A World of Comfort

A Quick Reference Guide to Sustainable Building Solutions
A World of Comfort

Founded by the inventor of modern air conditioning, Carrier is a world leader in high-technology heating and air-conditioning solutions. Carrier experts provide sustainable solutions, integrating energy-efficient products, building controls and energy services for commercial customers.

chillers

Air-Cooled

AquaSnap® 30RA Scroll Chillers
10 to 150 Tons (50 & 60Hz)
HFC Puron® Refrigerant (R-410A)
ASHRAE 90.1 Compliant, AHRI Certified

AquaSnap® 30RB Scroll Chillers
60 to 390 Tons
HFC Puron® Refrigerant (R-410A)
ASHRAE 90.1 Compliant, AHRI Certified
Heat Recovery Option

AquaForce® 30XA Screw Chillers
80 to 500 Tons
HFC-134a
Exceeds ASHRAE 90.1-2016, AHRI Certified

AquaSnap® 30RAP with Greenspeed® Intelligence Scroll Chillers
10 to 60 Tons (50 & 60 Hz)
Exceeds ASHRAE 90.1-2016
Variable-Speed Condenser Fans

AquaSnap® 30RB with Greenspeed® Intelligence Scroll Chillers
80 to 390 Tons
HFC Puron® Refrigerant (R-410A)
ASHRAE 90.1-2016 Compliant, AHRI Certified
Variable-Speed Condenser Fans
Heat Recovery Option

AquaForce® 30XV with Greenspeed® Intelligence Screw Chillers
140 to 500 Tons (50 & 60Hz)
HFC-134a
Exceeds ASHRAE 90.1-2016, AHRI Certified
Variable-Speed Compressor and Condenser Fans

Absorption

16TJ – Single-Effect Steam Chillers
100 to 700 Tons
7 to 15 PSIG Steam
COP 0.7

16NK – Double-Effect Steam Chillers
98 to 1,323 Tons
60 to 130 PSIG Steam
COP 1.28

16LJ – Single-Effect Hot Water Chillers
75 to 525 Tons
176 to 208 F Hot Water
COP 0.7
<table>
<thead>
<tr>
<th>Chiller Type</th>
<th>Description</th>
<th>Tons</th>
<th>Refrigerant</th>
<th>Efficiency</th>
<th>Certification</th>
<th>Additional Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>AquaEdge® 19DV</td>
<td>Advanced Two-Stage Compression with Greenspeed® Intelligence</td>
<td>500 to 800</td>
<td>HFO-1233zd(E)</td>
<td>Exceeds ASHRAE 90.1/FEMP, Heat Recovery, Free Cooling &amp; Comfort Cooling</td>
<td>ASHRAE 90.1 Compliant, AHRI Certified, ASME Certified</td>
<td></td>
</tr>
<tr>
<td>AquaEdge® 19XR(V)</td>
<td>Constant- or Variable-Speed Centrifugal Chillers</td>
<td>200 to 1,600</td>
<td>HFC-134a or HFC/HFO-513A</td>
<td>ASHRAE 90.1 Compliant, AHRI Certified</td>
<td>Two-Stage, Wide Operating Envelope</td>
<td></td>
</tr>
<tr>
<td>AquaEdge® 19XR(V)</td>
<td>Constant- or Variable-Speed Centrifugal Chillers</td>
<td>800 to 3,400</td>
<td>HFC-134a or HFC/HFO-513A</td>
<td>ASHRAE 90.1 Compliant, AHRI Certified</td>
<td>Two-Stage, Wide Operating Envelope</td>
<td></td>
</tr>
<tr>
<td>AquaEdge® 23XRV</td>
<td>Variable-Speed Screw Chillers with Greenspeed® Intelligence</td>
<td>175 to 300</td>
<td>HFC-134a</td>
<td>Exceeds ASHRAE 90.1, AHRI Certified</td>
<td>Wide Operating Envelope</td>
<td></td>
</tr>
<tr>
<td>AquaEdge® 23XRV</td>
<td>Variable-Speed Screw Chillers with Greenspeed® Intelligence</td>
<td>250 to 550</td>
<td>HFC-134a</td>
<td>Exceeds ASHRAE 90.1, AHRI Certified*</td>
<td>Wide Operating Envelope</td>
<td></td>
</tr>
<tr>
<td>AquaForce® 30XW</td>
<td>Screw Chillers</td>
<td>150 to 400</td>
<td>HFC-134a</td>
<td>ASHRAE 90.1 Compliant*, AHRI Certified</td>
<td>Heat Recovery Option</td>
<td></td>
</tr>
<tr>
<td>AquaForce® 30HX</td>
<td>Screw Chillers</td>
<td>75 to 265</td>
<td>HFC-134a</td>
<td>ASHRAE 90.1 Compliant*, AHRI Certified*</td>
<td>Heat Recovery Option, Dual, Independent Refrigerant Circuits</td>
<td></td>
</tr>
<tr>
<td>AquaSnap® 30MP</td>
<td>Scroll Chillers</td>
<td>16 to 71</td>
<td>HFC Puron® Refrigerant (R-410A)</td>
<td>ASHRAE 90.1 Compliant, AHRI Certified*</td>
<td>Heat Recovery Option, Modular Design for Easy Installation</td>
<td></td>
</tr>
<tr>
<td>AquaEdge® 17DA</td>
<td>Open-Drive Centrifugal Chillers</td>
<td>3,000 to 5,500</td>
<td>Motor or Steam Turbine Driven</td>
<td>HFC-134a</td>
<td>ASME Certified</td>
<td></td>
</tr>
</tbody>
</table>

*AHRI certified for units within the scope of the AHRI 550/590 certification program.
**Among electric-driven, water-cooled chillers as mentioned by Integrated Part Load Value conditions based on ASHRAE 90.1 2010 minimum requirement.
*Select models only.

The AquaEdge® 23XRV is the world's leading efficiency screw chiller, 42% better than industry standard.**
Carrier Custom 39CC
Custom air-handling equipment for commercial, industrial and health care applications.

Axis™ 35J Single Duct Retrofit Terminals
23 to 3,700 cfm
AHRI Certified

Axis™ 35K Bypass Terminals
45 to 4,400 cfm
AHRI Certified

Axis™ 35L/N Dual Duct VAV Terminals
50 to 7,100 cfm
Side-by-Side or Mixing Design
AHRI Certified

Axis™ 37HS Moduline® VAV Air Terminals
100 to 400 cfm
Integrated Diffusers
Duct Pressure Powered

Axis™ 45K/N Series/Parallel Quiet Flow Fan-Powered Terminal Units for VAV Systems
90 to 3,900 cfm
AHRI Certified

Axis™ 45J/M Series/Parallel Standard Flow Fan-Powered Terminal Units for VAV Systems
90 to 3,900 cfm
AHRI Certified

Axis™ 45Q/R Series/Parallel Low-Profile Fan-Powered Terminal Units for VAV Systems
100 to 2,000 cfm
AHRI Certified

Carrier air-handling units meet the demands of precise indoor environments, including clean rooms and high-tech processing areas.
**axiS™ 42KC Underfloor Perimeter Fan Coil Units**
325 to 2,800 cfm
Hot Water or Electric Heat
AHRI Certified

**Axis™ 35BF Diffusers for Variable-Volume Underfloor Systems**
50 to 325 cfm
High Impact Polymeric Construction
Meets 90B Structural Requirements

**AirStream™ 42V Vertical**
200 to 1,200 cfm
AHRI Certified

**AirStream™ 42S Stack**
300 to 2,000 cfm
AHRI Certified
ETL Listed

**AirStream™ 42B Belt Drives**
600 to 4,000 cfm
ETL Listed
IBC Seismic Compliant

**Axis™ 45UC Underfloor Series Fan-Powered Units**
280 to 1,200 cfm
AHRI Certified

**Axis™ 45XC Parallel Fan-Powered Zone Mixing Units**
50 to 6,200 cfm
Underfloor Applications
AHRI Certified

**AirStream™ 42C Horizontal**
200 to 1,200 cfm
AHRI Certified
ETL Listed
IBC Seismic Compliant

**AirStream™ 42D Ducted**
600 to 2,000 cfm
ETL Listed
IBC Seismic Compliant

**AirStream™ 42WKN Hydronic Cassette Fan Coil Units**
0.75 to 3 Tons
ETL Listed

**ActivAIR™ 36CB Chilled Beams**
Active Models
Dry Coil Operation
fan coils (continued)

ActivAir™ 36IB Induction Beams
70 to 1,285 cfm
Active Models
Sensible and Latent Cooling Capability

WeatherMaster® 36S Induction Air Terminals
20 to 130 cfm
2 or 4 Pipe Designs

AirStream™ 40UV, UH Unit Ventilators
500 to 2,000 cfm
AHRI Certified
ETL Listed

split systems

MP High Wall Systems
0.75 to 1 Ton
Up to 42.0 SEER/15.0 HSPF
ASHRAE 90.1 Compliant, AHRI Certified

38MA*R Heat Pumps
0.75 to 3 Tons
40MAQ High Wall
40MBCQ Cassette
40MBDO Ducted
40MBFQ Floor Consoles
Up to 25.0 SEER/12.0 HSPF
ASHRAE 90.1 Compliant, AHRI Certified

MH High Wall Systems
0.75 to 2 Tons
Up to 17.5 SEER/9.0 HSPF
ASHRAE 90.1 Compliant, AHRI Certified

MGR Systems
Up to 5 Zones
1.5 to 4 Tons
Up to 23.8 SEER/10.5 HSPF
ASHRAE 90.1 Compliant, AHRI Certified

RAV*AT
1.5 to 3.5 Tons
RAV*KRT High Wall
RAV*UT Cassette
RAV*BT Ducted
RAV*CT Underceiling
Up to 21.0 SEER/11.9 HSPF
ASHRAE 90.1 Compliant, AHRI Certified

MBR Ducted Systems
3 to 5 Tons
Up to 17.4 SEER/10.5 HSPF
ASHRAE 90.1 Compliant, AHRI Certified

24AHA4 Cooling Only
25HHA Heat Pumps
1.5 to 5 Tons
MK*B High Wall
MK*C Cassette
MK*F Underceiling
14.0 SEER/8.2 HSPF
ASHRAE 90.1 Compliant, AHRI Certified

38VMH-1P Heat Pumps
3 to 5 Tons
Up to 18.6 SEER/Up to 10.0 HSPF
38VMH Heat Pumps
6 to 36 Tons
Up to 23.3 IEER/Up to 4.29 COP

38VMR Heat Recovery
6 to 28 Tons
Up to 24.2 IEER/Up to 30.0 SCHE
40VM Indoor Units
0.6 to 8 Tons
ASHRAE 90.1 Compliant, AHRI Certified
**Toshiba Carrier Variable Refrigerant Flow Systems**

**Gemini® 38AUZ/D**
6 to 20 Tons
HFC Puron® Refrigerant (R-410A)
ASHRAE 90.1 Compliant, AHRI Certified

**Gemini® 38AUQ**
6 to 20 Tons
HFC Puron® Refrigerant (R-410A)
ASHRAE 90.1 Compliant, AHRI Certified

**MMYF-1P Heat Recovery**
6 and 12 Tons
Up to 28.4 IEER/Up to 5.02 COP

**MMYF Heat Recovery**
6 to 38 Tons
Up to 30.1 IEER/Up to 38.1 SCHE

**MM-AP Indoor Units**
0.6 to 8 Tons
ASHRAE 90.1 Compliant, AHRI Certified

**MMYH Heat Pumps**
6 to 38 Tons
Up to 30.0 IEER/Up to 5.02 COP

**Performance™ 24ACB**
1.5 to 5 Tons
HFC Puron® Refrigerant (R-410A)
AHRI Certified

**Indoor Air-Cooled Condensers**
09XC
5 to 20 Tons
HFC Puron® Refrigerant (R-410A)

**Outdoor Air-Cooled Condensers**
09AZ
90 to 200 Tons
HFC-134a

**Performance™ 09DP**
18 to 130 Tons
HFC Puron® Refrigerant (R-410A)
packaged products

Packaged Rooftop Units

WeatherExpert® 48LC, 50LC
3 to 23 Tons
(VAV available 6 to 23 Tons)
Ultra High Efficiency
HFC Puron® Refrigerant (R-410A)
Exceeds ASHRAE 90.1
IECC Compliant, AHRI Certified

WeatherMaster® 48HC, 50HC
3 to 5 Tons (Select Models)
WeatherMaster® 50HCQ
3 to 10 Tons
High Efficiency
HFC Puron® Refrigerant (R-410A)
Exceeds ASHRAE 90.1
IECC Compliant, AHRI Certified

WeatherMaster® with ecoblue™ technology 48GC, 50GC
3 to 5 Tons
High Efficiency
HFC Puron® Refrigerant (R-410A)
Exceeds ASHRAE 90.1
IECC Compliant, AHRI Certified

WeatherMaker® 48TC, 50TC
7.5 to 27.5 Tons
WeatherMaker® 50TCQ
6 to 20 Tons
Standard Efficiency
HFC Puron® Refrigerant (R-410A)
ASHRAE 90.1 Compliant
IECC Compliant, AHRI Certified

WeatherMaker® 48KC, 50KC
3 to 5 Tons (Select Models)
WeatherMaker® 50KCQ
3 to 5 Tons
Standard Efficiency
HFC Puron® Refrigerant (R-410A)
ASHRAE 90.1 Compliant
IECC Compliant, AHRI Certified

WeatherMaker® with ecoblue™ technology 48FC, 50FC
3 to 6 Tons
Standard Efficiency
HFC Puron® Refrigerant (R-410A)
ASHRAE 90.1 Compliant
IECC Compliant, AHRI Certified

WeatherExpert® 48/50N Series
75 to 150 Tons
HFC Puron® Refrigerant (R-410A)
ASHRAE 90.1 Compliant
IECC Compliant

WeatherMaster® 48/50P Series
30 to 100 Tons
HFC Puron® Refrigerant (R-410A)
ASHRAE 90.1 Compliant
IECC Compliant, AHRI Certified

WeatherMaster® 48/50A Series
20 to 60 Tons
HFC Puron® Refrigerant (R-410A)
ASHRAE 90.1 Compliant
IECC Compliant, AHRI Certified

Applied Rooftop Units

WeatherExpert® 48/50N Series
75 to 150 Tons
HFC Puron® Refrigerant (R-410A)
ASHRAE 90.1 Compliant
IECC Compliant

WeatherMaster® 48/50P Series
30 to 100 Tons
HFC Puron® Refrigerant (R-410A)
ASHRAE 90.1 Compliant
IECC Compliant, AHRI Certified

WeatherMaster® 48/50A Series
20 to 60 Tons
HFC Puron® Refrigerant (R-410A)
ASHRAE 90.1 Compliant
IECC Compliant, AHRI Certified

Small Packaged Products

Performance™ 50VG, 48VG
High Efficiency 2 to 5 Tons
Packaged Cooling with Electric Heat or Gas Heat
HFC Puron® Refrigerant (R-410A)

Performance™ 50VR, 48VR
High Efficiency 2 to 5 Tons
Packaged Heat Pump or Hybrid Heat Dual Fuel Heat Pump
HFC Puron® Refrigerant (R-410A)

Comfort™ 50VL
Base Efficiency 2 to 5 Tons
Packaged Cooling with Electric Heat
HFC Puron® Refrigerant (R-410A)

Comfort™ 48VL
Base Efficiency 2 to 5 Tons
Packaged Cooling with Gas Heat
HFC Puron® Refrigerant (R-410A)

Comfort™ 50VT
Base Efficiency 2 to 5 Tons
Packaged Heat Pump
HFC Puron® Refrigerant (R-410A)

Comfort™ 48VT
Base Efficiency 2 to 5 Tons
Hybrid Heat Dual Fuel Heat Pump
HFC Puron® Refrigerant (R-410A)
Packaged products (continued)

**Indoor Self-Contained Systems**

- **Comfort™ 50ZP**
  - Packaged Air Conditioner

- **Comfort™ 50ZH**
  - Packaged Heat Pump

- **Omnizone™ 50XC**
  - Water-Cooled/Air-Cooled/Remote Air-Cooled
  - 5 to 20 Tons
  - HFC Puron® Refrigerant (R-410A)
  - AHRI Certified

- **Omnizone™ 50BV**
  - 18 to 60 Tons
  - HFC Puron® Refrigerant (R-410A)
  - ASHRAE 90.1 Compliant

**Water source and geothermal heat pumps**

- **Aquazone™ 50PSH, PSV**
  - Horizontal/Vertical Upflow
  - 0.5 to 6 Tons
  - HFC Puron® Refrigerant (R-410A)
  - Exceeds ASHRAE 90.1, AHRI Certified

- **Aquazone™ 50PTH, PTV**
  - Horizontal/Vertical Upflow
  - 2 to 6 Tons
  - HFC Puron® Refrigerant (R-410A)
  - Exceeds ASHRAE 90.1, AHRI Certified

- **Aquazone™ 50PSW**
  - Water-to-Water Units
  - 3 to 35 Tons
  - HFC Puron® Refrigerant (R-410A)
  - ASHRAE 90.1 Compliant

- **Aquazone™ 50HQP**
  - Horizontal Large Capacity
  - 6 to 20 Tons
  - HFC Puron® Refrigerant (R-410A)
  - ASHRAE 90.1 Compliant, AHRI Certified

- **Aquazone™ 50VQP**
  - Vertical Large Capacity
  - 6 to 30 Tons
  - HFC Puron® Refrigerant (R-410A)
  - Standard and Extended Range Models
  - ASHRAE 90.1 Compliant, AHRI Certified

**Energy Recovery Ventilators (ERV)**

- **Aquazone™ 50PCH, 50PCV**
  - PCD Compact Units
  - 0.5 to 6 Tons
  - HFC Puron® Refrigerant (R-410A)
  - ASHRAE 90.1 Compliant

- **EnergyX® System**
  - Energy Recovery Ventilators (ERV)
  - WeatherMaster® Rooftops

**Dedicated Outdoor Air Products**

- **62X Air-Cooled DOAS Units**
  - 3 to 55 Tons
  - Optional Integrated ERV
  - Up to 1,200 MBH Gas Heat
  - Available Liquid Subcooling
  - Reheat Package
Application-Specific Controllers
Carrier has application-specific i-Vu® controllers available for all of your system needs. All controllers come with pre-engineered and pre-programmed control algorithms, making equipment easy to configure, commission and operate. All controllers speak native BACnet® and include built-in graphics, trends and alarms for use with our i-Vu® user interfaces.

• VVT and VAV zoning
• Rooftop Units, Air-Handling Units and Water Source Heat Pumps
• Fan Coils and Unit Ventilators
• Air- and Water-Cooled Chillers
• Chiller Plants

Typical Applications:
• Air Handlers
• Chiller Plants
• Meters
• Fans
• Lights
• Custom Control Sequences

Integration Modules/Routers
Expand your control system easily using Carrier i-Vu® routers and i-Vu® links. The i-Vu® router provides BACnet® routing capabilities between its control system’s Ethernet backbone (BACnet/IP), and a subnetwork of Carrier controllers, (MS/TP, Arncnet or CCN).

Carrier i-Vu® link allows you to integrate other manufacturers’ equipment into the Carrier control system. Support for BACnet®, Modbus® and LonWorks® protocols is standard, making it easy to tie in equipment such as VFDs, boilers and lighting.

Plant Control and Optimization
The Carrier® ChillerVu™ plant control system combines application-specific hardware and proprietary software to deliver total plant room automation and improved energy efficiency. Combining the ChillerVu™ plant control system with the ChillerVu™ chilled water system optimizer product results in complete chilled water system energy optimization, reducing overall system energy consumption, while ensuring occupant comfort, improving system reliability and minimizing system downtime.

• Advanced sequencing
• Preconfigured plant room graphics
• Preconfigured energy dashboards
• Water system optimization via intelligent setpoint reset
Sensors

Sensors are the eyes and ears of the control system, allowing controllers to match comfort and indoor air quality requirements with equipment operation. Carrier offers the following options:

• Wired/Communicating
• Wireless
• Temperature
• CO₂
• Humidity
• Motion
• Light Level

VVT® Zone Dampers

For variable volume/variable temperature systems, the VVT® system includes a selection of round and rectangular dampers. The factory-integrated VVT® zone controller maintains space temperature by modulating the supply airflow, while a separate bypass damper is used to modulate system pressure.

Edge® Pro and Comfort™ Pro Thermostats

• Controls up to 3 stages heat and 2 stages cool
• Compatible with gas/electric heat fan coils and heat pumps
• 7-day programmable
• Humidity control capable
• Separate heating and cooling setpoints
• Auto-changeover
• Energy-saving smart fan
• Large backlit displays
• No batteries required
• Flexible mounting options

Water-Cooled Chillers

Packaged Rooftops

Water Source Heat Pumps

The following are trademarks or registered trademarks of their respective companies: USGBC and LEED from U.S. Green Building Council; ASHRAE and BACnet from American Society of Heating, Refrigerating and Air-Conditioning Engineers Inc.; Modbus from Schneider Automation Inc.; LonWorks from Echelon Corporation; IACET from International Association for Continuing Education and Training; and UL from Underwriters Laboratories Inc.
Leaders in HVAC Engineering Software

HVAC Analysis Tools. With its eDesign Suite software, Carrier has been an industry leader in providing HVAC engineering analysis tools since 1981. The flagship software tool in the eDesign Suite is the Hourly Analysis Program (HAP), a multifunctional tool which combines features for peak load estimating, system design, whole building energy analysis, LEED® Energy and Atmosphere Credit 1 analysis, and schematic design energy performance evaluation. Other eDesign Suite tools include System Design Load, a dedicated peak load and system design tool; Block Load, a peak load and system design tool streamlined for speed; Engineering Economic Analysis, a lifecycle costing tool; and Refrigerant Piping Design. eDesign Suite programs are licensed to users through local Carrier sales offices or Carrier distributorships. The software is continually updated to keep pace with the demands of our ever-changing industry. Further information on software features and license costs can be found at carrier.com/commercial/en/us/software.

Product Selection Tools. Carrier also offers the Carrier Electronic Catalog (E-CAT), a fully integrated suite of tools for selecting, configuring and generating thermal, electrical and acoustical performance data for Carrier commercial HVAC products. Tools in this suite cover rooftop units, split systems, dedicated outdoor air (DOAS) units, self-contained units, fan coils, unit ventilators, water source heat pumps, induction terminals and air terminals. These tools are continually updated to keep pace with new product introductions. The software is available through the HVACPartners.com customer portal.

Software Support and Training. All Carrier eDesign Suite and E-CAT software is backed by free support for licensed users. In addition, for-fee software training is offered in cities across the US and Canada every year. Training covers peak load estimating and system design, whole building energy simulation, applying HAP to the LEED® Energy and Atmosphere Credit 1 analysis, and Advanced Modeling Techniques. Support and training are provided by a dedicated team of HVAC engineers, part of Carrier University™, who have decades of experience as consulting engineers, application engineers and HVAC sales engineers.

Carrier Commercial HVAC Mobile Apps

Carrier Rooftops app
The first of its kind in the industry, the Carrier Rooftops app enables you to perform on-the-spot selection of light commercial rooftop units for replacement or new construction.

- Estimates potential energy savings
- Provides contact information for your local sales office
- Provides roof-curb adapter info on replacement jobs
- Provides cloud-based data updates to keep app current

Carrier Chillers app
Enables customers to perform on-the-spot selection of water- or air-cooled chillers for replacement or new construction projects.

- Displays product information including options and accessories
- Provides contact information for your local sales office
- Sends a detailed product page through email
- Provides cloud-based data updates to keep app current

Technical Literature app
A great tool for sales or service, this app places Carrier technical literature at your fingertips. You can search the library and download the literature you need.

- Download and view commercial technical literature
- Select current or obsolete literature
- Search by document type or title

eDesign Suite HVAC Analysis Software Tools
- Hourly Analysis Program (HAP)
- System Design Load (peak loads, system design)
- Block Load (peak loads, system design)
- Engineering Economic Analysis (lifecycle costing)
- Refrigerant Piping Design

Hourly Analysis Program (HAP) Capabilities
- Peak load estimating
- System design
- Whole building energy simulation
- LEED® Energy and Atmosphere Credit 1 analysis
- Schematic design energy performance evaluations

E-CAT Product Selection Tool Capabilities
- Equipment selection per operating requirements
- Product configuration of options and accessories
- Thermal, electrical and acoustical performance data
- Certified drawings

To learn more, visit us at carrier.com/commercial
Learn from the Experts

Training Legacy: In the early 20th century, Willis Carrier began his legacy of heating, ventilation and air-conditioning (HVAC) innovation—and Carrier has trained the industry ever since. Carrier University™ is the premier learning organization in the HVAC industry.

Relevant Courses: Carrier University offers comprehensive HVAC training in a wide range of areas including technical skills, HVAC system design, sustainability, sales and marketing skills and controls.

Immediate Applications: Carrier University has training courses for dealers, distributors, technicians, designers, contractors, consulting engineers, and sales and service personnel.

Industry Credibility: Our commitment to quality training has continued throughout our history and today Carrier University is an IACET®-accredited provider, which makes our courses eligible for continuing education credit. Carrier University is also a U.S. Green Building Council Approved Education Provider and AIA (American Institute of Architects).

Delivery Options: Carrier University delivers courses through traditional classroom settings, self-study training programs, remote training sessions, and online, web-based systems. Carrier University provides self-study training as well as training programs that may also be used to instruct others. Carrier University’s literature programs include books, PowerPoint presentations and narrated self-study programs. We also have a growing library of online, web-based training.

information at the click of a button

EXchange
EXchange is an electronic newsletter offering timely, informative and interesting news about Carrier eDesign Suite software. Delivered quarterly, each issue provides a wealth of information including technical articles, news about new software releases and software in development, training schedules and registration, and answers to frequently asked software questions.

Engineering Newsletter
The Carrier Engineering Newsletter is a quarterly communication providing helpful, topical information concerning industry news and HVAC design trends and solutions.

HVAClips
HVAClips is a monthly newsletter for the consulting/specifying engineer. The publication provides an information-rich conduit for new product releases, case studies, training schedules, and updates to Carrier commercial products.

To find current and past issues, or to subscribe to Carrier’s e-newsletters for up-to-date information on a range of topics, go to: carrier.com/commercial > Literature > Newsletters.
Carrier field service

Leaders in HVAC Building Solutions

Partnering with Carrier Commercial Service brings with it the security of knowing that every facet of your investment is being carefully monitored, analyzed, maintained and documented. This practice initiates with your very first contact with us and will endure over the entire lifetime of your equipment and on to the next. As Carrier’s own servicing entity, we provide a broad portfolio of services from maintenance to retrofits and optimization with factory-trained certified technicians trained on products, customer service and safety.

Leaders in Temporary HVAC Solutions

Ensure that everyone in the office stays cool with Carrier Rentals temporary cooling solutions. With immediate 24-hour availability of chillers, air conditioning units and spot cooling systems, you can be sure to get the right systems to keep your business running. Carrier Rental Systems provides detailed site evaluations for critical areas of your facility. A pre-designed response plan allows for “peace-of-mind” so that in case of an emergency, where time is of the essence, all pre-set-up work has been completed and the equipment is mobilized as designed. Carrier Rental Systems’ factory-trained experts deliver turnkey temperature control, dehumidification and power solutions along with 24-hour customer care.

To learn more, visit us at carrier.com/commercial

Operation, Service and Protection
- Start-up service
- Extended warranty protection
- Service agreements
- Carrier® SMART service
- Predictive maintenance
- Refrigerant management
- Repairs and emergency service

Retrofits, Upgrades and Optimization
- Equipment overhaul and modernization
- Turnkey replacement solutions
- Equipment optimization
- Energy savings solutions
- Building management solutions
- Engineered services

Why Rent?
- Equipment failure
- Planned shutdowms
- New construction projects
- Supplement existing equipment
- Special events and projects

Services Provided
- Application engineering
- Contingency planning
- Emergency response
- Installation and teardown
- Turnkey support

To learn more, visit us at carrier.com/commercial
University Hospitals Ashtabula Health Center (Healthcare/Mixed Use)
Ashtabula, OH

Challenge: Transform an open-plan retail space within a mall with legacy chiller and cooling towers into a modern healthcare facility with precise comfort cooling control.
Solution: Specified high-efficiency gas heat and electric cooling units with VAV boxes with reheat capability to provide precise year-round comfort to individual office areas.
Equipment: Three Carrier 48A WeatherMaker® rooftop units; 39 Carrier 35E Axis™ variable air volume (VAV) boxes; Carrier i-Vu® building automation system (BAS)

Listrak Corporate Headquarters (Office Building)
Lititz, PA

Challenge: Design a bundled equipment and controls solution to deliver centralized comfort control for large, common work areas and individualized cooling and heating for peripheral offices.
Solution: Installed a bundled HVAC equipment and controls solution designed to meet precise comfort needs of large open work spaces and peripheral offices.
Equipment: 21 Carrier 48TC WeatherMaker® rooftop units; 13 Toshiba Carrier VRF systems; Carrier i-Vu® controls and Carrier i-Vu® building automation system (BAS)

Lehigh Valley Health Network (Healthcare/Office Building)
Allentown, PA

Challenge: Replace original outdated chiller with a reliable, efficient unit which could also take over the load carried by a second, magnetic-bearing chiller that had developed costly ongoing maintenance issues.
Solution: Selected a chiller with chlorine-free HFC-134a refrigerant that is not subject to phase-out.
Equipment: One Carrier 23XRV AquaEdge® water-cooled screw chiller with variable-speed drive (VSD)

Motorcars Toyota (Retail)
Mayfield Heights, OH

Challenge: Replace outdated heating, ventilating and air-conditioning (HVAC) system and unreliable controls with high-efficiency equipment and secure, easily accessed controls.
Solution: Utilized Carrier software to demonstrate the cooling cost savings of the rooftop unit. Recommended Wi-Fi-enabled thermostats, allowing management to precisely manage the HVAC system via computer, smartphone or tablet from any Internet-enabled location.
Equipment: 11 Carrier 48LC WeatherExpert® rooftop units; Carrier Connect™ Wi-Fi-enabled thermostats

The Verizon Hotel of Basking Ridge (Lodging)
Basking Ridge, NJ

Challenge: Address inadequate comfort cooling from two existing air-cooled chillers, reduce escalating service costs and implement solution without facility usage interruption.
Solution: Provided high-efficiency chillers that wirelessly stream operating data to the cloud to ensure optimal performance and uptime.
Equipment: Two Carrier 30XV AquaForce® air-cooled, variable speed screw chillers; Carrier® SMART Service

University of Alabama in Huntsville (Higher Education)
Huntsville, AL

Challenge: Deliver an energy-efficient HVAC solution for a new building to support sustainability goals and provide a comfortable indoor environment for students and administrators.
Solution: Installed two heat recovery chillers to provide simultaneous heating (condenser water pumped into pre-existing hot water loop) and cooling to multiple campus buildings connected to the central plant.
Equipment: Two Carrier 300W AquaForce® heat recovery chillers

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Lititz, PA

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The word “improve” represents Carrier’s belief in continuous improvement of our products and services, our customers’ experience and our environmental impact. Whether it’s reducing our greenhouse gas impact, leading the phase-out of ozone-depleting refrigerants or introducing many of the world’s most energy-efficient building solutions, at Carrier, we incorporate sustainability into all that we do. To us, it’s only natural.

Willis Carrier was the company’s earliest sustainability leader. Utilizing precise cooling processes, his invention would enable countless industries to avoid waste and preserve resources for future generations.

The Future of the World Depends on Our Ability... to Sustain It.

Willis wouldn’t have it any other way.

Utilizing precise cooling processes, his invention would enable countless industries to avoid waste and preserve resources for future generations.