

MULTISTACK[®]

Modular
Expandable
Environmentally Responsible
Process Cooling
Redundancy
Comfort Cooling
Critical Cooling
Efficient



Product Catalog

Air-Cooled • Water-Cooled • Flooded • Heat Pumps
Dedicated Heat Recovery Chillers • Split System

FRONT ELEVATION



Originators. Innovators. Never the Imitators.sm

Multistack® and Airstack™ utilize the most innovative technologies to create chiller systems that provide elegant solutions for the difficult problems of today's marketplace.

We can help you with a need for:

- AHRI Certified Equipment
- Avoiding Demolition During Chiller Replacement
- Extreme Redundancy Without Extreme Cost
- Easy Future Expandability
- Low Maintenance Systems
- ASHRAE 15 Compliance
- Low Sound Signature
- Minimizing Your Carbon Footprint Via Dedicated Heat Recovery
- Quick Turnaround Emergency Shipment

Our small footprint, quiet and efficient operation, and easy-to-install modular design make Multistack or Airstack the equipment of choice for savvy owners, contractors, engineers, and architects. Energy efficient Multistack flooded chillers provide large capacity solutions incorporating magnetic levitation technology.



MagLev Centrifugal Chiller

Packaged Water-Cooled Chillers

Packaged Scroll Modules

Modules are available in 15-, 20-, 30-, 50-, and 70-ton packages, each with dual independent scroll compressors. Modules may be mix-matched and combined to create arrays of up to 14 modules and 800-tons utilizing environmentally friendly R-410A. Dual tandem modules of 95-, 105-, 135-, and 150- tons are available.

Large Packaged Screw Modules

Modules are available in 85-, 105-, 125- and 145-ton packages, each with a single twin-screw compressor and can be built with a VFD (variable frequency drive) for additional energy efficiency. Modules may be mix-matched and combined to form chillers from 85- to 1,040-tons.

MagLev™ Centrifugal Chiller Modules

Centrifugal chiller modules are available in 80-ton packages utilizing the industry's most advanced magnetic bearing, oil-free magnetic levitation technology. The compressor shaft levitates in a near-frictionless magnetic field, eliminating metal-to-metal contact. An integral variable-frequency drive controls compressor speed and capacity to precisely match the load, creating the most efficient modular chiller ever devised. Modules utilize R-134A refrigerant and may be assembled to form chillers from 80- to 640-tons.

Water-Cooled Condensing Units

All of Multistack's Packaged Water-Cooled Chillers are available in a Water-Cooled Condensing Unit version. Most required refrigerant specialties are factory mounted within the module. Units are designed to interconnect to a field supplied evaporator.

Flooded Chillers

Flooded Chillers utilize MagLev™ compressors and can be sized from 90-1200 Tons. Available in both long and short shell configurations, a multi-compressor Multistack Flooded Chiller offers redundancy, industry leading part-load efficiency and reduced maintenance costs thanks to oil-free MagLev technology. Multistack Flooded Chillers feature our FlexSys Controller for increased efficiency and reliable communications.



Packaged Scroll Module



Flooded Chiller

Air-Cooled Packaged Chillers

Air-Cooled Packaged Chiller

Modules are available in 10-, 15-, 20-, 30- and 60-ton packages, each with dual scroll tandem compressor sets. Modules may be mix-matched and combined to form chillers from 10- to 600-tons. Units are available with high-static condenser fans for ducted applications.

Medical Chillers

Modules are available in 3-, 5-, 7½-, and 10-ton packages, utilizing advanced digital scroll compressor technology. This completely packaged chiller is designed specifically for dedicated cooling of sensitive medical equipment and includes integrated pumps and tanks.

Airstack Accessory Modules

A complete line of accessory modules is available for integration into the Packaged Air-Cooled Chiller. These accessory modules include: packaged pumping modules, free-cooling modules, water storage tanks, air separator, strainer, expansion-tank/glycol feeder modules and available lifting frames.



Air-cooled Packaged Chiller

Air-Cooled Split-System Chillers

All of Multistack's Packaged Water-Cooled Chillers are available in an Airstack Split-System Air-Cooled version. All required refrigerant specialties (for standard ambient) are factory mounted within the indoor module. Multistack provides matching remote air-cooled condensers. Chiller systems are available from 20 to 720-tons.



Accessory module and Air-cooled Packaged chiller

Heat Pumps

VME

VME (Virtual Moveable End Cap) Heat Pumps are available in air- and water-cooled versions. Modular heat pumps built with our VME modules included can offer four pipe systems, simultaneous heating and cooling, eliminating the need for separate heating and cooling systems or a distributed water source heat pump system.

Water-to-Water Heat Pump

Modules are available in 15-, 20-, 30-, 50-, and 70-ton packages, each with dual independent compressors. Units are suitable for use in both closed loop and ground loop water-source heat pump applications. Modules may be assembled together to form Chiller-Heaters from 20-tons in excess of 600-tons.

Air-to-Water Heat Pump

All of Multistack's Packaged Air Cooled Chillers are available in a Air Cooled Condensing Unit version. Most required refrigerant specialties are factory mounted within the module. Units are designed to interconnect to a field supplied evaporator.

Dedicated Heat-Recovery Chillers and Chiller-Boilers™

Dedicated Heat Recovery Chillers are available for many hydronic heating applications. Multistack's heat recovery chillers can produce hot water up to 180°F while simultaneously producing chilled water for the hydronic cooling systems. Multistack can show you how to use the heat you already own to create a greener building.



VME (Virtual Moveable End Cap)



Water-cooled chiller installation.



Air-cooled chiller installation.

Whether you need superior redundancy, peak efficiency over a wide range of conditions, or are simply stuck with an old chiller in a tight space, Multistack and Airstack can provide guaranteed, expandable solutions.

AHRI Certified

All Multistack production chillers are AHRI Certified providing a performance assurance when comparisons are done. Multistack is the only AHRI Certified modular chiller manufacturer.

Environmentally Friendly Refrigerants

R-410A and R-134A

Refrigerant 410A and 134A are widely available, safe, and environmentally friendly refrigerants with no phase-out dates. R-410A is available in virtually all Multistack systems with circuits of 35-tons or less. R-134A is available in machines with circuits larger than 35-tons. Good environmental choices!

Environmental Focus

In addition to providing products to deliver reliable comfort and low operating cost, Multistack's products can also reduce your environmental footprint. We are committed to developing and manufacturing cooling and heating products that can eliminate fossil fuel consumption and operate on the refrigerants designed to protect the environment. Dedicated heat pump boilers, air-to-water heat pumps and efficiency improvements across our product line are the result of this focus.



Originators...

Multistack invented the modular water chiller. It started with a radically simple idea: chiller modules that could be brought into the equipment room one at a time, through standard doorways and down elevators, to form a fully integrated chiller system. The idea launched a revolution and transformed Multistack into a leader in the commercial water-chiller industry.

Innovators...

Multistack perfected the modular chiller and leads the industry in innovative and environmentally friendly modular solutions. Since founding in the late 1980s, Multistack has engineered, manufactured, and distributed an impressive array of modular air conditioning firsts: the first on-board strainer, the first modular automatic blow-down device, the first modular chiller for variable flow, the first modular chiller-heater (heat pump), the first modular heat-recovery chiller, the first modular air-to-water heat pump, the first modular chiller to utilize MagLev™ compressor technology, and the first modular chiller to utilize R-410A.

Never the Imitators...

Multistack sets the standard in the industry for superior customer service, fast and on time shipment, superior product quality, and new product development. Our pioneering leadership in environmental issues is well documented. If you want to be the best, be sure to specify the original – Multistack®.

MULTISTACK®

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