

Solstice® R32 Series Cold Climate Air-to-Water Heat Pump (CC32)

FEATURES AND BENEFITS

- Heating, Cooling, and DHW offset
- High performance heating down to -22°F
- Reliable delivered water temperatures as high as 140°F
- Low GWP R32 Refrigerant, minimal volume
- Increased operational efficiencies and improved capacities with less overall refrigerant volume
- Available in 3 sizes
- Quietest unit on the market (41dB(a) @ 3 feet)
- Reliable Panasonic inverter driven EVI compressor
- Eco-conscious and future-proof monobloc design
- Ultimate flexibility, mount unit anywhere up to 600 feet away



* Product development and continuous improvement are at SpacePak's core. As such, there may be changes or modifications to products, without notice. In addition, the information and specifications presented in this document are provided as is, without guarantee or warranty of any kind, expressed or implied. For the most up-to-date information regarding our products, you may contact our Customer Service group at custservice@spacepak.com.



SPACE PAK®

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www.spacepak.com

PROJECT: _____ DATE: _____

LOCATION: _____

CUSTOMER: _____

ENGINEER: _____

SUBMITTED BY: _____

FOR: ☐ Reference ☐ Approval ☐ Construction

UNIT DESIGNATION: _____

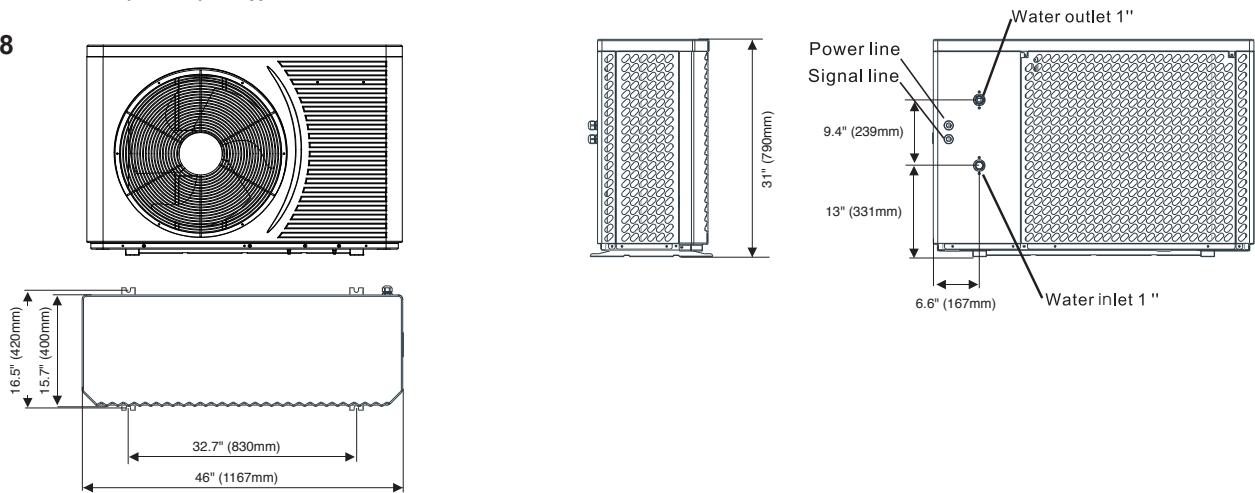
SCHEDULE NUMBER: _____

SUBMITTAL DATA: Heat Pump CC32

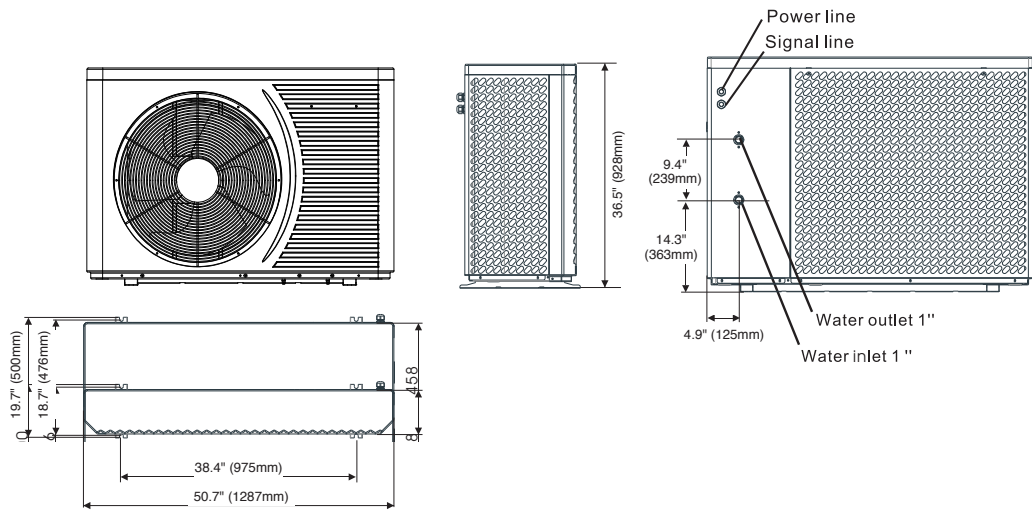
Dimensions

Unit Dimensions (inch (mm))

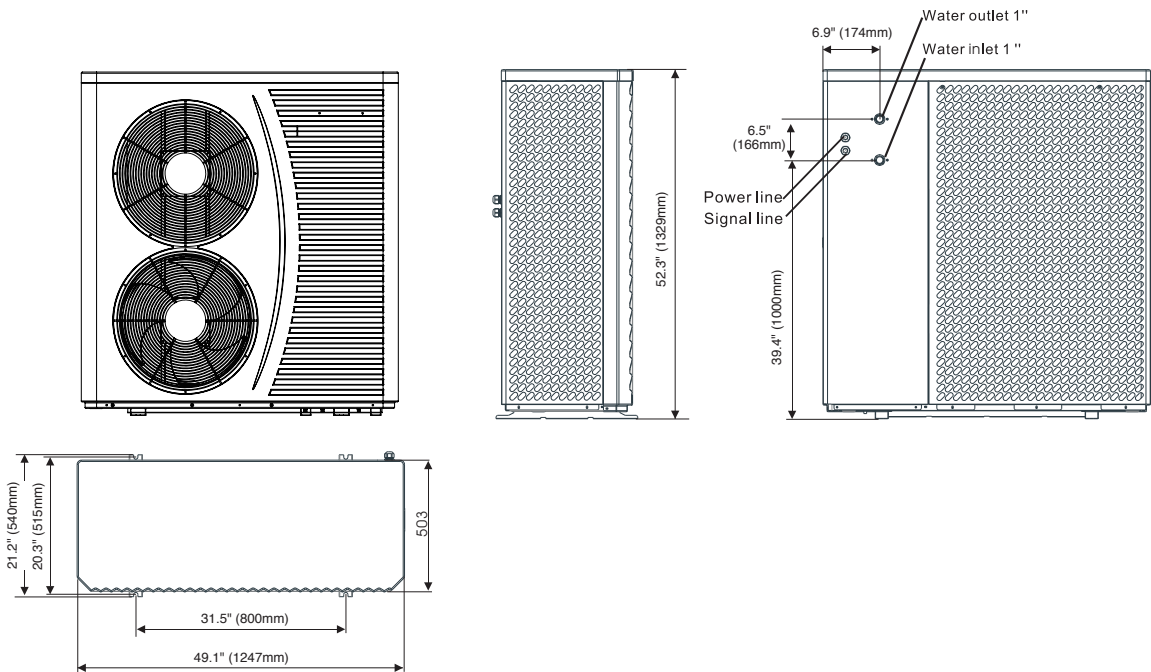
CC32-18



CC32-40



CC32-60



SUBMITTAL DATA: Heat Pump CC32

CC32 SPECIFICATIONS

		Units	CC32-18	CC32-40	CC32-60
Cooling	Capacity Range	BTU/hr (kW)	8,400 - 22,800 (2.5 - 6.7)	15,600 - 39,600 (4.6 - 11.6)	21,600 - 57,600 (6.3 - 16.9)
	Efficiency Range	EER	8.12 - 8.67	6.82 - 8.98	7.77 - 8.99
	Efficiency	IPLV	16.81	16.75	14.46
	Delivered Water Temp Range	°F (°C)	41 - 77 (5 - 25)		
	Ambient Temp Range	°F (°C)	50 - 109 (10 - 43)		
Heating	Capacity Range	BTU/hr (kW)	3,600 - 23,000 (1.1 - 6.7)	8,000 - 42,000 (2.3 - 12.3)	12,000 - 72,000 (3.5 - 21.1)
	Efficiency Range	COP	0.95 - 8.64	0.99 - 9.09	0.98 - 9
	Delivered Water Temp Range	°F (°C)	95-140		
	Ambient Temp Range	°F (°C)	-22 -110		
CEC Data	Cooling Capacity*	BTU/hr (kW)	17183 (5.0)	35120 (10.3)	52001 (15.2)
	Cooling Efficiency*	EER	10.43	9.9	8.85
	Heating Capacity**	BTU/hr (kW)	18919 (5.5)	35424 (10.4)	62760 (18.4)
	Heating Efficiency**	COP	3.07	2.9	3.13
	Heating Capacity***	BTU/hr (kW)	10189 (3.0)	26222 (7.7)	42700 (12.5)
	Heating Efficiency***	COP	1.52	2.23	2.06
Electrical	Power	V/Ph/Hz	208-230/1/60		
	Fan Motor	A	0.8		2 x 0.8
	Compressor Motor	A	12.2	21	33.5
	MCA	A	17	28	44
	MOPD	A	25	45	70
	SCCR	kA	5kA		
Refrigerant	Type		R32		
	Factory Charge	lbs. (kg)	2.43 (1.1)	3.97 (1.8)	4.41 (2)
Fan	Quantity		1	1	2
	Power Input	W	150	170	75 (x2)
	Type		DC		
	Max Speed	RPM	600		
Sound (@1meters)	Maximum	dBA	41	43	46
	Rated Flow	GPM	4.4	7.5	12.8
Hydronic	Max Water Temp	°F (°C)	140 (60)		
	Piping Connections	inch (cm)	1 (2.54)		
	Rated Pressure Drop	PSI (ft W.C.)	2.9 (6.7)	4.4 (10.2)	6.5 (15)
	Type		Rotary		
Compressor	Speed Range	Hz	30-90		
	Brand		Panasonic		
	Quantity		1		
Dimensions	Net Dimensions (L x W x H)	inch (cm)	46 x 16 x 32 (117 x 41 x 80)	51 x 18 x 37 (129 x 46 x 93)	50 x 22 x 53 (125 x 54 x 133)
	Shipping Dimensions (L x W x H)	inch (cm)	54 x 22 x 39 (138 x 56 x 100)	59 x 24 x 46 (150 x 61 x 117)	58 x 26 x 60 (148 x 67 x 153)
	Net Weight	lbs. (kg)	200 (90)	292 (132)	459 (208)
	Shipping Weight	lbs. (kg)	304 (138)	391 (178)	535 (243)

CEC is California Energy Commission. Data is tested in accordance with AHRI 550/590

*= 44°F LWT 54°F EWT @3.75 at CC32-18/6.17 at CC32-40/11.45 at CC32-60 GPM & 95°F DB Ambient

**= 120°F LWT 107°F EWT @4.4 at CC32-18/7.5 at CC32-40/12.8 at CC32-60 GPM & 47°F DB Ambient

***=120°F LWT 110°F EWT @4.4 at CC32-18/7.5 at CC32-40/12.8 at CC32-60 GPM &17°F DB Ambient

SUBMITTAL DATA: Heat Pump CC32

PERFORMANCE

CC32-18 HEATING

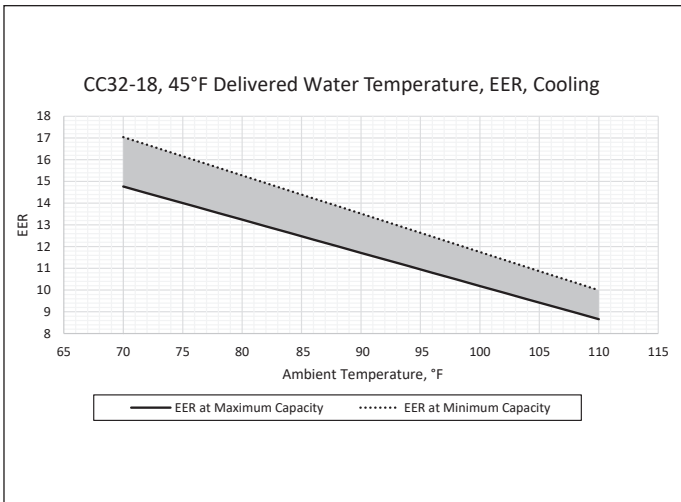
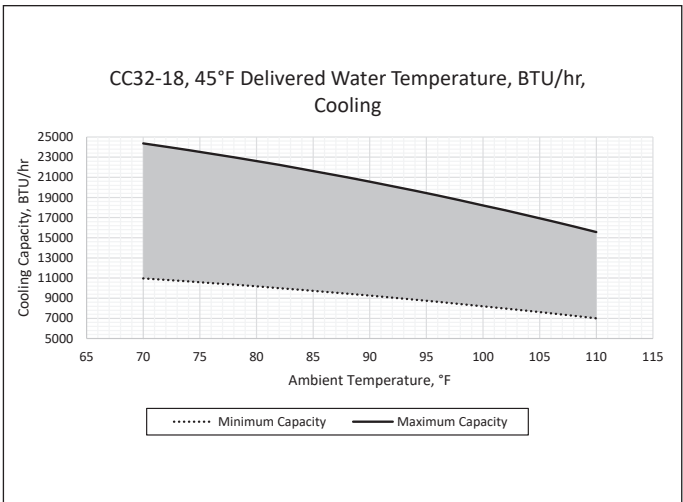
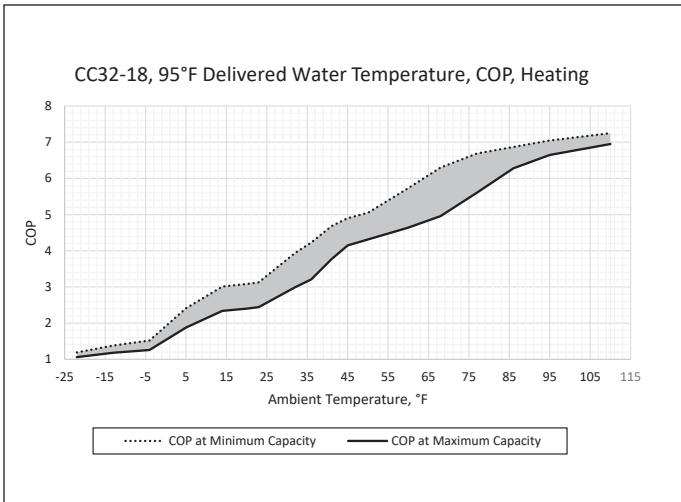
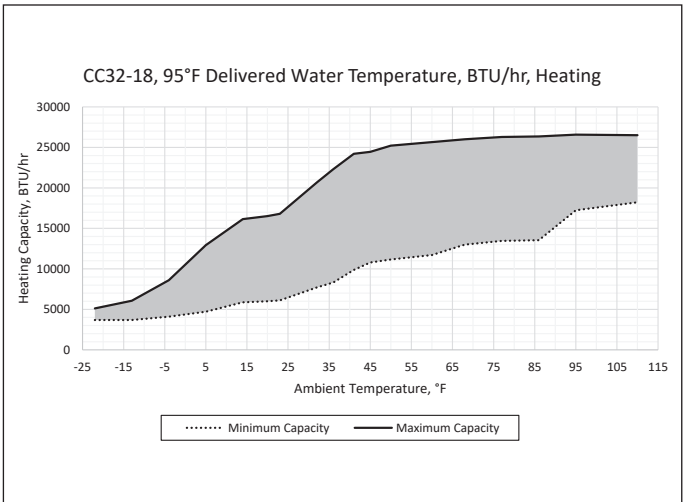
Heating Capacity (BTU/hr)									
Water Outlet (°F)	Ambient Temperature (°F)								
	-22	-4	5	32	45	50	60	68	77
95	3685 - 5118	4095 - 8599	4709 - 12932	7711 - 20678	10782 - 24450	11158 - 25205	11704 - 25655	13000 - 26010	13444 - 26288
105	2388 - 3344	3753 - 7916	4060 - 11192	7234 - 19347	9554 - 23025	9998 - 23685	11055 - 24255	13000 - 24500	13376 - 25010
113	2150 - 3003	3549 - 7438	3651 - 9998	6893 - 18460	8769 - 22827	9247 - 23255	10782 - 23855	12659 - 24025	12966 - 23855
120	/	2730 - 5767	3242 - 8974	6381 - 10637	8121 - 19927	8428 - 20643	9998 - 22998	11567 - 23850	12420 - 24255
131	/	2457 - 5186	2866 - 7916	5869 - 13819	7473 - 17197	8155 - 18801	9247 - 19825	10544 - 20905	11874 - 21255
140	/	1945 - 3856	2525 - 6551	5391 - 11840	6893 - 14740	7916 - 16450	8530 - 16924	9588 - 18400	11362 - 18855
COP									
Water Outlet (°F)	Ambient Temperature (°F)								
	-22	-4	5	32	45	50	60	68	77
95	1.06 - 1.19	1.26 - 1.52	1.88 - 2.41	2.99 - 3.94	4.15 - 4.9	4.31 - 5.05	4.64 - 5.73	4.96 - 6.3	5.61 - 6.69
105	1.02 - 1.15	1.15 - 1.38	1.47 - 1.89	2.57 - 3.39	3.31 - 4.47	3.54 - 4.79	4.02 - 5.16	4.49 - 5.91	5.04 - 6.32
113	1.01 - 1.14	1.09 - 1.31	1.20 - 1.54	2.29 - 3.02	2.75 - 3.72	2.93 - 3.97	3.56 - 4.57	4.18 - 5.50	4.66 - 5.84
120	/	1.03 - 1.24	1.14 - 1.46	1.89 - 2.44	2.40 - 3.18	2.59 - 3.43	3.07 - 3.87	3.55 - 4.58	4.00 - 4.93
131	/	1.04 - 1.25	1.07 - 1.37	1.48 - 1.88	2.04 - 2.66	2.25 - 2.92	2.58 - 3.20	2.91 - 3.69	3.35 - 4.06
140	/	0.95 - 1.13	1.01 - 1.27	1.37 - 1.71	1.69 - 2.15	1.90 - 2.42	2.10 - 2.55	2.28 - 2.83	2.69 - 3.21

CC32-18 COOLING

Capacity	Ambient Temperature (°F)								
Leaving Water Temperature (°F)	70	76	80	86	90	96	100	106	110
45	10964 - 24365	10508 - 23351	10177 - 22615	9639 - 21421	9254 - 20565	8636 - 19191	8197 - 18215	7497 - 16661	7004 - 15565
48	10847 - 24104	10308 - 22908	9915 - 22034	9274 - 20610	8813 - 19584	8069 - 17932	7539 - 16754	6693 - 14874	6095 - 13544
54	11037 - 24526	10707 - 23794	10453 - 23230	10020 - 22267	9697 - 21549	9160 - 20355	8767 - 19482	8126 - 18057	7664 - 17030
EER	Ambient Temperature (°F)								
Leaving Water Temperature (°F)	70	76	80	86	90	96	100	106	110
45	14.77 - 17.04	13.85 - 15.98	13.24 - 15.28	12.32 - 14.22	11.71 - 13.52	10.80 - 12.46	10.19 - 11.75	9.27 - 10.70	8.66 - 9.99
48	13.88 - 16.01	12.95 - 14.94	12.33 - 14.23	11.42 - 13.16	10.79 - 12.45	9.86 - 11.38	9.24 - 10.67	8.32 - 9.60	7.70 - 8.88
54	13.84 - 15.97	12.50 - 14.43	11.61 - 13.40	10.27 - 11.85	9.38 - 10.82	8.04 - 9.28	7.15 - 8.25	5.81 - 6.70	4.92 - 5.67

SUBMITTAL DATA: Heat Pump CC32

CC32-18 PERFORMANCE (all data based on pure water)



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SUBMITTAL DATA: Heat Pump CC32

PERFORMANCE

CC32-40 HEATING

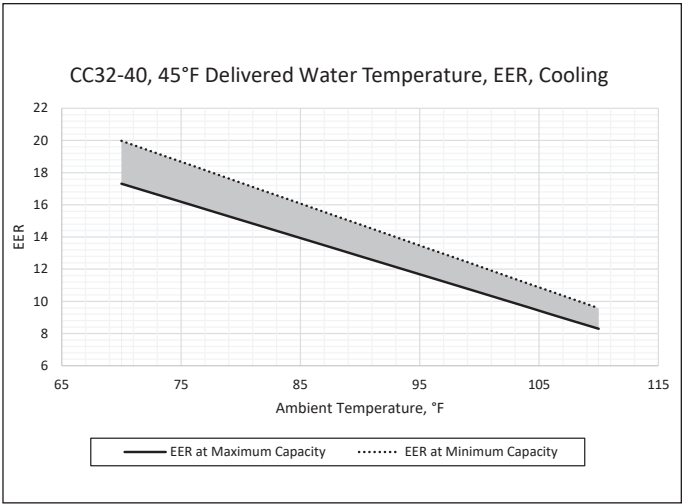
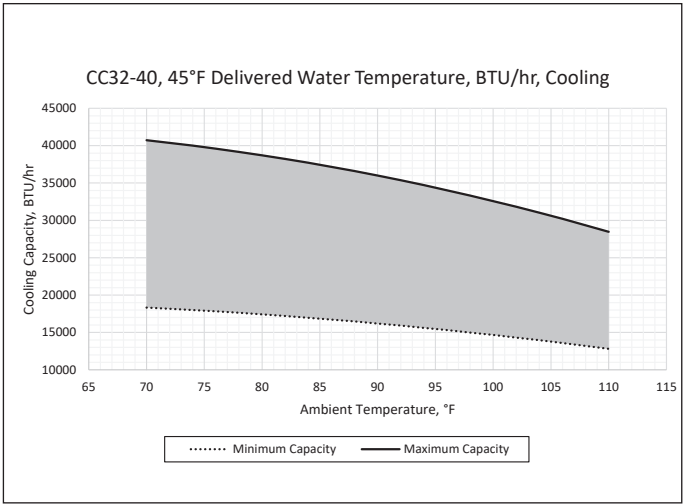
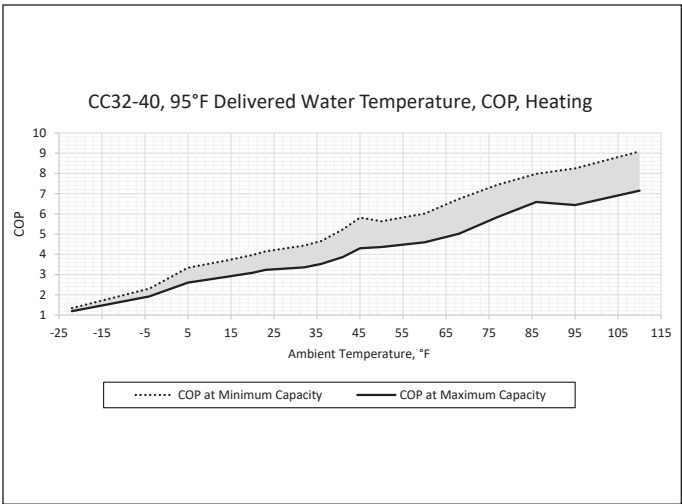
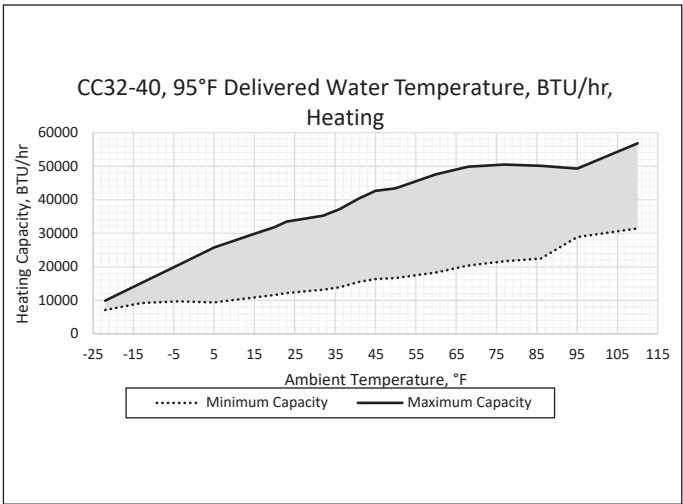
Heating Capacity (BTU/hr)									
Water Outlet (°F)	Ambient Temperature (°F)								
	-22	-4	5	32	45	50	60	68	77
95	7097 - 9895	9690 - 20439	9349 - 25728	13137 - 35213	16344 - 42652	16651 - 43402	18255 - 47599	20370 - 49850	21667 - 50500
105	4641 - 6483	9247 - 19517	9554 - 26273	12898 - 34565	16003 - 41765	16583 - 43266	18118 - 44460	20268 - 46025	21633 - 46250
113	3003 - 4436	8974 - 18903	9690 - 26649	12761 - 34121	15798 - 41219	16549 - 43198	18118 - 44528	20336 - 44885	21735 - 45025
120	/	7541 - 15901	8121 - 22350	11738 - 29515	15286 - 27534	16242 - 39922	17948 - 41253	20234 - 42225	21599 - 42325
131	/	6108 - 12898	6551 - 18016	10714 - 25250	14775 - 34019	15935 - 36681	17743 - 38011	20098 - 39825	21462 - 39965
140	/	5459 - 10748	5255 - 13580	9793 - 22450	14297 - 30607	15662 - 33541	17538 - 34770	19995 - 35055	21326 - 35150
COP									
Water Outlet (°F)	Ambient Temperature (°F)								
	-22	-4	5	32	45	50	60	68	77
95	1.19 - 1.34	1.92 - 2.31	2.60 - 3.34	3.36 - 4.43	4.30 - 5.82	5.64 - 4.36	4.60 - 6.01	5.02 - 6.74	5.84 - 7.44
105	1.06 - 1.19	1.61 - 1.94	2.37 - 3.03	2.88 - 3.79	3.61 - 4.88	3.65 - 4.93	4.05 - 5.20	4.46 - 5.87	5.07 - 6.36
113	1.03 - 1.10	1.41 - 1.69	2.21 - 2.83	2.56 - 3.37	3.29 - 4.45	3.30 - 4.47	3.69 - 4.74	4.09 - 5.37	4.44 - 5.45
120	/	1.24 - 1.49	1.76 - 2.25	2.18 - 2.82	2.84 - 3.76	2.93 - 3.88	3.27 - 4.12	3.62 - 4.45	3.88 - 4.68
131	/	1.07 - 1.29	1.30 - 1.67	1.81 - 2.29	2.38 - 3.09	2.56 - 3.32	2.85 - 3.52	3.01 - 3.61	3.20 - 3.82
140	/	1.02 - 1.21	1.08 - 1.36	1.49 - 1.86	2.00 - 2.55	2.23 - 2.84	2.48 - 3.02	2.74 - 3.40	2.95 - 3.51

CC32-40 COOLING

Capacity	Ambient Temperature (°F)								
Leaving Water Temperature (°F)	70	76	80	86	90	96	100	106	110
45	18328 - 40729	17820 - 39601	17419 - 38710	16724 - 37164	16197 - 35994	15313 - 34030	14661 - 32581	13589 - 30199	12812 - 28471
48	19748 - 43884	19135 - 42522	18647 - 41437	17795 - 39545	17148 - 38107	16059 - 35686	15253 - 33895	13925 - 30944	12960 - 28801
54	20500 - 45556	19693 - 43763	19060 - 42356	17967 - 39927	17143 - 38097	15765 - 35033	14750 - 32778	13085 - 29078	11880 - 26400
EER	Ambient Temperature (°F)								
Leaving Water Temperature (°F)	70	76	80	86	90	96	100	106	110
45	17.31 - 19.98	15.96 - 18.42	15.06 - 17.38	13.71 - 15.82	12.81 - 14.78	11.45 - 13.22	10.55 - 12.18	9.20 - 10.61	8.30 - 9.57
48	15.91 - 18.36	14.68 - 16.93	13.85 - 15.98	12.62 - 14.56	11.79 - 13.61	10.56 - 12.18	9.73 - 11.23	8.50 - 9.80	7.67 - 8.85
54	13.77 - 15.89	12.70 - 14.66	11.99 - 13.83	10.92 - 12.60	10.21 - 11.78	9.14 - 10.54	8.42 - 9.72	7.35 - 8.48	6.64 - 7.66

SUBMITTAL DATA: Heat Pump CC32

CC32-40 PERFORMANCE (all data based on pure water)



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SUBMITTAL DATA: Heat Pump CC32

PERFORMANCE

CC32-60 HEATING

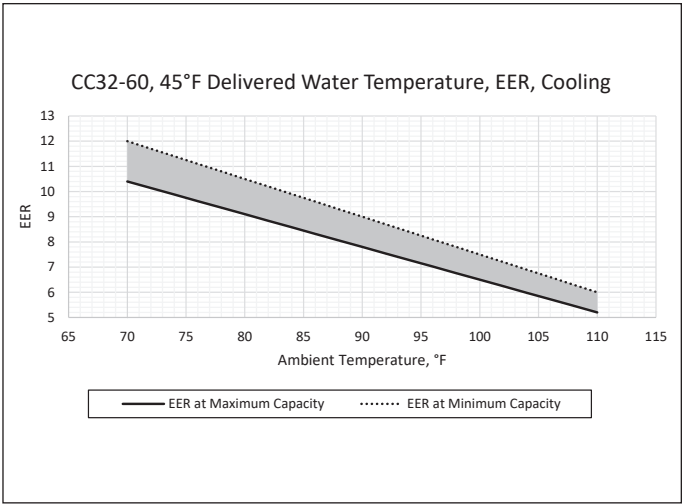
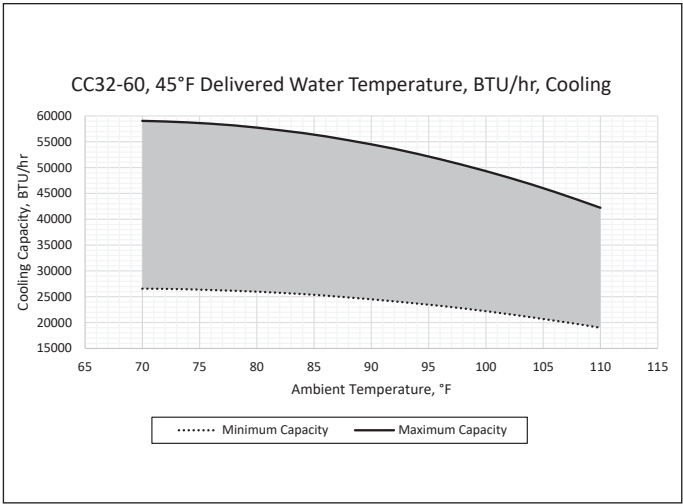
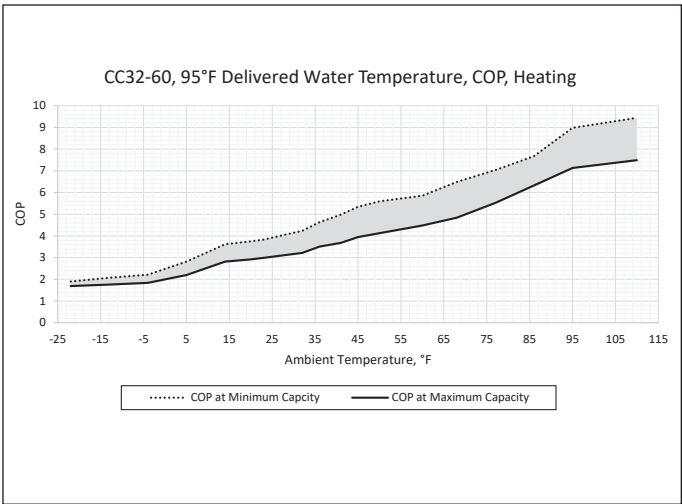
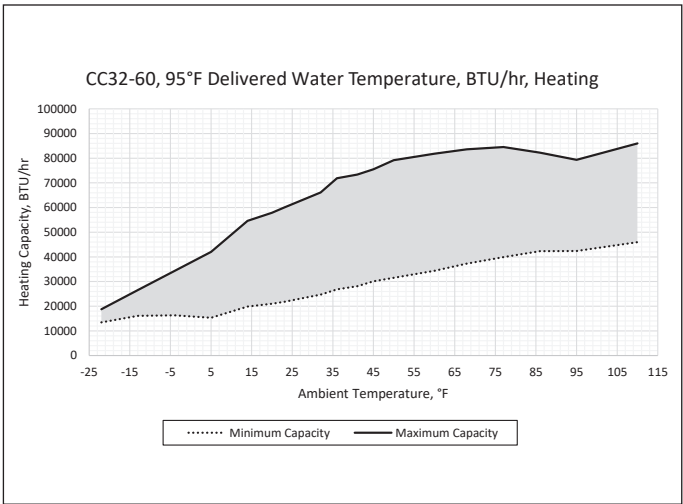
Heating Capacity (BTU/hr)									
Water Outlet (°F)	Ambient Temperature (°F)								
	-22	-4	5	32	45	50	60	68	77
95	13444 - 18767	16276 - 34258	15286 - 42038	24670 - 66093	30095 - 75492	31494 - 79209	34360 - 81796	37261 - 83610	39888 - 84536
105	11431 - 15935	16071 - 33883	15559 - 42822	24260 - 64967	28218 - 73600	29413 - 76773	32518 - 79912	35725 - 82002	37841 - 84528
113	10066 - 14058	15935 - 33610	15286 - 42038	22350 - 59849	27024 - 70461	28116 - 73361	32040 - 76495	35316 - 77507	34156 - 76841
120	/	13546 - 28560	13341 - 36681	20541 - 51694	25386 - 62374	26342 - 64694	31904 - 68203	36646 - 68995	32791 - 68823
131	/	11158 - 23544	12045 - 33132	19654 - 46269	24602 - 56642	26035 - 59883	30470 - 62799	33678 - 64399	28833 - 56027
140	/	9179 - 18118	11089 - 28662	18903 - 41389	23987 - 51421	26751 - 57290	29276 - 58041	31255 - 60770	33268 - 59405
COP									
Water Outlet (°F)	Ambient Temperature (°F)								
	-22	-4	5	32	45	50	60	68	77
95	1.69 - 1.90	1.84 - 2.21	2.20 - 2.82	3.22 - 4.24	3.95 - 5.34	4.13 - 5.59	4.48 - 5.85	4.84 - 6.49	5.52 - 7.04
105	1.54 - 1.73	1.67 - 2.01	2.00 - 2.56	2.88 - 3.80	3.39 - 4.59	3.53 - 4.78	4.02 - 5.16	4.53 - 5.96	5.08 - 6.36
113	1.44 - 1.62	1.56 - 1.88	1.87 - 2.39	2.66 - 3.50	3.15 - 4.27	3.28 - 4.44	3.80 - 4.88	4.42 - 5.81	4.89 - 6.13
120	/	1.30 - 1.57	1.63 - 2.09	2.30 - 2.97	2.77 - 3.67	2.87 - 3.81	3.26 - 4.11	3.65 - 4.71	4.04 - 4.99
131	/	1.13 - 1.36	1.47 - 1.89	2.05 - 2.61	2.51 - 3.27	2.66 - 3.45	2.90 - 3.59	3.14 - 3.97	3.48 - 4.22
140	/	0.98 - 1.17	1.27 - 1.60	1.84 - 2.29	2.28 - 2.91	2.54 - 3.24	2.58 - 3.14	2.70 - 3.35	3.00 - 3.57

CC32-60 COOLING

Capacity	Ambient Temperature (°F)								
Leaving Water Temperature (°F)	70	76	80	86	90	96	100	106	110
45	26572 - 59048	26324 - 58497	25984 - 57743	25214 - 56032	24527 - 54504	23235 - 51632	22199 - 49331	20384 - 45299	19001 - 42224
48	27405 - 60899	27386 - 60858	27157 - 60349	26488 - 58863	25826 - 57391	24507 - 54460	23411 - 52025	21442 - 47650	19913 - 44251
54	28109 - 62465	28155 - 62567	27963 - 62140	27341 - 60757	26703 - 59341	25413 - 56474	24331 - 54068	22373 - 49717	20844 - 46321
EER	Ambient Temperature (°F)								
Leaving Water Temperature (°F)	70	76	80	86	90	96	100	106	110
45	10.40 - 12.00	9.62 - 11.10	9.10 - 10.50	8.32 - 9.60	7.80 - 9.00	7.02 - 8.10	6.50 - 7.50	5.72 - 6.60	5.20 - 6.00
48	11.40 - 13.15	10.62 - 12.25	10.10 - 11.65	9.32 - 10.75	8.80 - 10.15	8.02 - 9.25	7.50 - 8.65	6.72 - 7.75	6.20 - 7.15
54	12.40 - 14.31	11.62 - 13.41	11.10 - 12.81	10.32 - 11.91	9.80 - 11.31	9.02 - 10.41	8.50 - 9.81	7.72 - 8.91	7.20 - 8.31

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CC32-60 PERFORMANCE (all data based on pure water)



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