

Project Overview



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Company Overview

ICE AIR has over 40 years of industry experience in developing and manufacturing a wide variety of HVAC units to provide superior new construction heating and cooling systems and to replace old installations. ICE AIR offers advanced green technologies and provides world class comfort at high efficiency levels, meeting environmental standards and promoting a healthy environment.

ICE AIRs state-of-the-art units come with digital controls designed to optimize user comfort and ease of operation.

ICE AIR products are designed to provide years of trouble-free operation and reliable performance in multi-family housing, hotels/motels, dormitories, commercial buildings and similar projects. Units are ideal for new construction, retrofit and replacement applications.

Why Choose ICE AIR:

- Industry's smallest footprint
- Sound attenuation comes standard
- Unique riser configurations
- Comprehensive project management and support

Green Features:

- R-410A Green refrigerant
- High EERs
- Advanced programmable controls
- Ultra-quiet operation



Product Overview

WSHP

Water Source Heat Pumps

WSHPs are combination heating and cooling units that function independently and are piped to a central water loop.

Available in Vertical Stack, Console, Vertical Closet and Horizontal configurations.



VSHPW
Vertical Stack



CHPW
Console

HWCAC

Hybrid Water-Cooled Air Conditioners

The HWCAC combines high-efficiency cooling with an advanced hot water coil to provide hydronic heat for an entire room without using the unit's compressor.

The high capacity heating coil operates at low Entering Water Temperatures (EWT), between 95°-125°F. These units, when coupled with a high efficiency condensing boiler, provide the most cost-effective and efficient method of space heating for multi-family buildings, lodging, dormitories and similar properties.

Available in Vertical Stack, Console, Vertical Closet and Horizontal configurations.



VCHW
Vertical Closet



HHW
Horizontal

PTAC

Packaged Terminal Air Conditioners

The highest efficiency PTACs on the market, they incorporate advanced LEED® features in a durable and user-friendly package.

HiSPEC. New construction, retrofit and

EXACTFIT. Replacement and custom applications



RSNU
New Construction

SPAC/HP

Single Package Air Conditioner/ Heat Pump

The SPAC/SPHP is a unique air-to-air unit that works from within an interior wall or equipment space, providing ultra-quiet operation and high-efficiency cooling and heating. Units are completely concealed, which maximizes valuable wall and window space.

Available in Standard and High Velocity configurations.



SPAC/HP
Standard or High Velocity

FCU

Fan Coil Units

Cost-effective heating and cooling units designed for simple installation and ease of use.

Available in Vertical Exposed, Vertical Concealed, Horizontal Concealed, Ultra Thin and HiRise configurations.



FCVC
Vertical Concealed



FCVE
Vertical Exposed



FCHC/FCHU
Horizontal or Ultra Thin Concealed



FCHR
HiRise

160 West 62nd Street, New York City, NY

WSHP

- 536 Vertical Stack VSHPWs
- 479 Console CHPWs



VSHPW

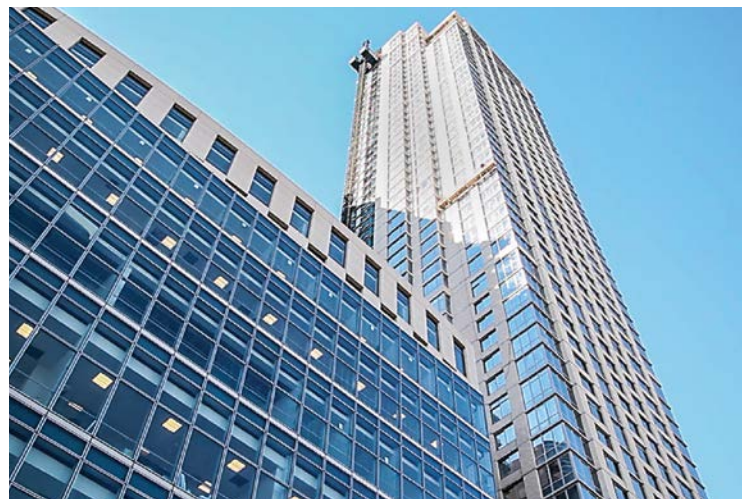


CHPW

Details:

Working together with the customer, a premier New York City owner/developer/manager, ICE AIR redesigned Console CHPW equipment, allowing the building management to remove and replace the chassis only, for easy servicing and tenant comfort.

ICE AIR and the customer have worked together for 10+ years, completing hundreds of new construction and replacement projects. While most projects have used PTACs, the owner is transitioning some buildings to water source equipment in order to open up window space and provide floor-to-ceiling windows for expansive views. This building features premium views of Central Park and the Hudson River, and having a small footprint WSHP unit helps create the luxury living atmosphere of the building.





Hofstra University Dormitories, Hempstead, NY

FCU

- 1,500 Vertical Exposed FCVEs
- Short delivery and installation window (over summer break)
- Pre-installed piping kits and customized sheet metal allowed for labor cost savings



FCVE

Details:

Hofstra's dormitory fan coil retrofit project was a three-year effort to replace 1,500 outdated units in six student dormitories. Timing was critical for the delivery and installation, as all work had to be commenced and completed during the short summer season, while students were off campus. ICE AIR pre-installed the units' piping kits prior to equipment delivery and also customized the sheet metal enclosure by laser-cutting a window to allow the piping to go directly from the supply/return lines to the fan coil itself. These solutions provided valuable labor savings for Hofstra.





Avalon Exeter, 88 Exeter Street, Boston, MA

WSHP

- 365 Vertical Stack VSHPWs
- Unique riser configuration for easier shipping, handling and installation



VSHPW

Details:

ICE AIR simplified the construction process and saved money on labor costs by shipping the copper risers for the Vertical Stack VSHPWs separately in advance of the heat pump casings. This innovative method increased the amount of equipment per shipment and minimized the total number of deliveries.





Queens West 1-4, Long Island City, NY

PTAC

- 4,714 RSNU PTACs
- 4 buildings in revitalized neighborhood with Manhattan views
- High efficiency units
- Development contains athletic fields, a public school, three acres of park land and waterfront esplanade



RSNU

Details:

This large-scale project has spanned over 5 years for the four buildings within a high-end development overlooking the East River and Manhattan skyline. The equipment was originally specified as McQuay®, but ICE AIRs strong relationship with this major NYC developer helped to sway the project in our favor. Ice Air has completed many successful projects with the developer, and they were impressed with our commitment to project management. With a project of this size, strong project management was crucial for success.





Mystic River Lofts, 167 Medford Street, Charlestown, MA

WSHP

- 135+ Vertical Stack VSHPWs and Horizontal HHPWs
- \$40 million renovation – part of National Registry of Historic Buildings
- 124 loft-style apartments
- First project in Boston area with Aquatherm HDPP piping
- Customer required locks on return grilles

Details:

The owner of this renovated factory building required that locks be installed on all return grilles to prevent users from accessing the units. While other manufacturers were unwilling to meet this specification, ICE AIR was able to fulfill the request, which helped sell the job.

ICE AIR's unique riser shipment process allowed the contractors to fully pressure test the piping systems prior to casing delivery, which saves time and money for the building owner. In addition, ICE AIR worked well with the building's Aquatherm HDPP piping system and advanced Direct Digital Controls (DDC) system.



VSHPW



HHPW





Emerald Green, 320 West 38th Street, New York City, NY

WSHP
PTAC

- 290 Vertical Stack VSHPWs
- 60 Console CHPWs
- 1,110 RSCT PTACs



VSHPW



CHPW



RSCT

Details:

Due to the combination of PTACs and WSHPs, there were areas where PTAC piping would not work, so ICE AIR created custom piping packages for the water source equipment.

ICE AIR also provided custom-designed water source enclosures to match the PTAC enclosures identically, per the owner's request.





500 West 30th Street, New York City, NY

HWCAC

- 632 Hybrid Vertical Stack VSHWs and Hybrid Console Water-Cooled Air Conditioner CHWs
- Combines high-efficiency water-cooled air conditioning with low temperature (95-115°F EWT) hot water heat

Details:

Hudson Yards' first residential tower, situated on the innovative and popular High Line park, is the largest new development in New York City.



VSHW



CHW





Sunset Gordon Tower, Hollywood, CA

SPAC/HP

- 300 Single Package Heat Pumps SPAC/HP-HV
- High velocity unit overcomes high static pressure requirements
- Custom unit created for this project later became a standard ICE AIR product line
- Up to 30' of ducting allows one interior unit to cool three rooms



SPAC/HP-HV

Details:

While the building was originally designed as a vertical Water Source Heat Pump job, the high costs of the equipment piping and installation prevented the project from progressing. The high velocity Single Packaged Vertical Heat Pump SPAC/HP-HV was designed to accommodate the building's configuration of interior unit locations with a high static pressure requirement of 15'-30' of condenser air ducting.

The building needed to satisfy California's strict building, seismic and energy efficiency codes. The SPAC is able to meet all of these criteria while providing an extremely cost-effective and user-friendly solution. It negates the high piping and labor costs typically associated with wet heat pump installations and significantly improves project appearance, sound levels and tenant acceptance compared to typical PTAC installations.





Gotham West, New York City, NY

PTAC

- 2,547 RSNU PTACs
- High efficiency units for high-end “green” residential development
- Development contains three luxury buildings



RSNU

Details:

This large-scale development required particularly strong project management to work within the stringent delivery schedule. The project was designed and constructed during three phases, so it was crucial to accurately stagger product delivery based on the phase of each section of the project. Gotham West is a LEED® certified “green” building, and ICE AIRs high efficiency RSNU PTACs were used to help qualify for NYSERDA energy rebates.





St. Louis Hall, New York City, NY

WSHP

- Complete retrofit project
- 140+ Slope Top Console CHPWs
- Motorized outside air dampers
- Condensate pumps (enclosure mounted)
- Factory-installed piping packages



CHPW

Details:

ICE AIR got involved when the building was completely gutted and the piping had already been reinstalled per the original manufacturer's specifications.

When that manufacturer could not fulfill the project requirements for St. Louis Hall, ICE AIR stepped in and redesigned our existing Console CHPW unit to fit the existing specifications.

ICE AIR's ability to customize an existing product line, as well as produce custom enclosure dimensions, helped to make this retrofit project a success.





70 Pine Street, New York City, NY

WSHP

- Over 1600 Water Source heat pumps consisting of consoles, vertical stack and horizontal units
- Removable chassis with custom quick release piping connections and line cord for easier service and maintenance



CHPW



HHPW



VSHPW

Details:

New York's landmark status Art Deco building known simply as 70 Pine Street, has been restored and is, once again, open to residents. This 67-story, office building consists of 612 residential luxury apartments and 132 extended-stay hotel units whose climate will be controlled by the acoustically enhanced ICE AIR WSHP units, ideal for replacement and ease of service requirements for this historic transformation.

As of 2015, it is the eighth tallest in New York City, the 20th tallest in the United States, and the 103rd tallest building in the world.





Lodge at Vail, Vail, CO

PTAC

- 54 RSNU hydronic PTACs
- Holes cut to add cooling and supplement original hot water heating system
- ThermalGuard™ wall sleeve, SoundShield OITC sound package and “Comfort Switch,” allows users a choice of modes for quieter operation or enhanced cooling during extreme temperatures.



RSNU

Details:

The Lodge at Vail's ideal location and pure aesthetic make it a desired destination for powder worshippers. Renovations to this iconic hotel had to take into account the expected level of comfort as well as the need for historic alpine décor. The RSNU hydronic PTAC units were installed into the villas with luxury in mind. Integrating the Comfort Mode and the Soundshield OITC sound package, the ICE AIR units are a perfect fit for this charming mountainside chalet.



Wick Tower, Youngstown, OH

FCU

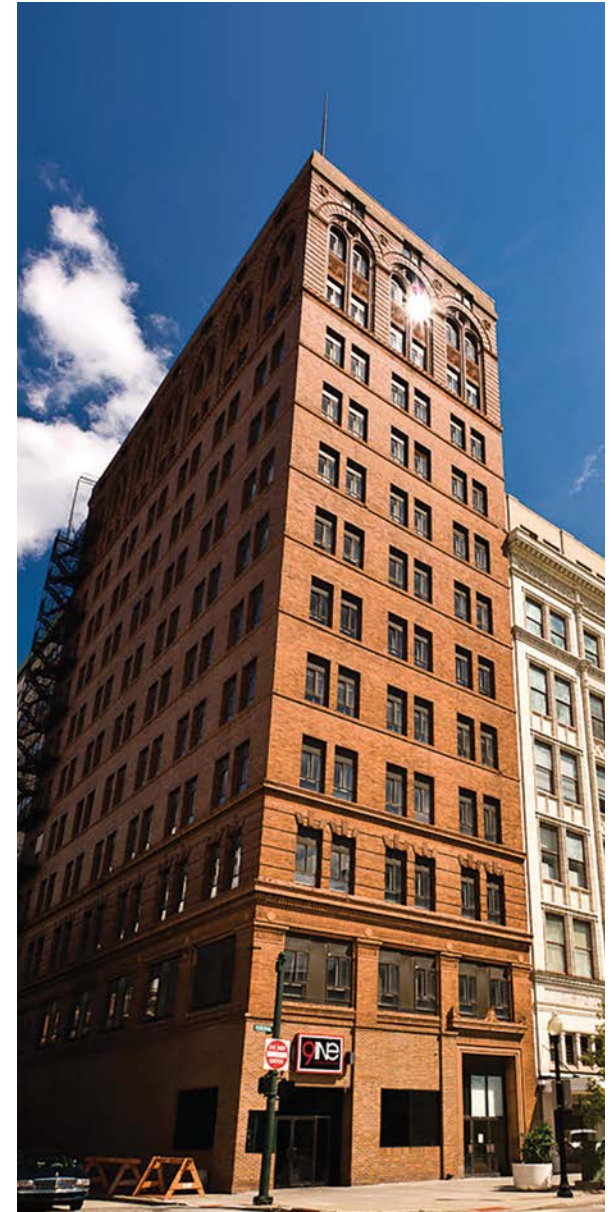
- Historic building (ca. 1910) converted into modern apartments
- 61 Horizontal Concealed FCHCs
- Replacement units for complete building renovation



FCU

Details:

The expansion of Youngstown State University is driving a renewed interest in downtown Youngstown, Ohio. One of the centerpieces of the revitalized area is the newly renovated Wick Tower. The ICE AIR Horizontal Concealed FCHCs were the perfect solution to accommodate the specification for converting these 100 year-old spaces into completely renovated modern apartments.



Bradford Square Senior Living, Naples, FL

SPAC/HP

- New Construction
- 130 Single Package Heat Pump SPAC/HPs



SPAC/HP

Details:

Bradford Square is part of Resort Lifestyles Communities (RLC), a national property owner and manager of resort style senior living communities.

RLC currently owns and manages over 25 properties across the country.



Howard University Dormitories, Washington, DC

WSHP PTAC

- Slope Console CHPWs
- RS16 type replacement PTACs
- Ongoing replacements for student residences
- Selected for durability and quiet operation in classroom setting



Details:

Established in 1867, Washington DC's Howard University is a federally chartered, private, doctoral research extensive university dedicated to its approximately 11,000 students.

With the best interest of their students in mind, Howard University utilizes the ICE AIR CHPW and RS16 PTAC units in their campus buildings and student residences for their durability and quiet operation.



Platte County Legacy Home, Wheatland, WY

PTAC

- 86 RSNU PTAC units
- Custom wiring and configuration to work with building automation system
- 3rd party controller factory mounted with air temperature sensors



- Extensive pre-construction support and coordination to ensure seamless installation and proper operation



Details:

Platte County Legacy Home is a non-profit nursing home providing care and service to the aging since 1967. Their new facility is over 49,947 square feet and is equipped with quiet and efficient ICE AIR PTAC units.



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