



Introducing  
**MATO**  
Modular Air TurnOver

**A New Generation of Air Turnover Systems**

*Perfect for Heating and Cooling Warehouses,  
Factories, and Distribution Centers*





## Modular Air TurnOver

### Modular Air Turnover

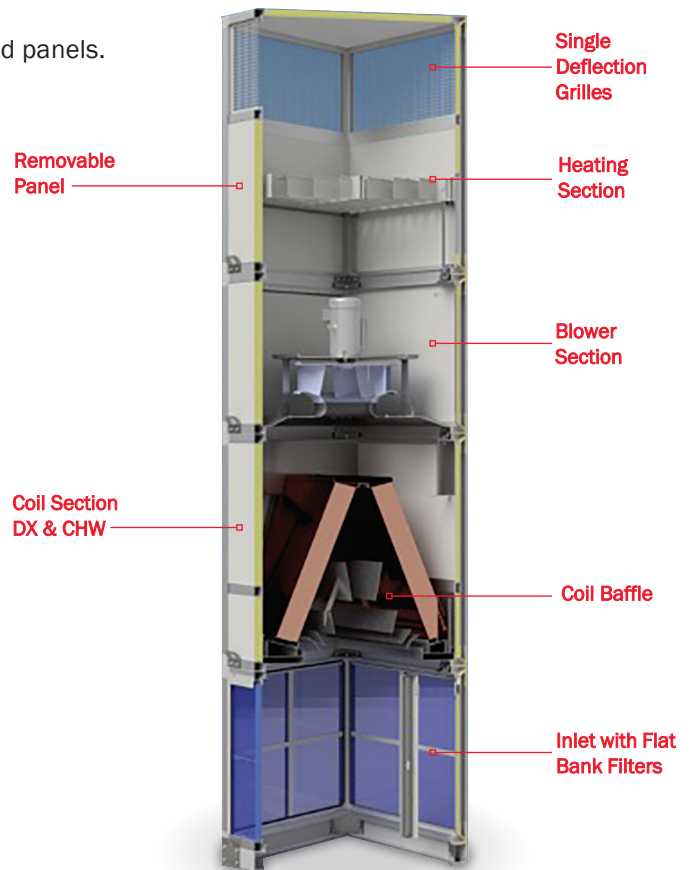
Our new modular design ensures you only pay for the components you require. For instance, if heating is unnecessary, you can opt-out of that section. The unit is designed for all components to be easily accessible. These user-friendly features allow for simpler maintenance with strategically located access doors and removable panels. Typical MATO have better than industry standard manufacturing times.

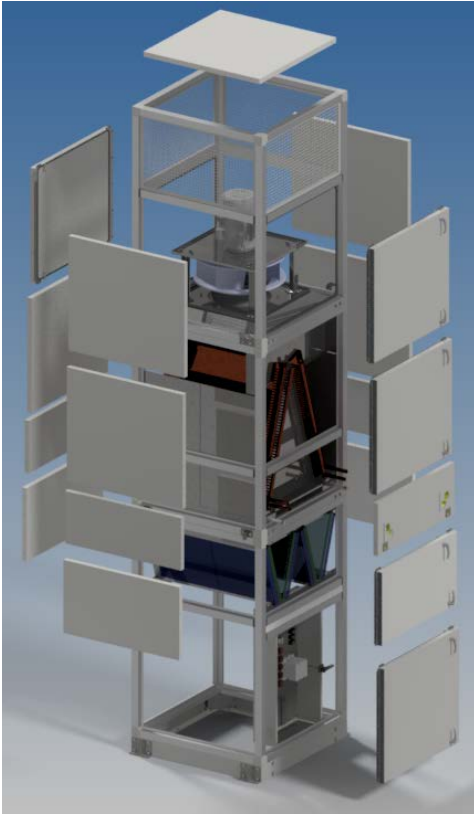
### Standard Features

- 2" aluminum frame construction with foam filled doors and panels.
- Dynamically balanced backward inclined direct drive plenum fans with VFD.
- Modulating indirect gas heating options: 81% EFF (complies with DOE) & 93% EFF.
- UL 1995 Certification (Pending).
- Chilled Water or Direct Expansion Cooling Coil.
- Insulated Drain Pans.
- Gas Heating Turndown up to 40:1.
- DDC controls with native communication protocols: BACnet MS/TP, BACnet IP, Modbus RTU, Modbus IP, Serial Ports.
- Indoor & Outdoor Installations.
- Fused Disconnect Switch.

### Options

- Single Deflection High Velocity Grilles.
- Outside Air & Return Air Mixing Section.
- Filtration: MERV 8 and/or MERV 13.
- Temperature or Enthalpy Economizer.
- Screened Return and Supply Air Openings.
- SCR Controlled Modulating Electric Heat.
- Weather Resistant Hood.
- Low Pressure Drop, Low Leak Dampers with Edge Seals and Blade Jamb.





### Shortest Lead Times

- Modular design with common components.
- Standard unit selections can be delivered in 6 to 8 weeks.
- Long lead items will be stocked to shorten manufacturing time.

### Highest Efficiency

- Verified system performance through third party certification testing.
- Foam insulated panels reduce skin loss & condensation.
- Air throw, verified by CFD, ensures performance and coverage.
- Gas heat exchanger efficiencies of 81% or 93% meets or exceed DOE minimum.
- Low leak dampers reduce energy consumption.
- Fan/motor assembly with an FEI  $\geq 1.0$  meets DOE & CEC energy standard.
- Soft start fan operation minimizes initial surge currents.
- Increase in energy density allows for more heating and cooling per square foot with smaller unit footprints.

### Trouble-Free Serviceability and Installation

- Easy service accessibility through doors or panels, removable from the exterior, reduces maintenance costs.
- VFD provides adjustment for desired airflow.
- DDC control announces alerts and faults.

MODEL	AIRFLOW (CFM)	NOMINAL COOLING CAPACITY (TONS)	GAS HEATING CAPACITY 81%/93% (OUTPUT MBH)	ELECTRIC HEATING CAPACITY (KW)	DIMENSIONS (WxLxH)
15k	7K – 15K	40	486/502	143	53.5" x 53.5" x 256"
30k	15K – 30K	80	972/1004	286	53.5" x 104.3" x 256"
45k	30K – 45K	120	1458/1506	429	53.5" x 155.0" x 256"
60k	45K – 60K	160	1944/2008	572	104.3" x 104.3" x 280"
90k	60K – 90K	240	2916/3012	858	104.3" x 155.0" x 280"
120k	90K – 120K	320	3888/4016	1,144	104.3" x 205.8" x 280"

Applied Air has been manufacturing the highest quality Air Turnover units for over 3 decades. Customers with a variety of large space climate control needs have come to depend upon Applied Air Turnover systems for their reliability, versatility, and efficiency. Whatever your client's application, we have a solution that fits.



### Large Open Storage Spaces

- Warehouse and Distribution Centers
- Home Improvement and Big Box Stores
- Wholesale Clubs
- Aircraft Hangars
- Food Processing and Packaging
- Yacht and Boat Storage
- Railroad Service Facility



### Product Sensitive Applications

- Dry Good Storage
- Pharmaceuticals
- Wine and Liquor
- Candy
- Steel Storage



### Sports Facility Applications

- Professional Indoor Football Training
- Collegiate and High School Practice Arenas
- Large Health Clubs
- Rodeo
- Indoor Soccer and Track
- Activity Centers



### Manufacturing Applications

- Container and Bottling
- Metal Working and Casting
- Woodworking and Milling
- Printing
- Automotive



# Applied Air®

[www.appliedair.com](http://www.appliedair.com)

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