



Turn to the experts

Product Data

AquaEdge® High-Efficiency Variable Speed Screw Chiller

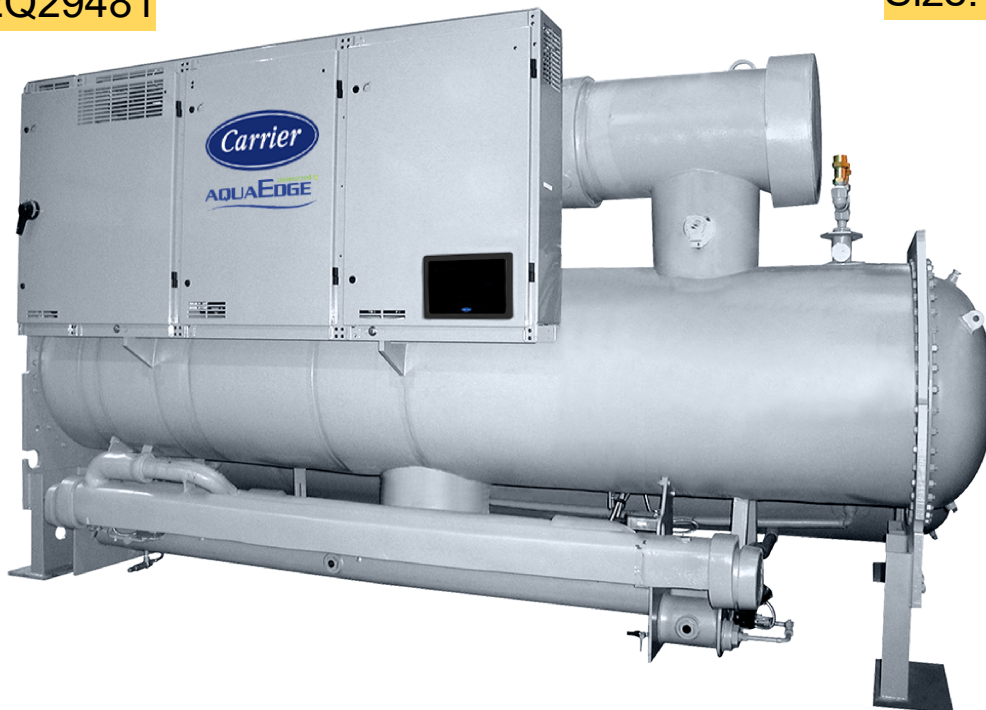
175 to 550 Nominal Tons

(615 to 1934 Nominal kW)



Model #: 23XRV4242NRVAA50
Serial #: 4622Q29481

Year: 2022
Size: 500 Tons

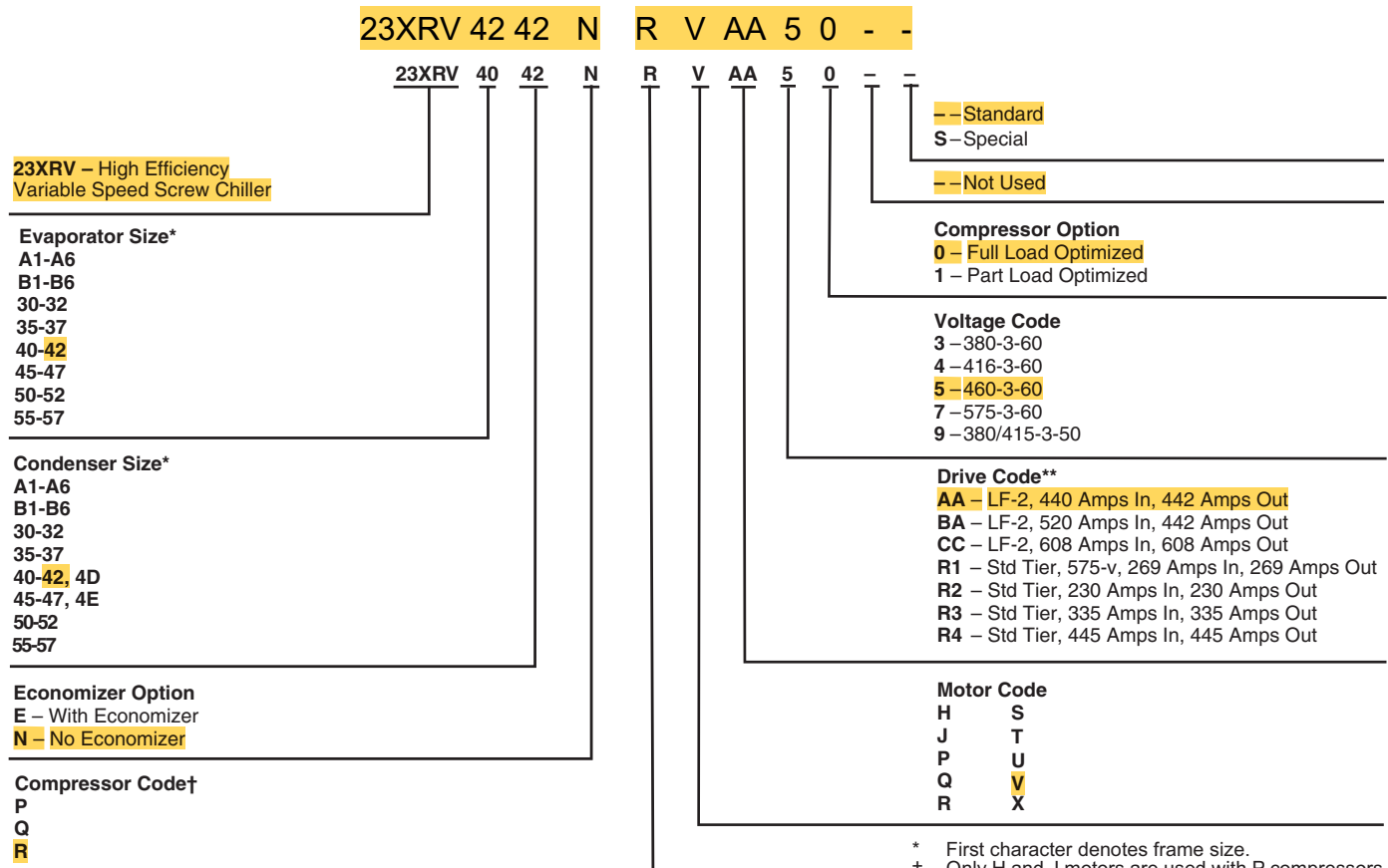


23XRV
High-Efficiency Variable Speed Screw Chiller
with Greenspeed® Intelligence

Shipping Weight: 18,489 lbs.
Operating Weight: 21,303 lbs.

L: 14' 4" W: 6' 8" H: 7' 7"

Model number nomenclature



* First character denotes frame size.

† Only H and J motors are used with P compressors. Only type V motors are used with Q compressors.

**Maximum limits only. Additional application limits apply that may reduce these capacities.



Quality Assurance

ISO 9001:2015-certified processes

Water-cooled chillers within the scope of the AHRI (Air-Conditioning, Heating, and Refrigeration Institute) Water-Cooled Chiller 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 (SI). Certified units may be found in the AHRI Directory at www.ahrirectory.org.

SEISMICOMPLIANT*

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

23XRV COMPRESSOR AND MOTOR WEIGHTS

COMPRESSOR TYPE	MOTOR SIZE	ENGLISH (lb)				SI (kg)			
		Total Compressor Weight	Stator Weight	Rotor Weight	Motor Terminal Cover	Total Compressor Weight	Stator Weight	Rotor Weight	Motor Terminal Cover
P	H,J	3036	110	167	N/A	1377	50	76	N/A
Q	V	4090	370	193	39	1855	168	88	18
R	P,Q,R,S,T,U,V,X	4866	441	229	46	2207	200	104	21

MAXIMUM COMPONENT WEIGHTS

COMPONENT		FRAME 3 HEAT EXCHANGER		FRAME 4 HEAT EXCHANGER		FRAME 5 HEAT EXCHANGER		FRAME A HEAT EXCHANGER		FRAME B HEAT EXCHANGER	
		lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
Isolation Valves		70	32	70	32	115	52	70	32	70	32
Suction Elbow	P Compressor	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Q Compressor	159	72	187	85	184	83	N/A	N/A	N/A	N/A
	R Compressor	179	81	237	108	232	105	N/A	N/A	N/A	N/A
Discharge Elbow/Muffler	P Compressor	N/A	N/A	N/A	N/A	N/A	N/A	584	265	584	265
	Q Compressor	597	271	597	271	597	271	N/A	N/A	N/A	N/A
	R Compressor	747	339	747	339	747	339	N/A	N/A	N/A	N/A
Vaporizer and Oil Sump		825	375	825	375	825	375	825	375	825	375
Economizer		542	246	542	246	542	246	174	79	174	79

VFD (VARIABLE FREQUENCY DRIVE) WEIGHT TABLE

DRIVE TYPE	COMPRESSOR	VOLTAGE/Hz	AMPERAGE (A)	WEIGHT (lb)
Std. Tier	P	575/60	269	1200
	P/Q/R	480/60 & 380/400/415/50	230	998
			335 & 445	1200
LF2	Q/R	380-415 50/60	440	1400
		440-480 50/60	440	1500
		380-415 & 440-480 50/60	520 & 608	1800

23XRV CODE 30-57 HEAT EXCHANGER WEIGHTS

CODE	ENGLISH						SI					
	DRY RIGGING WEIGHT (lb)*		MACHINE CHARGE				DRY RIGGING WEIGHT (kg)*		MACHINE CHARGE			
	Evaporator Only	Condenser Only	Refrigerant Weight (lb)		Liquid Volume (Gal.)		Evaporator	Condenser Only	Refrigerant Weight (kg)		Liquid Volume (L)	
			With Economizer	Without Economizer	Evaporator	Condenser			With Economizer	Without Economizer	Evaporator	Condenser
30	4148	3617	800	650	56	56	1882	1641	363	295	212	212
31	4330	3818	800	650	64	65	1964	1732	363	295	242	246
32	4522	4023	800	650	72	74	2051	1825	363	295	273	280
35	4419	4529	910	760	61	61	2004	2054	413	345	231	231
36	4627	4758	910	760	70	72	2099	2158	413	345	265	273
37	4845	4992	910	760	80	83	2198	2264	413	345	303	314
40	5008	4962	900	750	103	110	2272	2251	408	340	390	416
41	5178	5155	900	750	111	119	2349	2338	408	340	420	451
42	5326	5347	900	750	119	129	2416	2425	408	340	450	488
4D	—	5347	900	750	—	129	—	2425	408	340	—	488
45	5463	5525	1015	865	112	120	2478	2506	460	392	424	454
46	5659	5747	1015	865	122	130	2567	2607	460	392	462	492
47	5830	5967	1015	865	130	141	2644	2707	460	392	492	534
4E	—	5967	1015	865	—	141	—	2707	460	392	—	534
50	5827	6013	1250	1100	132	147	2643	2727	567	499	500	557
51	6053	6206	1250	1100	143	156	2746	2815	567	499	541	591
52	6196	6387	1250	1100	150	165	2810	2897	567	499	568	625
55	6370	6708	1430	1280	144	160	2889	3043	649	581	545	606
56	6631	6930	1430	1280	156	171	3008	3143	649	581	591	647
57	6795	7138	1430	1280	164	181	3082	3238	649	581	621	685

* Rigging weights are for standard tubes of standard wall thickness (Turbo-B3 and Spikefin 2, 0.025-in. [0.635 mm] wall).

NOTES:

1. Evaporator includes the suction elbow and 1/2 the distribution piping weight.

2. Condenser includes float valve and sump, discharge stub-out, and 1/2 the distribution piping weight.
3. For special tubes refer to the 23XRV Computer Selection Program.
4. All weights for standard 2-pass NIH (nozzle-in-head) design with Victaulic grooves.