Ventilation Strategies:

Chilled Water Fan
Powered Terminal Units

TECHNICAL AIR SYSTEMS, INC.
A Comfortable Choice

MI Nailor®



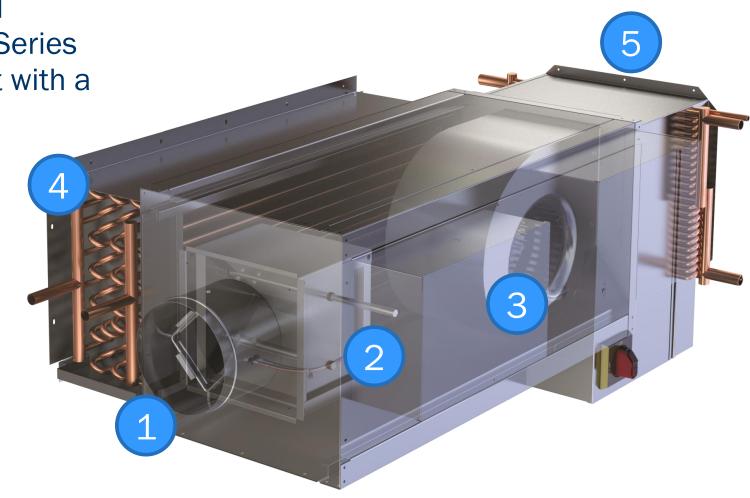


Construction

Chilled Water Fan Powered
Terminal Units combine a Series
Fan Powered Terminal Unit with a
Sensible Cooling Coil. The

Components include:

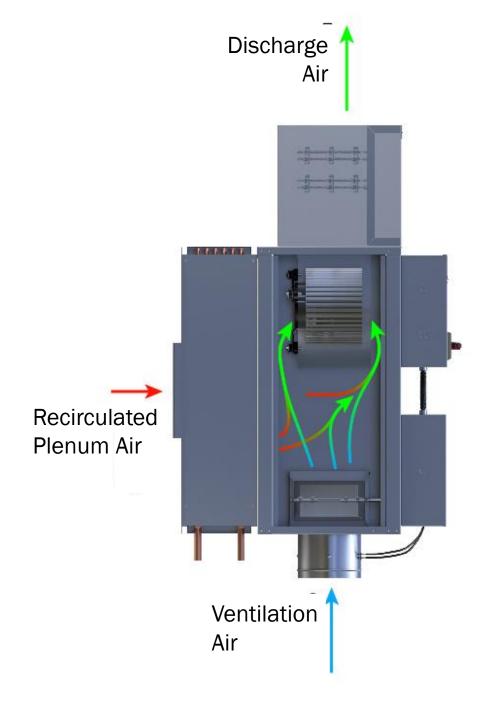
- 1. Flow Sensor
- 2. Damper
- 3. Fan
- 4. Sensible Cooling Coil
- 5. Optional Heating Coil



DOAS Ventilation Control

The ventilation supply from the DOAS is ducted directly to the inlet of the Terminal Unit.

- The Flow Sensor and Damper respond to controls in the room to ensure the proper amount of ventilation is delivered to the space.
- Used across an entire system, the Terminal Units ensure different occupancies have the correct ventilation





Ventilation By Occupancy

 Used across an entire system, the Terminal Units ensure different occupancies have the correct ventilation

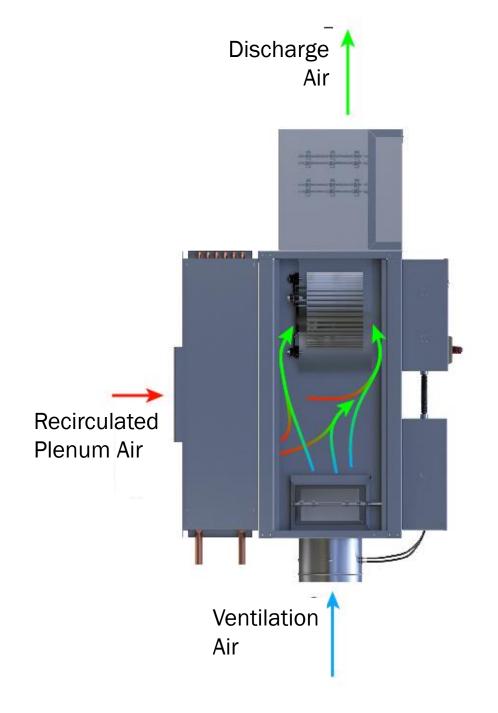
 Traditional VAV and constant volume systems do not provide this level of ventilation control down to the specific occupancy



Distributed Cooling

Placing the coil on the terminal unit distributes the cooling load into the space, eliminating the need for a central air handler.

- When needed, additional air will be induced through the sensible cooling coil to satisfy the zone.
- The coil utilizes 57°F water, eliminating the need for a condensate drain
- The airflows mix in the unit and are distributed evenly throughout the zone





33SZ Chilled Water Fan Powered **Terminal Units**

Sensible Cooling Coil Coils available up to 8 rows to meet the needs of any application

Inclined opposed

provides superior

blade damper

control



Cabinet

18 ga. Frame provides strength for mounting 20 ga. Insulated panels

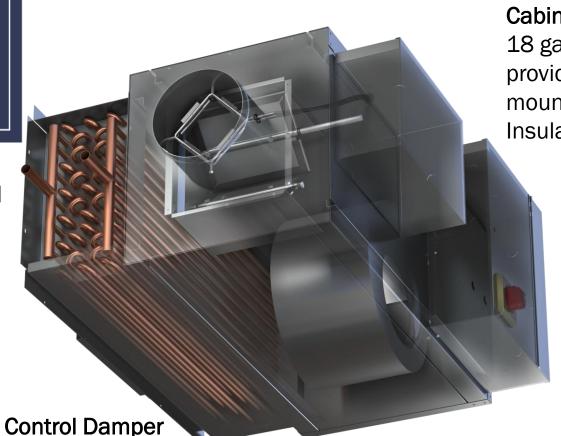
Line Voltage Enclosure Several mounting

options ensure meeting NEC code requirements in tight spaces

ECM Motor Technology

Highly efficient motors +blower combinations for handling advanced VAV control sequences



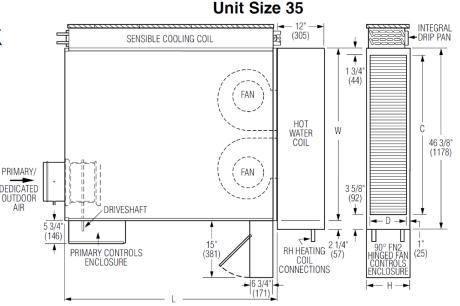




Nailor: The Comfort of Quality

Nailor has been a leader in this technology since its inception. We have a full portfolio of Chilled Water Fan Powered Terminal Units including:

- Units from 100 CFM min to 2,000 CFM Max
- Low Profile Options with 11" Heights
- Up to 3 tons of cooling







Unit Size	w	н	L	Outlet Duct Size C x D
35	44 (1118)	11 (279)	54 (1372)	41 x 9 (1041 x 229)



Contact the Experts

- Learn more about Nailor Industries, Inc. entire air handling/ air distribution line by going to http://www.technicalair.com/nailor
- Contact the Technical Air Systems' Sales Engineering Team at 973-285-0333 or by email at <u>solutions@technicalair.com</u>
- Check out more Air Handling & Air Distribution articles along with Building Control & Performance and Commercial Kitchen articles at <u>Technical Air Systems' Engineering Corner!</u>