

Titan Air pledges to continue product improvements and offerings through the use of customer input and new technologies that become available.

As a valued customer, Titan Air realizes you have come to expect nothing less.

### Contact Titan Air:

To learn more about our products and services, please contact us at:

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Solutions for Industrial and Commercial Heating, Cooling, and Ventilation



COMMERCIAL & INDUSTRIAL HVAC EQUIPMENT

## Make Up Air and Process Heating Product Lines:

*Direct Fired  
Indirect Fired  
Electric Coil  
Steam / Hot Water Coil*

*Air Turnover  
Energy Recovery  
Custom Controls  
Unit Accessories*

*Chilled Water Coil  
Split & Packaged DX Cooling  
Direct Evaporative Cooling  
Dehumidification/Reheat Units*

### A History of Innovation in the HVAC Industry

Established in 1983, Titan Air began providing direct fired, make up air units to the industrial painting and finishing market. In 1987, Titan Air diversified its product line and entered the HVAC market by selling through manufacturer's representatives. Titan Air quickly excelled in both of these market areas and has become a widely-respected leading manufacturer of heating, ventilation, and air conditioning equipment.

Titan Air has been an innovator rather than an imitator. Titan Air was the first manufacturer to obtain an ETL Listing on direct fired HVAC units utilizing a two speed motor, a Variable Frequency Drive (VFD), and a plate type energy recovery cell.

Throughout the years, Titan Air has held true to our small company values. As a socially and environmentally responsible company, Titan Air offers HVAC solutions that embrace new technologies.

### A Bright Future

Located in Osseo, Wisconsin (approximately two hours east of Minneapolis/St. Paul, Minnesota and 20 minutes south of Eau Claire, Wisconsin), Titan Air has a manufacturing area that is nearly 70,000 square feet and has resources for future growth.

# HVAC EQUIPMENT PRODUCT LINES

## GENERAL PRODUCT INFORMATION



**Titan Air Will Be The Best, Build The Best,  
Employ The Best, And Lead The Rest!**



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Titan Air LLLP

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# Do not settle for standard HVAC equipment.

Buying standard "one-size-fits-most" equipment from mainline manufacturers for a specific application often results in some of the following problems:

1. Oversized equipment that constantly cycles on and off, reducing efficiency and lifespan.
2. Undersized equipment that runs at maximum capacity and may not adequately meet requirements.
3. Equipment unable to accommodate additional requirements such as filter banks, air blenders, etc.

Titan Air LLLP has the engineering knowledge and manufacturing expertise to design and manufacture equipment perfectly matched to your unique project in a variety of applications including, but not limited to:

- Industrial Make Up Air
- Industrial Comfort Heating
- Food Grade Manufacturing
- Swimming Pools (natatoriums)
- Process Heating
- Paint Booths
- Energy Recovery
- Air Recirculation
- Parking Garages
- Cooling / Reheat
- Dehumidification
- *And More!*

## Direct Fired Equipment - Single speed, variable airflow, and air recirculation units are available.

- Specifications:**
- ETL Listed to Z83.4 | CSA 3.7 / Non-Recirculating
  - ETL Listed to Z83.18 / Recirculating
  - ETL Listed to Z83.25 | CSA 3.19 / Spray | Cure
  - 1,200 - 120,000 CFM / Single Speed
  - 4,000 - 120,000 CFM / Variable Air Volume

Titan Air's direct fired product line has been manufactured since 1983 and has maintained leadership in the industry through research and development of new products and further improvement to existing product lines. In addition to the 100% outside air function, recirculation (20% min. outside air), variable air volume, and high outlet temperature options are available. The addition of cooling coils, evaporative coolers, and energy recovery are available on direct fired equipment.



## Indirect Fired Equipment - Single speed, variable airflow, and air recirculation units are available.

- Specifications:**
- ETL Listed to Z83.8 / CSA 2.6
  - 800 - 60,000 CFM
  - In-shot or Drum & Tube Heat Exchangers
  - 409 or 304 S.S. Heat Exchangers

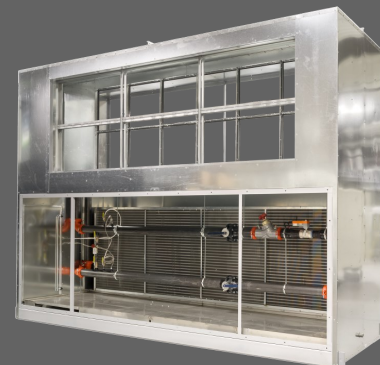
Titan Air's indirect fired units are used for more than just heating a building. The equipment can be built with the ability to ventilate, cool, and humidify, as well as make up air. Titan Air's indirect fired units have unique burner and blower options. The two exchanger types are in-shot and drum & tube. Like our direct fired equipment, the addition of cooling coils, evaporative coolers, and energy recovery are also available.



## Hot Water/Steam/Chilled Water Equipment - Single speed, variable airflow, and air recirculation units are available.

- Specifications:**
- ETL Listed to UL 1995
  - Up to 120,000 CFM
  - Custom Designed and Built Coils
  - Available with Coil Coatings Needed in Corrosive Environments

Titan Air coil selections are determined based on your specific application, providing optimal performance while also conforming to a specific equipment size limitation or unique configuration if required. These systems are available as standalone equipment, or they can also be combined with our other equipment lines such as direct fired, indirect fired, electric coil, or DX cooling.



# Titan Air HVAC Equipment has Several Unique Advantages:

**Unit Configurations** - All equipment is available in typical horizontal, vertical, or totally custom configurations.

**Controls** - Titan Air is UL 508A certified and can provide RTC, DDC, and PLC control systems to meet customer specification and needs.



Nearly limitless choices are available for control panels, displays, VFDs, switches, communication, relays, and other control options.

**Building Management System Communication** via BACnet IP, Bacnet MSTP, Modbus IP, or Modbus RTU.

**Flexibility** - While too numerous to list all options here, Titan Air offers many unique options for HVAC equipment:

**Blowers:** Forward Curve, Backward Incline, Plug, Plenum, and Propeller fans are available. Spark/explosion resistant blowers are also available.

**Casing & Insulation:** G-90, Epoxy Painted, and Stainless Steel construction are available in wall thicknesses up to 4" with a variety of insulation options. Interior lined washdown construction with drainpan is also available.

**Unit Sizing:** Titan will engineer equipment to specifically meet your needs. Unique vertical configurations or units "split" to be brought through small access doors are just some of the possibilities.

**Factory Startup:** Titan Air provides the option for factory personnel to travel to the jobsite and assist with unit startup.

## Electric Coil Equipment

- Specifications:**
- ETL Listed to UL 1995
  - Up to 120,000 CFM
  - Open or Finned Tubular Coils
  - Single Point Power Options are Available

Electric coil units are an optimal choice for situations where no by-products of combustion are allowable. They are also sometimes sourced when a location will not have a reliable supply of natural gas. Titan offers both open and finned tubular coils.



## Air Turnover

Titan Air's Indirect Fired Air Turnover systems are designed to heat large open areas for both commercial and industrial applications. These units do not require outside air, so no intake duct work is required, allowing for location flexibility and ease of installation.

Air turnover decreases stratified air within a facility and minimizes fuel costs by recirculating air from floor to ceiling. Air Turnover units provide constant circulation for employee comfort and building interior condensation reduction.



## Energy Recovery

- Flat Plate Cell Specifications:**
- Effectiveness range of 50% to 85% dependent upon application and selection
  - Independent plate spacing for each airflow path

Flat plate cells can be configured as standalone equipment, or also can be integrated into an air handler. **Enthalpy Wheels** are also available from Titan Air. Energy recovery is an effective way to lower heating/cooling expenses.



## Direct Evaporative Cooling

- Specifications:**
- ETL Listed to UL 1995
  - 800- 30,000 CFM for Standard Equipment, Larger Available
  - Standalone or Built Into an Air Handler

Titan Air designs evaporative coolers with energy efficiency and serviceability as a main focus. This cooling product line is available as either a shipped loose accessory or built into an air handler. If you have specific dimensions required because of jobsite space or clearance requirements we can build custom sizes to meet your requirements.



## DX Cooling (Split & Packaged)

- Specifications:**
- ETL Listed to UL 1995
  - 120,000 CFM if Split DX
  - 1,200-12,000 Packaged DX
  - Custom Designed & Built Coils

A variety of DX cooling solutions are available to satisfy a customer's needs. Split DX coils can be built into an air handler or can also be manufactured as a separate "coil house." DDC cooling controls are available for split cooling units. Packaged DX cooling systems with or without controls are also available.



## Unit Accessories

- Intake Hoods
- Intake Dampers
- Filter Sections
- Discharge Diffusers
- Evaporative Cooling Modules
- Discharge Dampers
- Roof Curbs
- Service Platforms



Titan Air offers all accessories needed for HVAC equipment. Accessories are sized to perfectly match our equipment, and custom sized accessories are also available.