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DAT Series Air Turnover Systems

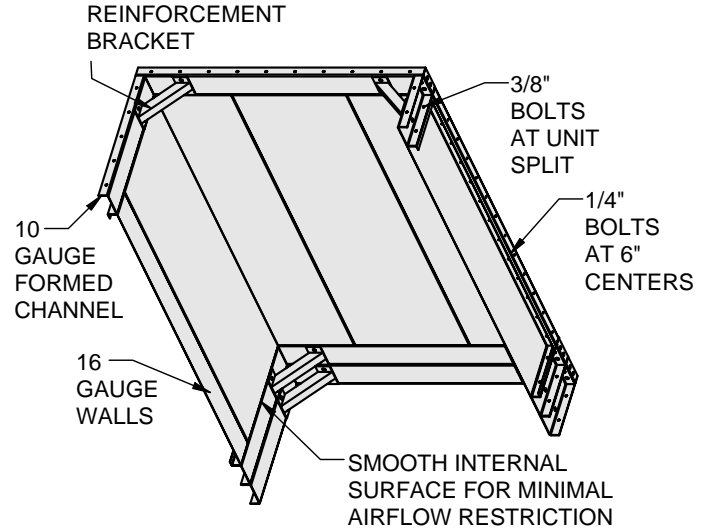
Casing Construction

WALLS AND BASE

Temprite's DAT Series is designed with a smooth interior surface which provides lower pressure drops, lower fan horsepower and quieter operation.

Maximum panel widths of 24" and the double break provide a rigid construction which prevents bulging (oil canning) during startup.

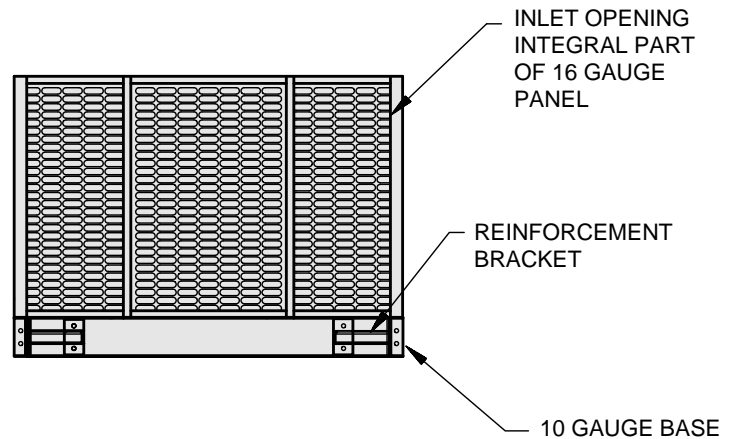
Walls are constructed from 16 gauge galvanized steel and assembled with zinc plated 1/4" bolt and nuts. The channel base is constructed from reinforced 10 gauge galvanized steel and assembled with 3/8" bolt and nuts.



AIR RETURN AND SUPPLY

The intake and discharge plenums are made of panel construction for greater rigidity when compared to conventional screen plenums. Diffuser holes are computer designed and manufactured with a CNC (Computerized Numerical Control) machine for minimal pressure resistance.

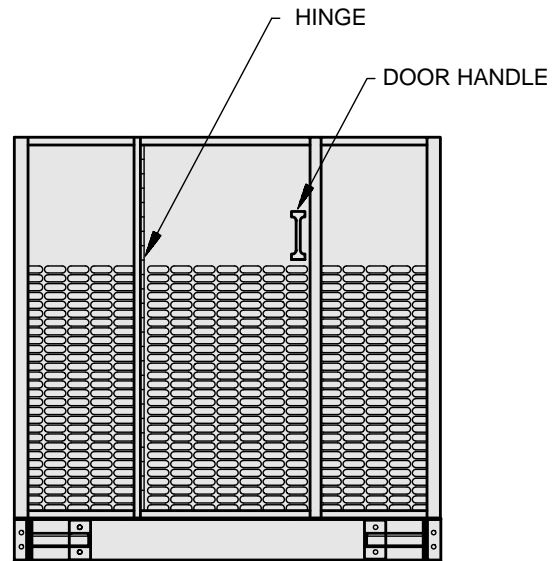
Intake and discharge plenums are available with three or four sided openings.



ACCESS DOORS

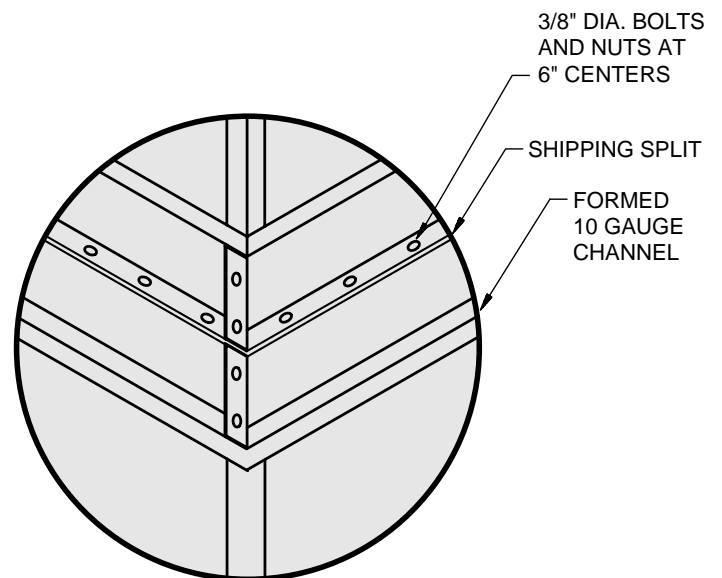
Component maintenance is easy with the hinged access doors. Each door is complete with a continuous piano hinge, handle and two captive screw fasteners.

The welded frames and panel style construction result in a rigid door.



SHIPPING SPLITS

Designed for simple field assembly, mating flanges are built of heavy gauge formed channel with matching holes. All mounting hardware is provided.



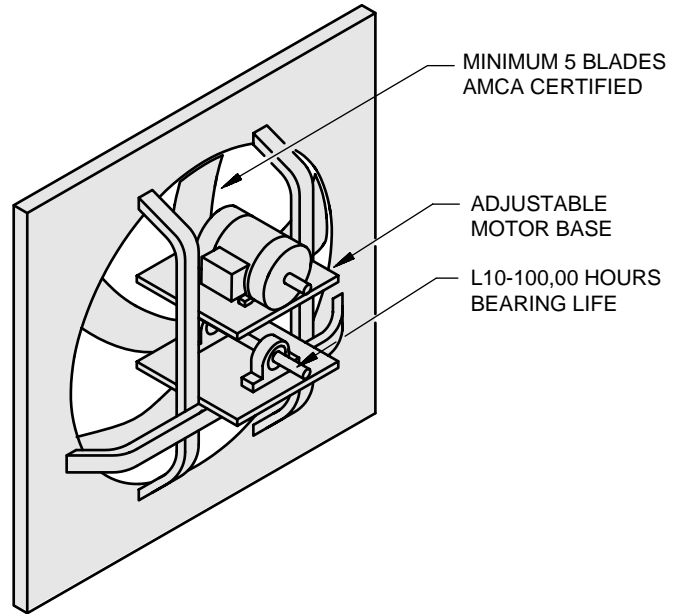
DAT Series Air Turnover Systems

Fan Assemblies

PROPELLER FANS

The most energy efficient and cost efficient solution is Temprite's low sound heavy duty propeller fans. Each is complete with long lasting pillow block bearings, adjustable drives and adjustable motor base.

Motors are available as ODP, TEFC, Standard and/or Premium Efficiency.

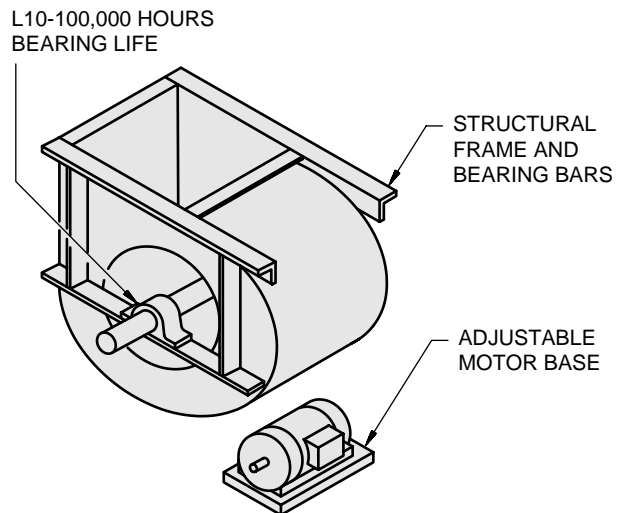


CENTRIFUGAL FANS

When higher statics from filters, dampers ductwork, etc. exists, use the AMCA rated forward curved centrifugal fans. Each is complete with heavy duty shaft, pillow block bearings, shaft coupling and belt drives.

These Fans are designed for low rpm and low noise levels.

Motors are available as ODP, TEFC, Standard and/or Premium Efficiency.



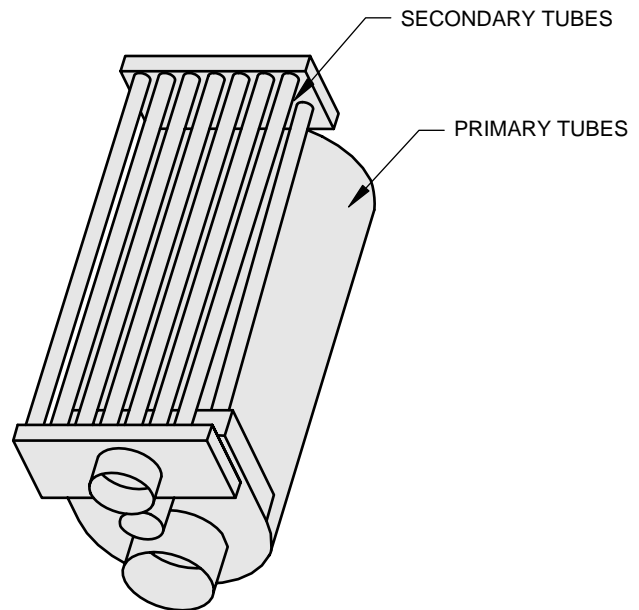
Combustion Section

CHAMBER

Temprite's TDM chamber is one of the most energy efficient (80%+) on the market. Long life has been ensured by designing the chamber for skin temperatures not to exceed 75% of the scaling temperature.

The secondary tubes incorporate a two pass arrangement for higher efficiency and long lasting performance. The primary chamber is 409 stainless. The secondary tubes are heavy gauge boiler tubes with an option for 409 stainless.

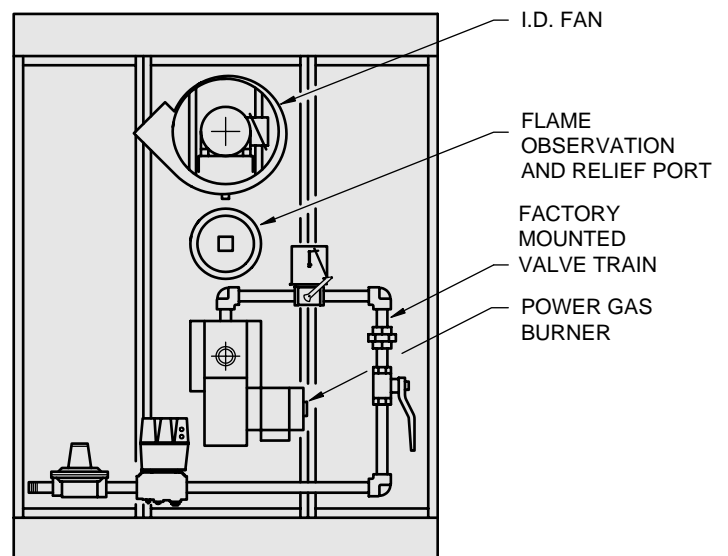
This is all backed by the standard 10 year non-prorated warranty.



BURNER AND I.D. FANS

Power type burners, complete with all safety controls, CSA, UL and ULC approved. Full modulation natural gas burners with up to 4 to 1 turndown. Propane or no. 2 light oil burners are also available.

Best heating performance is obtained with a slightly negative chamber. The Induced Draft (I.D.) fan with manual damper and locking quadrant allows for field set up for the exact operating conditions.



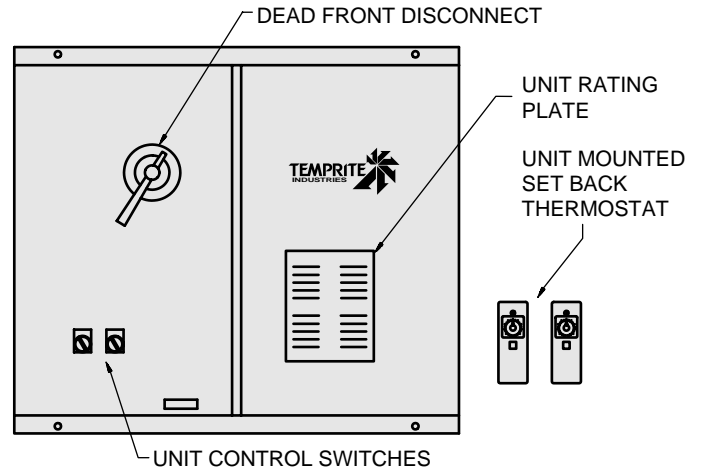
DAT Series Air Turnover Systems

Controls

ELECTRO-MECHANICAL

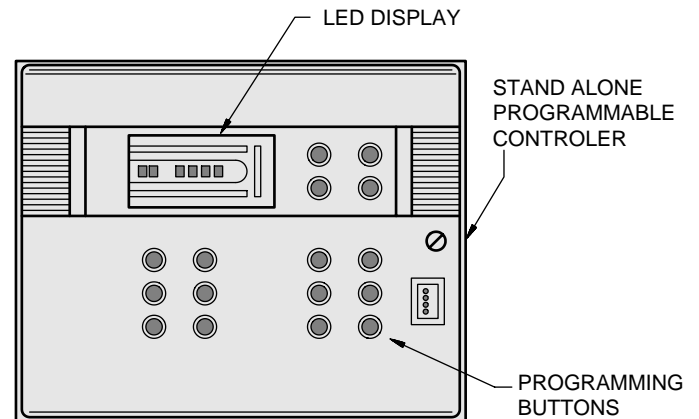
All Temprite units are complete with full safety controls and electro-mechanical temperature controls.

Mounted in a NEMA 1 (option - NEMA 12) panel is the motor starter, fuses, overloads, control transformer and controls. On the panel face is the disconnect switch, on/off switch and indicating lights.



TEC CONTROL

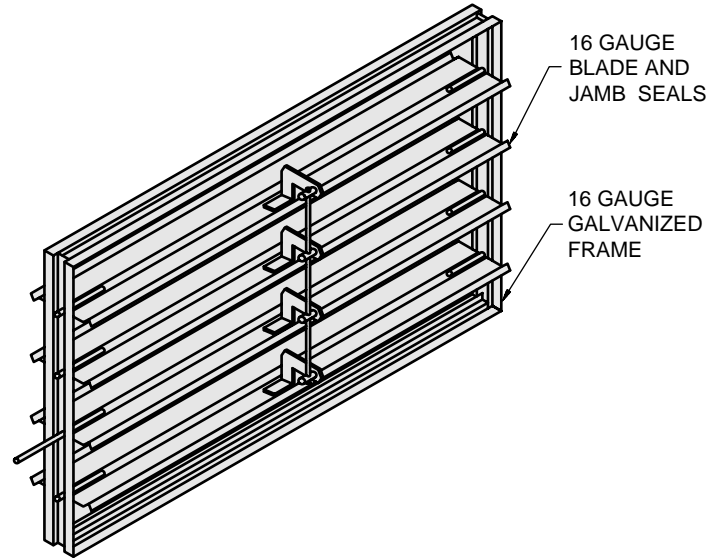
Improved energy conservation is achieved with Temprite's electronic controls (TEC) package. This programmable controller has temperature set back, building pressure control, mixed air control and on multiple unit applications, staggered firing to provide maximum efficiency.



Options

DAMPERS

Low leakage parallel blade type with 16 gauge galvanized blades and frame, sealed bearings and coated steel shafts provide long life and reliability for manual and automatic operation.



FILTERS

1" washable media filters and 2" disposable filters are available. Filters are mounted flat in racks at the return air openings or in a V-bank arrangement.

