

# Carrier AquaSnap® 30MP Modular Chiller

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16 to 550 Tons / 56 to 1,934 kW 50/60 Hz



## Benefits At a Glance

### For Building Owners and Managers

- Snap to Install, Operate and Control
- Quiet, Reliable Operation
- Building Automation System Compatible
- Environmentally Sustainable Refrigerant
- 15 Hp/Circuit Option

### For Consulting Engineers

- ASHRAE 90.1 Compliant
- Ideal for Retrofit, Replacement or Building Expansion Projects
- Seismic Compliant

### For Contractors

- Factory Operational Testing
- Low Installation Costs
- Compact Footprint
- Thermowells, Schrader Valves Standard



## SEISMI-COMPLIANT\*

\*Meets IBC 2006, ASCE-7-05, CBC 2007, and OSHPD seismic requirements (select models)

Water cooled chillers within the scope of the AHRI WCCL certification program are certified in accordance with the AHRI Water-Cooled Water-Chilling and Heat Pump Water-Heating Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (S). Certified units may be found in the AHRI Directory at [www.ahridirectory.org](http://www.ahridirectory.org). Condenserless versions of these units are not certified under the AHRI certification program.

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, NC, has achieved LEED®\* Certification and is a 2010 winner of Industry Week's "Best Plants" award.



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## Efficient Custom Cooling for Retrofit or New Construction.

The Carrier AquaSnap® 30MP chiller delivers high-efficiency cooling customized to the precise requirements of your facility.

With a host of configuration options, the AquaSnap 30MP modular chiller is a snap to install, operate and control for years of quiet, reliable, cost-saving performance.

And thanks to its modular design, the 30MP chiller plant can match a facilities' present and future capacity requirements by adding modules as needed. It can also be field-assembled in limited-access mechanical rooms, so every new construction or retrofit project can benefit from years of Carrier reliability and performance.



The AquaSnap 30MP chiller's modular and compact design facilitate efficient, cost-saving installation and configuration.

### AquaSnap® 30MP Module Dimensions<sup>1</sup>

Module	L (Inches)	W (Inches)	H <sup>2</sup> (Inches)
16 - 45	55	32	62.5
50 - 71	55	32	66.3
Distribution Panel	55	32	70.25

<sup>1</sup> Dimensions reflect Single Modules with no Options.

<sup>2</sup> Add 4" (Inches) to Height for Mobility Kit Option.

### A Snap to Install.

#### Simple Set-Up

In addition to its compact footprint, features and options simplifying installation include:

- Mobility Kit Option
- Standard Cooler Flow Switch
- Water Manifold Option
- Height Adjustment Kit Standard
- Low Sound Option

#### Load Matching

With 11 sizes to choose from, modules can be mixed and matched to meet your application-specific load.

#### Single-Point Power

Individual power feeds allow for partial capacity.



Optional Electrical Distribution Panel

#### Customer-Supplied Branch Disconnect Panel



Chiller serviceability is simplified with single-point power to each AquaSnap 30MP module.

## Compact. Cost-Effective Comfort. AquaSnap® 30MP Chiller.

### A Snap to Operate.

#### Medium Temperature Brine Application

Unit may be factory-modified to permit brine operation from 15° to 32°F (-9.4° to 0.0°C) leaving brine temperature.

Refrigeration circuit components, such as the expansion



device and liquid line solenoid, are modified to permit low refrigerant flow rates typical of brine duty operation.

#### Remote Air-Cooled Application

In applications where air-cooled chillers create installation,



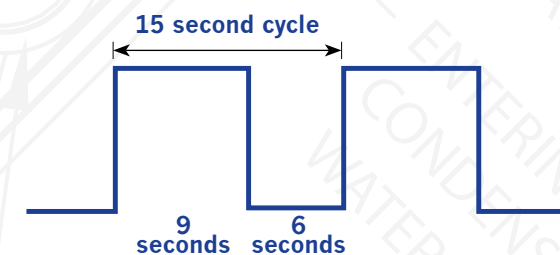
maintenance or sound issues, a condenserless 30MPA option is available. Moving the cooler and compressor inside

reduces the chiller footprint, eliminates the need for glycol, and reduces outdoor sound levels.

### A Snap to Control.

#### Digital Scroll Compressors

(16 to 45 ton units<sup>1</sup>) Digital scroll compressors are available as a factory-installed option. These compressors allow incremental unloading with capacity modulation to better match building load when compared to standard scroll compressors.



$$\text{Capacity} = \frac{\text{On Time (s)}}{\text{Total Time (s)}} = \frac{9}{15} = 60\% \text{ Capacity}$$

<sup>1</sup>Units without multi-unit controller option

### Heat Recovery Application<sup>2</sup>



Allows for transferring heat energy from sources that do not perform any useful work in a chiller plant to

spaces where utilization of this heat may result in significant energy savings for the facility.

With up to 140°F (60°C) leaving condenser water temperature, the 30MP is great for applications such as reheat, process, and domestic water heating.



**Multi-Unit Controller** Allows for chiller operation of up to eight 30MP modules in a single plant.

Factory programming allows for plug-and-play set-up and configuration.



<sup>2</sup>Option available where applicable