

TADHF, TADSSHf Suggested Specification & Configuration

TADHF, TADSSHf

The non-aspirating, radial displacement diffuser designed to be fitted with a HEPA filter shall be a Krueger model TADHF of the sizes shown on the plans or outlet schedule.

The diffuser shall be of such a design to permit the HEPA filter, by others, to be removed from, or installed into, the backpan on an unobstructed path without the need to have access above the ceiling. The backpan shall also permit the seal on the HEPA filter to be the gel pocket type.

The diffuser shall be capable of increasing the space particle count removal rate three times of a laminar flow diffuser of the same rated capacity as determined by tests using laser particle count technology.

The diffuser backpan shall be optimized and sized to provide correct airflow into HEPA filter.

The diffuser backpan shall have a hanger tab at all four corners to permit its attachment to the overhead structure.

The face of the diffuser shall be completely removable for sanitizing. The face shall be secured with quarter turn fasteners and shall have safety cables to prevent its accidental dropping during removal of the face.

The face of the diffuser shall have a free area not exceeding 15% to ensure true non-aspirating flow.

PERFORMANCE

The diffuser shall be tested for sound generation and pressure drop in accordance with ANSI/ASHRAE Standard 70. The diffuser shall be tested for room air velocities in accordance with ASHRAE Standard 113. The manufacturer shall be able to provide published performance data in printed or electronic format.

STANDARD FINISH

The paint finish shall be #44 British White, powder coat paint, baked at 425°F. The paint thickness shall be 2.0 – 3.0 mils, gloss at 60° per ASTM D523-89 of 60 – 70%, pencil hardness per ASTM D3363-92A of H – 2H, crosshatch adhesion per ASTM D3359-83 of 5B, salt spray per ASTM B117-9048 of 1000 hours, humidity per ASTM D2247-92 of 1000 hours and conical mandrel per ASTM D522 of 1/8" conical bend, no cracking shows.

ANTIMICROBIAL FINISH

The paint finish shall be powder coat paint, baked at 425°F. The paint thickness shall be 2.0 – 3.0 mils, gloss at 60° per ASTM D523-89 of 55 – 65%, pencil hardness per ASTM D3363-92A of H – 2H, crosshatch adhesion per ASTM D3359-83 of 5B, salt spray per ASTM B117-9048 of 1000 hours, humidity per ASTM D2247-92 of 1000 hours and conical mandrel per ASTM D522 of 1/8" conical bend, no cracking shows.

- 1. SERIES: (XXXXXXXX)**
 TADHF - Aluminum Total Air Diffuser
 Includes HEPA Filter Brackets and Compatible Backpan
 TADSSHf - Stainless Steel Total Air Diffuser
 Includes HEPA Filter Brackets and Compatible Backpan
- 2. DISCHARGE AIR PATTERN: (X)**
 1 - 1-Way (90°)
 2 - 2-Way (180°)
- 3. INLET: (XX)**
 8" - For 24"x24" Panel Size
 10" - For 24"x48" Panel Size
 12" - For 24"x48" Panel Size
- 4. PANEL: (XX)x(XX)**
 24"x24"
 24"x48"
- 5. FINISH: (XX)**
 01 - Mill
 10 - Alumican
 35 - Black
 44 - British White

HEPA filter provided by others.

CRITICAL ROOM PRODUCTS

T
A
D

SAMPLE CONFIGURATION: TADSSHf - 2 - 10 - 24x48 - 35