PRODUCT CATALOG

CAT-1050

NOVEMBER 2026

AIR-TO-WATER HEAT PUMP

SCALEABLE HYDRONIC DESIGN WITH VFD INTEGRATION



HYDRONX
THE FUTURE OF HYDRONIC HVAC.

R32
LOW-GWP
REFRIGERANT

- MODEL HYAWH
- 12.5 & 25 TONS

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ELECTRIFICATION **MADE SIMPLE**



As building owners, engineers and contractors transition to electrification, they need solutions that improve efficiency, support sustainability goals and simplify HVAC design. **HydronX is the next-generation air-to-water source heat pump platform**, engineered to help reduce carbon emissions, replace fossil fuel-based heating and meet evolving building requirements.

Featuring a **variable frequency drive (VFD) controlled compressor, variable-speed electronically commutated (EC) fan motor technology, low-GWP R-32 refrigerant** and a flexible **hydronic HVAC architecture**, HydronX delivers reliable heating and cooling performance across a wide range of commercial applications. Available in **12.5- and 25-ton modules** with scalable configurations, it supports light commercial facilities and larger systems requiring staged capacity and redundancy.

HydronX **connects seamlessly with Daikin Applied air handlers, fan coils, controls and service support** to simplify installation and optimize operation. Whether supporting new construction, boiler replacement, hydronic retrofits or decarbonization initiatives, HydronX delivers efficiency, comfort, flexibility and future-ready performance in one integrated solution.

CERTIFICATION

ETL LISTED c US
Intertek

PERFORMANCE

- Heating and cooling
- 12.5 & 25 tons
- Down to -4°F chilled water temperature
- Up to 135°F leaving water temperature
- 208V/230V/480V575V

FEATURES

- Scaleable 12.5/25-ton unit modularity
- Sequencing up to four units for 100-ton capacity
- Single-source mfg. for complete, simplified system
- VFD compressor, variable speed EC fan motors
- R-32, factory pump packages & controls, heat exchanger

LINKS:

Resources/ Downloads

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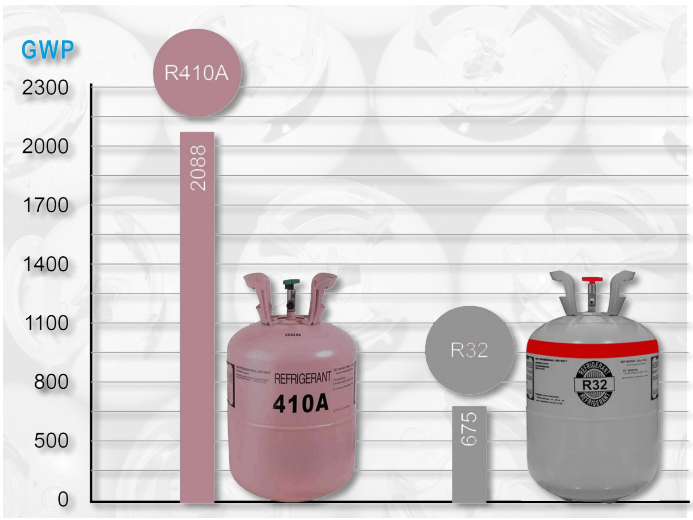
Environmentally Friendly

HydronX supports building electrification and decarbonization by replacing traditional fossil fuel-based heating with **high-efficiency air-to-water heat pump technology**. Delivering both heating and cooling from a single electrified platform, it helps building owners meet sustainability goals and evolving energy codes.

Using **low-GWP R-32 refrigerant, VFD compressors and EC fan motors**, HydronX optimizes energy use by matching capacity to building demand. The result is **lower energy consumption, reduced environmental impact**, and a **future-ready hydronic solution** for commercial buildings.



Low GWP Refrigerant



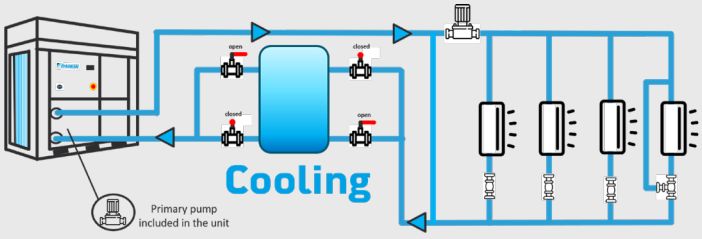
With a global warming potential (GWP) of 675, R-32 contributes less to GWP compared to other refrigerants like R-410A. Because of R-32's excellent thermodynamic performance characteristics, an R-32 system could have **up to 40% less charge than R-410A** in certain applications, meaning you could reduce refrigerant usage in the equipment and potentially also reduce quantities leaking to the environment.

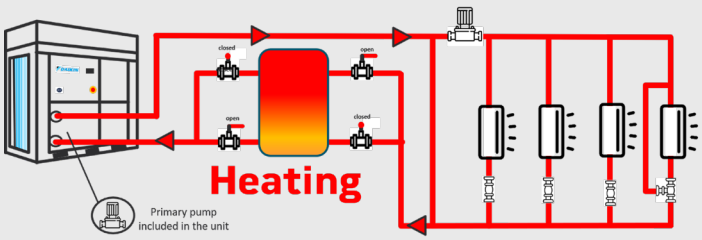
Being a pure, single-component refrigerant, **R-32 can't lose its composition like a blended refrigerant and is well suited to retain its quality over time**. It can be topped off and recharged in the field in both liquid and gas phases; because the composition doesn't change, it's easy to clean and reuse on site. R-32 can be reclaimed and recycled with a simple cleaning process, as compared to blends with less stable HFOs that must be distilled to their pure compounds and then remixed.

Adaptable Performance

HydronX delivers adaptable, superior performance through the combination of **air-to-water heat pump operation and a wide operating envelope**. **VFD-controlled scroll compressors** and **variable-speed EC fan motors** continuously adjust capacity to match building demand, maximizing efficiency, improving comfort and reducing energy consumption.

Designed for year-round operation, HydronX provides **chilled water production down to -4°F** outdoor ambient temperatures and **hot water up to 135°F** leaving water temperature. Combined with **R-32 refrigerant, modular scalability up to 100 tons**, and **seamless controls** integration, HydronX delivers the flexibility, reliability, and performance demanded by today's commercial buildings.



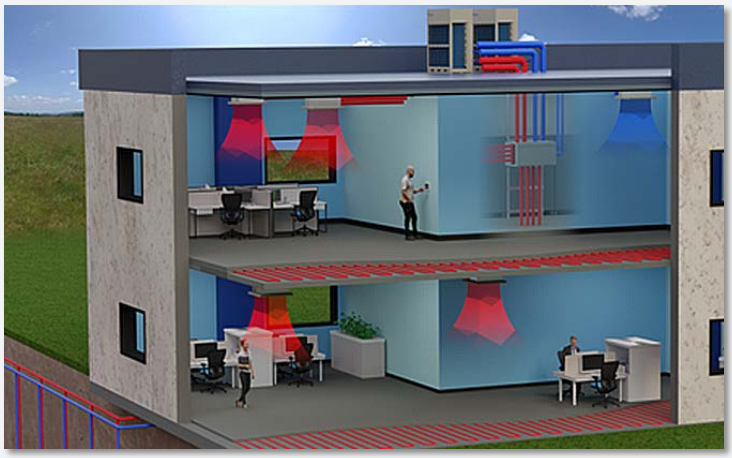


ADVANTAGES/TECHNOLOGIES

Simplified Hydronic Integration

HydronX simplifies electrified HVAC systems by combining air-to-water heat pump technology, modular sequencing scalability, VFD-controlled compressor, EC fan motor(s), heat exchanger and intelligent controls into **a complete hydronic solution.**

Designed to deliver efficient heating and cooling from a single platform, Hydronx air-to-water source heat pumps help reduce reliance on fossil fuels while supporting sustainability, decarbonization and electrification goals.



Modular Sequencing

HydronX comes in **12.5- and 25-ton modules** with the ability to **sequence up to four units.** This gives **flexibility to right-size systems** while accommodating future expansion and changing building loads with a wide operating envelope for year-round performance.

12,5-27 ton building blocks = 1 project ⇨1 unit
Single unit meets load/entry applications



27-67 ton modular staging = 1 project ⇨2 units
Capacity + part-load flexibility



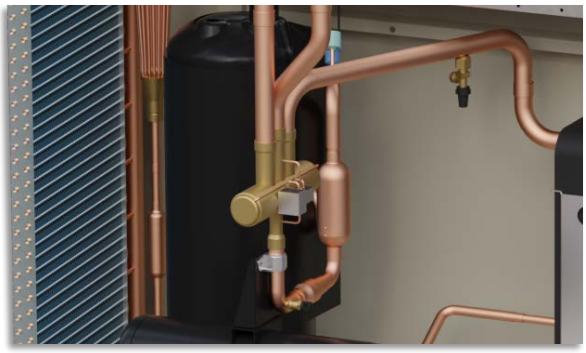
67-100 ton = 1 project ⇨3-4 units
Capacity + staging + redundancy



Large projects = Add modules + system-level controls
Scales with size/application requirements







VFD-Controlled Scroll Compressor

HydronX uses a **VFD-controlled scroll compressor with crankcase heater** that **continuously matches capacity to building demand,** delivering higher efficiency, lower energy consumption and more consistent comfort than fixed-speed systems. By **minimizing unnecessary cycling**, it reduces mechanical stress, extends equipment life and provides quieter operation, greater reliability and year-round performance.

Variable-speed ECM Fans

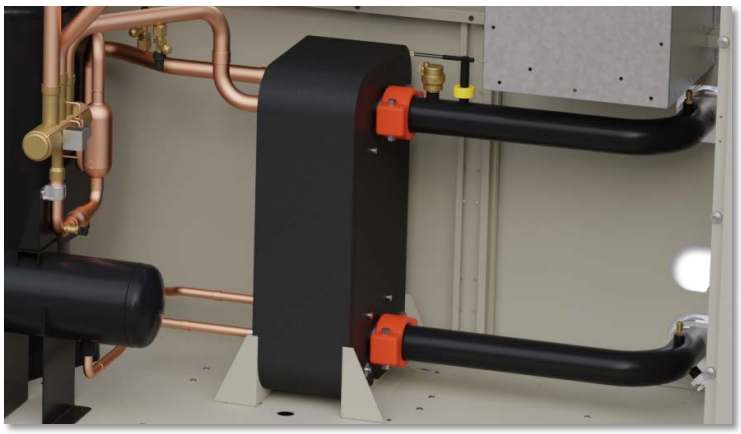
Variable-speed EC fan motors continuously adjust airflow to match system demand, **improving efficiency, optimizing heat transfer and reducing sound levels.** By delivering only the airflow required, they help building owners lower operating costs while providing more consistent heating and cooling performance year-round.



Brazed Plate Heat Exchanger

A high-efficiency **brazed plate heat exchanger** maximizes energy transfer between the refrigerant and hydronic loop, helping optimize heating and cooling performance. Its compact design supports efficient operation, lower energy consumption and reliable year-round performance.

For owners, that means **lower operating costs and improved efficiency.** For engineers and contractors, it delivers **dependable heat transfer, a compact footprint and proven hydronic performance.**





Factory-Installed Pump Packages

Factory-installed pump package options simplify hydronic system design and installation. Available in **low-lift, high-lift, fixed-speed, variable-speed and differential temperature configurations,** they help reduce field labor, streamline startup and provide greater application flexibility.

By delivering a complete factory-packaged solution, HydronX helps **simplify design, accelerate installation and reduce project complexity.** The result is faster project execution, improved reliability and greater long-term value.

HMI Intelligent Contols

HMI intelligent controls provide monitoring to simplify operation and optimize performance. Factory-installed and configured, it supports **seamless BAS integration** and **lead/lag sequencing for up to four HydronX units,** improving capacity staging, efficiency and reliability.

Advanced diagnostics, flexible scheduling and simplified commissioning help deliver easier system management, greater operational efficiency and better building control. .



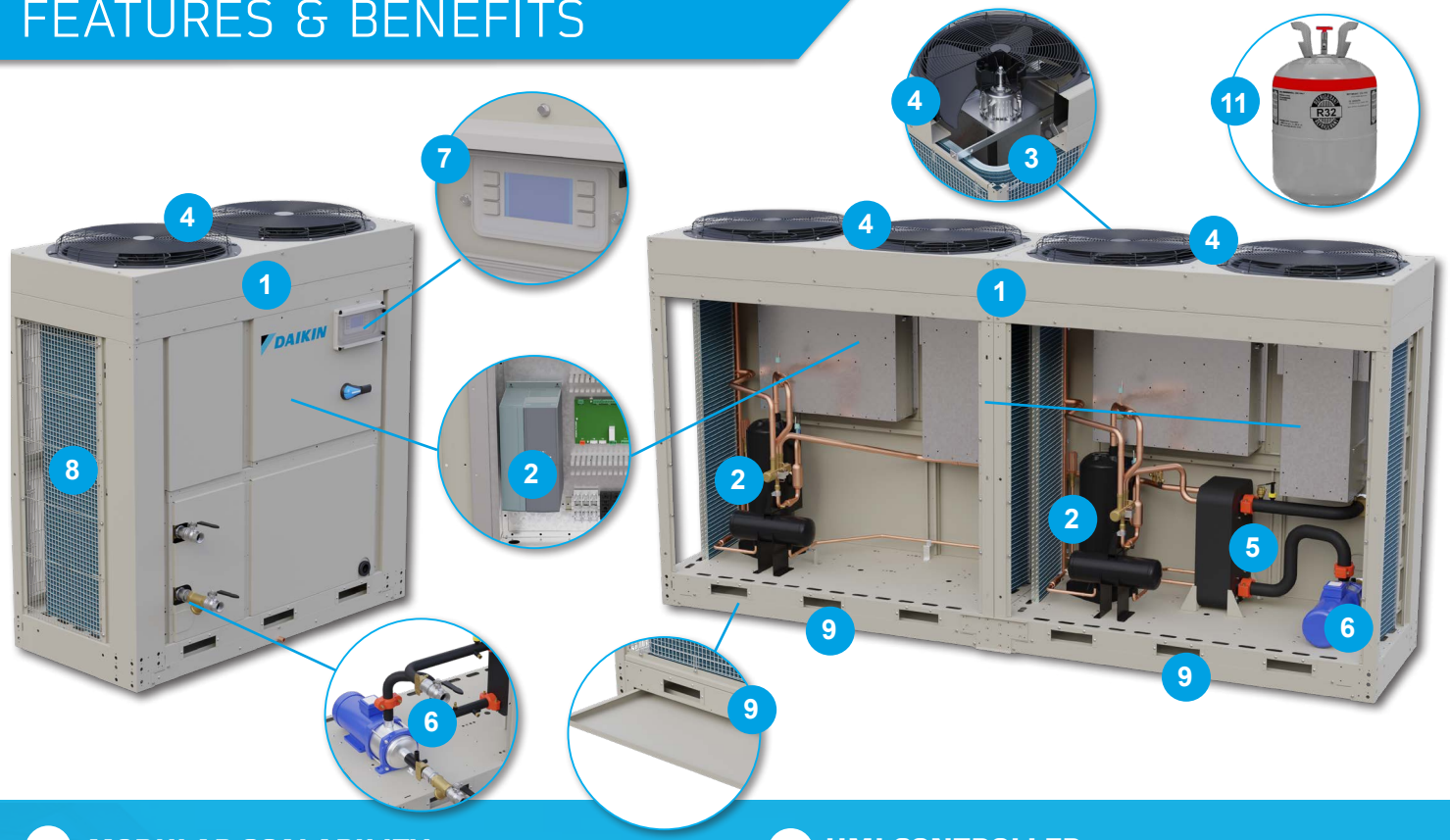


Single-Source Provider

HydronX gives customers the advantage of sourcing an entire hydronic system from Daikin Applied. By combining heat pumps, controls, pumps, intelligent controls, air handlers and fan coils into a unified solution, projects benefit from simplified design, installation and startup.

A single manufacturer also provides also means you get **single source service and support through Daikin 360,** reducing ownership risk, accelerating issue resolution and helping ensure reliable long-term performance of your equipment.

FEATURES & BENEFITS



1 MODULAR SCALABILITY

- Available in 12.5- and 25-ton building blocks
- Scales to 100 tons easily to match changing building demands and expansion

2 VFD SCROLL COMPRESSOR(S)

- Variable-speed control to match building load
- Improve efficiency, lower operating costs, maintains consistent comfort
- Deliver strong part-load performance while reducing compressor cycling and wear
- Cold weather crankcase heater and sound blanket

3 EC FAN MOTORS

- Variable speed delivers optimized airflow
- Improves efficiency, reduces sound levels and enhances performance across varying conditions
- Soft-start reduces mechanical wear, extends life

4 COMPOSITE FAN/BLADES

- Improve heat transfer performance, lowers energy/operating costs
- Reduce sound levels for quieter operation
- Supports variable-speed operation for greater efficiency across a wide operating envelope

5 BRAZED PLATE HEAT EXCHANGER

- Maximizes heat transfer efficiency
- Supports high-performance hydronic heating and cooling, enhances system efficiency

6 PUMP PACKAGE OPTION

- Factory-installion simplifies installation, reduces labor, provides application flexibility
- On/off,fixed-speed, variable-speed, Delta-T

7 HMI CONTROLLER

- Automatically stages capacity to match demand, optimizes efficiency across varying loads
- Lead/lag sequencing balances runtime between units, provides redundancy, extends equipment life for improved reliability
- Simplifies operation of multi-unit installations

8 HYDROPHILIC BLUE FIN COIL:

- Enhanced corrosion resistance for improved durability, promotes efficient water drainage
- Helps maintain long-term heat transfer performance
- Extends coil life and reduces maintenance requirements

9 INTEGRATED DRAIN PAN

- Effectively manages condensate/defrost water
- Simplifies site drainage management
- Supports reliable cold-weather operation

11 R-32 REFRIGERANT

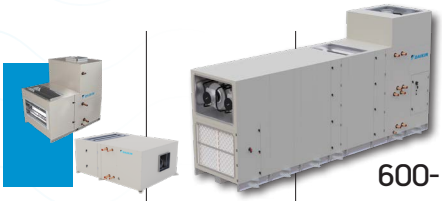
- Low GWP supports sustainability and decarbonization initiatives
- Meets evolving refrigerant regulations
- Optimized for heat pump applications

LOW AMBIENT PROTECTION OPTION

- Protects critical water-side components and condensate drain pan from freezing temps
- Includes heat trace protection and insulation
- Enhances reliability for low ambient operation
- Safeguards long-term equipment to reduce energy consumption

DAIKIN AIR HANDLERS

PRECISELINE®
BCV/BCA/BCH
Indoor



600-10,000 cfm

REBEL®
DAH
Outdoor Chilled Water



500-11,500 cfm

REBEL APPLIED®
DAHA
Outdoor



3,000-35,000 cfm

SKYLINE®
OAC/OAH
Outdoor



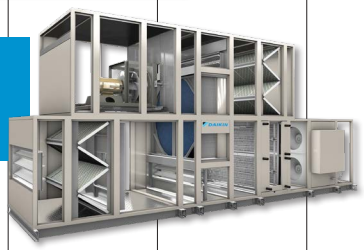
900-51,000 cfm

VISION®
CAC/CAH
Indoor



900-84,500 cfm

Custom
CAC/CAH/OAC/OAH
Indoor/Outdoor

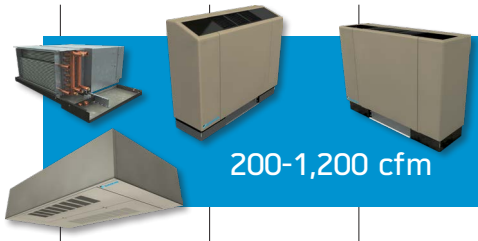


900-84,500 cfm

CFM 0 10k 20k 30k 40k 50k 60k 70k 80k 90k 100k 110k 120k 130k

DAIKIN FAN COILS

THINLINE
FCH*/FCV*/FHV*/FHW*/FHH*
Flat/Slope Top, Concealed,
Recessed, Exposed



200-1,200 cfm

OPTILINE™
FSG
Vertical Stacked



300-1,200 cfm

CFM 0 250 500 750 1000 1250 1500





GOVERNMENT

Government facilities require HVAC systems that balance sustainability mandates, budget constraints and reliability. HydronX supports public-sector electrification goals with an all-electric heating and cooling solution that reduces carbon emissions while delivering efficient performance. Its modular design and integrated controls make it ideal for municipal buildings, courthouses and community facilities.



EDUCATION

Schools, colleges and universities need HVAC systems that deliver reliable comfort, support sustainability initiatives and operate efficiently within tight budgets. HydronX provides an all-electric heating and cooling solution to reduce energy costs and support decarbonization goals. Its modular design and quiet operation make it ideal for classrooms, administrative buildings and student housing while supporting future growth.



MULTI-FAMILY

As multifamily developers and owners seek alternatives to fossil fuel-based heating, HydronX offers an efficient path to electrification. By providing both heating and cooling from a single air-to-water heat pump platform, it helps reduce energy consumption and support sustainability goals. Its modular configuration and quiet operation make it ideal for apartments, condominiums and mixed-use residential developments.



OFFICE & COMMERCIAL

Modern office buildings demand efficient HVAC systems that deliver occupant comfort while helping reduce operating costs. HydronX combines variable-speed technology, R-32 refrigerant and intelligent controls to provide efficient heating and cooling throughout the year. Its scalable design, wide operating envelope and integration with Daikin air handlers and fan coils make it a smart solution for a variety of commercial builinds and applications.

DAIKIN 360
INTEGRATED SERVICE SOLUTIONS

MAINTAIN AND REPAIR

PROTECTIVE MAINTENANCE SERVICES

LEARN MORE



REPAIR SERVICES

Breakdowns happen and when your equipment has an issue, time is of the essence. Call us at 800-432-1342 to get Daikin Service professionals dispatched quickly and minimize downtime. Your local team is backed by nearly 100 years of experience to alleviate undue stress in your operations.

- **24/7 Emergency Service**
- **System Repairs & Assessments**
  (Ancillary Equipment: Boilers, Cooling Towers)
- **Equipment Diagnostics**
- **Technical Troubleshooting**
- **Building Automation & Controls**
- **OEM & Generic Parts/Supply**
- **All Equipment Types & Brands**

PLANNED MAINTENANCE SERVICES

Daikin Applied's service technicians can perform all of the vital maintenance your system needs to ensure your equipment is running at peak efficiency. From proper cleaning to software upgrades and necessary maintenance, our techs will maximize your system to help extend the life of your equipment.

- **Regularly Scheduled Maintenance**
- **Seasonal Startup & Shutdown**
- **System Diagnostics**
- **Condenser Cleaning**
- **Air Filters**
- **On-site System Inspections**

PREDICTIVE SERVICES

Predictive maintenance services anticipate failures before they happen to mitigate the risk of catastrophic failure. For those who have in-house maintenance capabilities, Daikin Service can also guide your team and be on standby for more complex technical needs with predictive maintenance.

- **Oil & Refrigerant Analysis**
- **Vibration Analysis**
- **System Diagnostics**
- **Eddy Current Testing**
- **Infrared Analysis**
- **Combustion Analysis**
- **IAQ Assessments**
- **Laser Alignments**
- **Bearing Analysis**

PROACTIVE SERVICES

With proactive maintenance services, we support you with proven experts, offerings and processes to ensure customers get the help they need from a trusted advisor.

- **Building Operations Review**
- **Contingency Planning**



DAIKIN 360
INTEGRATED SERVICE SOLUTIONS

PARTS & SUPPLIES

OEM AND GENERIC AFTERMARKET SOLUTIONS

LEARN MORE



LOCAL PARTS INVENTORY. LOCAL EXPERTISE.



When you need OEM or generic parts to repair your HVAC system, you need them quickly. Daikin Service has an expansive inventory and a centralized distribution center to get the right parts to you faster than ever before. To mitigate downtime, we have 80 locations (and counting) across North America to help you take care of your critical parts demand.



- ONE-STOP SHOP FOR ALL OEM & GENERIC PARTS
- NATIONAL LOCATION/DISTRIBUTION NETWORK
- CENTRALIZED DISTRIBUTION
- FACTORY-AUTHORIZED REPLACEMENT PARTS
- SAME-DAY SHIPPING ON MOST ORDERS
- EXPERT SUPPORT
- RELIABLE PERFORMANCE
- WALK-IN STORE LOCATIONS
- EXTENDED COMPONENT WARRANTIES (VFDS, COMPRESSORS, MOTORS)



DAIKIN 360
INTEGRATED SERVICE SOLUTIONS



RENTAL SOLUTIONS

KEEPING YOU UP AND RUNNING

LEARN MORE

CHILLERS | AIR CONDITIONERS | DEHUMIDIFIERS | HEATING | POWER

EMERGENCY RENTALS

When your equipment fails, limiting downtime is mission critical. Daikin Applied provides quick delivery and installation of reliable rental products to help you weather the outage. We're here to help get you back up and running, and can provide a turnkey solution.

- **Industry-leading efficiency and proven technology**
- **24-hour turnaround on available inventory**
- **8-hour average set up with on-site experts**
- **Comprehensive package, including pumps, flexible water piping connection and electrical hookups**

EQUIPMENT FOR PLANNED SITUATIONS

Forming a contingency plan in the event of an outage can help you quickly get operations back to normal and limit financial loss, and help you breathe easier when the unexpected happens. Selecting the right-sized equipment is just one part of the process. The best contingency plans start by assessing and understanding your financial risk, and then using this information to drive the rest of your plan. Our Rental Solutions experts can specify the supplemental cooling system required to support any situation you're experiencing.

- **System maintenance**
- **Building expansion**
- **Server room heat generation**
- **Seasonal/staff heat load swings**
- **Contingency plans**

SUPPLEMENTAL CAPACITY

When the demand of your facility or process exceeds your current system's capacity because of record-high temperatures or changes to cooling requirements, Daikin temporary rentals can be used to increase your heating or cooling output. By eliminating the need to purchase additional equipment that might be only used part of the year, you save on capital expenditures.

STANDBY

Standby for critical applications and processes is another efficient use for temporary rental equipment. A temporary system is sometimes used to back up manufacturing and chemical processes, or when a hospital's required system redundancy has been reduced.

COMPLETE HVAC SYSTEM SOLUTIONS

SELF-CONTAINED | ROOFTOPS | COILS | CONDENSING UNITS
AIR HANDLERS | WATER-COOLED CHILLERS | AIR-COOLED CHILLERS
MODULAR CENTRAL PLANTS | DAIKIN BUILDING CONTROLS
UNIT HEATERS | FAN COILS | WATER SOURCE HEAT PUMPS |
VARIABLE AIR VOLUME UNITS



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