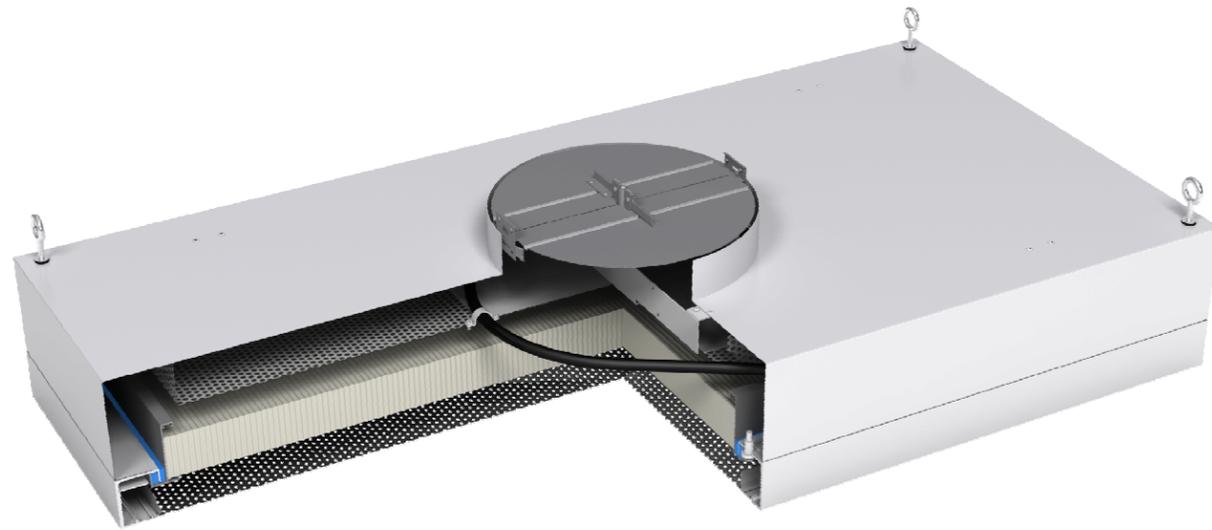


LFDC

LAMINAR FLOW DIFFUSER WITH HEPA FILTER

FEATURES:

- THE LFDC CONTROLS PARTICULATE CONCENTRATION WITHIN A ROOM BY PROVIDING UNIDIRECTIONAL LAMINAR AIRFLOW WITH LOW INITIAL FACE VELOCITY, SUPPLYING CLEAN, HEPA FILTERED AIR TO THE SPACE
- ROOM-SIDE REPLACEABLE HEPA FILTER REMOVES 99.99% OF AIRBORNE PARTICULATE
- CLASSIFIED AS AN ASHRAE GROUP E NON-ASPIRATING DIFFUSER 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:

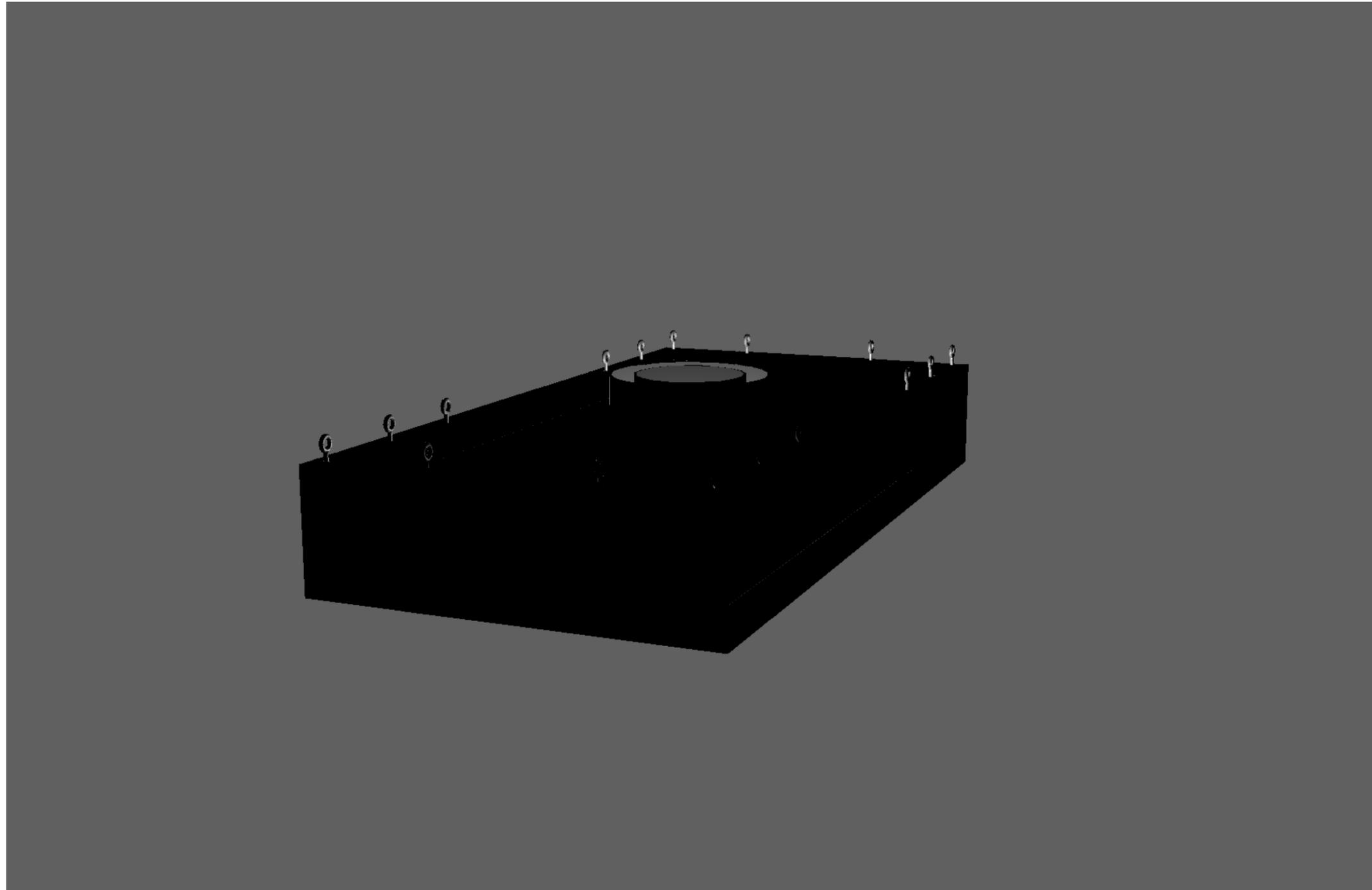
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02-08-2023

LFDC 

LAMINAR 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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LAMINAR FLOW 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 +/- $\frac{1}{32}$ "

PLENUM CONSTRUCTION

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

FACE CONSTRUCTION

- ALUMINUM - PERFORATED PANEL AND EXTRUDED INNER FRAME
- STAINLESS STEEL - 304PERFORATED PANEL AND INNER FRAME

PLENUM FINISH

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

FACE AND FRAME FINISH

- B12 STANDARD WHITE
- #4 STAINLESS STEEL (OPTIONAL FINISH AVAILABLE)

INLET SIZES

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

FILTER

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

DAMPER (OPTIONAL)

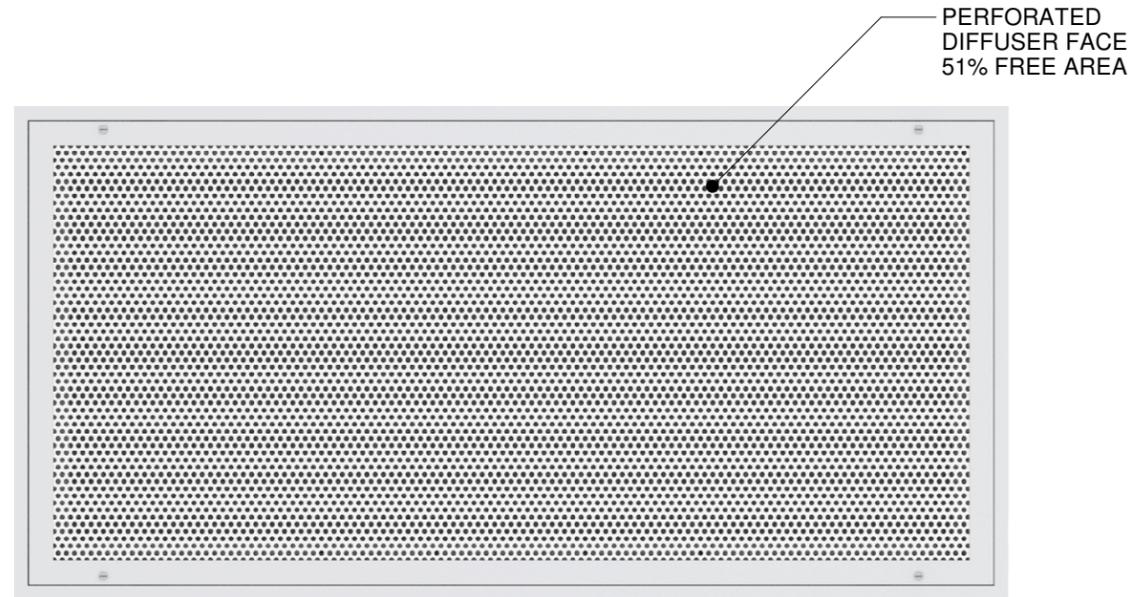
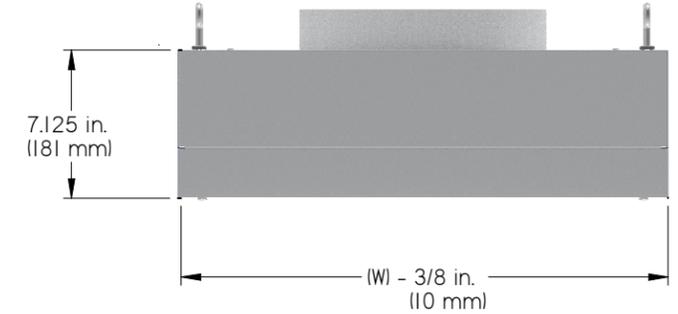
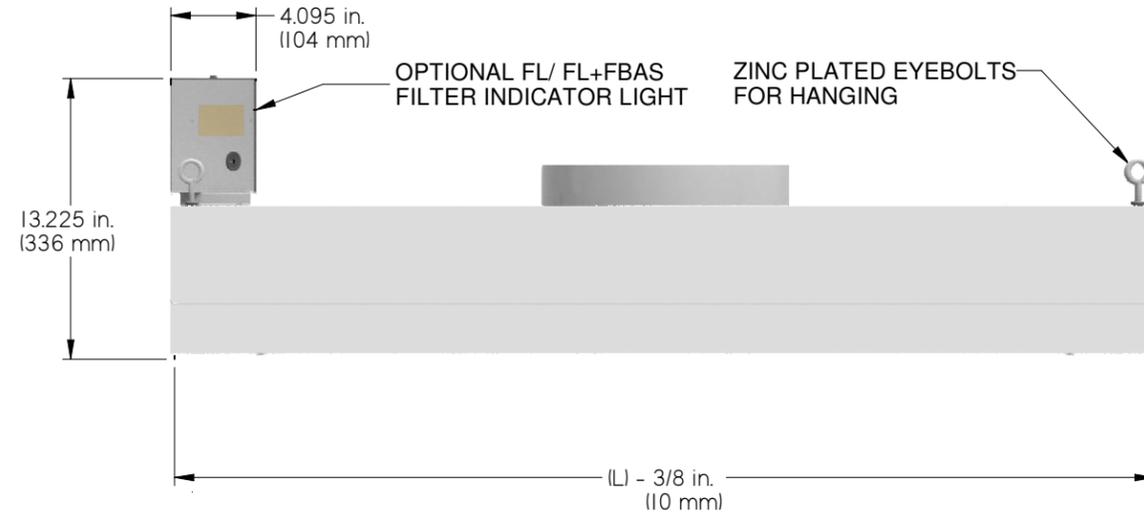
- VRC8EC - BUTTERFLY DAMPER, WHITE POWDER COATED STEEL BLADES
- VRC8ECSS - BUTTERFLY DAMPER, STAINLESS STEEL BLADES

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" 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)



IMPERIAL UNITS (INCHES)

NOMINAL UNIT SIZE (W x L)	ACTUAL WIDTH	ACTUAL LENGTH	FILTER AREA (sq.ft.)
24 x 48	23.625	47.625	5.3
24 x 36	23.625	35.625	3.8
24 x 24	23.625	23.625	2.3
12 x 48	11.625	47.625	1.8

SI UNITS (MM)

NOMINAL UNIT SIZE (W x L)	ACTUAL WIDTH	ACTUAL LENGTH	FILTER AREA (m ²)
600 x 1200	590	1190	0.48
600 x 900	590	890	0.34
600 x 600	590	590	0.21

PRICE | **CRITICAL ENVIRONMENTS**

PROJECT:

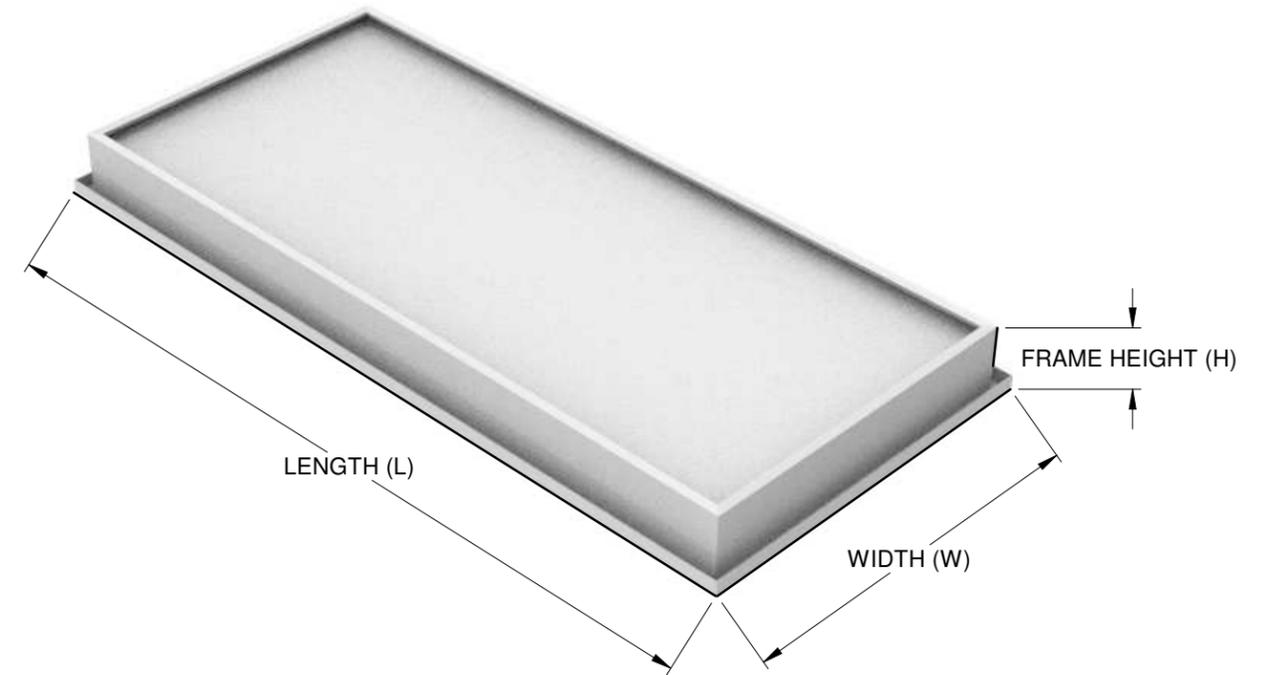
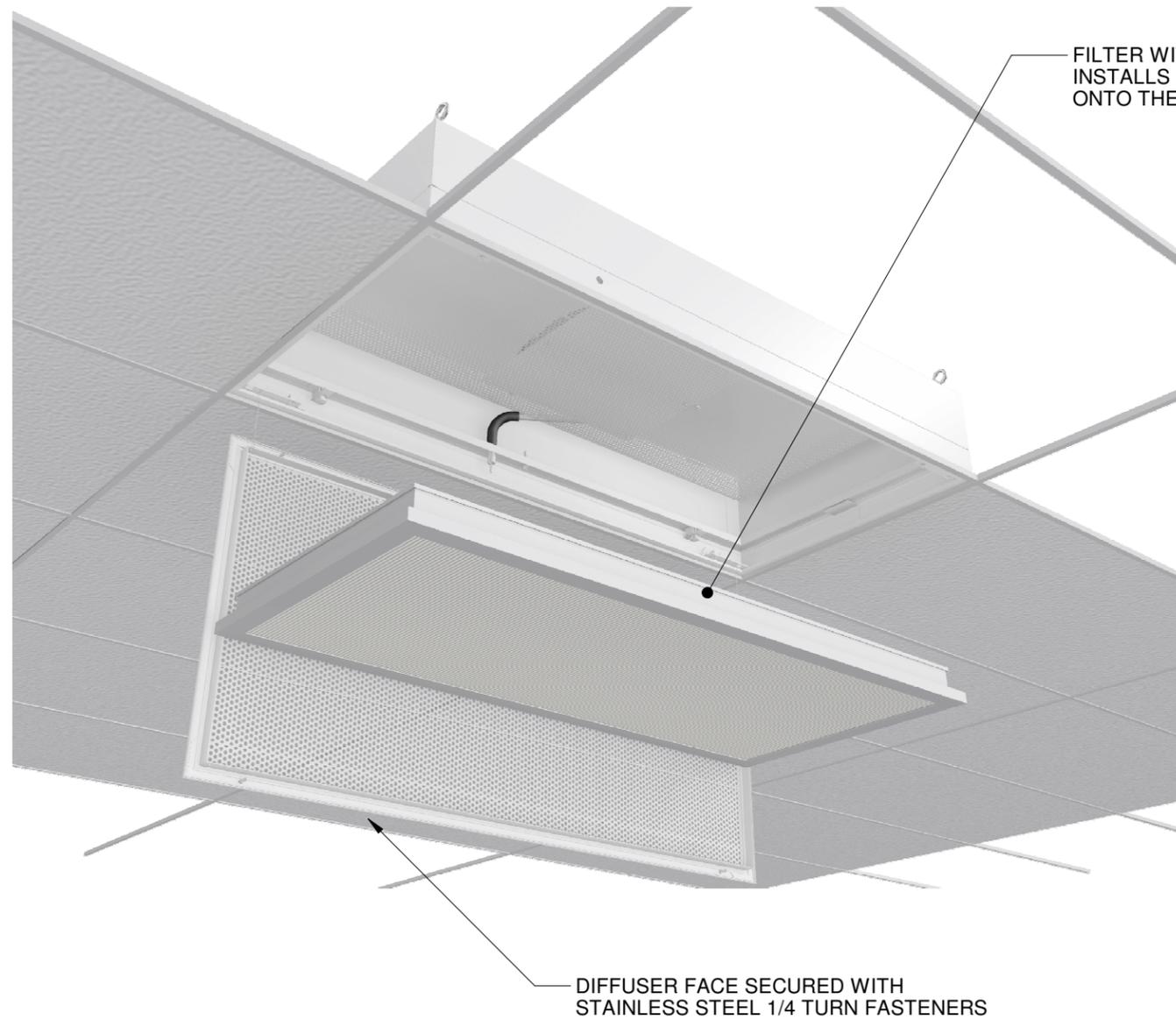
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LAMINAR FLOW DIFFUSER WITH HEPA FILTER FILTER DETAILS



IMPERIAL UNITS (INCHES)

NOMINAL UNIT SIZE	ACTUAL FILTER SIZE		
	WIDTH (W)	LENGTH (L)	HEIGHT (H)
24 x 24	20.69	20.69	2.88
24 x 36	20.69	32.69	2.88
24 x 48	20.69	44.69	2.88
12 x 48	8.69	44.69	2.88

SI UNITS (MM)

NOMINAL UNIT SIZE	ACTUAL FILTER SIZE		
	WIDTH (W)	LENGTH (L)	HEIGHT (H)
600 x 600	516	516	73
600 x 900	516	816	73
600 x 1200	516	1116	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



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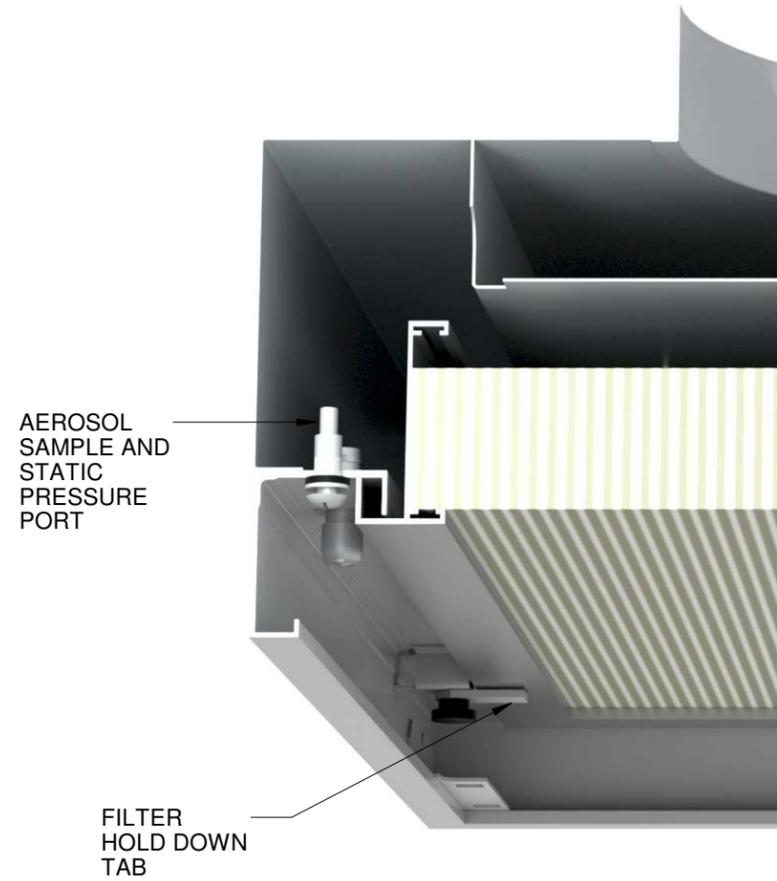
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VISIT PRICE INDUSTRIES WEBSITE FOR FILTER INSTALLATION GUIDE

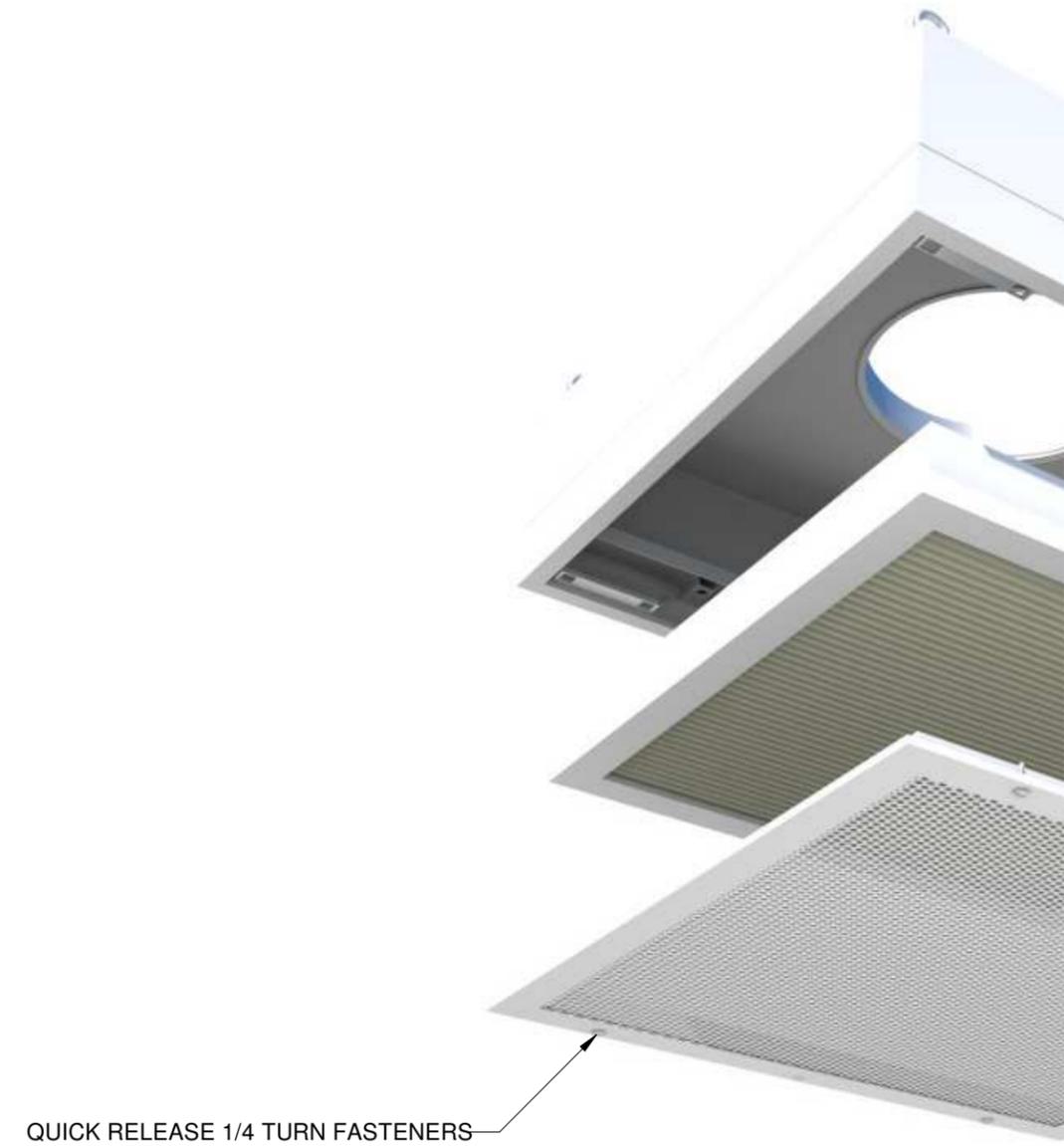
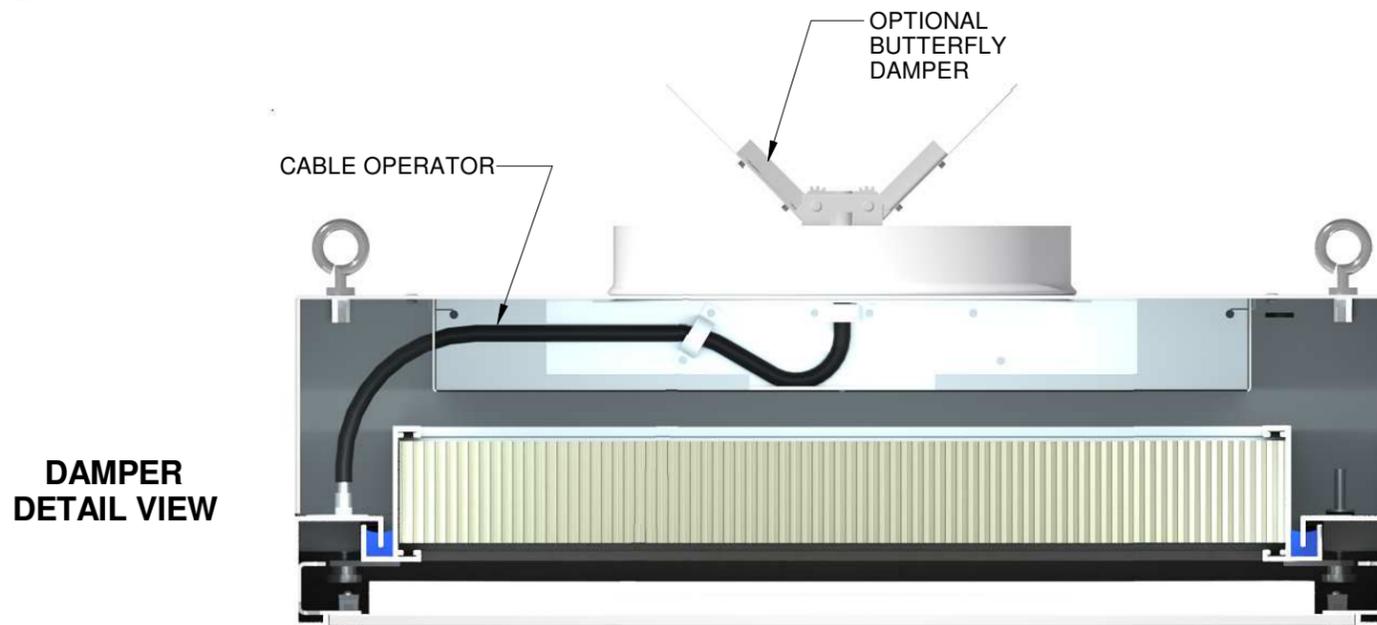
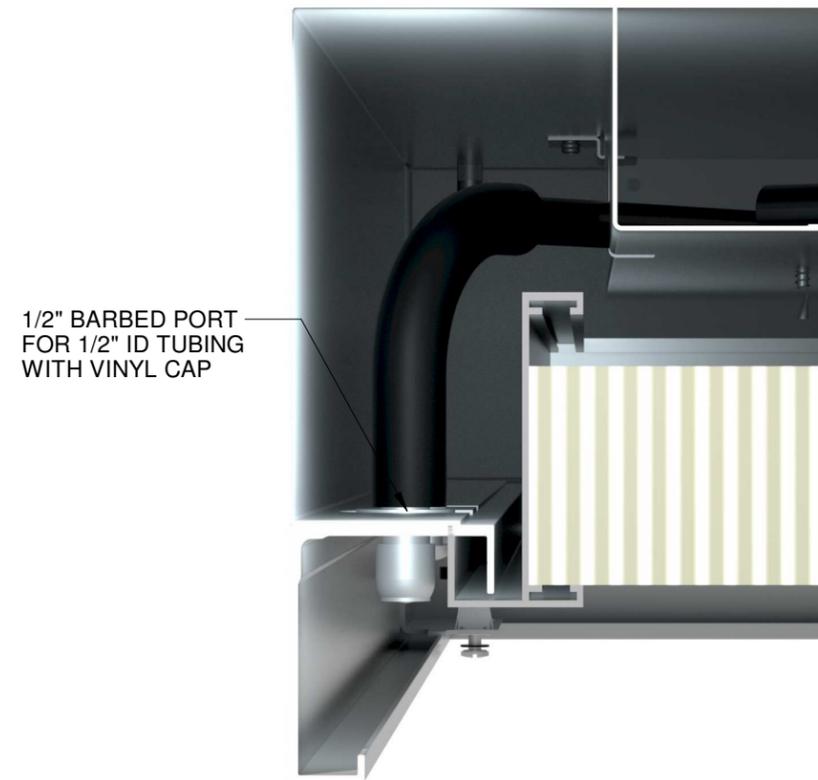
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LAMINAR FLOW DIFFUSER WITH HEPA FILTER DETAIL VIEWS

AEROSOL/STATIC PORT DETAIL VIEW



INJ - AEROSOL INJECTION PORT DETAIL VIEW



PRICE | **CRITICAL ENVIRONMENTS**

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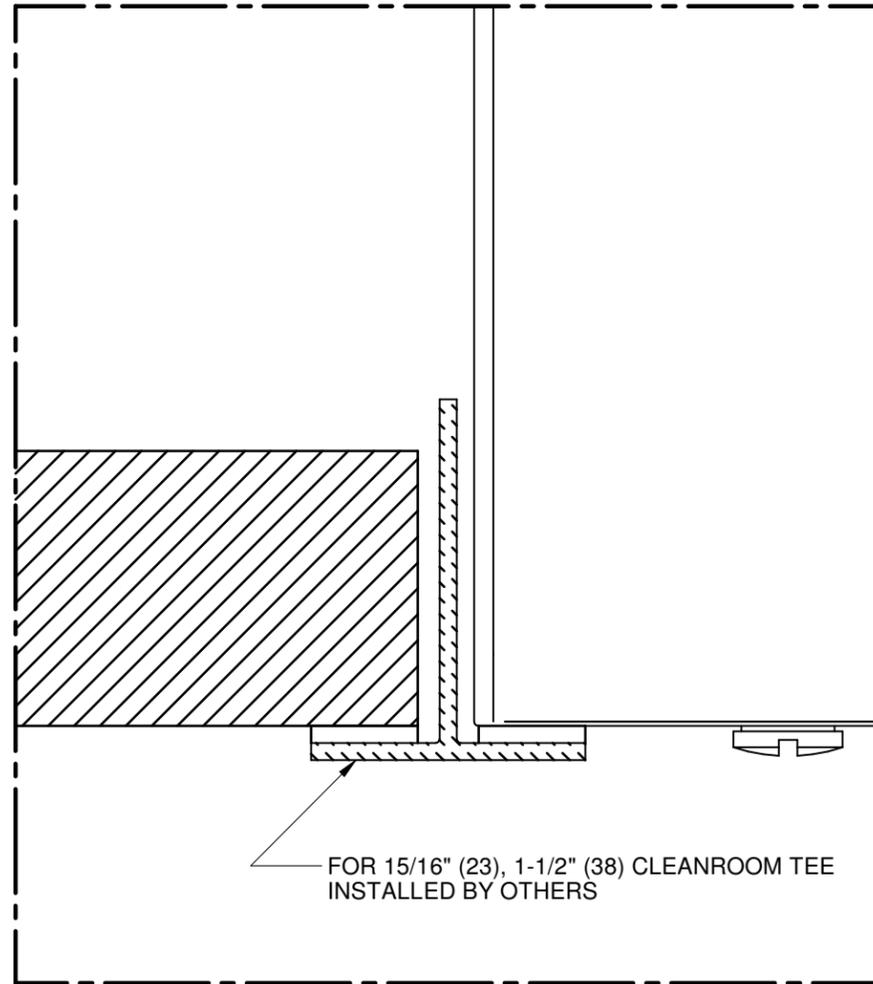
Revision: E

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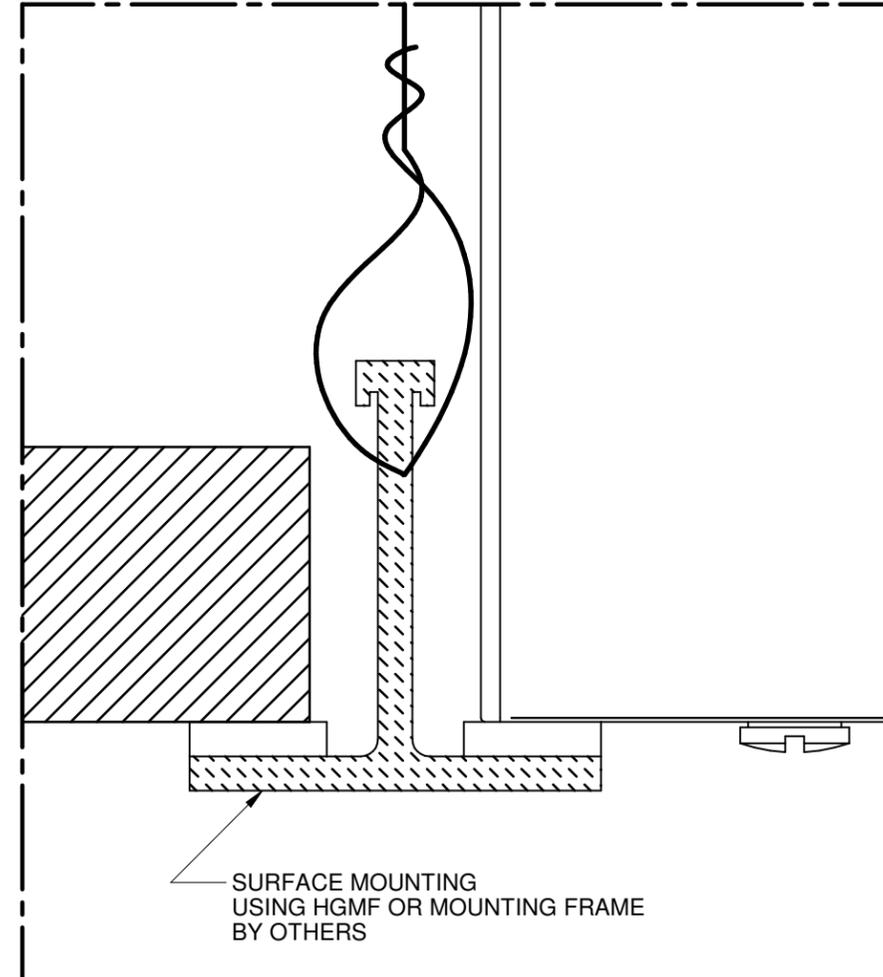
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LAMINAR FLOW DIFFUSER WITH HEPA FILTER MOUNTING DETAILS

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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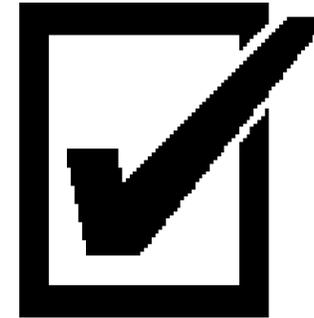
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LAMINAR FLOW DIFFUSER WITH HEPA FILTER SUPPORTING CONTENT



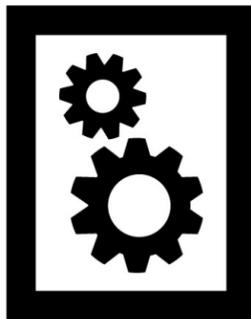
CATALOG / PERFORMANCE

- LFDC LAMINAR FLOW DIFFUSER WITH HEPA FILTER CATALOG
- LFDC LAMINAR FLOW DIFFUSER WITH HEPA FILTER PERFORMANCE DATA
- LFDC LAMINAR FLOW DIFFUSER WITH HEPA FILTER PERFORMANCE DATA (METRIC)



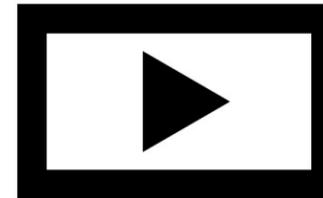
SUBMITTALS

- 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 KIT INSTALLATION MANUAL



VIDEOS

- FILTER TESTING & AEROSOL INJECTION



SPECIFICATIONS

- LFDC LAMINAR FLOW DIFFUSER WITH HEPA FILTER SPECIFICATION



FOR MORE INFORMATION ON PRICE LAMINAR FLOW DIFFUSERS,
VISIT PRICEINDUSTRIES.COM

PRICE | **CRITICAL ENVIRONMENTS**

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