

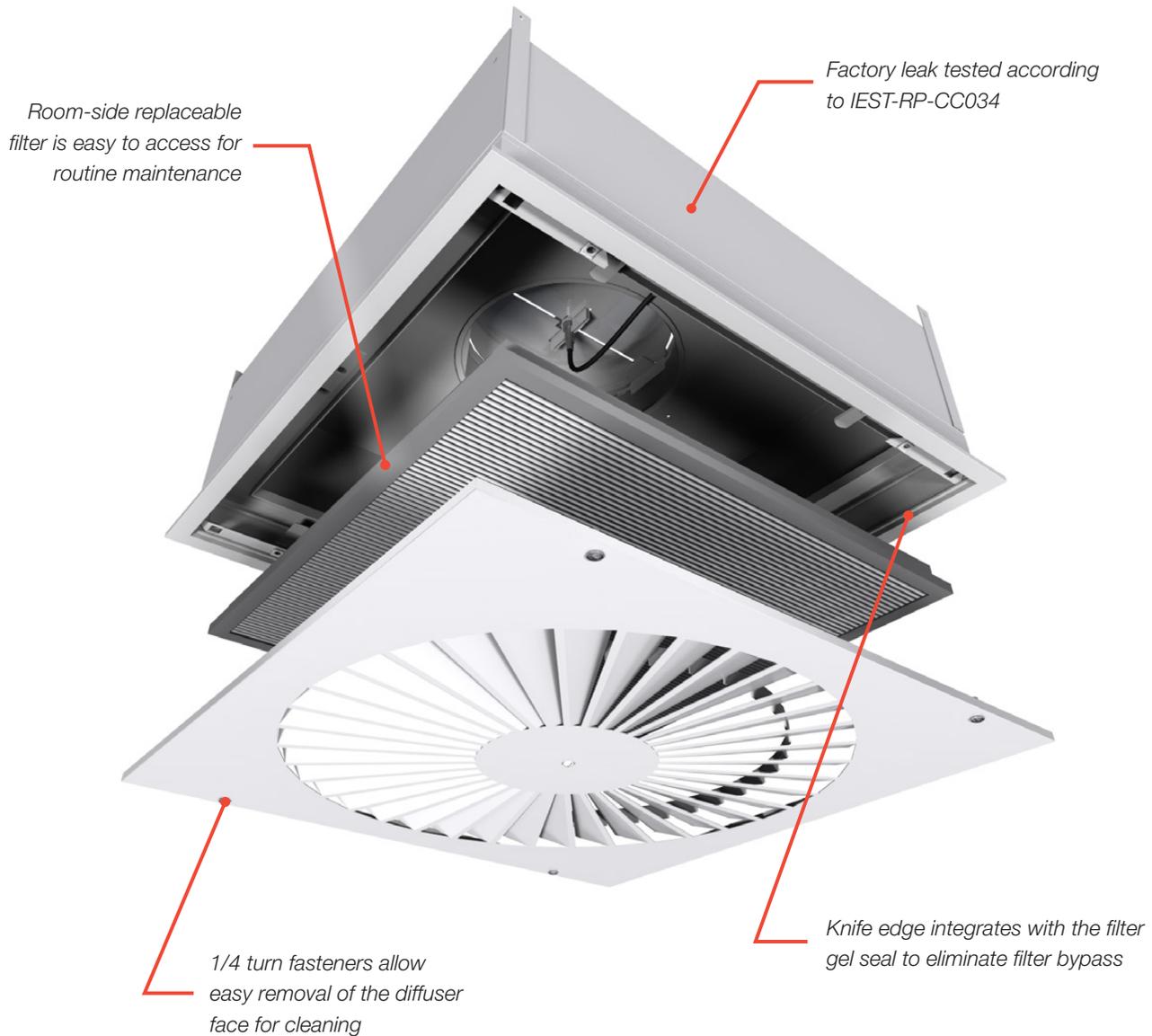
RVDC

RADIAL VANE DIFFUSER WITH HEPA FILTER



RVDC Radial Vane Diffuser with HEPA Filter

The Radial Vane Diffuser with HEPA Filter (RVDC) features radial slots that provide a high induction vortex airflow that projects horizontally from the face of the diffuser. The resulting airflow provides rapid mixing of supply air with the room air and short throws, allowing large quantities of air to be introduced while maintaining thermal comfort. The rapid mixing of filtered supply air with the room air reduces particle contamination and is ideal for cleanrooms.

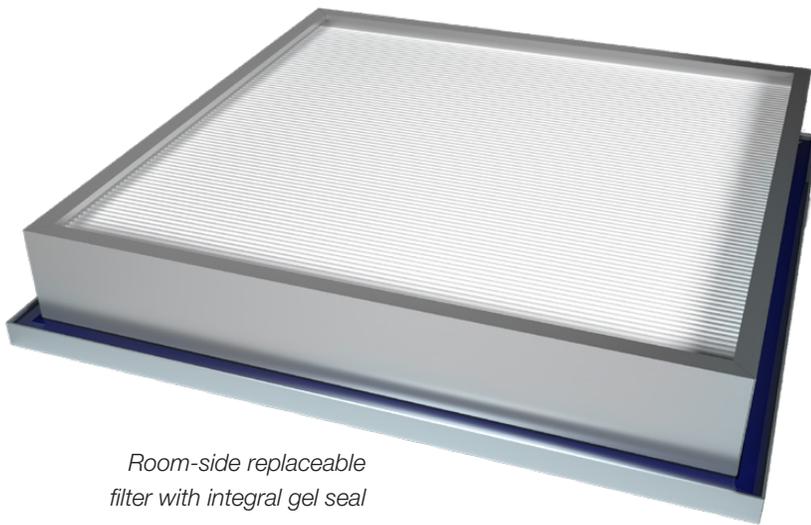


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ROOM-SIDE REPLACEABLE FILTER

- + Convenient access from the room-side for periodic filter replacement.
- + Gel seal filter frame and diffuser "knife edge" flange form a reliable seal to prevent filter bypass.
- + Optional factory supplied HEPA filter removes 99.99% of contaminants.



*Room-side replaceable
filter with integral gel seal*

TYPICAL APPLICATIONS

The air pattern produced by the RVDC promotes a high rate of induction and rapid mixing of clean supply air with the room air, thereby reducing particle contamination and making this product ideal for cleanrooms.

CONSTRUCTION

- + Options
 - Cable operated damper (VCR8EC)
 - External insulation

CLEANING AND MAINTENANCE

- + RVDC units satisfy all ASHRAE 170 requirements for diffuser cleaning and maintenance.
- + Powder coat paint finish is formulated for routine exposure to hospital grade cleaning solutions and disinfectants.
- + Stainless steel 1/4 turn fasteners and retainer cables provide straightforward and convenient access to the filter and knife-edge frame.

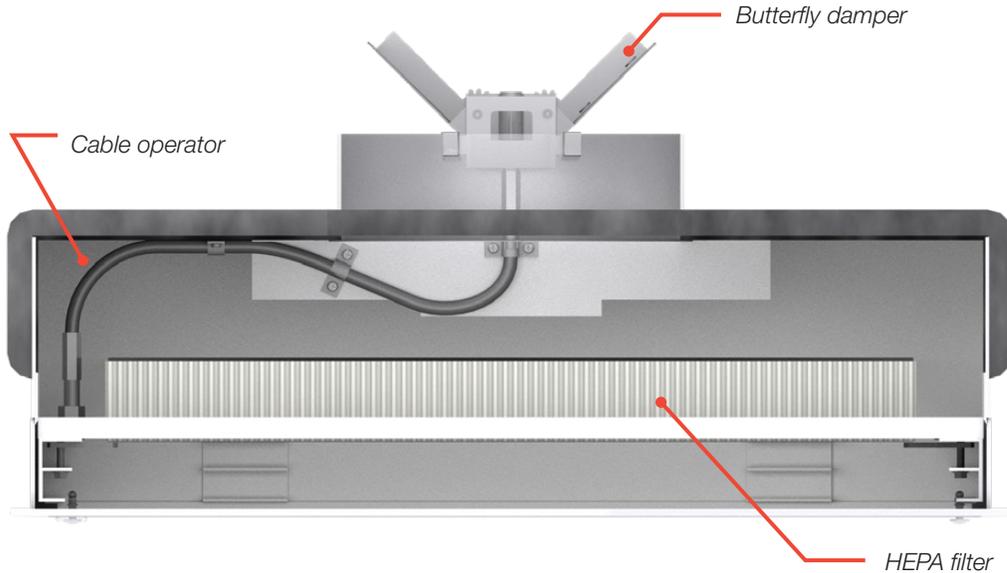


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ROOM-SIDE ADJUSTABLE DAMPER

- + An optional remote cable operated damper allows adjustment of the damper with the filter in place using a standard screwdriver.
- + Locating the damper operator outside of the filter maximizes filter area, leading to a larger airflow capacity and less pressure drop.



Room-side adjustable damper side view

AEROSOL SAMPLE AND STATIC PRESSURE PORT

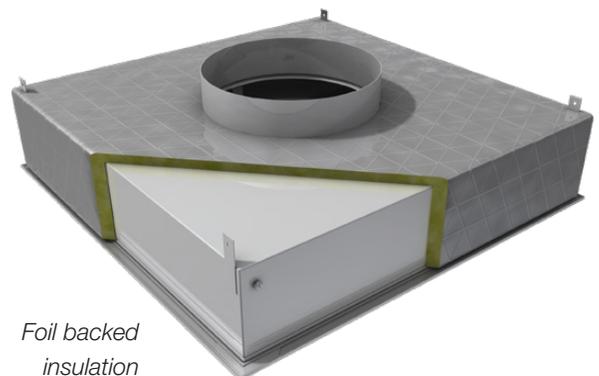
- + Used for room-side field measurement of static pressure and challenge aerosol concentrations upstream of the filter during the commissioning process.

FACTORY LEAK TESTING AND CERTIFICATION

- + Every RVDC is factory tested and certified leak-free in accordance with IEST-RP-CC034.

EXTERNAL INSULATION

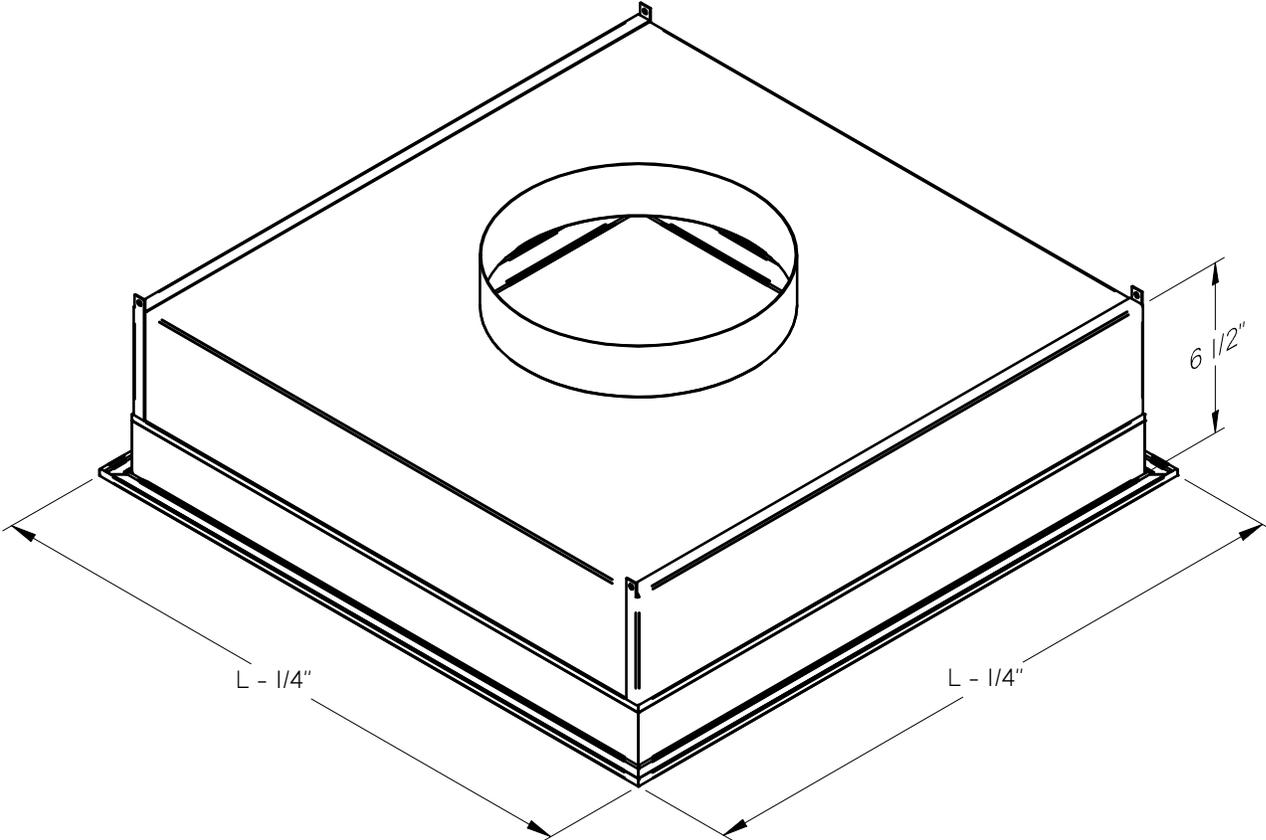
- + Ensures quality application and minimize field labor with factory installed insulation.
- + Eliminates condensation risk associated with unconditioned plenum air exposure to cold diffuser surfaces.
- + Reduces thermal gain for improved energy savings.
- + Insulation meets ASTM E84 and UL723 requirements.



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DIMENSIONAL DATA



Nominal Sizes	
W x L	Inlet Size
24 in. x 24 in.	10 in.

PERFORMANCE DATA

Unit Size (in.)	Air Flow (cfm)	Filter	Static Pressure (in. w.g.)	Sound (NC)	Horizontal Throw (ft.) 100-75-50 fpm
24 x 24	150	HE	0.14	-	1-2-4
	200		0.21	-	2-3-6
	250		0.28	-	2-4-7
	150	HEPA	0.36	-	1-2-4
	200		0.50	-	2-3-6
	250		0.62	-	2-4-7
	150	ULPA	0.50	-	1-2-4
	200		0.70	-	2-3-6
	250		0.88	-	2-4-7

Performance Notes:

1. sp = Static Pressure, in. w.g., required at inlet for the listed cfm.
2. cfm = Air flow in cubic feet per minute [cfm].
3. NC = Noise Criteria. NC values are based on room absorption of 10dB, re 10⁻¹² watts.
4. Blanks "-" indicate an NC level below 15.
5. Throw are given in feet to terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
6. Throw values are based on isothermal conditions.
7. sp and NC at full open damper position.
8. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."



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