Carrier

Product Data

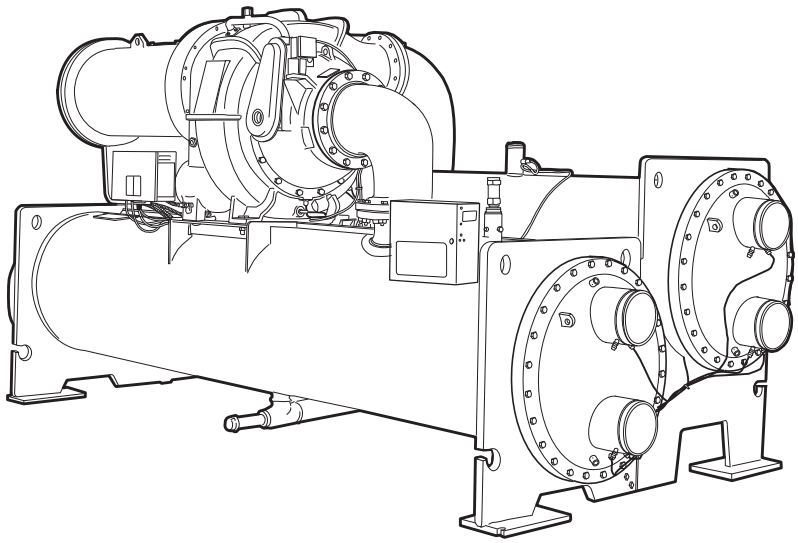
19XR,XRV High-Efficiency Hermetic Centrifugal Liquid Chiller 50/60 Hz HFC-134a

19XR — 200 to 1500 Nominal Tons (703 to 5275 kW)
19XRV — 200 to 1450 Nominal Tons (703 to 5100 kW)

Model #: 19XRV2222237BFS64
Serial #: 2306Q72869

Evergreen™ CHILLERS

2006
205 Tons



19XR,XRV

L: 12' 6"
W: 5' 7"
H: 7' 11"

Carrier's Evergreen® centrifugal chillers offer:

- The use of non-ozone depleting refrigerant HFC-134a, which is not affected by scheduled refrigerant phaseouts
- An annual leak rate of 0.1%, the lowest published in the industry
- The ability to store the entire charge of refrigerant inside the chiller, minimizing the chance of leaks during refrigerant transfer for maintenance
- Hermetic compression
- Refrigerant-cooled VFD (19XRV)
- Modular construction
- Positive pressure design

Features/Benefits

The Carrier-designed Evergreen family of chillers achieve superior efficiencies without compromising the environment.

The Evergreen chillers superior efficiencies are obtained at true operating conditions. Therefore, the effects of potential direct or indirect global warming are greatly diminished.

High efficiency

Today's owners of chilled water plants demand high efficiency from their chillers. Per ARI 550/590-2003, chillers operate at design conditions less than one percent of the time. As a result, superior part-load efficiency is required for today's chilled water applications.

Model number nomenclature

19XRV 22 22 237BF S 64

19XR 52 51 473 DG H 64 –

Description
19XR — High Efficiency Hermetic Centrifugal Liquid Chiller

19XRV — Ultra High Efficiency Variable Speed Hermetic Centrifugal Liquid Chiller

Cooler Size
10-12 (Frame 1 XR)
15-17 (Frame 1 XR)
20-22 (Frame 2 XR)
30-32 (Frame 3 XR)
35-37 (Frame 3 XR)
40-42 (Frame 4 XR)
45-47 (Frame 4 XR)
50-52 (Frame 5 XR)
5A-5C (Frame 5 XR)*
5F-5H (Frame 5XR)*
60-62 (Frame 6 XR)
65-67 (Frame 6 XR)
70-72 (Frame 7 XR)
75-77 (Frame 7 XR)
80-82 (Frame 8 XR)
85-87 (Frame 8 XR)

Condenser Size
10-12 (Frame 1 XR)
15-17 (Frame 1 XR)
20-22 (Frame 2 XR)
30-32 (Frame 3 XR)
35-37 (Frame 3 XR)
40-42 (Frame 4 XR)
45-47 (Frame 4 XR)
50-52 (Frame 5 XR)
55-57 (Frame 5 XR)
60-62 (Frame 6 XR)
65-67 (Frame 6 XR)
70-72 (Frame 7 XR)
75-77 (Frame 7 XR)
80-82 (Frame 8 XR)
85-87 (Frame 8 XR)

Compressor Code
(First Digit Indicates Compressor Frame Size)

Special Order Indicator
– — Standard
S — Special Order

Motor Voltage Code

Code	Volts-Phase-Hertz
60	200-3-60
61	230-3-60
62	380-3-60
63	416-3-60
64	460-3-60
65	575-3-60
66	2400-3-60
67	3300-3-60
68	4160-3-60
69	6900-3-60
50	230-3-50
51	346-3-50
52	400-3-50
53	3000-3-50
54	3300-3-50
55	6300-3-50

Motor Efficiency Code
H — High Efficiency
S — Standard Efficiency

Motor Code†

c UL us

U

ASME
'U' Stamp

ARI PERFORMANCE CERTIFIED

ARI Standard 550/590 WC

ARI (Air Conditioning and Refrigeration Institute) Performance Certified

*Refer to 19XR, 19XRV Computer Selection Program for details on these sizes.
†Refer to the 19XR, 19XRV Computer Selection Program for motor code details.

Dimensions

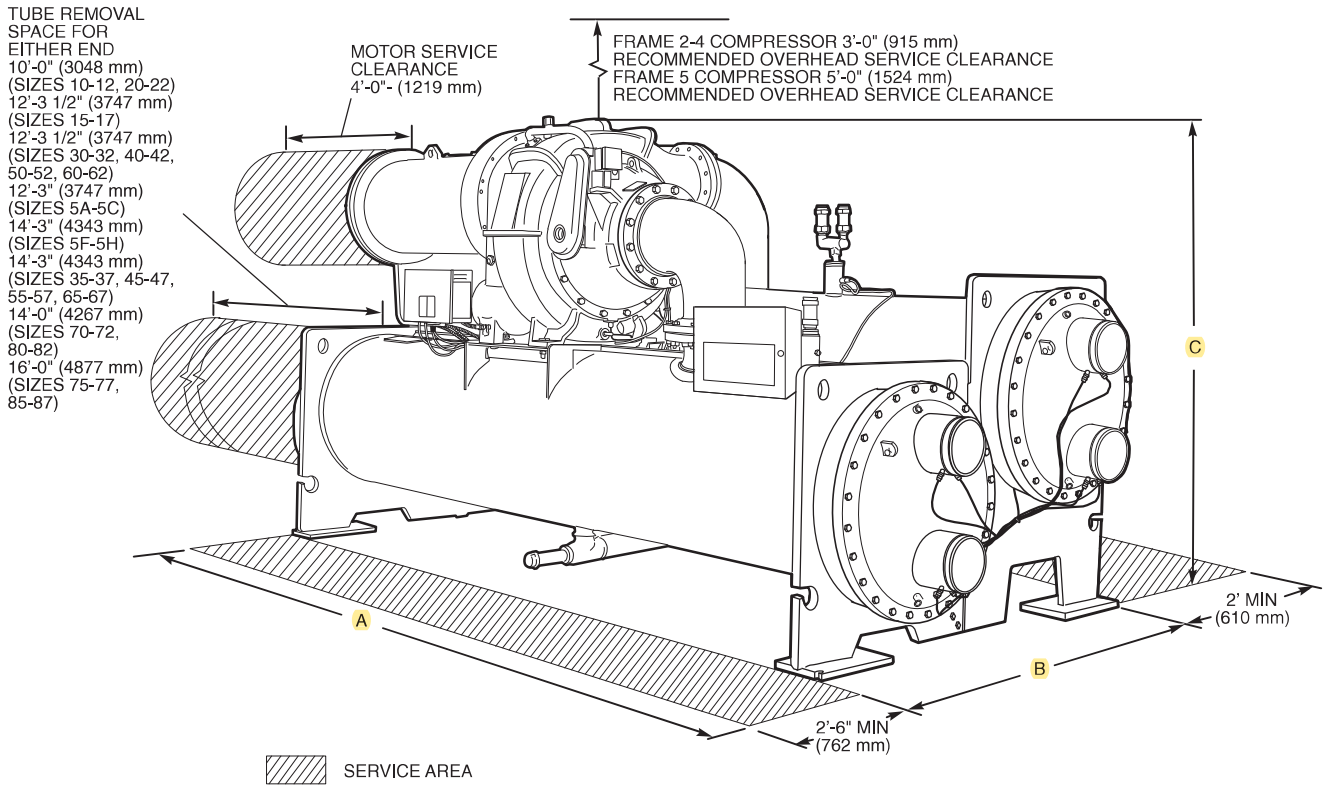
19XR DIMENSIONS (NOZZLE-IN-HEAD WATERBOX)

HEAT EXCHANGER SIZE	A (Length, with Nozzle-in-Head Waterbox)						19XR B (Width)		19XR C (Height)		19XRV B (Width)		19XRV C (Height)	
	1-Pass		2-Pass*		3-Pass									
	ft-in.	mm	ft-in.	mm	ft-in.	mm	ft-in.	mm	ft-in.	mm	ft-in.	mm	ft-in.	mm
10 to 12	11-11	3632	11-4	3454	11-11	3632	5- 2 7/8	1597	6- 1 1/4	1861	5-2 7/8	1597	7- 3	2210
15 to 17	14- 2 1/2	4331	13- 7 1/2	4153	14- 2 1/2	4331	5- 2 7/8	1597	6- 1 1/4	1861	5-2 7/8	1597	7- 3	2210
20 to 22	11-11 3/4	3651	11- 4 3/4	3473	11-11 3/4	3651	5- 6 7/16	1688	6- 3 1/4	1911	5-6 7/16	1688	7- 10 1/4	2394
30 to 32†	14- 3 1/4	4350	13- 8 1/4	4172	14- 3 1/4	4350	5- 7 3/16	1707	6- 9 5/8	2073	5-6 7/16	1688	7- 6 3/4	2305
30 to 32**	14- 3 1/4	4350	13- 8 1/4	4172	14- 3 1/4	4350	5- 7 3/16	1707	6- 9 5/8	2073	5-6 1/8	1680	7- 6 3/4	2305
35 to 37†	15-11 3/4	4870	15- 4 3/4	4693	15-11 3/4	4870	5- 7 3/16	1707	6- 9 5/8	2073	5-6 7/16	1688	7- 6 3/4	2305
35 to 37**	15-11 3/4	4870	15- 4 3/4	4693	15-11 3/4	4870	5- 7 3/16	1707	6- 9 5/8	2073	5-6 1/8	1680	7- 6 3/4	2305
40 to 42	14- 9	4496	14- 3 1/8	4347	14- 6	4420	6- 3 1/8	1908	7- 0 3/4	2153	6- 2	1880	7- 11	2413
45 to 47	16- 5 1/2	5017	15-11 5/8	4867	16- 2 1/2	4940	6- 3 1/8	1908	7- 0 3/4	2153	6- 2	1880	7- 11	2413
50 to 52**	14-10	4521	14- 4 1/2	4382	14- 6 1/2	4432	6- 8 7/8	2054	7- 2 3/8	2194	6- 6 1/2	1994	8- 6 3/4	2610
50 to 52††	14-10	4521	14- 4 1/2	4382	14- 6 1/2	4432	6- 8 7/8	2054	7- 2 3/8	2194	6- 7 7/8	2029	8- 6 3/4	2610
5A to 5C	14-10	4521	14- 4 1/2	4382	14- 6 1/2	4432	6- 8 7/8	2054	7- 2 3/8	2194	6- 8 7/8	2054	8- 6 3/4	2610
55 to 57**	16- 6 1/2	5042	16- 1	4902	16- 3	4953	6- 8 7/8	2054	7- 2 3/8	2194	6- 6 1/2	1994	8- 6 3/4	2610
55 to 57††	16- 6 1/2	5042	16- 1	4902	16- 3	4953	6- 8 7/8	2054	7- 2 3/8	2194	6- 7 7/8	2029	8- 6 3/4	2610
5F to 5H	16- 6 1/2	5042	16- 1	4902	16- 3	4953	6- 8 7/8	2054	7- 2 3/8	2194	6 - 8 7/8	2054	8- 6 3/4	2610
60 to 62	14-11	4547	14- 5 1/4	4400	14- 7	4445	6- 0 5/8	2124	7- 4 3/8	2245	6- 10 5/8	2124	8- 9 7/8	2689
65 to 67	16- 7 1/2	5067	16- 1 3/4	4921	16- 3 1/2	4966	6- 0 5/8	2124	7- 4 3/8	2245	6- 10 5/8	2124	8- 9 7/8	2689
70 to 72††	17- 0 1/2	5194	16-11	5156	16- 9 1/4	5112	7-11 1/2	2426	9- 9 1/2	2972	9- 1 3/8	2778	10	3048
70 to 72***	17- 0 1/2	5194	16-11	5156	16- 9 1/4	5112	7-11 1/2	2426	9- 9 1/2	2972	9- 3 5/8	2835	10	3048
75 to 77	19- 0 1/2	5804	18-11	5766	18- 9 1/4	5721	7-11 1/2	2426	9- 9 1/2	2972	9- 3 5/8	2835	10	3048
80 to 82	17- 3 1/2	5271	17- 0 1/2	5194	16- 9 1/2	5118	8-10 3/4	2711	9- 11 1/4	3029	10- 0 9/16	3063	10	3048
85 to 87	19- 3 1/2	5880	19- 0 1/2	5804	18- 9 1/2	5728	8-10 3/4	2711	9- 11 1/4	3029	10- 0 9/16	3063	10	3048

*Assumes both cooler and condenser nozzles on same end of chiller.
†Compressor frame size 2.
**Compressor frame size 3.
††Compressor frame size 4.
***Compressor frame size 5.

NOTES:
1. Service access should be provided per American Society of Heating, Refrigeration, and Air Conditioning Engineers (ASHRAE) 15, latest edition, National Fire Protection Association (NFPA) 70, and local safety code.
2. Allow at least 3 ft (915 mm) overhead clearance for service rigging for frame 2-4 compressor. Overhead clearance for service rigging frame 5 compressor should be 5 ft (1524 mm).
3. Dimensions are approximate. Certified drawings available upon request.
4. Marine waterboxes may add 6 in. to the width of the machine. See certified drawings for details.
5. 'A' length dimensions shown are for standard 150 psi design and victaulic connections. The 300 psi design and/or flanges will add length. See certified drawings.
6. 19XRV height — check certified drawings.
7. Not all waterbox/pass combinations are available with unit-mounted VFD. Check selection program and Drawing Manager for availability.

19XR DIMENSIONS



19XR DIMENSIONS (MARINE WATERBOX)

HEAT EXCHANGER SIZE	A (Length, Marine Waterbox)				19XR B WIDTH		19XRV B WIDTH	
	2-Pass*		1 or 3-Pass†					
	ft-in.	mm	ft-in.	mm	ft-in.	mm	ft-in.	mm
10 to 12	NA	NA	NA	NA	NA	NA	NA	NA
15 to 17	NA	NA	NA	NA	NA	NA	NA	NA
20 to 22	12- 5 1/2	3797	14- 1 1/4	4299	6- 1 1/16	1856	6- 1 1/16	1856
30 to 32	14- 9	4496	16- 4 3/4	4997	6- 1 1/16	1856	6- 1 1/16	1856
35 to 37	16- 5 1/2	5017	18- 1 1/4	5518	6- 1 1/16	1856	6- 1 1/16	1856
40 to 42	15- 2 3/4	4642	16- 8 1/4	5086	6- 3 1/4	1911	6- 3 1/4	1911
45 to 47	16-11 1/4	5163	18- 4 3/4	5607	6- 3 1/4	1911	6- 3 1/4	1911
50 to 52	15- 3 1/2	4661	16- 8 1/2	5093	6- 8 7/8	2054	6- 8 7/8	2054
5A to 5C	15- 3 1/2	4661	16- 8 1/2	5093	6- 8 7/8	2054	6- 8 7/8	2054
55 to 57	17- 0	5182	18- 5	5613	6- 8 7/8	2054	6- 8 7/8	2054
5F to 5H	17- 0	5182	18- 5	5613	6- 8 7/8	2054	6- 8 7/8	2054
60 to 62	15- 4 1/8	4677	16- 8 3/4	5099	6-11 3/4	2127	6- 11 3/4	2127
65 to 67	17- 0 5/8	5197	18- 5 1/4	5620	6-11 3/4	2127	6- 11 3/4	2127
70 to 72	17- 10 3/4	5455	19- 9 3/4	6039	8- 8 1/8	2645	9- 5 7/8	2778
70 to 72	17- 10 3/4	5455	19- 9 3/4	6039	8- 8 1/8	2645	9- 6 3/8	2905
75 to 77	19- 10 3/4	6188	21- 9 3/4	6648	8- 8 1/8	2645	9- 6 3/8	2905
80 to 82	18- 0 5/8	5502	19-10 1/2	6058	9- 6	2896	10- 5	3175
85 to 87	20- 0 5/8	6112	21-10 1/2	6668	9- 6	2896	10- 5	3175

*Assumes both cooler and condenser nozzles on same end of chiller.
†1 or 3-pass length applies if cooler is a 1 or 3-pass design.
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