

AIR HANDLERS AND EQUIPMENT

THERMAL CORPORATION offers a full range of air handling products and services. We have built a solid reputation for design and engineering excellence, performance, flexibility and creativity in meeting the needs of our customers. Whether you require a basic setup or need to customize your project, we are capable and ready to assist you.

THERMAL QUALITY

Because Thermal Corporation has manufactured quality air handling equipment since 1945 using only the finest materials, equipment and design expertise, many tens of thousands of THERMAL air handlers remain in service after 40-50 years and longer.



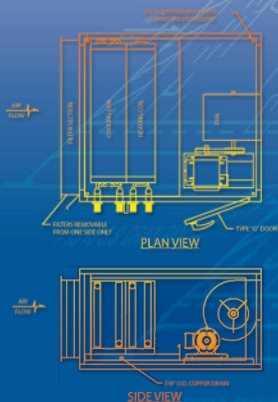
QUICK DELIVERY

Since we stock a number of fans and also manufacture dampers and accessories, most air handlers can be shipped within 6-8 weeks of approval. Premium, expedited deliveries of 2-4 weeks are routinely available when necessary.



2D

- Standard Views
- Clearly labeled components
- Easy to see dimensions
- Quick to change
- Must be approved before construction

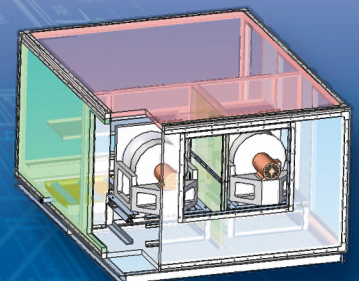


PERSONALIZED ATTENTION TO DETAIL

Many of Thermal Corporation's products are customized. The process for incorporating custom requirements into a finished product is not as difficult as one might think. Before a single piece of material takes shape, Thermal will review project specifications and then create a 2D CAD submittal. This submittal will include items such as dimensions, component callouts, notes and general product related information. Once the specifications are settled upon and approved, the 2D submittal is converted to a 3D model of the product. This 3D representation is a virtual product, allowing for a very precise level of component visualization. Information from this 3D model will be used to program machinery needed to cut, form and install components into the air handler. From start to finish, Thermal Corporation uses the latest in technology to truly design and build a quality air handling unit.

3D

- Created after approval
- Provides a virtual view of the air handler
- Accuracy is very high, allowing data to directly program machinery





CUSTOM AIR HANDLERS

Single Zone • Multi-Zone • Indoor Units • Outdoor Units • Single Wall • Double Wall

Thermal Corporation is known for its fully custom air handling design and manufacturing capability. Whether your request entails special dimensions, paint schemes, blowers, coils, 3rd party components or some other need arises; Thermal Corporation is ready to customize an air handler to your specifications.

There are several categories of fully customizable air handlers.

CENTRAL PLANT (CP)

Single Zone
Multi-Zone • Indoor
Single Wall
Double Wall

Thermal Corporation's Central Plant air handling units provide unparalleled design flexibility. Designed for low, medium and high pressure classes, each unit is built for indoor use in a vertical or horizontal arrangement.



ROOF TOP (RT)

Outdoor • Single Wall
Double Wall • Single Zone
Multi-Zone

When an outdoor air handling unit is needed look no further than Thermal Corporation's RT Units. Useful for a roof installation or general outdoor use, the RT series of air handlers is built to withstand the elements. Made of heavy gauge galvanized steel and complete with a pitched roof, you can be confident that your equipment is well protected for years to come.



TUBULAR (T)

Modular • Indoor
Outdoor • Single Wall
Double Wall

Thermal Corporation has developed the T Series of air handlers to provide a modular, customizable, competitively priced unit with a wide range of available sizes and configurations. Whether your application is indoor, outdoor, using a vertical or horizontal configuration, the T Series delivers the flexibility to meet your application.



THERMAL² (TS)

Indoor
Outdoor
Double Wall

Easy to Clean, No fiberglass particles in the airstream

The TS Series of air handlers, sometimes known as Foam Panel Units, are constructed with double wall foam insulated panels that are interlocked, such that the exterior and interior panels do not contact one another. This provides an exceptional thermal break between the outside and internal environments of the air handler. The panels are fastened to the external extruded aluminum frame that contains an integral 1" PVC thermal break. The result is a flush, smooth and architecturally pleasing appearance. These features provide an air handler that is easy to clean and is an excellent alternative to fiberglass insulated units.



ENERGY RECOVERY (RX)

Outdoor • Pad Mounted
Rooftop • Single Wall
Double Wall

The RX series of air handlers are Thermal Corporation's energy recovery units which utilize a variety of methods like Energy Recovery Wheels, Plate Heat Exchangers, Heat Pipes, and "Run Around" Loops to reclaim available heat energy. Used in applications where exhaust air is used to cool incoming outside air, or possibly heat it, these air handlers provide an energy efficient addition to your HVAC system.





Applications for Custom Air Handlers

- Hi-Rise • Universities • Hospital • Laboratory • Schools • Pharmaceutical • Office Buildings • Severe service conditions
- Extremely high pressures • Process heating and cooling • Unusual air flow configurations • IAQ sensitive applications
- Retrofitting or upgrading existing installations • Sectionalized construction for limited installation access

Features and Options on Custom Air Handlers

- Custom dimensions • Exotic materials of construction • Mixing Boxes • Full Economizers • Motor Starters • Lights and Convenience Outlets • UV lights • Damper Actuators • Filter modules • Key-locking door handles • Fan access door with viewport • Exterior and interior epoxy or enamel paint in customizable color options • Galvanized and stainless steel double wall liners in both solid and perforated metal • Third-party component specialties: coils, filters, gas and electric heaters, air blenders, sound attenuators, humidifiers, energy recovery coils and wheels, variable frequency drives • Redundant Components

Features Specifications

CP Units

- 1, 2, 3 or 4" single or double wall construction

RT (Rooftop) Series

- 2, 3 or 4" double wall construction
- Roof curbs available for outdoor units
- Can be pad mounted

T (Tubular) Series

- 2", 3", or 4" double wall construction
- Full walk-on floor
- Removable galvanized steel panels
- Panels can be removed without affecting structural integrity of the welded tubular frame

Multi-Zone

- Zone Dampers
- Dual Duct

CENTRAL PLANT ECONOMY (CPE)

Indoor • Single Zone • Single Wall • Multiple Cabinet Materials

Thermal Corporation's Central Plant Economy, CPE Series, are designed for efficient and economical heating and cooling needs in smaller applications. CPE units have standardized cabinet sizes from 600-4400 CFM and offer a wide variety of component choices to meet individual specifications.

Applications

- Retail
- Commercial
- Institutional

Features

- Horizontal unit for floor and suspended mounting
- Vertical units for floor mounting
- Multiple material selections



FAN COILS (TH)

Thermal Corporation's TH fan coil line is designed for use in small commercial, residential, and institutional applications. Whether the requirement is for a concealed unit or an exposed one, the seven available versions have you covered.

Applications

- Schools
- Condominiums
- Small commercial offices
- Hotels

Features

- Available in belt or direct drive
- Multiple water coil selection
- Exposed cabinets
- Exposed cabinets for use in ceiling grid system



TRANQUILITY AIR COLUMNS (TCU)

Modular • Customizable • Easy Maintenance Access

Thermal Corporation's Tranquility Series of air columns are designed to deliver conditioned or unconditioned air into a raised floor plenum. Each unit will intake pretreated primary or a combination of return and primary air through an application specific inlet. The air exits the air column via an open or custom defined discharge. Standard on Tranquility units are double walled, latched doors for fan, filter and controls access.

Applications

- Underfloor System
- Used in Data Center, Offices (Individual)
- Large Office Space (Open areas)

Features

- Return air top inlet with primary air silencing sleeve
- Vortex induction top



AIR-COOLED CONDENSERS (PF)

Modular • Customizable • Small to Medium Capacity

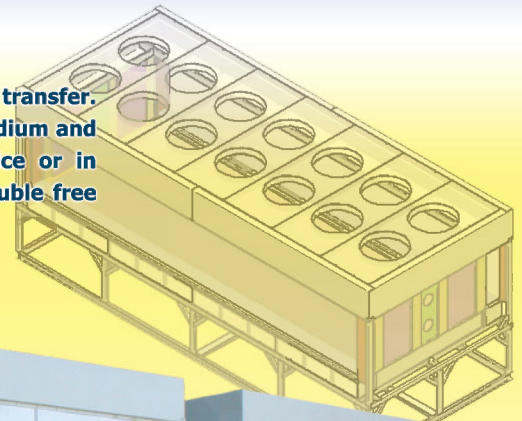
Thermal's PF Series of Condensers provide an efficient and economical process for heat transfer. Using a fan, or banks of fans, to move air across a coil(s), heat is extracted from a medium and then recirculated into the building for use. Whether used as a standalone device or in conjunction with other components, the PF Series are manufactured for years of trouble free operation.

Applications

- Large industrial facilities
- Commercial Buildings
- Hotels
- Schools
- Office Buildings

Features

- Exceptional Weather-proofing
- Fan Venturi's for maximum fan efficiency
- Capacity Modulation
- Specialty Materials



CONTACT YOUR THERMAL SALES REPRESENTATIVE FOR MORE INFORMATION.

THERMAL
CORPORATION
A Division of Nailor International Inc.

Quality Air Handling Equipment Since 1945

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