VRC8ECSS - BUTTERFLY DAMPER, STAINLESS STEEL BLADES

OPTIONS

- FL - FILTER INDICATOR LIGHT ON FACE
- FL + FBAS - FILTER INDICATOR LIGHT ON FACE AND FILTER BAS SIGNAL
- 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
- PF - PROTECTIVE FILM

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" WIDE T-BAR WITH 1/8" NOMINAL SIZE INCREASE PER FOOT
- FOR SURFACE MOUNT INSTALLATION, ORDER SEPERATE HOSPITAL GRADE MOUNTING FRAME. SEE HGMF SUBMITTAL (271137)



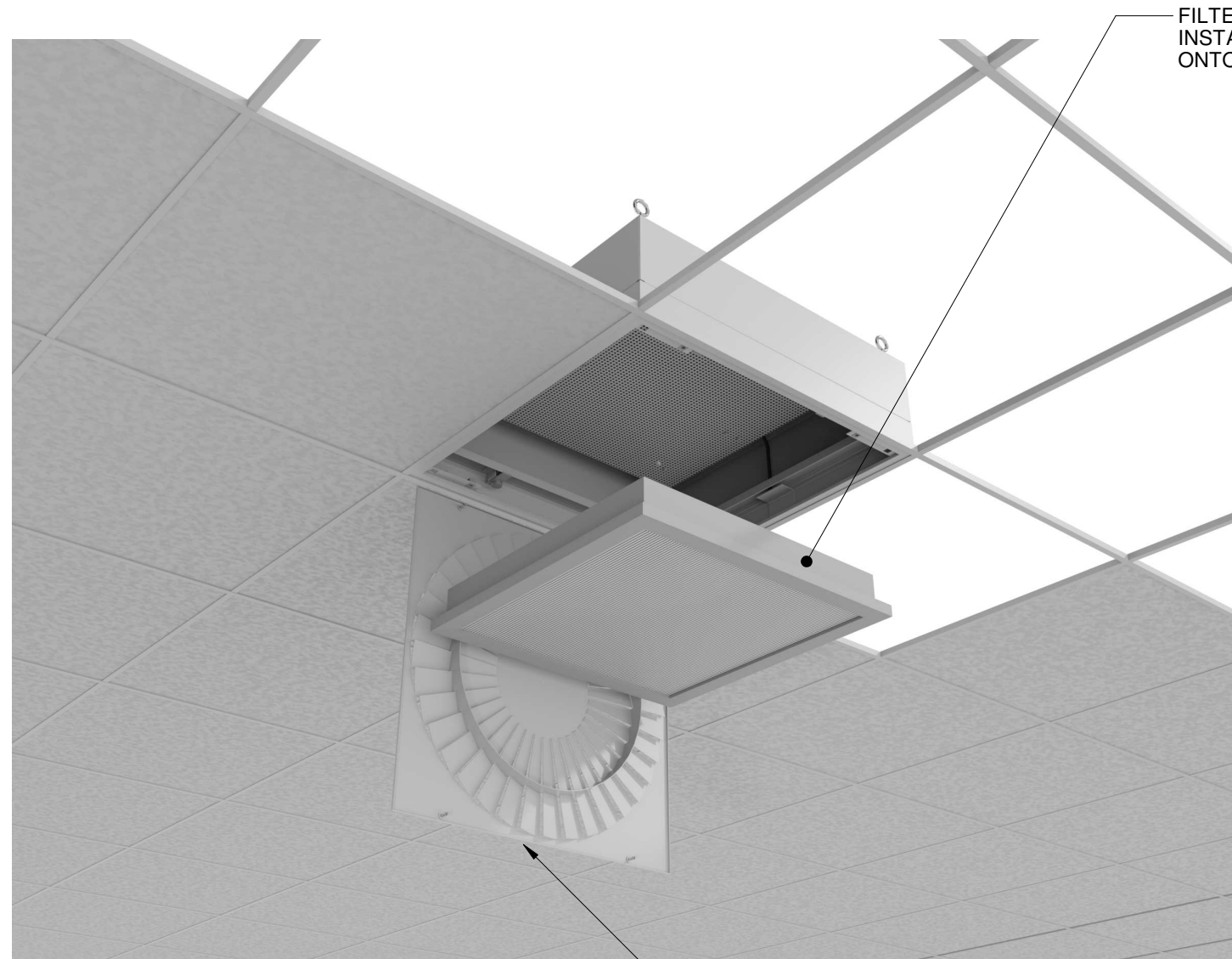
INLET SIZES	IMPERIAL (in.)				METRIC (mm)			
	NOMINAL (W x L)	ACTUAL WIDTH	ACTUAL LENGTH	FILTER AREA (sq.ft.)	NOMINAL (W x L)	ACTUAL WIDTH	ACTUAL LENGTH	FILTER AREA (m ²)
8,10,12	24 x 24	23.63	23.63	2.3	610 x 610	600	600	0.29

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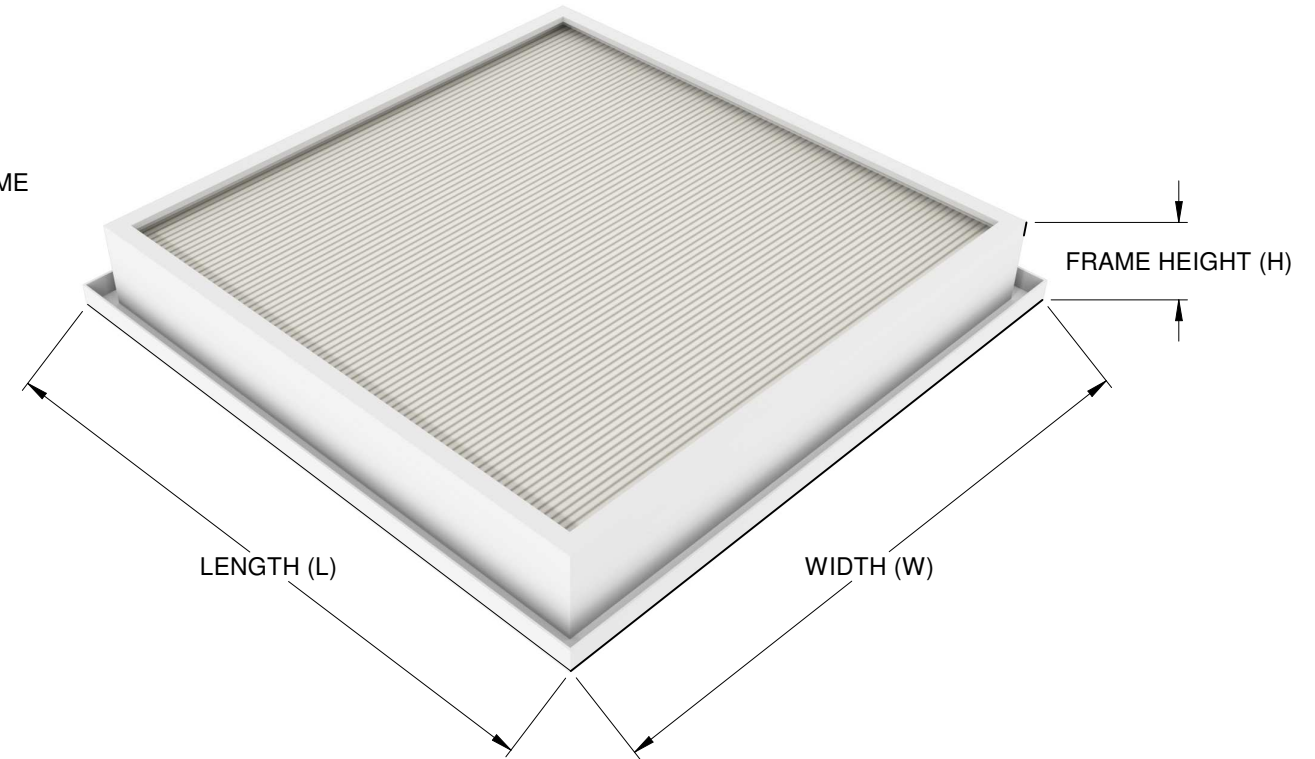
RVDC

RADIAL VANE DIFFUSER WITH HEPA FILTER FILTER DETAILS



FILTER WITH GEL SEAL
INSTALLS FROM THE ROOM SIDE
ONTO THE LFDC KNIFE EDGE FRAME

DIFFUSER FACE SECURED WITH
STAINLESS STEEL 1/4 TURN FASTENERS



IMPERIAL (in.)				METRIC (mm)			
NOMINAL UNIT SIZE (W x L)	ACTUAL FILTER SIZE			NOMINAL UNIT SIZE (W x L)	ACTUAL FILTER SIZE		
	WIDTH (W)	LENGTH (L)	HEIGHT (H)		WIDTH (W)	LENGTH (L)	HEIGHT (H)
24 x 24	20.69	20.69	2.88	610 x 610	526	526	73

NOTES

- FILTER PLEATS RUN PARALLEL TO THE WIDTH (W) DIMENSION
- DIMENSIONS L & W TOLERANCES +/- $\frac{1}{16}$ "
- FILTERS COME WITH GEL SEAL FILLED CHANNEL
- EXPANDED PAINTED WHITE SCREEN ON THE DOWNSTREAM SIDE
- FRAME DETAILS:
 - MATERIAL: ANODIZED EXTRUDED ALUMINUM
 - THICKNESS: $\frac{1}{16}$ " (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

PRICE | **CRITICAL ENVIRONMENTS**

PROJECT:

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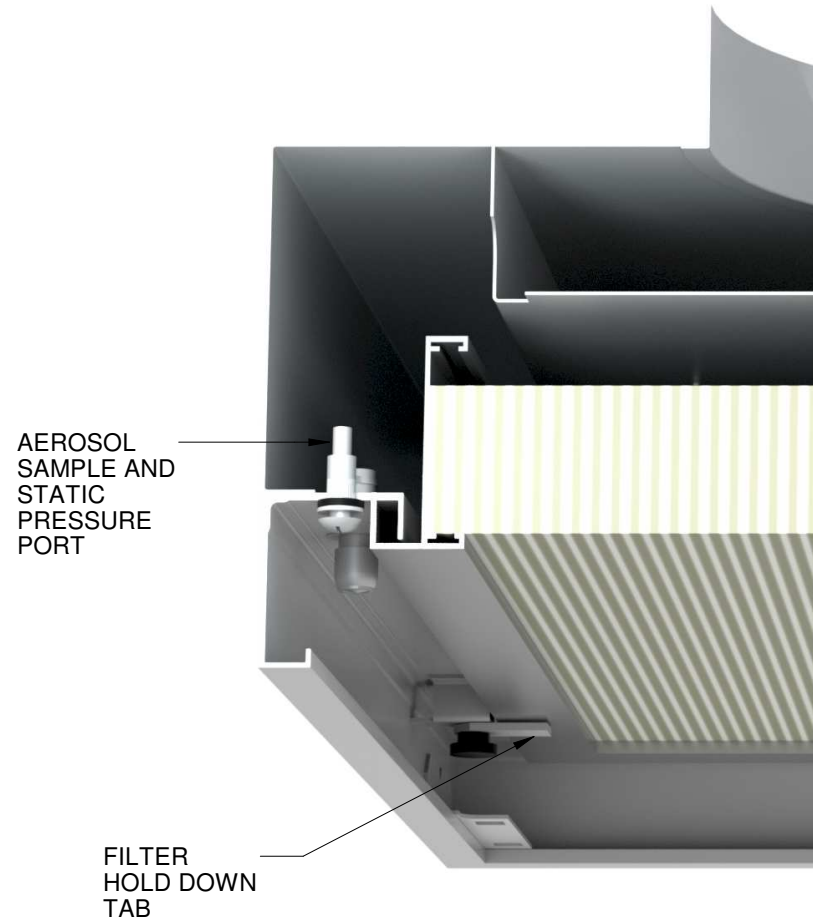
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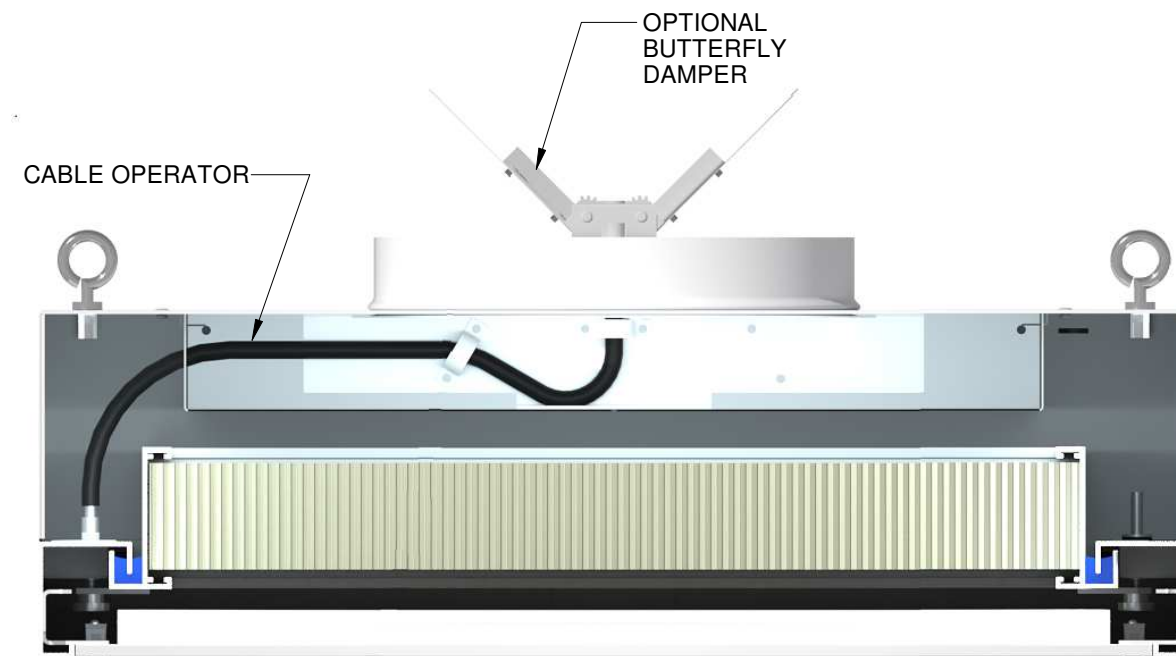
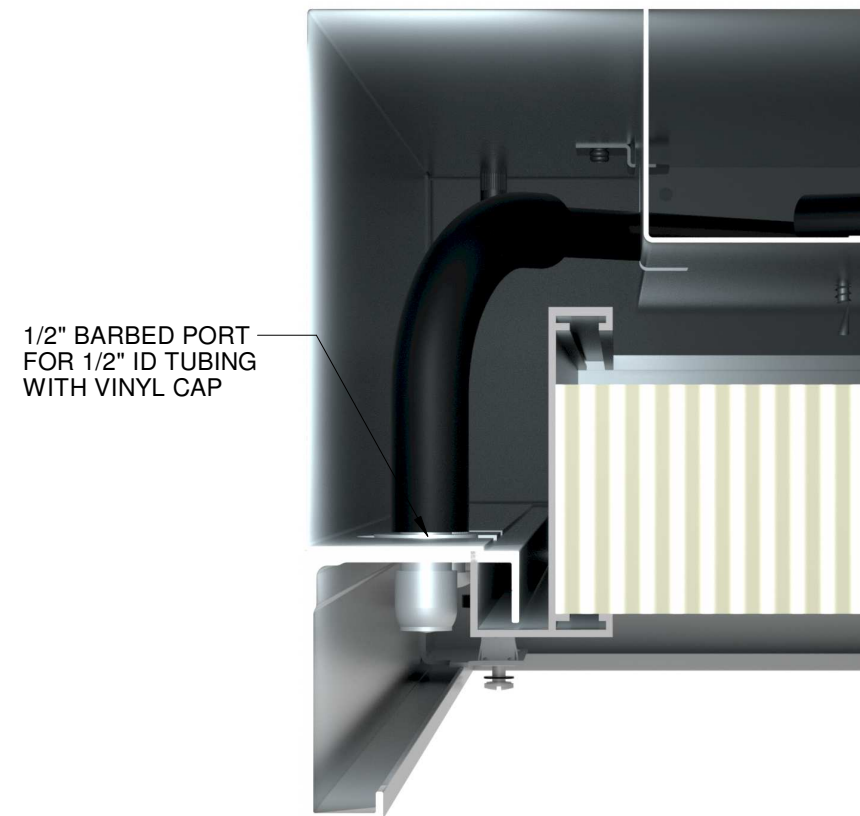
RVDC

RADIAL VANE DIFFUSER WITH HEPA FILTER DETAIL VIEWS

AEROSOL/STATIC PORT DETAIL VIEW



INJ - AEROSOL INJECTION PORT DETAIL VIEW



PRICE | **CRITICAL ENVIRONMENTS**

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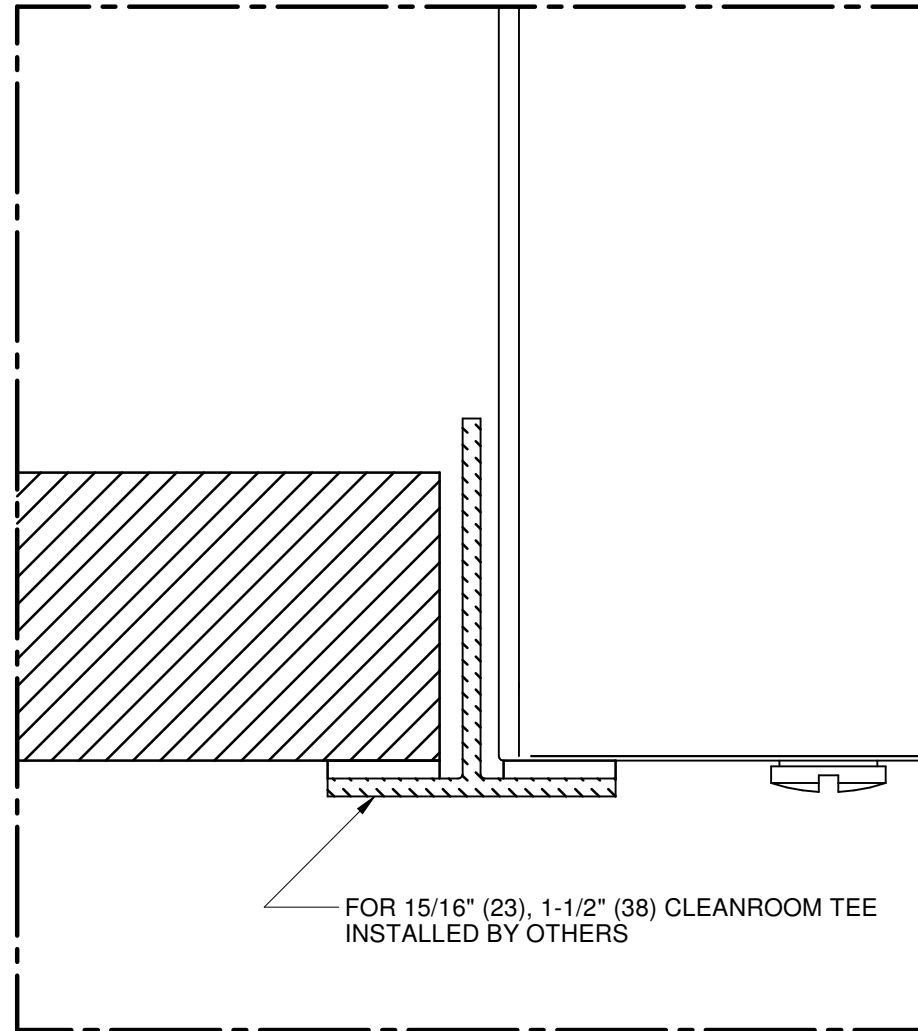
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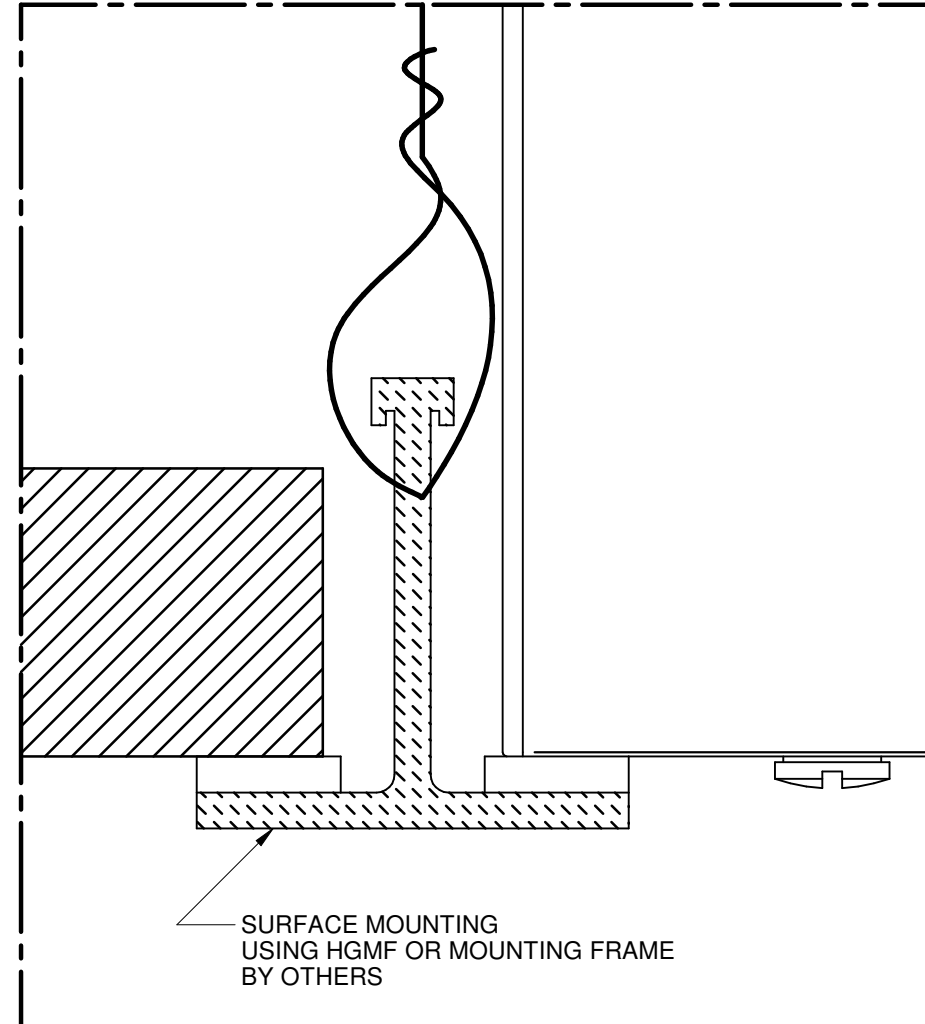
RVDC

RADIAL VANE DIFFUSER WITH HEPA FILTER 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.

PRICE | **CRITICAL ENVIRONMENTS**

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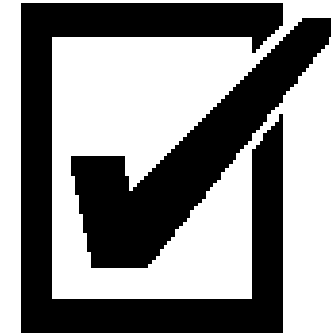
RADIAL VANE DIFFUSER WITH HEPA FILTER SUPPORTING CONTENT



CATALOG / PERFORMANCE

RVDC RADIAL VANE DIFFUSER WITH HEPA FILTER CATALOG

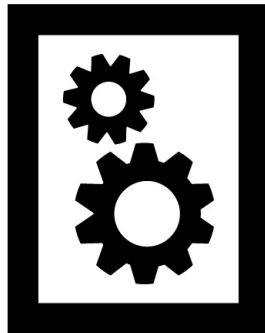
RVDC RADIAL VANE DIFFUSER WITH HEPA FILTER PERFORMANCE DATA



SUBMITTALS

FTR REPLACEMENT FILTER SUBMITTAL

HGMF HOSPITAL GRADE MOUNTING FRAME SUBMITTAL



MANUALS

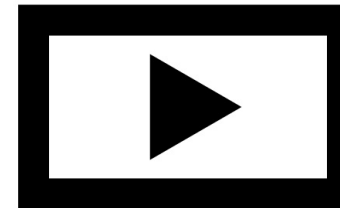
CRITICAL ENVIRONMENTS DIFFUSER INSTALLATION MANUAL

FTR ROOM-SIDE REPLACEABLE FILTER (RSR) QUICK START GUIDE

INJ AEROSOL INJECTION PORT USER MANUAL

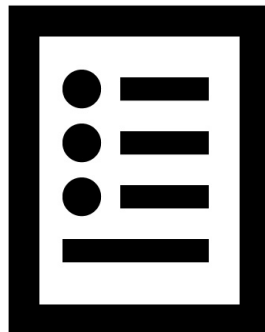
INJ AERSOL INJECTION PORT INSTALLATION MANUAL

LEDK FILTER STATUS INDICATOR INSTALLATION MANUAL



VIDEOS

FILTER TESTING & AEROSOL INJECTION



SPECIFICATIONS

RVDC RADIAL VANE DIFFUSER WITH HEPA FILTER SPECIFICATION



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PRICE | **CRITICAL ENVIRONMENTS**

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