



United Technologies  
turn to the experts 

## AquaForce® 30XV Air-Cooled Screw Chiller



Designed for tomorrow. Expert fit for today.





## The AquaForce® 30XV Air-Cooled Screw Chiller from Carrier – the Most Versatile Chiller. Anywhere.

When it comes to cooling systems today, the industry demands more – and less. More efficiency with less footprint. More reliability with less complexity. More sustainability with less sound. To meet these seemingly competing demands, the same old solutions, prepackaged products and one-size-fits-all technologies just can't cut it.

That's why the experts at Carrier developed the all-new 30XV Air-Cooled Screw Chiller. With a range of available benefits, tiered capacity offerings, innovative features and more, the versatile 30XV can be expert fit to meet almost any cooling demand, anywhere.

### Innovative Features for Enhanced Versatility

The 30XV was developed with advanced features to ensure performance and efficiency that meet the cooling needs of tomorrow's buildings, in a design that's ready for action today. Here are a few of those features at a glance:



#### Variable Frequency Drives

Designed to be fully air-cooled by ambient air, reducing the potential for condensation problems found with refrigerant or water-cooled drives.



#### Greenspeed® Intelligence

Enhances efficiency and quiet operation.



#### Next-Generation Rotary Screw Compressor

Designed specifically for next-generation VFD operation.



#### Groundbreaking Air Management System

Utilizes the latest-generation AeroAcoustic® fans for a smaller installed footprint with added capacity.

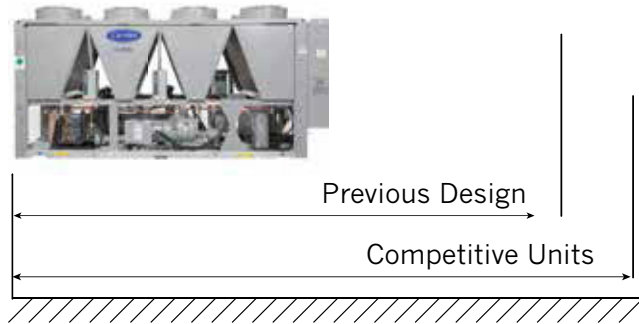


User-friendly control with color touchscreen display incorporating self-optimizing control feature. This enables the 30XV to run at optimum performance at any given set of conditions.

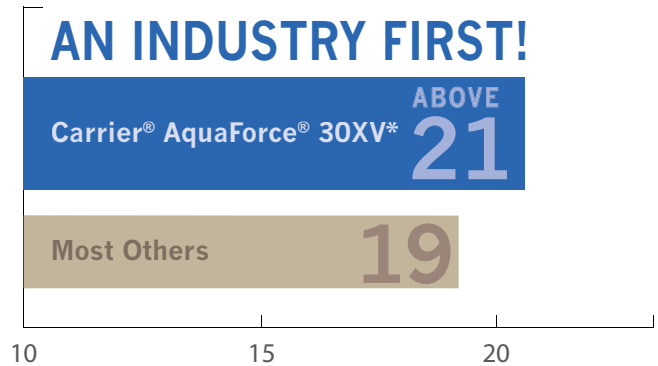
## LEADING EFFICIENCY IN ALL SIZES

With the 30XV's tiered approach, you won't have to sacrifice efficiency to meet smaller size requirements. The 30XV offers footprints that are significantly smaller on average versus previous and competitive designs while achieving best-in-class efficiency. In fact, the 30XV can deliver industry-leading IPLVs above 21.0, setting a new industry standard. That way, whether you have space constraints or are looking for optimal lifecycle costs, we have a solution that's expert fit to your needs.

### Reduced Footprint and Improvement on Efficiency



### Integrated Part Load Value (IPLV)



### PERFORMANCE ACROSS APPLICATIONS

While operating conditions vary by environment and application, the 30XV is designed to perform across them all. Our new-generation rotary screw compressor is specifically designed to run with the newest in variable speed technology, allowing high efficiency at a wide range of operating points. Its operating envelope includes ambient temperatures of -20 to 131F (-29 to 55C), making the 30XV ideal for applications including schools, hotels, data centers, office buildings and more.

### QUICKER CAPACITY RECOVERY

For applications that require the unit to quickly recover after a power supply interruption, the 30XV has you covered. Plus, it's more than a quick restart. The 30XV is able to recover to its full cooling capacity within four minutes after the interruption.



Quiet AeroAcoustic® fan system

### QUIET BY DESIGN

While others talk about stealth operation, the 30XV truly delivers a combination of design features and software to make it a reality. VFD fans, a compressor sound enclosure, a dual muffler and more allow the unit to operate virtually unnoticed. The 30XV has a combination of design features and software that delivers in the most sound-sensitive applications.

- **Quiet AeroAcoustic® fan system** – Facilitates low sound emissions, with excellent condenser fan air movement for superior performance.
- **Sound optimization software** – Helps ensure the quietest possible operation, making it the perfect solution for sound-sensitive applications like hospitals, schools, hotels and more.

\*IPLV Ratings greater than 21 available in certain models.  
AeroAcoustic® is a registered trademark of Aeroacoustic Corporation.

## Benefits at a Glance

### For Building Owners and Managers

- Reliable, efficient operation
- Reduced install cost, with no need for modification
- Quiet system operation
- High efficiency in existing facility space
- Quick recovery after power outage

### For Consulting Engineers

- Assurance that design conditions will be met
- Confidence in sound-critical designs
- Easy incorporation into existing spaces
- Proper design function over the life of the chiller

### For Contractors

- Ensured customer satisfaction
- Reduced noise complaints
- Ability to meet specified space requirements
- Fewer service calls due to faster capacity recovery



### Green Products Come From Green Factories

Customers can be confident that the products manufactured by Carrier are manufactured at best-in-class factories, with the goal of being energy efficient and environmentally sustainable when possible.

The Carrier North America Chiller and Split Systems manufacturing plant, located in Charlotte, N.C., has achieved LEED® Certification and is a winner of Industry Week's "Best Plants" award.



[carrier.com/30XV](http://carrier.com/30XV)