



# SPECIFICATIONS

## VECTOR®

### VECTOR® Suggested Specification:

Radial flow diffusers for critical air diffusion applications shall be the Tuttle & Bailey VECTOR®. Diffusers shall provide non-aspirating, low velocity, radial displacement within the space. Installed units shall provide a flush line with ceiling system; faces that drop below the ceiling are not acceptable.

The unit shall consist of an internal baffle to evenly distribute the airflow over the face of the diffuser. The face assembly shall include a perforated face and fixed longitudinal louvers to achieve the required 180° (2-way) or 90° (1-way) airflow pattern. The face of the diffuser shall be hinged to prevent dropping during opening. The face assembly shall be easily removed with quarter turn fasteners and shall include safety cables attached to the backpan assembly. The backpan shall have seismic tabs on all four corners to permit attachment to the ceiling structure.

Engineering data shall be based upon tests conducted in accordance with ASHRAE Standard 70-1991, Method of Testing for Rating the Performance of Air Outlets and Inlets. Published Noise Criteria (NC) data shall be determined based upon a 10dB room attenuation across all octave bands.

The Finish shall be Tuttle & Bailey White (WH) Powder Coat or Mill finish.

### VECTOR®-H Suggested Specification:

Radial flow diffusers with HEPA accommodating backpan for critical air diffusion applications shall be the Tuttle & Bailey VECTOR®-H. Diffusers shall provide non-aspirating, low velocity, radial displacement within the space. Installed units shall provide a flush line with ceiling system; faces that drop below the ceiling are not acceptable.

The unit shall consist of a back frame assembly, a secondary equalization chamber and a knife-edge to accept the gel seal of the HEPA filter. HEPA filter shall be provided by diffuser manufacturer. Heavy duty swivel clamps shall be used to secure the filter gel seal to the unit. The face assembly shall include a perforated face and fixed longitudinal louvers to achieve the required 180° (2-way) airflow pattern. The face of the diffuser shall be secured to the backpan with stainless steel quarter turn fasteners for easy removal. The backpan shall have seismic tabs on all four corners to permit attachment to the ceiling structure.

The Finish shall be Tuttle & Bailey White (WH) Powder Coat or Mill finish.

Critical Environment

VECTOR®	Material	Neck Size	Module	Pattern	Finish
		06			
		08			
		10			
		12			
	CS - Steel				
	AL - Aluminum				
	SS - 304 Stainless Steel				
			24x24		
			*48x12		
			48x24		
				1W - 1-way	
				2W - 2-way	
					WH - White
					ML - Mill

VECTOR® : Complete Unit  
 VECTOR®-F : Face Only  
 \*VECTOR®-H : HEPA Unit

\*VECTOR®-H : only available with 2W - 2-way pattern and SS material or Aluminum

\*\*48x12 only available in 1-way pattern

Example: VECTOR®-H - SS - 08 - 24x24 - 2W - WH

### Notes:

The VECTOR® is designed to fit standard Lay-In T-bar ceiling configurations. For surface mount applications, order the ASMF aluminum surface mount frame.