

# Aqua Series Air-Cooled Chillers

*Carrier*

turn to the experts™ 





# Aqua Series

## Superior Full- and Part-Load Performance



Leave it to Carrier to design chillers in ways you'll notice at the initial purchase, through installation and for years afterward. Our Aqua Series chillers

install quickly and easily to save you time and money. And the savings will continue to mount with lower operating costs due to Aqua Series' superior full- and part-load performance. Available in 10- to 500-ton chillers, the Aqua Series chillers come in two lines:

**AquaSnap®** chillers with Puron® refrigerant (HFC-410A) provide excellent part-load performance in a compact package, while meeting ASHRAE 90.1 minimum energy efficiency requirements.

**AquaForce®** chillers with HFC-134a provide best-in-class full and part-load performance in a single chassis, while exceeding ASHRAE 90.1 standards.

With environmentally sound refrigerant, simple installation, superior efficiency and powerful controls, these units are ideal for both replacement and new construction projects.



### Environmental Leadership

**HFC-134a** Carrier was the first manufacturer to introduce non-ozone-depleting refrigerant — a full six years ahead of the competition — paving the way for the future. Once again, Carrier leads the way, being the first to use environmentally sound refrigerant in air-cooled chillers. All of the energy-efficient AquaSnap chillers, from 10 to 390 tons, come standard with Puron refrigerant and can be incorporated into Leadership in Energy and Environmental Design (LEED®) Green Building Rating System™ projects. Furthermore all of the AquaForce chillers utilize HFC-134a.

### Affordability/Installability

**LOWEST INSTALLED COST** Aqua Series air-cooled chillers feature a compact, all-in-one package design. Aqua Series chillers are available with or without an integrated hydronics package in many sizes. If you choose the optional built-in hydronics package, you get an entire chilled-water system with the pump, circuit setter, strainer, required piping and freeze protection to -20°F. For installation convenience, all pump motors offer standard VFD (variable frequency drive) compatibility. This prepackaged design costs less than buying and installing the components individually. The Aqua Series also saves on installed cost due to its rugged base frame. This feature is standard on all units greater than 60 tons. The frame is capable of point loading, which lowers installed cost by eliminating expensive field-erected base rails.

### Efficiency

**15.4 IPLV** Along with cost efficiency in purchase and installation, Aqua Series chillers are also more affordable to operate. They are highly efficient, with full-load energy efficiency ratios (EER) up to 10.9 and integrated part-load value (IPLV) ratings as high as 15.4. The key to Aqua Series chillers' great operating performance is the use of highly efficient rotary scroll and screw compressors. These compressors use patented sealing techniques, allowing for high volumetric efficiency and low frictional losses. They are maintenance-free and protected by an auto-adaptive control that minimizes wear.

### Quiet

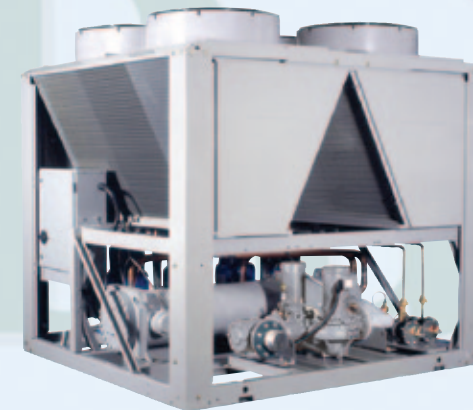
Aqua Series chillers make their noise in the marketplace, not the workplace. The AeroAcoustic™ fan is almost twice as quiet as the competition. Much of the reduction is in frequencies where noise is the most annoying, making Aqua Series chillers ideal for sound-sensitive environments. In addition, Aqua Series chillers offer a low-sound option.

### Environmentally Sound and Energy-Efficient Air-Cooled Chillers



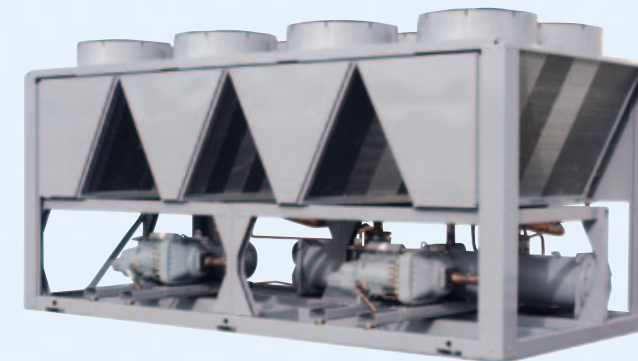
#### 30RAP AquaSnap® Chillers

- 10 to 60 Tons
- Puron® refrigerant
- Reduced operating costs
- Quiet operation
- Reliable operation
- Plug-and-play hydronics



#### 30RB AquaSnap® Scroll Chillers

- 60 to 390 Tons
- Puron® refrigerant
- Simple to specify
- ASHRAE 90.1 compliant
- Streamlined installation
- Reduced installation expenses
- Plug-and-play hydronics



#### 30XA AquaForce® Screw Liquid Chillers

- 80 to 500 Tons
- HFC-134a refrigerant
- Reliable performance
- Easy to start up and operate
- High efficiency
- Reduced energy consumption
- Plug-and-play hydronics



## The Right Level of Control

The *ComfortLink*<sup>™</sup> control system makes it easy to monitor and control each Aqua Series air-cooled chiller. The *ComfortLink* system provides functions such as demand limit, load shed and water temperature reset capabilities. These features provide added control for reduced energy usage.

The Aqua Series chillers offer many display options, including the Touch Pilot<sup>™</sup>, standard on AquaForce<sup>®</sup> chillers and the scrolling marquee on AquaSnap<sup>®</sup> chillers. These act as windows to the unit's operation and greatly reduce start-up time. An easy-to-follow menu structure makes it simple to find the required information for start-up and service.

The Touch Pilot display provides an easy to use touch screen user interface. It provides access to configuration, maintenance, service, setpoint, time schedule, alarm history and status data.

The scrolling marquee's large light-emitting diode (LED) display is easy to read in any lighting condition. Even gloved hands can easily access large control buttons.

An optional accessory on all Aqua Series chillers, the Navigator<sup>™</sup> controller by Carrier is an exclusive remote handheld diagnostic unit, which provides expanded information on virtually every aspect of operation, helping technicians to quickly diagnose problems and even prevent them from occurring.

All Aqua Series chillers are also ready to be used with the Carrier Comfort Network<sup>®</sup> (CCN).

For all your comfort needs, Carrier has the right level of control.

*ComfortLink*<sup>™</sup> Controls

### Selection Guide

<b>Model 30RAP (R-410A)</b>	010	015	018	020	025	030	035	040	045	050	055	060
Capacity (tons)	10	14	16	19	24	28	34	39	43	48	53	56
Length (in.)	67	67	89	89	89	89	89	89	89	89	89	89
Approx. Weight (lb.)	704	718	1125	1133	1242	1283	2163	2185	2238	2263	2369	2375
<b>Model 30RB (R-410A)</b>	060	070	080	090	100	110	120	130	150	160	170	
Capacity (tons)	57	67	76	86	96	106	118	127	144	153	167	
Length (in.)	95	95	95	142	142	142	189	189	189	236	236	
Approx. Weight (lb.)	3,783	3,978	4,267	5,449	5,663	6,027	7,119	7,402	8,517	9,475	9,799	
<b>Model 30RB (R-410A) cont.</b>	190	210	225	250	275	300	315	330	345	360	390	
Capacity (tons)	189	202	214	238	260	283	306	320	333	355	377	
Length (in.)	283	283	283	330	377	424	472	472	472	519	566	
Approx. Weight (lb.)	11,064	12,772	13,093	14,349	15,647	16,893	18,950	19,274	19,598	20,863	22,128	
<b>Model 30XA (R-134a)</b>	080	090	100	110	120	140	160	180	200	220	240	
Capacity (tons)	76	85	94	103	111	133	153	172	195	213	229	
Length (in.)	142	189	189	189	189	236	236	283	283	330	330	
Approx. Weight (lb.)	7,234	9,382	9,603	9,738	9,877	12,023	12,255	12,699	12,810	13,748	13,897	
<b>Model 30XA (R-134a) cont.</b>	260	280	300	325	350	400	450	500				
Capacity (tons)	251	269	288	307	325	385	428	459				
Length (in.)	377	377	377	424	424	471	518	518				
Approx. Weight (lb.)	15,720	15,878	16,141	17,467	17,659	23,038	24,901	25,167				

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