



AquaForce® 30XA Air-Cooled Screw Chiller

Technical Specifications

At a glance

Compressor Type

Screw

Refrigerant

R-134a

Capacity Range

80 - 500 Tons

Capacity Range

280 - 1,755 kW

Features

Performance Features

Full-load EER values up to 10.9 and IPLV values up to 15.5

ASHRAE 90.1 compliant / AHRI certified

Operation from -20 F to 125°F ambient conditions

High-efficiency screw compressors

Standard uncoated or optional e-coated Novation® microchannel heat exchanger (MCHX) condenser coils

Touch Pilot™ display with color touch screen with trending capability and web-based connection

Reliability Features

ASME constructed evaporators / ETL (and ETL Canada) listed

Heavy-gauge galvanized steel frame

Security grilles and Hail guards/Privacy screen choices

Low ambient head pressure control

Coil corrosion coatings available on all coil types

High short circuit current rating

EXV (Electronic expansion valve)

Maintenance Features

Over 15 diagnostic functions

Permanently lubricated fan motor bearings

Compressor suction service valves

Microchannel condenser coils with inherent corrosion resistance and offering simplified cleaning

Unit-mounted, non-fused disconnect

Remote service port for easier machine diagnostics

Installation Features

Factory charged with R-134a refrigerant

GFI (ground fault interrupter) convenience outlet (factory-installed option or field-installed accessory)

Remote cooler kit (field-installed accessory)

Single or dual-point electrical connections available (factory-installed option)

Control transformer (factory-installed option)

Structurally robust base

Circuit setter provided with optional pump package (factory-installed option)

Standard Warranty

3 year coil parts only on Novation microchannel heat exchanger

One year from start-up or 18 months from shipment limited warranty

Extended warranty packages available

Options

Factory-Installed Options

Service option

Condenser coil trim panels

Full end screen

Hydronic pump package with or without VFD (sizes 090-160)

Non-fused disconnect

Security grilles

Energy Management Module

Compressor sound reduction enclosures

Compressor suction service valve

Condenser coil upper hail guards

BACnet™ communication

BACnet™ translator control

LON (local operating network) translator control

Low ambient temperature head pressure control

Single or dual-point electrical connection

High ambient temperature option

Touch Pilot™ display

Navigator™ display

DX cooler

Minus-one-pass cooler (flooded cooler only)

Plus-one-pass cooler (flooded cooler only)

Control transformer

Suction line insulation

High short circuit current rating

Field-Installed Accessories

Security grilles

Condenser coil full hail guards

Navigator™ display

GFI convenience outlet

Energy Management Module

LON (local operating network) translator control

BACnet™ translator control

Remote service port

Remote cooler

Condenser coil trim panels

Dual-chiller accessory kit

External pump control

Physical Data

30XA Weights & Dimensions

Size	Weight (lb)	Weight (kg)	Length (in)	Length (mm)	Width (in)	Width (mm)	Height (in)	Feedback
80	7234	3281	141	3587	88	2236	91	
82	7391	3353	141	3587	88	2236	91	
90	8127	3686	188	4780	88	2236	91	
92	8251	3742	188	4780	88	2236	91	
100	8348	3786	188	4780	88	2236	91	
102	8472	3843	188	4780	88	2236	91	
110	8483	3848	188	4780	88	2236	91	
112	8720	3955	188	4780	88	2236	91	

120	8622	3911	188	4780	88	2236	91
122	8832	4006	188	4780	88	2236	91
140	10768	4884	235	5975	88	2236	91
142	11225	5091	235	5975	88	2236	91
160	11000	4990	235	5975	88	2236	91
162	11426	5183	235	5975	88	2236	91
180	12669	5760	282	7168	88	2236	91
182	13044	5917	282	7168	88	2236	91
200	12810	5811	282	7168	88	2236	91
202	13112	5948	282	7168	88	2236	91
220	13748	6236	329	8363	88	2236	91
222	14092	6392	329	8363	88	2236	91
240	13897	6304	329	8363	88	2236	91
242	14241	6459	329	8363	88	2236	91
260	15720	7130	376	9555	88	2236	91

Feedback

262	15922	7222	376	9555	88	2236	91
280	15878	7202	376	9555	88	2236	91
282	16080	7294	376	9555	88	2236	91
300	16141	7322	376	9555	88	2236	91
302	16613	7535	376	9555	88	2236	91
325	17467	7923	423	10750	88	2236	91
327	17939	8137	423	10750	88	2236	91
350	17659	8010	423	10750	88	2236	91
352	18131	8224	423	10750	88	2236	91
401	20785	9424	470	11945	88	2236	91
451	21737	9859	517	13139	88	2236	91
476	25362	10641	517	13139	88	2236	91
501	27403	11540	611	15532	88	2236	91

Feedback

Notes

- 1. Indicated weight is for chiller employing MCHX condenser coils and incorporating no pump.
- 2. Other coil options or the addition of pump(s) increases chiller weight.

Documents

Accessory and Kit Data

ComfortLink Service
Port Connection
Accessory for
30RB060-39...

Published 10/16/2023

1 MB 

Remote Cooler
Accessory for
30XA080-350 Fixed
Speed Air-Cool...

Published 12/23/2019

1 MB 

Remote Cooler
Accessory for
30XA082-352 (DX
Cooler Option)

Published 7/16/2015

3 MB 

Ground-Fault
Interrupter
Convenience Outlet
Accessory for 30...

Published 11/24/2025

Dual Chiller
Thermistor Accessory
for 30RB060-300,
30XA Fixe...

Published 8/1/2023

Remote Cooler
Accessory for
30XA080-350
(Flooded Cooler Unit...

Published 7/16/2015

Feedback

578 KB 

Low Ambient
Temperature Head
Pressure Control
Accessory for ...

Published 1/6/2021

1 MB 

Minimum Load
Control Accessory for
30XA080-501

Published 3/1/2022

1 MB 

Condenser Coil Trim
Panel Accessory for
30RB060-390, 30XA
Fi...

Published 10/8/2019

441 KB 

Brochure

663 KB 

Energy Management
Module Accessory for
30RB060-390,
30XA080-...

Published 11/24/2025

1 MB 

External Pump
Control Accessory for
30XA080-500

Published 11/24/2025

329 KB 

1 MB 

Security Grille
Package Accessory
for 30RB060-390,
30XA Fixe...

Published 1/11/2021

15 MB 

Hail Guard Doors
Accessory for
30RB060-390, 30XA
Fixed Speed...

Published 7/16/2015

905 KB 

Aqua Series Air-Cooled Chillers - Line Card

Published 5/8/2020

785 KB 

Aqua Series Air-Cooled Chillers Brochure

Published 2/1/2021

2 MB 

A World of Comfort 2025 - Brochure (Printer Version)

Published 11/24/2025

22 MB 

Cost-Effective Energy Solutions for Your Chilled Water Plant

Published 7/15/2022

1 MB 

Carrier® BluEdge Digital Connectivity

Published 10/8/2025

827 KB 

A World of Comfort 2025 - Brochure

Published 6/11/2025

8 MB 

Vibration Analysis: Evaluate Your Chiller Performance

Published 7/19/2022

200 KB 

Case Study

Huntsville Aquatic Center

Published 11/27/2023

1 MB 

Harris County Sheriff's Building

Published 7/10/2015

329 KB 

Controls

30XA080-501 Controls, Start-Up, Operation, Service and Troub...

Published 2/23/2024

11 MB 

Guide Specifications

30XA Guide Specifications, 80 to 500 Nominal Tons (265 to 17...

Published 6/14/2023

93 KB 

Installation

30XA080-501
AquaForce® Air-
Cooled Liquid Chillers
Published 3/7/2022
31 MB [↓](#)

Press Release

Carrier Achieves
World Class
Efficiencies on
AquaForce Air-C...
Published 11/24/2025
25 KB [↓](#)

Carrier Introduces
New AquaForce Air-
Cooled Chiller with R-
1...
Published 7/10/2015
41 KB [↓](#)

Press Release - Carrier
Launches Mobile App
for Commercial C...
Published 7/10/2015
42 KB [↓](#)

Press Release - Carrier
Leads the Industry
with the Most Com...
Published 7/10/2015

Press Release - Carrier
Releases Updated
Chiller Mobile App
Published 11/24/2025

Press Release - Carrier
AquaEdge® 19XR,
23XR and AquaForce®
...
Published 11/24/2025

Feedback

42 KB 

271 KB 

179 KB 

Product Data

i-Vu Open UPC Open
Factory Installed
Product Data Sheet

Published 12/14/2022

257 KB 

Carrier® ChillerVu™
PSM-IO Product Data
Sheet

Published 12/17/2020

410 KB 

Carrier® ChillerVu™
Chilled Water System
Optimizer Product D...

Published 11/24/2025

513 KB 

30XA080-501
AquaForce® Fixed
Speed Air-Cooled
Liquid Chiller...

Published 6/14/2023

15 MB 

REVIT and 3D DRW Files

30XA080-500 Revit
Family File

Packaged Chiller Revit
Family File Cheat

Published 5/4/2021

2 MB 

Sheet - Tips and Tr...

Published 11/24/2025

723 KB 

Warranty Card

Limited Warranty for
Commercial
Equipment

Published 11/24/2025

274 KB 

Wiring Diagrams

30XA080-500
AquaForce® Air-
Cooled Liquid Chillers
with Comfo...

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