

Selection Guide

Model 30RAP (R-410A)	010	015	018	020	025	030	035	040	045	050	055
Capacity (tons)	10	14	16	19	23	28	34	39	43	47	52
Length (in.)	67	67	89	89	89	89	89	89	89	89	89
Approx. Weight (lb.)	704	718	1,125	1,133	1,242	1,283	2,163	2,185	2,238	2,263	2,369

Model 30RAP (R-410A) cont.	060	070	080	090	100	115	130	150			
Capacity (tons)	56	69	77	84	99	112	128	140			
Length (in.)	89	151	151	151	191	191	232	232			
Approx. Weight (lb.)	2,375	3,410	3,641	3,697	4,690	5,008	6,451	6,938			

Model 30RB (R-410A)	060	070	080*	090*	100*	110*	120*	130*	150*	160*	170*
Capacity (tons)	57	67	76	86	93	106	118	127	140	153	164
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

Model 30RB (R-410A) cont.	190*	210*	225*	250*	275*	300*	315*	330*	345*	360*	390*
Capacity (tons)	186	196	206	228	251	272	306	317	328	350	372
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

Model 30XA (R-134a)	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

Model 30XA (R-134a) cont.	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			

\*Available with Greenspeed® Technology (optional)

Benefits at a Glance

For Building Owners & Managers

- Reduced operating costs
- Quiet operation
- Reliable operation
- Environmentally balanced refrigerant

For Consulting Engineers

- Simple to select
- ASHRAE 90.1 compliant
- High efficiency
- Reduced energy consumption
- HFC refrigerants

For Contractors

- Streamlined installation
- Reduced installation expenses
- Reliable performance
- Easy to start-up and operate
- Plug-and-play hydronics

A Legacy of Training



Willis H. Carrier began training members of the heating, ventilation, air conditioning and refrigeration industry in 1905. Carrier continues to promote technical expertise in the industry with the expansion of its sustainable solutions curriculum and has recently been named a U.S. Green Building Council Education Provider (USGBC EP).

To earn this status, Carrier's course materials were reviewed by a panel of USBGC peers and deemed to provide the high level of quality required for training Leadership in Energy and Environmental Design (LEED®) professionals. The courses and workshops supporting LEED-Accredited Professional and Green Associates credential maintenance are administered through Carrier University.

Aqua Series  
Air-Cooled Chillers  
10 to 500 Tons

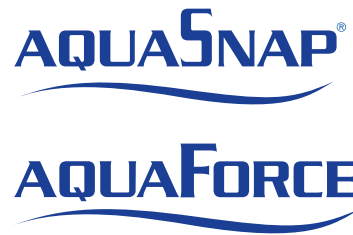


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# Environmentally Balanced and Energy-Efficient Air-Cooled Chillers



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 HFC Puron® refrigerant (R-410A) provide excellent part-load performance in a compact package, while meeting or exceeding ASHRAE 90.1 minimum energy efficiency requirements. Now available with optional Greenspeed® Technology, delivering a quieter and much more efficient unit with IPLV up to 17.1.

**AquaForce®** chillers with HFC-134a provide full- and part-load performances in a single chassis exceeding ASHRAE 90.1 standards.

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



## Environmental Leadership

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 balanced 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

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 and most hydronic packages are available with a factory-installed VFD. 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. The frame is capable of point loading, which lowers installed cost by eliminating expensive field-erected base rails.

## Efficiency

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 17.1. 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 AquaSnap chiller's low-sound AeroAcoustic® fan produces up to half the sound level of the propeller fan. Much of the noise reduction is in frequencies where noise is most annoying, which makes AquaSnap chillers ideal for sound-sensitive environments. In addition, Aqua Series chillers offer a low-sound option.

LEED® is a registered trademark of the U.S. Green Building Council.  
AeroAcoustic® is a registered trademark of Aeroacoustic Corporation.



## 30RAP AquaSnap® Chillers

- 10 to 150 Tons
- HFC Puron® refrigerant (R-410A)
- Reduced operating costs
- Quiet operation
- Reliable operation
- Plug-and-play hydronics



## 30RB AquaSnap® Scroll Chillers

- 60 to 390 Tons
- HFC Puron® refrigerant (R-410A)
- Simple to specify
- ASHRAE 90.1 compliant
- Streamlined installation
- Reduced installation expenses
- Plug-and-play hydronics
- Full heat recovery option
- With optional Greenspeed® Technology (IPLV up to 17.1)



## 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
- Direct expansion cooler option for low leaving fluid temperatures

## SEISMICOMPLIANT

Meets IBC 2006, ASCE-7-05, CBC 2007 and OSHPD seismic requirements.