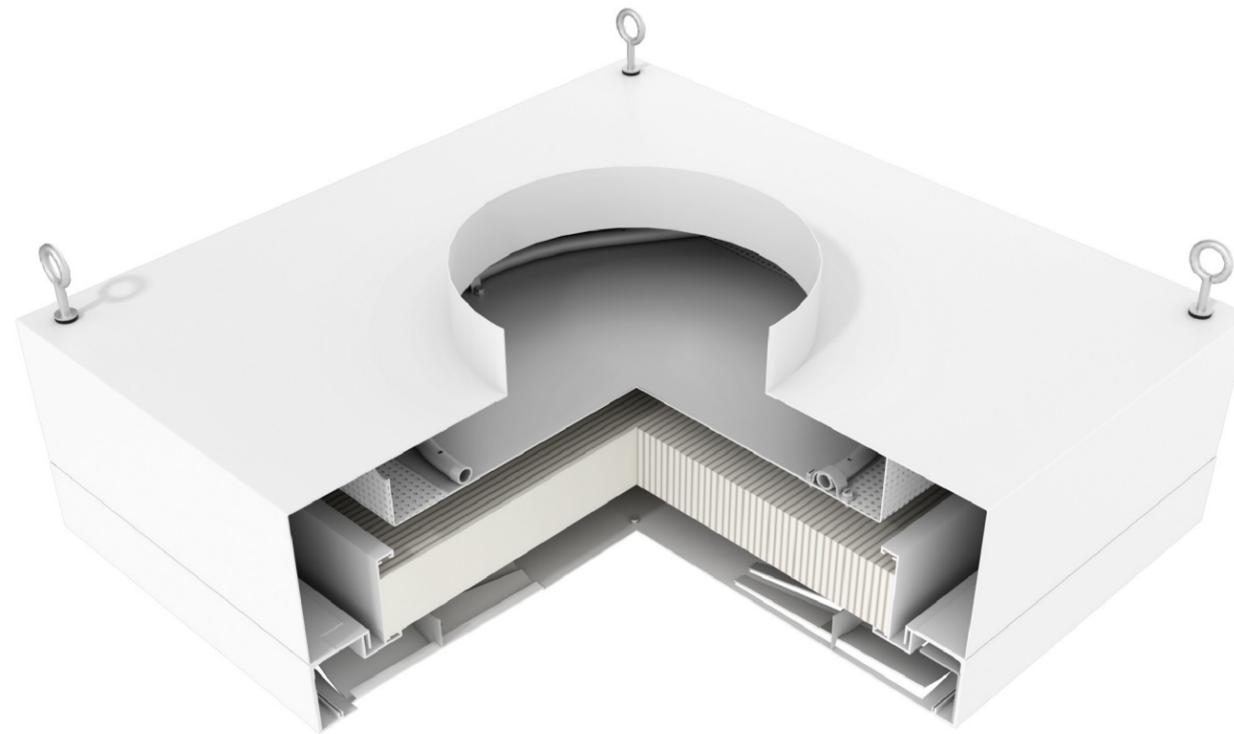


# RVDC

## 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:

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# RVDC

## 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  
(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-2 - 99.99% (0.3 MICRON) - 2"
- ULPA-2 - 99.9995% (0.12 MICRON) - 2"
- FRB - FILTER REPLACEMENT BAFFLE

### DAMPER (OPTIONAL)

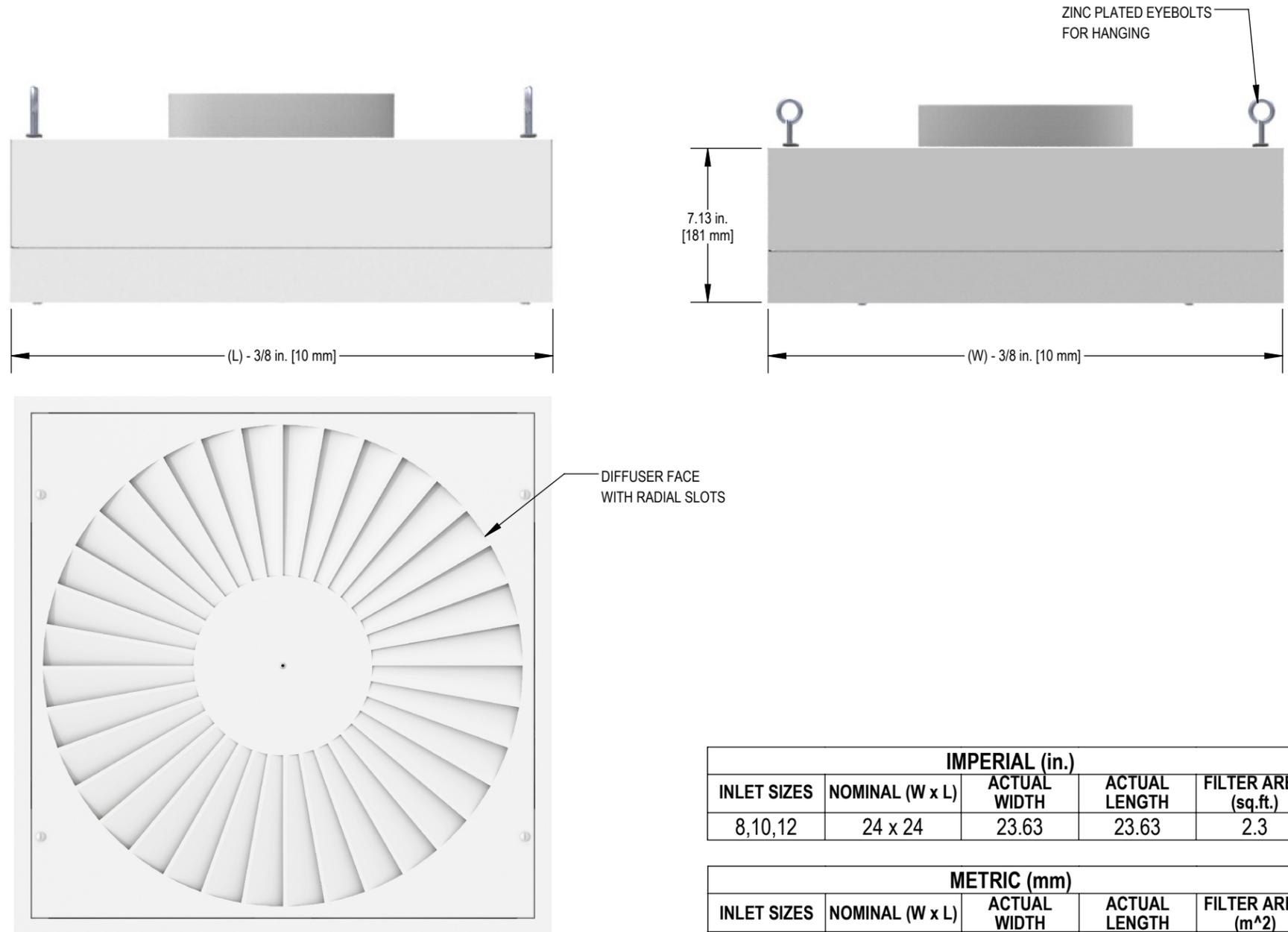
- VCR8EC - BUTTERFLY DAMPER, WHITE POWDER COATED STEEL BLADES
- VCR8ECSS - BUTTERFLY DAMPER, STAINLESS STEEL BLADES

### 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-.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](#).



| IMPERIAL (in.) |                 |              |               |                      |
|----------------|-----------------|--------------|---------------|----------------------|
| INLET SIZES    | NOMINAL (W x L) | ACTUAL WIDTH | ACTUAL LENGTH | FILTER AREA (sq.ft.) |
| 8,10,12        | 24 x 24         | 23.63        | 23.63         | 2.3                  |

| METRIC (mm) |                 |              |               |                               |
|-------------|-----------------|--------------|---------------|-------------------------------|
| INLET SIZES | NOMINAL (W x L) | ACTUAL WIDTH | ACTUAL LENGTH | FILTER AREA (m <sup>2</sup> ) |
| 8,10,12     | 610 x 610       | 600          | 600           | 0.29                          |

PRICE | CRITICAL ENVIRONMENTS

PROJECT:

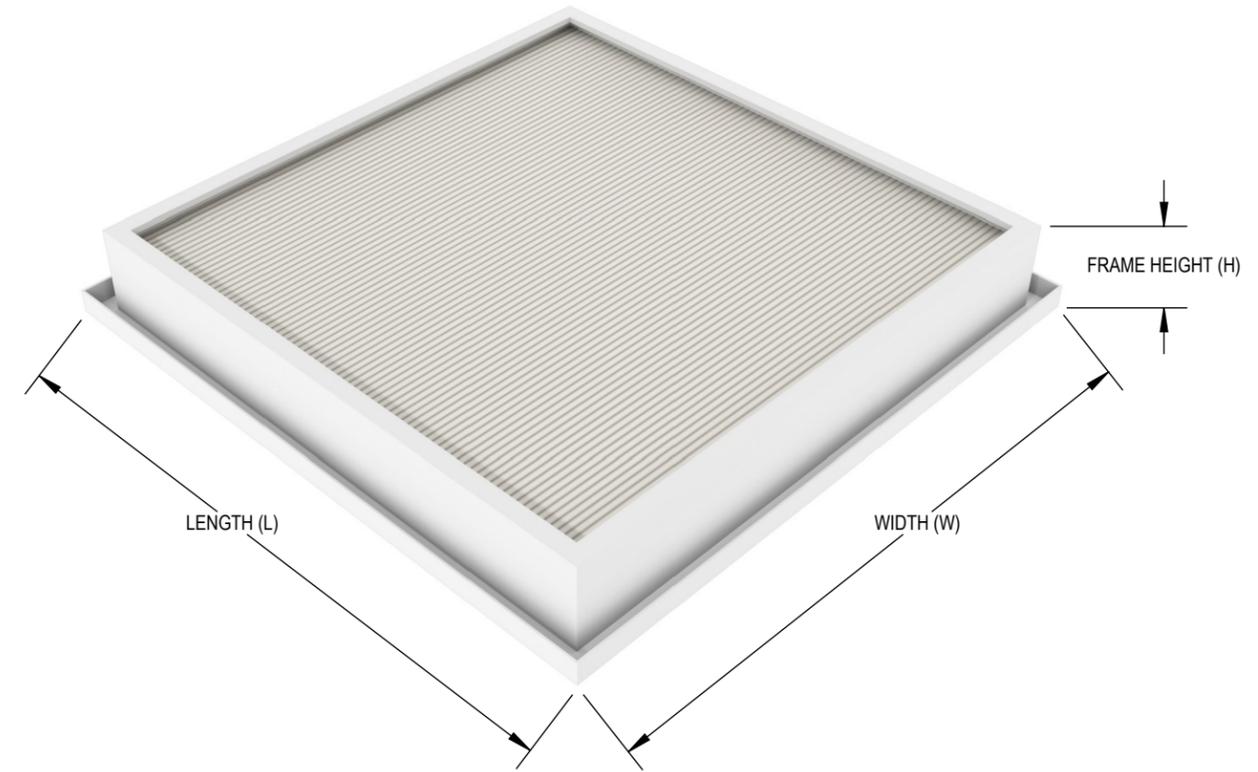
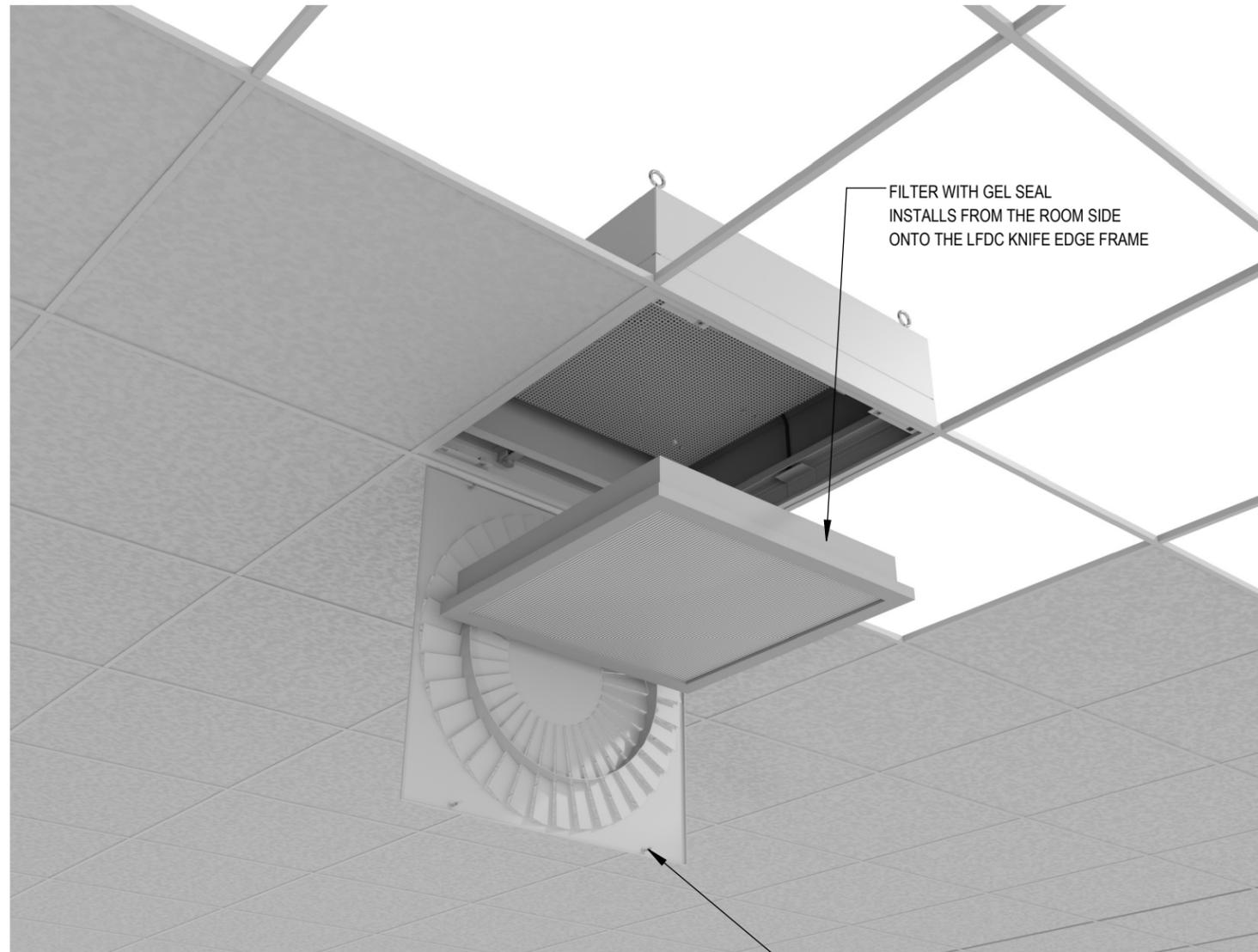
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## RADIAL VANE DIFFUSER WITH HEPA FILTER FILTER DETAILS



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

DIFFUSER FACE SECURED WITH  
STAINLESS STEEL 1/4 TURN FASTENERS

[VISIT PRICE INDUSTRIES WEBSITE FOR FILTER INSTALLATION GUIDE](#)

| NOMINAL UNIT SIZES (W x L) | IMPERIAL (in.)     |            |            | NOMINAL UNIT SIZE (W x L) | METRIC (mm)        |            |            |
|----------------------------|--------------------|------------|------------|---------------------------|--------------------|------------|------------|
|                            | ACTUAL FILTER SIZE |            |            |                           | 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         |

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

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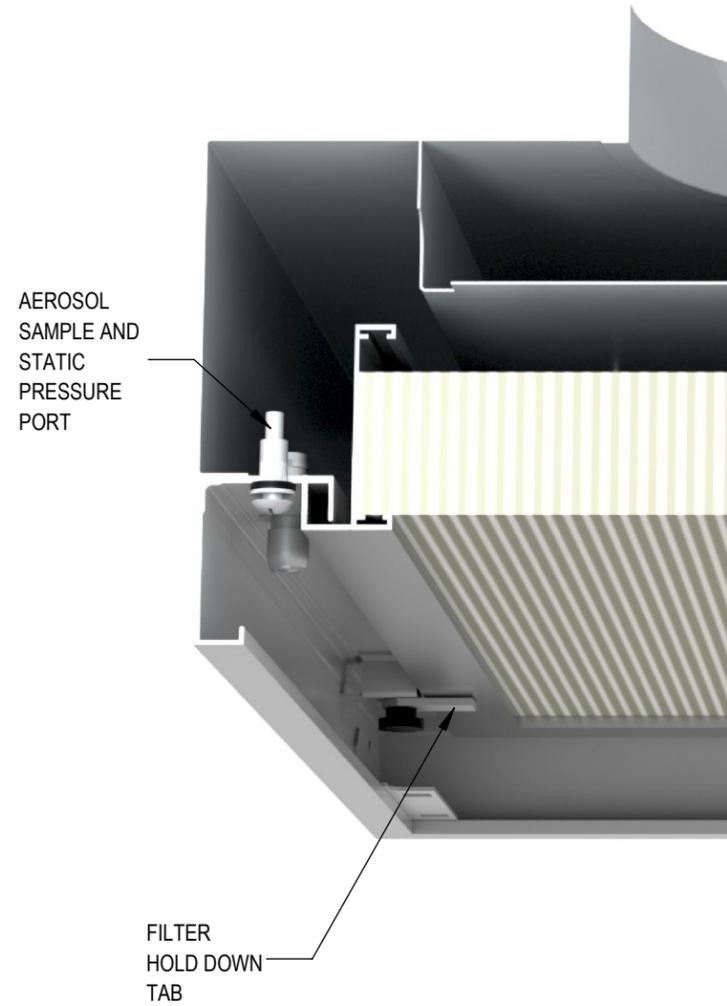
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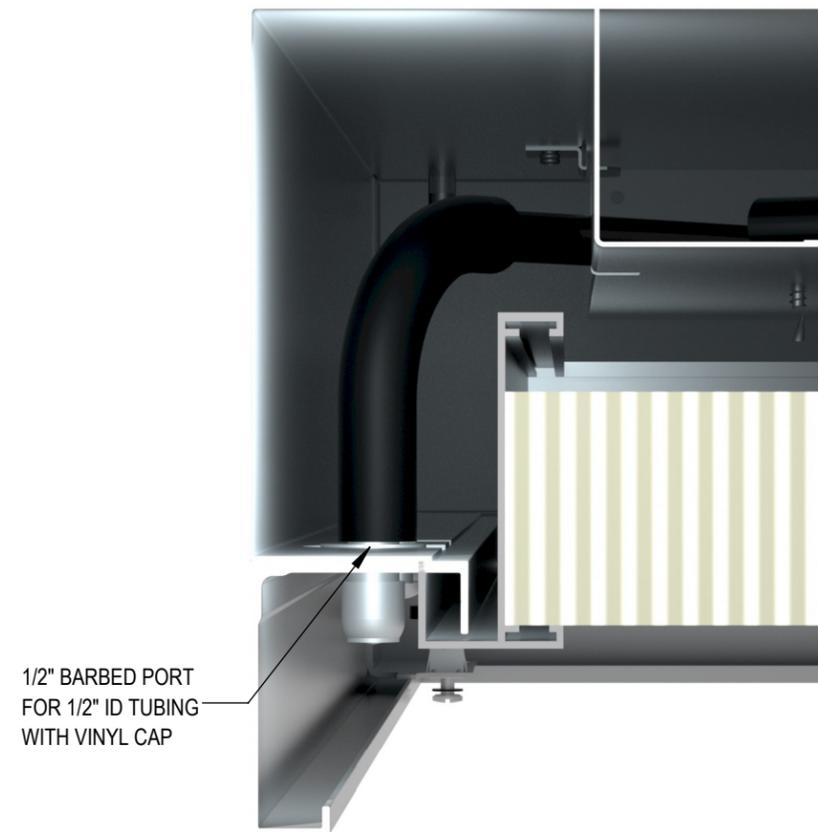
# RVDC

## RADIAL VANE DIFFUSER WITH HEPA FILTER DETAIL VIEWS

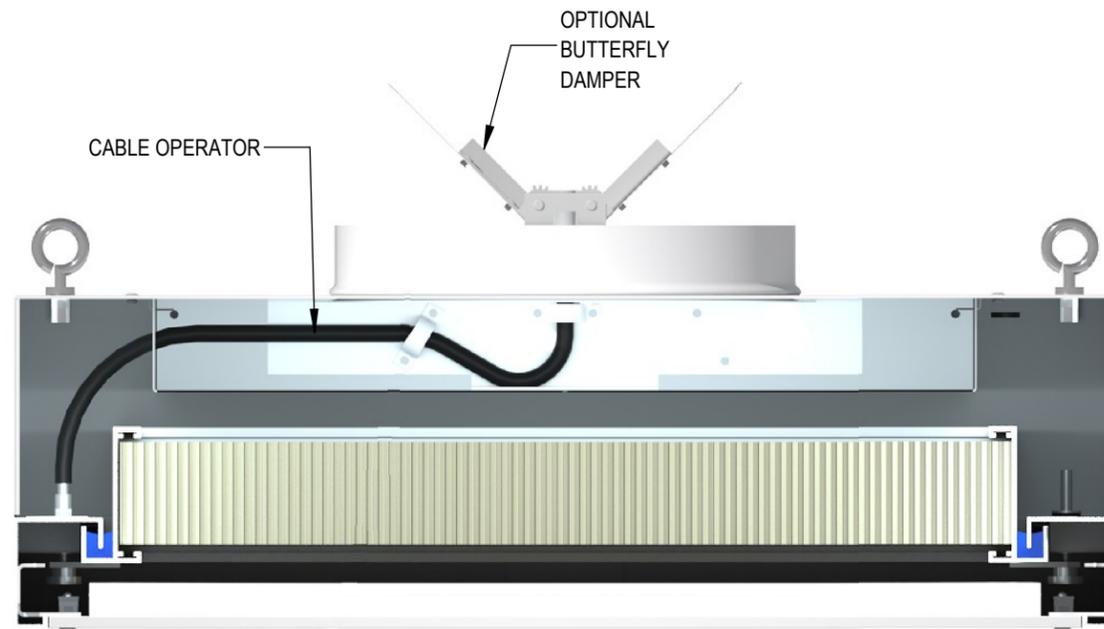
### AEROSOL/STATIC PORT DETAIL VIEW



### INJ - AEROSOL INJECTION PORT DETAIL VIEW



### DAMPER DETAIL VIEW



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

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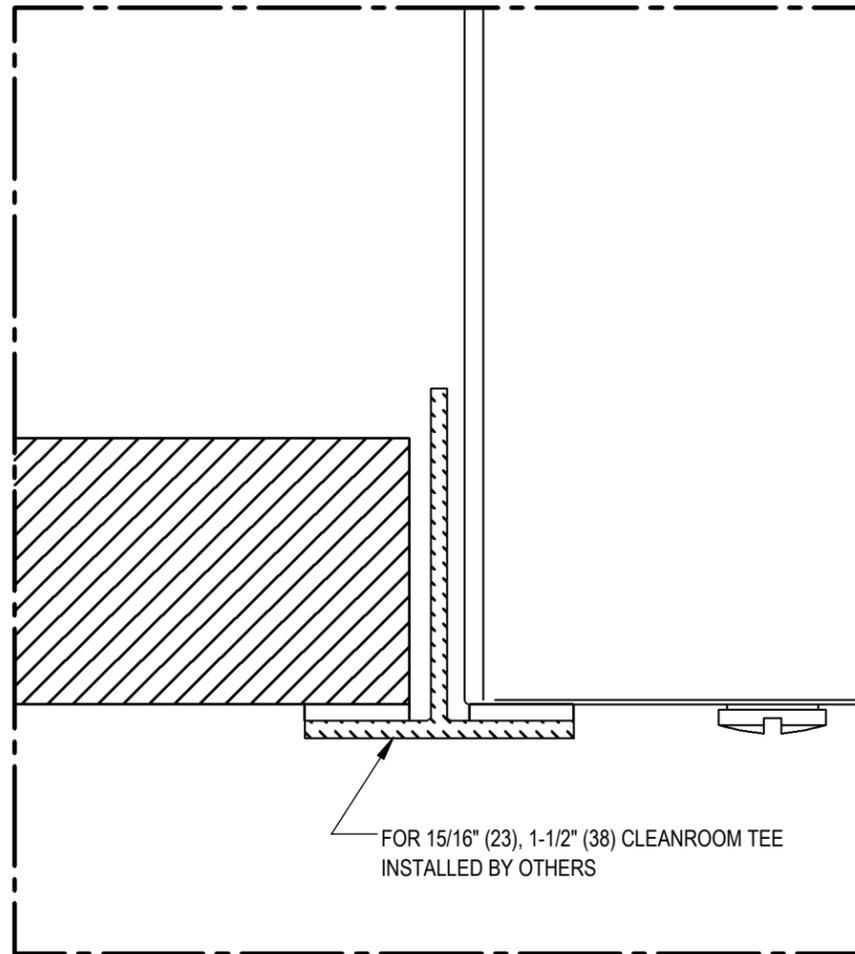
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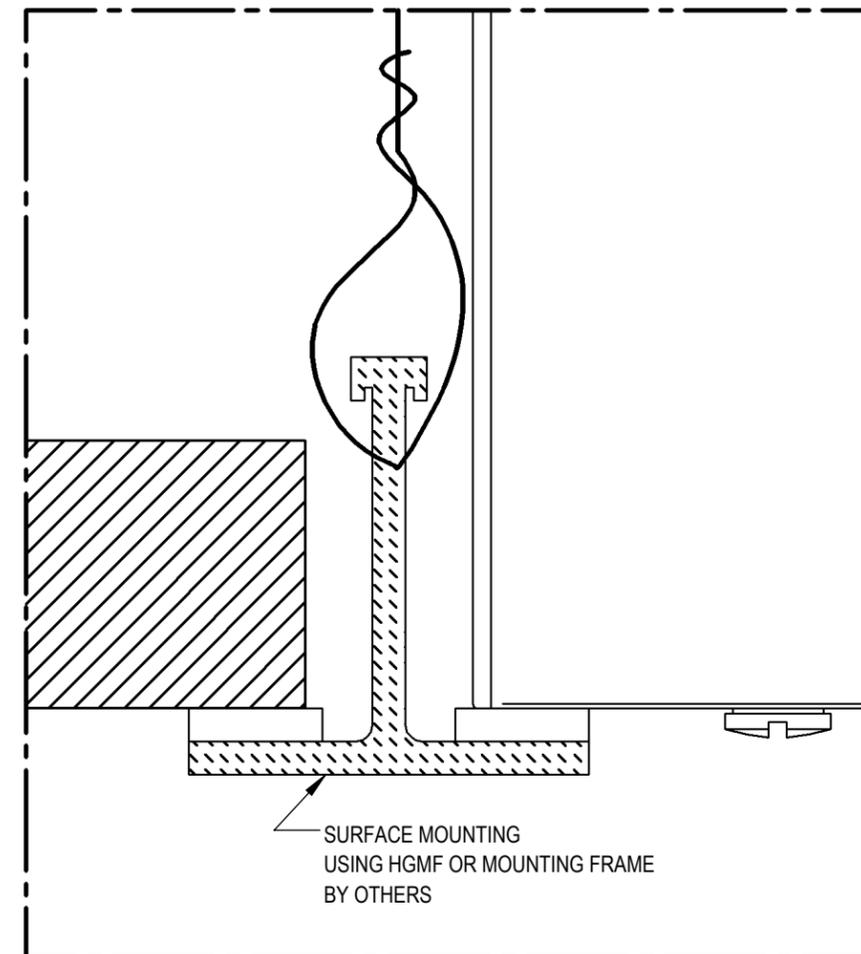
# RVDC

## 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](#)

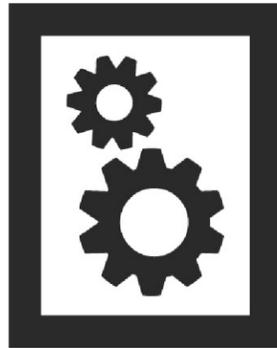
[RVDC RADIAL VANE DIFFUSER WITH HEPA FILTER PERFORMANCE DATA](#)



### 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](#)



### WEBSITE

[FOR MORE INFORMATION VISIT PRICEINDUSTRIES.COM](#)



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