

Outdoor Unit Specifications

Up to 17 SEER2 / 8.5 HSPF2

R-410A Variable Speed

Heat Pump

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Standard Features

1. Comfort. InverterCool Smart Variable Speed (SVS) heat pump outputs flexible capacity from 25%-110% to achieve your desired temperature – no more, no less.
2. Quiet. Compressors are equipped with sound blanket.
3. Universal match. SVS heat pumps are compatible with most traditional indoor air handlers / furnaces and 24VAC controlled thermostats.
4. Refrigerant AUTO charge assistant. SVS insures accurate refrigerant charge for every indoor coils match-up.
5. Load learning. Load forecasting technology helps to save energy.
6. Back-up running. Continuous operation with maximum 2 failed sensors.

InverterCool Fault Detection and Diagnostics Features

1. 24x7 monitoring service (Up to 2 months history data on InverterCool FDD App).
2. Diagnostic and alerts service.
3. InverterCool FDD App reminds dealers and homeowners of valuable service such as refrigerant leakage/shortage and home inefficiency etc.



1. Nomenclature

Outdoor Unit	C	O	H	16	S	-	60	A	A	A
	1	2	3	4	5		6	7	8	9
Brand	C: InverterCool									
Product	O: Outdoor Condensing Units									
Type	H: Heat Pump		C: Air conditioner							
SEER	16: 16SEER									
Voltage	S: 208/230V-1Ph-60Hz (single phase)									
Capacity	36: up to 3Ton					60: up to 5Ton				
Series	A, B, C etc.									
Refrigerant	A: R410A		B: R454B							
Revisions	A, B, C etc.									

Indoor Unit	C	V	T	A	N	-	36	A	A
	1	2	3	4	5		6	7	8
Brand	C: InverterCool								
Product	V: Vertical Air Handler								
Expansion Device	T: TXV E: EEV								
Refrigerant	A: R410A B: R454B								
Voltage	N: 208/230V, 1Ph, 60Hz S: 115V, 1Ph, 60Hz								
Capacity	24: 2Ton 36: 3Ton 48: 4Ton 60: 5Ton								
Series	A, B, C etc.								
Revisions	A, B, C etc.								

2. Dimensions

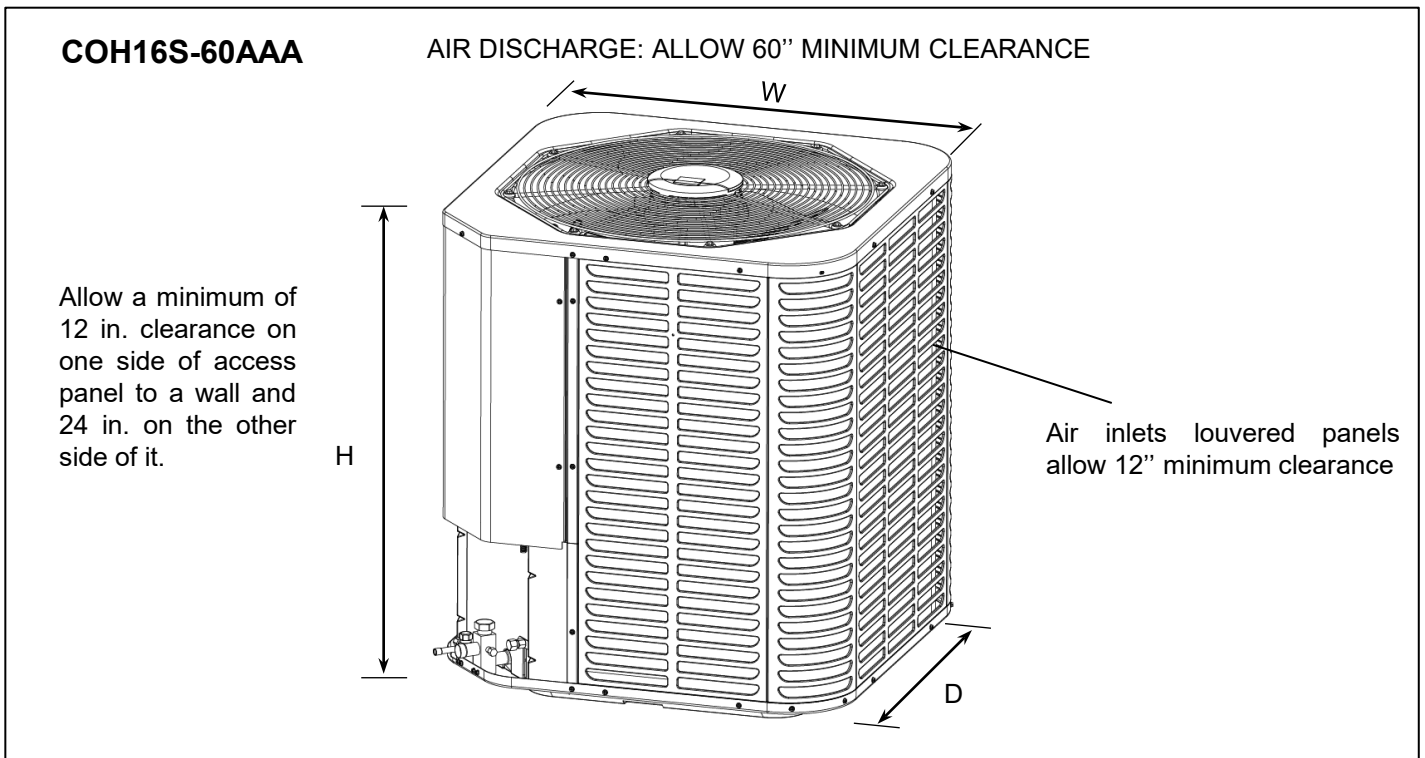
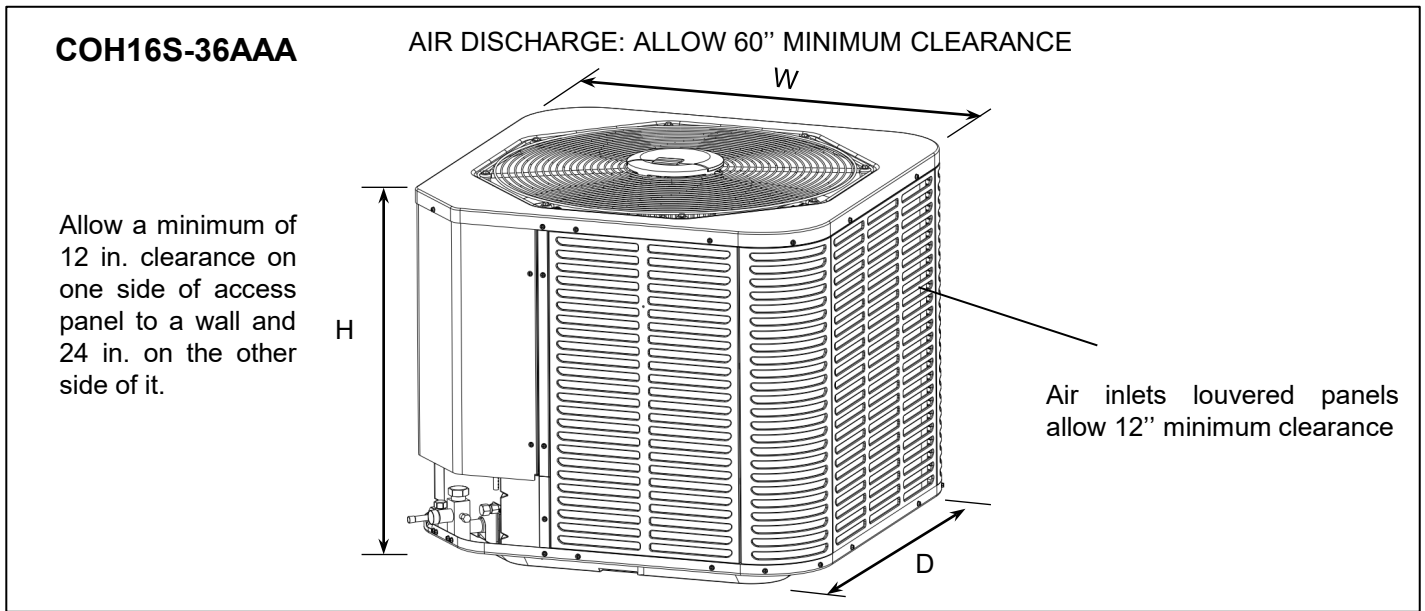


Fig 1. Condensing unit dimensions

Model	Dimensions (In. [mm])		
	H	W	D
36K	24-15/16 [633]	29-1/8 [740]	29-1/8 [740]
60K	33-3/16 [843]	29-1/8 [740]	29-1/8 [740]

SVS outdoor unit (36K and 60K) share the same chassis part.

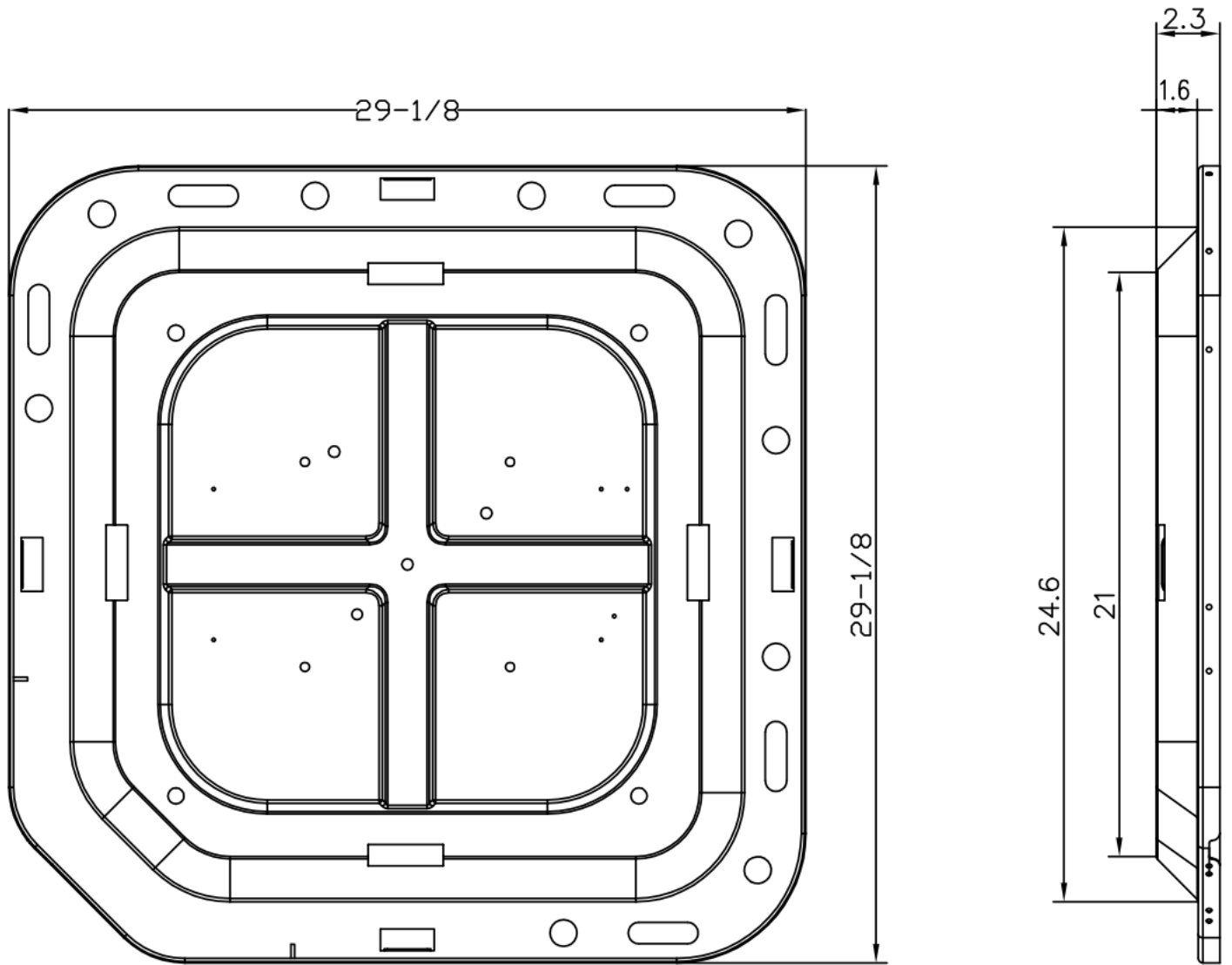


Fig 2. Chassis dimensions

3. Product Specifications

SVS Standard Combination	2Ton	3Ton	4Ton	5Ton
Outdoor Unit Model	COH16S-36AAA	COH16S-36AAA	COH16S-60AAA	COH16S-60AAA
Indoor Unit Model	CVTAN-24AA	CVTAN-36AA	CVTAN-48AA	CVTAN-60AA
Capacity ¹				
Cooling (BTU/h)	23600	34200	45000	54000
Heating (BTU/h)	24000	35000	46000	54000
Operation Range ²				
Cooling operation range	40~120°F	40~120°F	40~120°F	40~120°F
Heating operation range	-3~86°F	-3~86°F	-3~86°F	-3~86°F
Compressor				
RLA	17.5	17.5	24.0	24.0
LRA	45	45	58.1	58.1
Condenser Fan Motor				
Horse power (HP)	1/3	1/3	1/3	1/3
FLA	2.5	2.5	2.5	2.5
Refrigeration System				
Refrigerant Line Size				
Liquid Line Size ("O.D.)	3/8"	3/8"	3/8"	3/8"
Suction Line Size ("O.D.)	3/4"	3/4"	7/8"	7/8"
Refrigerant Connection Size				
Liquid Line Size ("O.D.)	3/8"	3/8"	3/8"	3/8"
Suction Line Size ("O.D.)	3/4"	3/4"	7/8"	7/8"
Cooling Metering Device (Indoor Side)	TXV	TXV	TXV	TXV
Heating Metering Device	EEV	EEV	EEV	EEV
Maximum Line Length	100FT	100FT	100FT	100FT
Maximum Elevation Difference	50FT	50FT	50FT	50FT
Charging Specifications				
Superheat at Service Valve	12°F (±2°F)	12°F (±2°F)	10°F (±2°F)	10°F (±2°F)
Sub-cooling at Service Valve	8°F (±2°F)	10°F (±2°F)	8°F (±2°F)	8°F (±2°F)
Electrical Data				
Voltage-Phase-Hz	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
Minimum Circuit Ampacity ³	24.4	24.4	32.5	32.5
Max. Over-current Protection ⁴	40	40	50	50
Allowed Volts Range	187~253	187~253	187~253	187~253
Condenser Decibels (dB) ⁵	63/59/56	66/63/60	70/64/61	72/66/62
Equipment Weight (lbs.)	150	150	190	190
Ship Weight (lbs.) ⁶	179	179	220	220

REMARKS:

1. Tested and rated in accordance with AHRI Standard 210/240-2017.
2. It's not recommended to run cooling when the ambient temperature is below 50°F, the heating operating range can lower down to -22°F by field setting (n01).
3. Wire size should be determined in accordance with National Electrical Codes.
4. Must use time-delay fuses or HACR-type circuit breakers of the same size as noted.
5. It may vary based on the actual installation status.
6. Weight shown includes packaging.

SVS Ultra Heat* Combination	2Ton	3Ton
Outdoor Unit Model	COH16S-36AAA	COH16S-60AAA
Indoor Unit Model	CVTAN-24AA	CVTAN-36AA
Capacity¹		
Cooling (BTU/h)	23600	35000
Heating (BTU/h)	24000	35400
Operation Range²		
Cooling operation range	40~120°F	40~120°F
Heating operation range	-3~86°F	-3~86°F
Compressor		
RLA	17.5	24.0
LRA	45	58.1
Condenser Fan Motor		
Horsepower (HP)	1/3	1/3
FLA	2.5	2.5
Refrigeration System		
Refrigerant Line Size		
Liquid Line Size ("O.D.)	3/8"	3/8"
Suction Line Size ("O.D.)	3/4"	7/8"
Refrigerant Connection Size		
Liquid Line Size ("O.D.)	3/8"	3/8"
Suction Line Size ("O.D.)	3/4"	7/8"
Cooling Metering Device (Indoor Side)	TXV	TXV
Heating Metering Device	EEV	EEV
Maximum Line Length	100FT	100FT
Maximum Elevation Difference	50FT	50FT
Charging Specifications		
Superheat at Service Valve	12°F (±2°F)	12°F (±2°F)
Sub-cooling at Service Valve	8°F (±2°F)	8°F (±2°F)
Electrical Data		
Voltage-Phase-Hz	208/230-1-60	208/230-1-60
Minimum Circuit Ampacity ³	24.4	32.5
Max. Over-current Protection ⁴	40	50
Allowed Volts Range	187~253	187~253
Condenser Decibels (dB)⁵	63/59/56	72/66/62
Equipment Weight (lbs.)	150	190
Ship Weight (lbs.)⁶	179	220

REMARKS:

*Ultra Heat combinations can meet below requirements:

- HSPF (AHRI Climate Region Zone IV) ≥ 10
 - COP of ≥ 1.8 at -15° C (5° F) (at maximum capacity operation)
 - Capacity Maintenance (Max -15° C (5° F)/Rated 8.3° C (47° F)) ≥ 70%
1. Tested and rated in accordance with AHRI Standard 210/240-2017.
 2. It's not recommended to run cooling when the ambient temperature is below 50°F, the heating operating range can lower down to -22°F by field setting (n01).
 3. Wire size should be determined in accordance with National Electrical Codes.
 4. Must use time-delay fuses or HACR-type circuit breakers of the same size as noted.
 5. It may vary based on the actual installation status.
 6. Weight shown includes packaging.

4. Performance Data

COOLING-STANDARD & ULTRA HEAT 2TON

Standard & Ultra Heat 2Ton System - COH16S-36AAA + CVTAN-24AA																			
Indoor Airflow (SCFM)	Outdoor DB (°F)	IWB (°F)	IDB (°F)	59				63				67				71			
				70	75	80	85	70	75	80	85	70	75	80	85	70	75	80	85
650	65	TC	17.0	17.1	17.2	17.3	20.2	20.3	20.4	20.5	23.3	23.5	23.6	23.7	-	26.6	26.8	26.9	
		S/T	0.65	0.81	0.89	0.92	0.53	0.66	0.78	0.87	0.41	0.54	0.66	0.77	-	0.43	0.55	0.66	
		kW	0.82	0.83	0.83	0.84	1.01	1.02	1.03	1.04	1.22	1.23	1.24	1.25	-	1.45	1.46	1.47	
	75	TC	16.6	16.7	16.8	16.9	19.7	19.8	19.9	20.0	22.7	22.9	23.0	23.1	-	25.9	26.1	26.2	
		S/T	0.67	0.83	0.91	0.92	0.54	0.68	0.80	0.89	0.42	0.56	0.68	0.79	-	0.44	0.57	0.68	
		kW	0.92	0.93	0.93	0.94	1.14	1.14	1.15	1.16	1.37	1.38	1.39	1.40	-	1.62	1.64	1.65	
	85	TC	16.1	16.2	16.3	16.4	19.1	19.2	19.4	19.5	22.1	22.3	22.4	22.5	-	25.3	25.4	25.5	
		S/T	0.69	0.85	0.92	0.92	0.56	0.70	0.82	0.92	0.43	0.57	0.70	0.81	-	0.45	0.58	0.70	
		kW	1.04	1.04	1.05	1.06	1.28	1.28	1.29	1.30	1.53	1.54	1.55	1.57	-	1.82	1.83	1.85	
	95	TC	15.7	15.8	15.9	16.0	18.6	18.7	18.8	18.9	21.5	21.7	21.8	21.9	-	24.6	24.7	24.9	
		S/T	0.71	0.87	0.92	0.92	0.57	0.72	0.84	0.92	0.44	0.59	0.72	0.83	-	0.47	0.60	0.72	
		kW	1.16	1.17	1.18	1.19	1.43	1.44	1.45	1.46	1.72	1.73	1.74	1.75	-	2.04	2.05	2.07	
	105	TC	15.3	15.4	15.4	15.5	18.1	18.2	18.3	18.4	20.9	21.1	21.2	21.3	-	23.9	24.0	24.2	
		S/T	0.73	0.90	0.92	0.92	0.59	0.74	0.86	0.92	0.46	0.61	0.74	0.86	-	0.48	0.62	0.74	
		kW	1.30	1.31	1.32	1.33	1.60	1.61	1.62	1.63	1.91	1.93	1.89	1.96	-	2.27	2.29	2.30	
	115	TC	14.8	14.9	15.0	15.1	17.6	17.7	17.8	17.9	20.3	20.5	20.6	20.7	-	23.1	23.2	23.4	
		S/T	0.75	0.92	0.92	0.92	0.61	0.76	0.89	0.92	0.47	0.62	0.76	0.88	-	0.49	0.64	0.76	
		kW	1.45	1.46	1.47	1.48	1.77	1.79	1.80	1.81	2.12	2.14	2.10	2.17	-	2.50	2.52	2.54	
750	65	TC	17.8	17.9	18.0	18.1	21.1	21.2	21.3	21.4	24.4	24.5	24.6	24.8	-	27.8	28.0	28.1	
		S/T	0.68	0.84	0.93	0.96	0.55	0.69	0.81	0.91	0.43	0.57	0.69	0.80	-	0.45	0.58	0.69	
		kW	0.85	0.86	0.87	0.87	1.06	1.06	1.07	1.08	1.27	1.28	1.29	1.30	-	1.52	1.53	1.54	
	75	TC	17.3	17.4	17.5	17.6	20.5	20.6	20.8	20.9	23.7	23.9	24.0	24.1	-	27.1	27.2	27.4	
		S/T	0.70	0.86	0.95	0.96	0.57	0.71	0.83	0.93	0.44	0.58	0.71	0.82	-	0.46	0.59	0.71	
		kW	0.96	0.96	0.97	0.98	1.18	1.19	1.20	1.21	1.42	1.43	1.44	1.45	-	1.69	1.71	1.72	
	85	TC	16.9	17.0	17.0	17.1	20.0	20.1	20.2	20.3	23.1	23.2	23.4	23.5	-	26.4	26.5	26.7	
		S/T	0.72	0.89	0.96	0.96	0.58	0.73	0.85	0.96	0.45	0.60	0.73	0.84	-	0.47	0.61	0.73	
		kW	1.08	1.08	1.09	1.10	1.33	1.34	1.35	1.35	1.60	1.61	1.62	1.63	-	1.90	1.91	1.93	
	95	TC	16.4	16.5	16.6	16.7	19.4	19.5	19.7	19.8	22.5	22.6	22.7	22.9	-	25.7	25.8	25.9	
		S/T	0.74	0.91	0.96	0.96	0.60	0.75	0.88	0.96	0.46	0.61	0.75	0.87	-	0.49	0.63	0.75	
		kW	1.21	1.22	1.22	1.23	1.49	1.50	1.51	1.52	1.79	1.80	1.81	1.83	-	2.12	2.14	2.15	
	105	TC	15.9	16.0	16.1	16.2	18.9	19.0	19.1	19.2	21.9	22.0	22.1	22.2	-	24.9	25.1	25.2	
		S/T	0.76	0.94	0.96	0.96	0.61	0.77	0.90	0.96	0.48	0.63	0.77	0.89	-	0.50	0.64	0.77	
		kW	1.35	1.36	1.37	1.38	1.66	1.67	1.68	1.69	1.99	2.01	2.02	2.04	-	2.37	2.38	2.40	
	115	TC	15.5	15.6	15.7	15.8	18.4	18.5	18.6	18.7	21.2	21.3	21.5	21.6	-	24.1	24.2	24.4	
		S/T	0.78	0.96	0.96	0.96	0.63	0.79	0.93	0.96	0.49	0.65	0.80	0.92	-	0.52	0.66	0.79	
		kW	1.50	1.51	1.52	1.53	1.84	1.86	1.87	1.88	2.21	2.23	2.24	2.26	-	2.60	2.62	2.64	
850	65	TC	18.4	18.6	18.7	18.8	21.9	22.0	22.1	22.2	25.3	25.4	25.6	25.7	-	28.9	29.0	29.2	
		S/T	0.71	0.87	0.96	1.00	0.57	0.72	0.84	0.94	0.44	0.59	0.72	0.83	-	0.47	0.60	0.72	
		kW	0.88	0.89	0.90	0.90	1.09	1.10	1.11	1.12	1.32	1.33	1.34	1.35	-	1.57	1.59	1.60	
	75	TC	18.0	18.1	18.2	18.3	21.3	21.4	21.5	21.7	24.6	24.8	24.9	25.0	-	28.1	28.3	28.4	
		S/T	0.73	0.90	0.99	1.00	0.59	0.73	0.86	0.97	0.46	0.60	0.74	0.85	-	0.48	0.62	0.74	
		kW	0.99	1.00	1.00	1.01	1.22	1.23	1.24	1.25	1.48	1.49	1.50	1.51	-	1.76	1.77	1.79	
	85	TC	17.5	17.6	17.7	17.8	20.7	20.9	21.0	21.1	24.0	24.1	24.3	24.4	-	27.4	27.5	27.7	
		S/T	0.75	0.92	1.00	1.00	0.60	0.75	0.89	0.99	0.47	0.62	0.76	0.88	-	0.49	0.63	0.76	
		kW	1.11	1.12	1.13	1.13	1.37	1.38	1.39	1.40	1.65	1.67	1.68	1.69	-	1.97	1.99	2.00	
	95	TC	17.0	17.1	17.2	17.3	20.2	20.3	20.4	20.5	23.3	23.5	23.6	23.7	-	26.6	26.8	26.9	
		S/T	0.77	0.95	1.00	1.00	0.62	0.78	0.91	1.00	0.48	0.64	0.78	0.90	-	0.51	0.65	0.78	
		kW	1.25	1.26	1.26	1.27	1.54	1.55	1.56	1.57	1.85	1.87	1.88	1.89	-	2.20	2.22	2.24	
	105	TC	16.6	16.7	16.7	16.8	19.6	19.7	19.8	20.0	22.7	22.8	22.9	23.1	-	25.9	26.0	26.2	
		S/T	0.79	0.97	1.00	1.00	0.64	0.80	0.94	1.00	0.49	0.66	0.80	0.93	-	0.52	0.67	0.80	
		kW	1.39	1.40	1.41	1.42	1.72	1.73	1.74	1.75	2.07	2.08	2.10	2.11	-	2.46	2.47	2.49	
	115	TC	16.1	16.2	16.3	16.4	19.1	19.2	19.3	19.4	22.0	22.2	22.3	22.4	-	25.0	25.2	25.3	
		S/T	0.81	1.00	1.00	1.00	0.66	0.82	0.96	1.00	0.51	0.68	0.83	0.95	-	0.53	0.69	0.83	
		kW	1.55	1.56	1.57	1.58	1.91	1.92	1.93	1.95	2.29	2.31	2.32	2.34	-	2.70	2.72	2.74	

TC: Total capacity (MBH) S/T: Sensible heat ratio

COOLING-STANDARD 3TON

Standard 3Ton System - COH16S-36AAA + CVTAN-36AA																		
Indoor Airflow (SCFM)	Outdoor	IWB (°F)	59				63				67				71			
	DB (°F)	IDB (°F)	70	75	80	85	70	75	80	85	70	75	80	85	70	75	80	85
1050	65	TC	25.7	25.8	26.0	26.1	30.4	30.6	30.8	31.0	35.2	35.4	35.6	35.8	-	40.2	40.4	40.6
		S/T	0.67	0.83	0.91	0.96	0.54	0.68	0.80	0.89	0.42	0.56	0.68	0.79	-	0.44	0.57	0.68
		KW	1.53	1.54	1.55	1.56	1.89	1.91	1.92	1.93	2.28	2.30	2.31	2.33	-	2.72	2.74	2.76
	75	TC	25.0	25.2	25.3	25.4	29.7	29.8	30.0	30.2	34.3	34.5	34.7	34.9	-	39.2	39.4	39.6
		S/T	0.69	0.85	0.94	0.96	0.56	0.70	0.82	0.92	0.43	0.57	0.70	0.81	-	0.45	0.58	0.70
		KW	1.72	1.73	1.74	1.75	2.12	2.13	2.15	2.16	2.55	2.57	2.59	2.61	-	3.04	3.06	3.08
	85	TC	24.4	24.5	24.6	24.8	28.9	29.0	29.2	29.4	33.4	33.6	33.8	34.0	-	38.1	38.3	38.5
		S/T	0.71	0.87	0.96	0.96	0.57	0.72	0.84	0.94	0.44	0.59	0.72	0.83	-	0.47	0.60	0.72
		KW	1.93	1.94	1.96	1.97	2.38	2.40	2.41	2.43	2.86	2.88	2.90	2.92	-	3.40	3.43	3.45
	95	TC	23.7	23.8	24.0	24.1	28.1	28.3	28.4	28.6	32.5	32.7	32.9	33.0	-	37.1	37.3	37.5
		S/T	0.73	0.90	0.96	0.96	0.59	0.74	0.86	0.96	0.46	0.61	0.74	0.86	-	0.48	0.62	0.74
		KW	2.17	2.18	2.19	2.21	2.67	2.69	2.70	2.72	3.21	3.23	3.25	3.27	-	3.81	3.84	3.86
	105	TC	23.1	23.2	23.3	23.4	27.3	27.5	27.6	27.8	31.6	31.8	31.9	32.1	-	36.1	36.3	36.5
		S/T	0.75	0.92	0.96	0.96	0.60	0.76	0.89	0.96	0.47	0.62	0.76	0.88	-	0.49	0.64	0.76
		KW	2.42	2.44	2.45	2.47	2.98	3.00	3.02	3.04	3.58	3.60	3.58	3.65	-	4.24	4.27	4.31
	115	TC	22.4	22.5	22.6	22.8	26.5	26.7	26.8	27.0	30.7	30.9	31.0	31.2	-	35.0	35.2	35.4
		S/T	0.77	0.95	0.96	0.96	0.62	0.78	0.92	0.96	0.48	0.64	0.78	0.91	-	0.51	0.65	0.78
		KW	2.69	2.71	2.73	2.75	3.31	3.33	3.35	3.38	3.97	4.00	3.97	4.05	-	4.70	4.74	4.77
1200	65	TC	26.7	26.9	27.0	27.2	31.7	31.9	32.0	32.2	36.6	36.8	37.1	37.3	-	41.8	42.1	42.3
		S/T	0.70	0.86	0.95	1.00	0.56	0.71	0.83	0.93	0.44	0.58	0.71	0.82	-	0.46	0.59	0.71
		KW	1.59	1.60	1.61	1.62	1.97	1.98	1.99	2.01	2.37	2.39	2.41	2.43	-	2.83	2.85	2.87
	75	TC	26.1	26.2	26.3	26.5	30.9	31.0	31.2	31.4	35.7	35.9	36.1	36.3	-	40.8	41.0	41.2
		S/T	0.72	0.88	0.97	1.00	0.58	0.73	0.85	0.96	0.45	0.60	0.73	0.84	-	0.47	0.61	0.73
		KW	1.78	1.79	1.80	1.82	2.20	2.22	2.23	2.25	2.65	2.67	2.69	2.71	-	3.16	3.19	3.21
	85	TC	25.4	25.5	25.7	25.8	30.1	30.2	30.4	30.6	34.8	35.0	35.2	35.3	-	39.7	39.9	40.1
		S/T	0.74	0.91	1.00	1.00	0.60	0.74	0.88	0.98	0.46	0.61	0.75	0.87	-	0.49	0.63	0.75
		KW	2.00	2.01	2.03	2.04	2.47	2.49	2.50	2.52	2.97	3.00	3.02	3.04	-	3.54	3.57	3.60
	95	TC	24.7	24.8	25.0	25.1	29.2	29.4	29.6	29.7	33.8	34.0	34.2	34.4	-	38.6	38.8	39.0
		S/T	0.76	0.93	1.00	1.00	0.61	0.77	0.90	1.00	0.47	0.63	0.77	0.89	-	0.50	0.64	0.77
		KW	2.24	2.26	2.27	2.29	2.77	2.79	2.81	2.83	3.33	3.35	3.38	3.40	-	3.96	3.99	4.02
	105	TC	24.0	24.1	24.3	24.4	28.4	28.6	28.8	28.9	32.9	33.1	33.3	33.4	-	37.5	37.7	38.0
		S/T	0.78	0.96	1.00	1.00	0.63	0.79	0.93	1.00	0.49	0.65	0.79	0.92	-	0.51	0.66	0.79
		KW	2.51	2.52	2.54	2.56	3.09	3.11	3.13	3.15	3.71	3.74	3.77	3.79	-	4.41	4.45	4.48
	115	TC	23.3	23.4	23.6	23.7	27.6	27.8	27.9	28.1	31.9	32.1	32.3	32.5	-	36.5	36.7	36.9
		S/T	0.80	0.99	1.00	1.00	0.65	0.81	0.95	1.00	0.50	0.67	0.82	0.94	-	0.53	0.68	0.81
		KW	2.79	2.81	2.82	2.84	3.43	3.45	3.48	3.50	4.12	4.15	4.18	4.21	-	4.89	4.93	4.96
1350	65	TC	27.7	27.9	28.0	28.2	32.8	33.0	33.2	33.4	38.0	38.2	38.4	38.6	-	43.3	43.6	43.8
		S/T	0.73	0.89	0.98	1.04	0.59	0.73	0.86	0.96	0.45	0.60	0.74	0.85	-	0.48	0.61	0.74
		KW	1.64	1.65	1.66	1.67	2.03	2.05	2.06	2.08	2.46	2.47	2.49	2.51	-	2.93	2.96	2.98
	75	TC	27.0	27.1	27.3	27.4	32.0	32.2	32.3	32.5	37.0	37.2	37.4	37.6	-	42.2	42.5	42.7
		S/T	0.74	0.92	1.01	1.04	0.60	0.75	0.88	0.99	0.47	0.62	0.76	0.87	-	0.49	0.63	0.76
		KW	1.84	1.85	1.86	1.87	2.27	2.29	2.31	2.32	2.75	2.77	2.79	2.81	-	3.28	3.30	3.33
	85	TC	26.3	26.4	26.6	26.7	31.1	31.3	31.5	31.7	36.0	36.2	36.4	36.6	-	41.1	41.3	41.6
		S/T	0.76	0.94	1.04	1.04	0.62	0.77	0.91	1.02	0.48	0.63	0.78	0.90	-	0.50	0.65	0.78
		KW	2.06	2.08	2.09	2.11	2.55	2.57	2.59	2.61	3.08	3.10	3.12	3.15	-	3.67	3.70	3.73
	95	TC	25.6	25.7	25.9	26.0	30.3	30.5	30.6	30.8	35.0	35.2	35.4	35.6	-	40.0	40.2	40.4
		S/T	0.79	0.97	1.04	1.04	0.63	0.79	0.93	1.04	0.49	0.65	0.80	0.92	-	0.52	0.67	0.80
		KW	2.31	2.33	2.35	2.36	2.86	2.88	2.90	2.92	3.45	3.47	3.50	3.52	-	4.11	4.14	4.17
	105	TC	24.9	25.0	25.1	25.3	29.5	29.6	29.8	30.0	34.1	34.3	34.4	34.6	-	38.9	39.1	39.3
		S/T	0.81	1.00	1.04	1.04	0.65	0.82	0.96	1.04	0.51	0.67	0.82	0.95	-	0.53	0.68	0.82
		KW	2.59	2.60	2.62	2.64	3.19	3.21	3.24	3.26	3.84	3.87	3.90	3.93	-	4.57	4.61	4.64
	115	TC	24.1	24.3	24.4	24.6	28.6	28.8	28.9	29.1	33.1	33.3	33.5	33.6	-	37.8	38.0	38.2
		S/T	0.83	1.02	1.04	1.04	0.67	0.84	0.99	1.04	0.52	0.69	0.85	0.98	-	0.55	0.70	0.84
		KW	2.87	2.89	2.91	2.93	3.54	3.57	3.59	3.62	4.26	4.29	4.32	4.35	-	5.07	5.10	5.14

TC: Total capacity (MBH) S/T: Sensible heat ratio

COOLING-ULTRA HEAT 3TON

Ultra Heat 3Ton System - COH16S-60AAA + CVTAN-36AA																			
Indoor Airflow (SCFM)	Outdoor DB (°F)	IWB (°F)	59				63				67				71				
			70	75	80	85	70	75	80	85	70	75	80	85	70	75	80	85	
1050	65	TC	26.3	26.4	26.6	26.7	31.2	31.3	31.5	31.7	36.0	36.2	36.4	36.6	-	41.1	41.4	41.6	
		S/T	0.66	0.81	0.89	0.96	0.53	0.66	0.78	0.87	0.41	0.54	0.67	0.77	-	0.43	0.56	0.66	
		KW	1.27	1.28	1.29	1.29	1.57	1.58	1.59	1.60	1.89	1.90	1.92	1.93	-	2.25	2.27	2.29	
	75	TC	25.6	25.8	25.9	26.0	30.4	30.5	30.7	30.9	35.1	35.3	35.5	35.7	-	40.1	40.3	40.5	
		S/T	0.67	0.83	0.91	0.96	0.54	0.68	0.80	0.89	0.42	0.56	0.68	0.79	-	0.44	0.57	0.68	
		KW	1.42	1.43	1.44	1.45	1.76	1.77	1.78	1.79	2.11	2.13	2.15	2.16	-	2.52	2.54	2.55	
	85	TC	24.9	25.1	25.2	25.4	29.6	29.7	29.9	30.1	34.2	34.4	34.6	34.8	-	39.0	39.2	39.4	
		S/T	0.69	0.85	0.94	0.96	0.56	0.70	0.82	0.92	0.43	0.57	0.70	0.81	-	0.45	0.59	0.70	
		KW	1.60	1.61	1.62	1.63	1.97	1.98	2.00	2.01	2.37	2.39	2.41	2.42	-	2.82	2.84	2.86	
	95	TC	24.3	24.4	24.5	24.7	28.8	28.9	29.1	29.2	33.3	33.4	33.6	33.8	-	38.0	38.2	38.4	
		S/T	0.71	0.87	0.96	0.96	0.57	0.72	0.84	0.94	0.44	0.59	0.72	0.83	-	0.47	0.60	0.72	
		KW	1.79	1.81	1.82	1.83	2.21	2.22	2.24	2.26	2.66	2.67	2.69	2.71	-	3.15	3.18	3.20	
	105	TC	23.6	23.7	23.9	24.0	28.0	28.1	28.3	28.4	32.3	32.5	32.7	32.9	-	36.9	37.1	37.3	
		S/T	0.73	0.90	0.96	0.96	0.59	0.74	0.87	0.96	0.46	0.61	0.74	0.86	-	0.48	0.62	0.74	
		KW	2.01	2.02	2.03	2.05	2.47	2.48	2.50	2.52	2.96	2.98	2.99	3.03	-	3.52	3.54	3.57	
	115	TC	22.9	23.0	23.2	23.3	27.2	27.3	27.5	27.6	31.4	31.6	31.8	31.9	-	35.8	36.0	36.2	
		S/T	0.75	0.93	0.96	0.96	0.61	0.76	0.89	0.96	0.47	0.62	0.76	0.88	-	0.49	0.64	0.76	
		KW	2.23	2.25	2.26	2.27	2.74	2.76	2.78	2.80	3.29	3.31	3.32	3.36	-	3.90	3.93	3.95	
	1200	65	TC	27.4	27.5	27.7	27.8	32.4	32.6	32.8	33.0	37.5	37.7	37.9	38.1	-	42.8	43.0	43.3
			S/T	0.68	0.84	0.92	1.00	0.55	0.69	0.81	0.91	0.43	0.57	0.69	0.80	-	0.45	0.58	0.69
			KW	1.31	1.32	1.33	1.34	1.63	1.64	1.65	1.66	1.97	1.98	1.99	2.01	-	2.34	2.36	2.38
75		TC	26.7	26.8	27.0	27.1	31.6	31.8	32.0	32.1	36.5	36.7	36.9	37.1	-	41.7	41.9	42.2	
		S/T	0.70	0.86	0.95	1.00	0.56	0.71	0.83	0.93	0.44	0.58	0.71	0.82	-	0.46	0.59	0.71	
		KW	1.47	1.48	1.49	1.50	1.82	1.84	1.85	1.86	2.20	2.21	2.23	2.25	-	2.62	2.64	2.66	
85		TC	26.0	26.1	26.3	26.4	30.8	30.9	31.1	31.3	35.6	35.8	36.0	36.2	-	40.6	40.8	41.1	
		S/T	0.72	0.89	0.97	1.00	0.58	0.73	0.85	0.96	0.45	0.60	0.73	0.84	-	0.47	0.61	0.73	
		KW	1.66	1.67	1.68	1.69	2.05	2.06	2.07	2.09	2.46	2.48	2.50	2.52	-	2.93	2.96	2.98	
95		TC	25.3	25.4	25.5	25.7	29.9	30.1	30.3	30.4	34.6	34.8	35.0	35.2	-	39.5	39.7	40.0	
		S/T	0.74	0.91	1.00	1.00	0.60	0.75	0.88	0.98	0.46	0.61	0.75	0.87	-	0.49	0.63	0.75	
		KW	1.86	1.87	1.88	1.90	2.29	2.31	2.32	2.34	2.76	2.78	2.80	2.82	-	3.28	3.31	3.33	
105		TC	24.6	24.7	24.8	25.0	29.1	29.3	29.4	29.6	33.6	33.8	34.0	34.2	-	38.4	38.6	38.8	
		S/T	0.76	0.94	1.00	1.00	0.61	0.77	0.90	1.00	0.48	0.63	0.77	0.89	-	0.50	0.64	0.77	
		KW	2.08	2.09	2.10	2.12	2.56	2.58	2.59	2.61	3.08	3.10	3.12	3.14	-	3.66	3.68	3.71	
115		TC	23.9	24.0	24.1	24.3	28.3	28.4	28.6	28.7	32.7	32.9	33.1	33.2	-	37.3	37.5	37.7	
		S/T	0.78	0.96	1.00	1.00	0.63	0.79	0.93	1.00	0.49	0.65	0.79	0.92	-	0.51	0.66	0.79	
		KW	2.31	2.32	2.34	2.36	2.84	2.86	2.88	2.90	3.41	3.44	3.46	3.49	-	4.05	4.08	4.11	
1350		65	TC	28.3	28.5	28.7	28.8	33.6	33.8	34.0	34.2	38.8	39.1	39.3	39.5	-	44.3	44.6	44.8
			S/T	0.71	0.87	0.96	1.04	0.57	0.71	0.84	0.94	0.44	0.59	0.72	0.83	-	0.46	0.60	0.72
			KW	1.36	1.37	1.38	1.39	1.68	1.70	1.71	1.72	2.04	2.05	2.07	2.08	-	2.43	2.45	2.47
	75	TC	27.6	27.8	27.9	28.1	32.7	32.9	33.1	33.3	37.8	38.1	38.3	38.5	-	43.2	43.4	43.7	
		S/T	0.73	0.89	0.98	1.04	0.58	0.73	0.86	0.96	0.45	0.60	0.74	0.85	-	0.48	0.61	0.74	
		KW	1.52	1.53	1.54	1.55	1.88	1.90	1.91	1.93	2.28	2.29	2.31	2.33	-	2.72	2.74	2.76	
	85	TC	26.9	27.0	27.2	27.3	31.9	32.1	32.2	32.4	36.9	37.1	37.3	37.5	-	42.1	42.3	42.5	
		S/T	0.74	0.92	1.01	1.04	0.60	0.75	0.88	0.99	0.47	0.62	0.76	0.87	-	0.49	0.63	0.76	
		KW	1.71	1.72	1.73	1.74	2.11	2.13	2.14	2.16	2.55	2.57	2.59	2.61	-	3.04	3.06	3.09	
	95	TC	26.2	26.3	26.5	26.6	31.0	31.2	31.4	31.5	35.9	36.1	36.3	36.5	-	40.9	41.2	41.4	
		S/T	0.77	0.94	1.04	1.04	0.62	0.77	0.91	1.02	0.48	0.64	0.78	0.90	-	0.50	0.65	0.78	
		KW	1.92	1.93	1.94	1.96	2.37	2.39	2.40	2.42	2.85	2.88	2.90	2.92	-	3.40	3.43	3.45	
	105	TC	25.4	25.6	25.7	25.9	30.1	30.3	30.5	30.7	34.9	35.1	35.3	35.4	-	39.8	40.0	40.2	
		S/T	0.79	0.97	1.04	1.04	0.64	0.79	0.93	1.04	0.49	0.65	0.80	0.92	-	0.52	0.67	0.80	
		KW	2.14	2.16	2.17	2.19	2.64	2.66	2.68	2.70	3.18	3.21	3.23	3.25	-	3.79	3.82	3.84	
	115	TC	24.7	24.9	25.0	25.1	29.3	29.5	29.6	29.8	33.9	34.1	34.2	34.4	-	38.7	38.9	39.1	
		S/T	0.81	1.00	1.04	1.04	0.65	0.82	0.96	1.04	0.51	0.67	0.82	0.95	-	0.53	0.69	0.82	
		KW	2.38	2.40	2.41	2.43	2.93	2.96	2.98	3.00	3.53	3.56	3.58	3.61	-	4.20	4.23	4.26	

TC: Total capacity (MBH) S/T: Sensible heat ratio

SVS Ultra provides about 95% cooling capacity up to 115°F outdoor ambient temperature.

COOLING-STANDARD 4TON

Standard 4Ton System - COH16S-60AAA + CVTAN-48AA																		
Indoor Airflow (SCFM)	Outdoor DB (°F)	IWB (°F)	59				63				67				71			
			IDB (°F)	70	75	80	85	70	75	80	85	70	75	80	85	70	75	80
1250	65	TC	33.3	33.5	33.7	33.9	39.5	39.7	39.9	40.1	45.6	45.9	46.2	46.4	-	52.1	52.4	52.7
		S/T	0.64	0.78	0.86	0.95	0.51	0.64	0.76	0.85	0.40	0.53	0.65	0.75	-	0.42	0.54	0.65
		KW	1.79	1.80	1.81	1.83	2.21	2.22	2.24	2.26	2.66	2.68	2.70	2.72	-	3.17	3.19	3.22
	75	TC	32.5	32.6	32.8	33.0	38.5	38.7	38.9	39.1	44.5	44.7	45.0	45.2	-	50.8	51.0	51.3
		S/T	0.65	0.81	0.89	0.95	0.53	0.66	0.78	0.87	0.41	0.54	0.66	0.77	-	0.43	0.55	0.66
		KW	2.01	2.02	2.03	2.05	2.47	2.49	2.51	2.53	2.98	3.00	3.02	3.04	-	3.54	3.57	3.60
	85	TC	31.6	31.8	32.0	32.1	37.5	37.7	37.9	38.1	43.3	43.5	43.8	44.0	-	49.4	49.7	50.0
		S/T	0.67	0.83	0.91	0.95	0.54	0.68	0.80	0.89	0.42	0.56	0.68	0.79	-	0.44	0.57	0.68
		KW	2.25	2.27	2.28	2.30	2.78	2.80	2.82	2.84	3.34	3.36	3.39	3.41	-	3.97	4.00	4.03
	95	TC	30.7	30.9	31.1	31.3	36.4	36.6	36.8	37.1	42.1	42.4	42.6	42.8	-	48.1	48.4	48.6
		S/T	0.69	0.85	0.94	0.95	0.56	0.70	0.82	0.92	0.43	0.57	0.70	0.81	-	0.45	0.58	0.70
		KW	2.53	2.55	2.56	2.58	3.11	3.14	3.16	3.18	3.74	3.77	3.79	3.82	-	4.44	4.47	4.51
105	TC	29.9	30.1	30.2	30.4	35.4	35.6	35.8	36.0	41.0	41.2	41.4	41.7	-	46.8	47.0	47.3	
	S/T	0.71	0.87	0.95	0.95	0.57	0.72	0.84	0.94	0.44	0.59	0.72	0.83	-	0.47	0.60	0.72	
	KW	2.83	2.85	2.87	2.89	3.48	3.50	3.53	3.55	4.17	4.20	4.16	4.26	-	4.95	4.99	5.02	
115	TC	29.0	29.2	29.4	29.5	34.4	34.6	34.8	35.0	39.8	40.0	40.2	40.5	-	45.4	45.7	45.9	
	S/T	0.73	0.90	0.95	0.95	0.59	0.74	0.87	0.95	0.46	0.61	0.74	0.86	-	0.48	0.62	0.74	
	KW	3.15	3.17	3.19	3.21	3.86	3.89	3.92	3.94	4.63	4.66	4.61	4.73	-	5.49	5.53	5.57	
1500	65	TC	35.2	35.4	35.6	35.8	41.7	41.9	42.2	42.4	48.2	48.5	48.8	49.0	-	55.0	55.3	55.6
		S/T	0.67	0.83	0.91	1.00	0.54	0.68	0.80	0.89	0.42	0.56	0.68	0.79	-	0.44	0.57	0.68
		KW	1.88	1.89	1.90	1.92	2.33	2.34	2.36	2.38	2.81	2.83	2.85	2.87	-	3.35	3.38	3.40
	75	TC	34.3	34.5	34.7	34.9	40.6	40.9	41.1	41.3	47.0	47.2	47.5	47.8	-	53.6	53.9	54.2
		S/T	0.69	0.85	0.94	1.00	0.56	0.70	0.82	0.92	0.43	0.57	0.70	0.81	-	0.45	0.59	0.70
		KW	2.11	2.12	2.13	2.15	2.60	2.62	2.64	2.66	3.14	3.16	3.19	3.21	-	3.74	3.77	3.80
	85	TC	33.4	33.6	33.8	33.9	39.6	39.8	40.0	40.2	45.7	46.0	46.3	46.5	-	52.2	52.5	52.8
		S/T	0.71	0.87	0.96	1.00	0.57	0.72	0.84	0.94	0.44	0.59	0.72	0.83	-	0.47	0.60	0.72
		KW	2.37	2.38	2.40	2.41	2.92	2.94	2.96	2.98	3.52	3.55	3.57	3.60	-	4.19	4.22	4.26
	95	TC	32.5	32.7	32.8	33.0	38.5	38.7	38.9	39.1	44.5	44.8	45.0	45.3	-	50.8	51.1	51.4
		S/T	0.73	0.90	0.99	1.00	0.59	0.74	0.86	0.97	0.46	0.61	0.74	0.86	-	0.48	0.62	0.74
		KW	2.65	2.67	2.69	2.71	3.27	3.30	3.32	3.34	3.94	3.97	4.00	4.03	-	4.69	4.72	4.76
105	TC	31.6	31.7	31.9	32.1	37.4	37.6	37.8	38.0	43.3	43.5	43.8	44.0	-	49.4	49.7	49.9	
	S/T	0.75	0.92	1.00	1.00	0.60	0.76	0.89	1.00	0.47	0.62	0.76	0.88	-	0.49	0.64	0.76	
	KW	2.97	2.99	3.01	3.03	3.66	3.68	3.71	3.73	4.40	4.43	4.46	4.49	-	5.22	5.26	5.30	
115	TC	30.7	30.8	31.0	31.2	36.3	36.6	36.8	37.0	42.0	42.3	42.5	42.7	-	48.0	48.2	48.5	
	S/T	0.77	0.95	1.00	1.00	0.62	0.78	0.92	1.00	0.48	0.64	0.78	0.91	-	0.51	0.65	0.78	
	KW	3.30	3.32	3.34	3.36	4.06	4.09	4.12	4.14	4.88	4.91	4.95	4.98	-	5.79	5.83	5.87	
1700	65	TC	36.5	36.7	36.9	37.1	43.3	43.5	43.8	44.0	50.1	50.3	50.6	50.9	-	57.1	57.5	57.8
		S/T	0.70	0.86	0.95	1.04	0.56	0.71	0.83	0.93	0.44	0.58	0.71	0.82	-	0.46	0.59	0.71
		KW	1.94	1.96	1.97	1.98	2.41	2.43	2.44	2.46	2.91	2.94	2.96	2.98	-	3.48	3.51	3.53
	75	TC	35.6	35.8	36.0	36.2	42.2	42.4	42.7	42.9	48.8	49.0	49.3	49.6	-	55.7	56.0	56.3
		S/T	0.72	0.88	0.97	1.04	0.58	0.72	0.85	0.95	0.45	0.60	0.73	0.84	-	0.47	0.61	0.73
		KW	2.18	2.19	2.21	2.22	2.70	2.72	2.74	2.76	3.26	3.28	3.31	3.33	-	3.89	3.92	3.95
	85	TC	34.7	34.8	35.0	35.2	41.1	41.3	41.5	41.8	47.5	47.8	48.0	48.3	-	54.2	54.5	54.8
		S/T	0.74	0.91	1.00	1.04	0.59	0.74	0.87	0.98	0.46	0.61	0.75	0.86	-	0.48	0.62	0.75
		KW	2.45	2.46	2.48	2.50	3.03	3.05	3.07	3.09	3.65	3.68	3.71	3.73	-	4.35	4.39	4.42
	95	TC	33.7	33.9	34.1	34.3	40.0	40.2	40.4	40.6	46.2	46.5	46.7	47.0	-	52.7	53.0	53.3
		S/T	0.76	0.93	1.03	1.04	0.61	0.76	0.90	1.01	0.47	0.63	0.77	0.89	-	0.50	0.64	0.77
		KW	2.74	2.76	2.78	2.80	3.39	3.41	3.44	3.46	4.09	4.12	4.15	4.18	-	4.87	4.91	4.94
105	TC	32.8	33.0	33.1	33.3	38.8	39.1	39.3	39.5	44.9	45.2	45.4	45.7	-	51.3	51.6	51.8	
	S/T	0.78	0.96	1.04	1.04	0.63	0.79	0.92	1.04	0.49	0.65	0.79	0.91	-	0.51	0.66	0.79	
	KW	3.07	3.09	3.11	3.13	3.78	3.81	3.84	3.86	4.56	4.59	4.62	4.66	-	5.42	5.46	5.50	
115	TC	31.8	32.0	32.2	32.4	37.7	38.0	38.2	38.4	43.6	43.9	44.1	44.4	-	49.8	50.1	50.4	
	S/T	0.80	0.99	1.04	1.04	0.65	0.81	0.95	1.04	0.50	0.67	0.81	0.94	-	0.53	0.68	0.81	
	KW	3.41	3.43	3.45	3.48	4.20	4.23	4.26	4.29	5.05	5.09	5.13	5.16	-	6.01	6.05	6.10	

TC: Total capacity (MBH) S/T: Sensible heat ratio

COOLING-STANDARD 5TON

Standard 5Ton System - COH16S-60AAA + CVTAN-60AA																		
Indoor Airflow (SCFM)	Outdoor	IWB (°F)	59				63				67				71			
	DB (°F)	IDB (°F)	70	75	80	85	70	75	80	85	70	75	80	85	70	75	80	85
1500	65	TC	40.7	40.9	41.1	41.3	48.2	48.5	48.7	49.0	55.7	56.0	56.3	56.7	-	63.6	64.0	64.3
		S/T	0.63	0.78	0.85	0.94	0.51	0.64	0.75	0.84	0.39	0.52	0.64	0.74	-	0.41	0.53	0.64
		KW	2.42	2.43	2.45	2.47	2.99	3.01	3.03	3.05	3.60	3.63	3.65	3.68	-	4.29	4.32	4.35
	75	TC	39.6	39.8	40.1	40.3	47.0	47.2	47.5	47.7	54.3	54.6	54.9	55.2	-	62.0	62.3	62.7
		S/T	0.65	0.80	0.88	0.96	0.52	0.65	0.77	0.86	0.41	0.54	0.66	0.76	-	0.43	0.55	0.66
		KW	2.71	2.73	2.75	2.76	3.34	3.37	3.39	3.41	4.03	4.06	4.09	4.12	-	4.79	4.83	4.87
	85	TC	38.6	38.8	39.0	39.2	45.7	46.0	46.2	46.5	52.9	53.2	53.5	53.8	-	60.3	60.7	61.0
		S/T	0.66	0.82	0.90	0.96	0.54	0.67	0.79	0.88	0.42	0.55	0.68	0.78	-	0.44	0.56	0.67
		KW	3.04	3.06	3.08	3.11	3.75	3.78	3.81	3.83	4.52	4.55	4.58	4.61	-	5.37	5.41	5.45
	95	TC	37.5	37.7	38.0	38.2	44.5	44.7	45.0	45.2	51.4	51.7	52.0	52.3	-	58.7	59.0	59.4
		S/T	0.68	0.84	0.93	0.96	0.55	0.69	0.81	0.91	0.43	0.57	0.69	0.80	-	0.45	0.58	0.69
		KW	3.42	3.44	3.46	3.48	4.21	4.24	4.27	4.30	5.06	5.09	5.13	5.17	-	6.01	6.05	6.10
	105	TC	36.5	36.7	36.9	37.1	43.2	43.5	43.7	44.0	50.0	50.3	50.6	50.8	-	57.1	57.4	57.7
		S/T	0.70	0.87	0.95	0.96	0.57	0.71	0.83	0.93	0.44	0.58	0.71	0.82	-	0.46	0.60	0.71
		KW	3.82	3.84	3.87	3.90	4.70	4.73	4.76	4.80	5.64	5.68	5.65	5.76	-	6.70	6.75	6.79
	115	TC	35.4	35.6	35.8	36.0	42.0	42.2	42.5	42.7	47.2	47.5	47.7	48.0	-	48.3	48.6	48.8
		S/T	0.72	0.89	0.96	0.96	0.58	0.73	0.86	0.96	0.45	0.60	0.73	0.85	-	0.48	0.61	0.73
		KW	4.25	4.27	4.30	4.33	5.22	5.25	5.29	5.33	6.03	6.08	6.04	6.16	-	6.21	6.26	6.30
1700	65	TC	42.2	42.5	42.7	42.9	50.0	50.3	50.6	50.9	57.9	58.2	58.5	58.8	-	66.0	66.4	66.8
		S/T	0.65	0.81	0.89	0.97	0.53	0.66	0.78	0.87	0.41	0.54	0.66	0.77	-	0.43	0.55	0.66
		KW	2.50	2.52	2.53	2.55	3.09	3.12	3.14	3.16	3.73	3.76	3.79	3.82	-	4.46	4.49	4.52
	75	TC	41.1	41.4	41.6	41.8	48.7	49.0	49.3	49.6	56.4	56.7	57.0	57.3	-	64.3	64.7	65.1
		S/T	0.67	0.83	0.91	1.00	0.54	0.68	0.80	0.89	0.42	0.56	0.68	0.79	-	0.44	0.57	0.68
		KW	2.80	2.82	2.84	2.86	3.46	3.49	3.51	3.54	4.18	4.21	4.24	4.27	-	4.98	5.02	5.05
	85	TC	40.1	40.3	40.5	40.7	47.5	47.7	48.0	48.3	54.9	55.2	55.5	55.8	-	62.7	63.0	63.4
		S/T	0.69	0.85	0.94	1.00	0.56	0.70	0.82	0.92	0.43	0.57	0.70	0.81	-	0.45	0.58	0.70
		KW	3.15	3.17	3.19	3.21	3.89	3.91	3.94	3.97	4.68	4.72	4.75	4.79	-	5.58	5.62	5.66
	95	TC	39.0	39.2	39.4	39.6	46.2	46.4	46.7	47.0	53.4	53.7	54.0	54.3	-	61.0	61.3	61.6
		S/T	0.71	0.87	0.96	1.00	0.57	0.72	0.84	0.94	0.44	0.59	0.72	0.83	-	0.47	0.60	0.72
		KW	3.53	3.55	3.58	3.60	4.35	4.39	4.42	4.45	5.24	5.28	5.32	5.36	-	6.24	6.28	6.33
	105	TC	37.9	38.1	38.3	38.5	44.9	45.2	45.4	45.7	51.9	52.2	52.5	52.8	-	59.3	59.6	59.9
		S/T	0.73	0.90	0.99	1.00	0.59	0.74	0.87	0.97	0.46	0.61	0.74	0.86	-	0.48	0.62	0.74
		KW	3.95	3.97	4.00	4.03	4.86	4.90	4.93	4.96	5.85	5.89	5.93	5.97	-	6.95	7.00	7.05
	115	TC	36.8	37.0	37.2	37.4	43.6	43.9	44.1	44.4	49.0	49.3	49.5	49.8	-	50.1	50.4	50.7
		S/T	0.75	0.92	1.00	1.00	0.61	0.76	0.89	1.00	0.47	0.62	0.76	0.88	-	0.49	0.64	0.76
		KW	4.39	4.42	4.45	4.48	5.40	5.44	5.47	5.51	6.25	6.29	6.34	6.38	-	6.44	6.48	6.53
1900	65	TC	43.6	43.9	44.1	44.4	51.7	52.0	52.3	52.6	59.8	60.1	60.5	60.8	-	68.3	68.7	69.0
		S/T	0.68	0.83	0.92	1.01	0.55	0.68	0.80	0.90	0.42	0.56	0.69	0.79	-	0.45	0.57	0.69
		KW	2.57	2.59	2.61	2.63	3.19	3.22	3.24	3.26	3.86	3.89	3.92	3.95	-	4.61	4.65	4.68
	75	TC	42.5	42.8	43.0	43.2	50.4	50.7	51.0	51.3	58.3	58.6	58.9	59.3	-	66.5	66.9	67.3
		S/T	0.69	0.86	0.94	1.03	0.56	0.70	0.82	0.92	0.43	0.58	0.71	0.82	-	0.46	0.59	0.70
		KW	2.89	2.91	2.93	2.95	3.57	3.60	3.63	3.65	4.32	4.35	4.38	4.41	-	5.15	5.19	5.23
	85	TC	41.4	41.6	41.9	42.1	49.1	49.4	49.6	49.9	56.7	57.1	57.4	57.7	-	64.8	65.1	65.5
		S/T	0.71	0.88	0.97	1.03	0.58	0.72	0.85	0.95	0.45	0.59	0.72	0.84	-	0.47	0.60	0.72
		KW	3.24	3.26	3.29	3.31	4.01	4.04	4.07	4.10	4.84	4.87	4.91	4.94	-	5.77	5.81	5.85
	95	TC	40.3	40.5	40.7	41.0	47.8	48.0	48.3	48.6	55.2	55.5	55.8	56.1	-	63.0	63.4	63.7
		S/T	0.73	0.90	0.99	1.03	0.59	0.74	0.87	0.98	0.46	0.61	0.74	0.86	-	0.48	0.62	0.74
		KW	3.64	3.66	3.69	3.71	4.49	4.52	4.56	4.59	5.41	5.45	5.49	5.53	-	6.45	6.50	6.55
	105	TC	39.2	39.4	39.6	39.8	46.4	46.7	46.9	47.2	53.7	54.0	54.3	54.6	-	61.3	61.6	62.0
		S/T	0.75	0.93	1.02	1.03	0.61	0.76	0.89	1.00	0.47	0.63	0.77	0.89	-	0.50	0.64	0.77
		KW	4.06	4.09	4.12	4.15	5.01	5.05	5.08	5.12	6.04	6.08	6.12	6.17	-	7.18	7.24	7.29
	115	TC	38.1	38.3	38.5	38.7	45.1	45.4	45.6	45.9	50.7	50.9	51.2	51.5	-	51.8	52.1	52.4
		S/T	0.78	0.96	1.03	1.03	0.63	0.78	0.92	1.03	0.49	0.64	0.79	0.91	-	0.51	0.66	0.79
		KW	4.52	4.55	4.58	4.61	5.57	5.61	5.64	5.68	6.45	6.50	6.54	6.59	-	6.64	6.69	6.74

TC: Total capacity (MBH) S/T: Sensible heat ratio

HEATING-STANDARD & ULTRA HEAT 2TON

INDOOR AIR		OUTDOOR AMBIENT TEMPERATURE (°F)											
		-3			7			17			27		
IDB (°F)	SCFM	MBh	kW	COP	MBh	kW	COP	MBh	kW	COP	MBh	kW	COP
65	650	17.8	2.56	2.04	21.0	2.49	2.47	24.2	2.42	2.94	24.7	2.32	3.13
	750	18.6	2.69	2.02	21.9	2.63	2.45	25.3	2.54	2.91	25.8	2.44	3.10
	850	19.3	2.82	2.01	22.8	2.75	2.43	26.2	2.66	2.89	26.8	2.56	3.07
70	650	16.0	2.24	2.08	18.8	2.19	2.52	21.7	2.12	3.00	22.1	2.03	3.19
	750	16.7	2.36	2.07	19.6	2.30	2.50	22.6	2.23	2.98	23.1	2.14	3.17
	850	17.3	2.47	2.05	20.4	2.41	2.48	23.5	2.33	2.96	24.0	2.24	3.14
75	650	14.1	1.94	2.12	16.6	1.90	2.57	19.2	1.84	3.06	19.6	1.76	3.25
	750	14.7	2.04	2.11	17.4	1.99	2.55	20.0	1.93	3.04	20.4	1.85	3.23
	850	15.3	2.13	2.10	18.0	2.08	2.54	20.8	2.02	3.02	21.2	1.93	3.21
INDOOR AIR		OUTDOOR AMBIENT TEMPERATURE (°F)											
		37			47			57			67		
IDB (°F)	SCFM	MBh	kW	COP	MBh	kW	COP	MBh	kW	COP	MBh	kW	COP
65	650	24.7	2.20	3.30	24.7	2.05	3.53	24.7	1.87	3.87	24.7	1.65	4.38
	750	25.8	2.31	3.27	25.8	2.16	3.50	25.8	1.97	3.83	25.8	1.74	4.34
	850	26.8	2.42	3.24	26.8	2.26	3.47	26.8	2.07	3.80	26.8	1.82	4.31
70	650	22.1	1.93	3.37	22.1	1.80	3.61	22.1	1.64	3.95	22.1	1.45	4.47
	750	23.1	2.03	3.34	23.1	1.89	3.58	23.1	1.73	3.92	23.1	1.53	4.44
	850	24.0	2.12	3.32	24.0	1.98	3.55	24.0	1.81	3.89	24.0	1.60	4.41
75	650	19.6	1.67	3.43	19.6	1.56	3.67	19.6	1.43	4.02	19.6	1.26	4.56
	750	20.4	1.76	3.41	20.4	1.64	3.65	20.4	1.50	4.00	20.4	1.32	4.53
	850	21.2	1.83	3.39	21.2	1.71	3.63	21.2	1.56	3.98	21.2	1.38	4.51

HEATING- STANDARD 3TON

INDOOR AIR		OUTDOOR AMBIENT TEMPERATURE (°F)											
		-3			7			17			27		
IDB (°F)	SCFM	MBh	kW	COP	MBh	kW	COP	MBh	kW	COP	MBh	kW	COP
65	1050	21.4	4.21	1.49	25.3	4.11	1.80	29.1	3.98	2.14	33.0	3.82	2.53
	1200	22.3	4.43	1.48	26.3	4.32	1.78	30.3	4.18	2.12	34.3	4.01	2.50
	1350	23.1	4.62	1.46	27.2	4.51	1.77	31.4	4.37	2.10	35.5	4.19	2.48
70	1050	19.2	3.69	1.52	22.6	3.61	1.84	26.1	3.49	2.19	29.5	3.35	2.58
	1200	20.0	3.87	1.51	23.6	3.78	1.83	27.1	3.66	2.17	30.7	3.51	2.56
	1350	20.7	4.04	1.50	24.4	3.95	1.81	28.1	3.82	2.16	31.8	3.67	2.55
75	1050	16.9	3.20	1.55	20.0	3.12	1.88	23.0	3.02	2.23	26.1	2.90	2.64
	1200	17.6	3.35	1.54	20.8	3.27	1.87	24.0	3.17	2.22	27.2	3.04	2.62
	1350	18.3	3.49	1.53	21.6	3.41	1.85	24.8	3.30	2.21	28.1	3.17	2.61
INDOOR AIR		OUTDOOR AMBIENT TEMPERATURE (°F)											
		37			47			57			67		
IDB (°F)	SCFM	MBh	kW	COP	MBh	kW	COP	MBh	kW	COP	MBh	kW	COP
65	1050	36.8	3.62	2.98	37.5	3.38	3.25	37.5	3.09	3.56	37.5	2.73	4.03
	1200	38.3	3.81	2.95	39.1	3.55	3.22	39.1	3.25	3.53	39.1	2.86	4.00
	1350	39.7	3.98	2.93	40.5	3.71	3.20	40.5	3.39	3.50	40.5	2.99	3.97
70	1050	33.0	3.18	3.04	33.6	2.97	3.32	33.6	2.71	3.64	33.6	2.39	4.12
	1200	34.3	3.33	3.02	35.0	3.11	3.30	35.0	2.84	3.61	35.0	2.51	4.09
	1350	35.6	3.48	3.00	36.3	3.24	3.28	36.3	2.96	3.59	36.3	2.62	4.06
75	1050	29.1	2.75	3.11	29.7	2.57	3.39	29.7	2.34	3.71	29.7	2.07	4.21
	1200	30.3	2.88	3.09	30.9	2.69	3.37	30.9	2.46	3.69	30.9	2.17	4.18
	1350	31.4	3.00	3.07	32.0	2.80	3.35	32.0	2.56	3.67	32.0	2.26	4.16

HEATING-ULTRA HEAT 3TON

INDOOR AIR		OUTDOOR AMBIENT TEMPERATURE (°F)											
		-3			7			17			27		
IDB (°F)	SCFM	MBh	kW	COP	MBh	kW	COP	MBh	kW	COP	MBh	kW	COP
65	1050	33.7	3.97	2.48	38.0	3.88	2.87	38.0	3.75	2.96	38.0	3.60	3.09
	1200	35.0	4.17	2.46	39.5	4.07	2.85	39.5	3.94	2.94	39.5	3.78	3.06
	1350	36.3	4.36	2.44	40.9	4.25	2.82	40.9	4.12	2.91	40.9	3.95	3.04
70	1050	30.2	3.48	2.54	34.0	3.40	2.93	34.0	3.29	3.03	34.0	3.16	3.16
	1200	31.4	3.65	2.52	35.4	3.56	2.91	35.4	3.45	3.01	35.4	3.31	3.13
	1350	32.5	3.81	2.50	36.7	3.72	2.89	36.7	3.60	2.99	36.7	3.45	3.11
75	1050	26.6	3.01	2.59	30.1	2.94	2.99	30.1	2.85	3.09	30.1	2.73	3.22
	1200	27.7	3.16	2.58	31.3	3.08	2.98	31.3	2.98	3.07	31.3	2.86	3.20
	1350	28.7	3.29	2.56	32.4	3.21	2.96	32.4	3.11	3.06	32.4	2.98	3.19
INDOOR AIR		OUTDOOR AMBIENT TEMPERATURE (°F)											
		37			47			57			67		
IDB (°F)	SCFM	MBh	kW	COP	MBh	kW	COP	MBh	kW	COP	MBh	kW	COP
65	1050	38.0	3.41	3.26	38.0	3.19	3.49	38.0	2.91	3.82	38.0	2.57	4.33
	1200	39.5	3.59	3.23	39.5	3.35	3.46	39.5	3.06	3.79	39.5	2.70	4.29
	1350	40.9	3.75	3.20	40.9	3.50	3.43	40.9	3.19	3.76	40.9	2.82	4.26
70	1050	34.0	2.99	3.33	34.0	2.79	3.57	34.0	2.55	3.91	34.0	2.25	4.43
	1200	35.4	3.14	3.31	35.4	2.93	3.54	35.4	2.68	3.88	35.4	2.36	4.39
	1350	36.7	3.27	3.28	36.7	3.06	3.52	36.7	2.79	3.85	36.7	2.46	4.36
75	1050	30.1	2.59	3.40	30.1	2.42	3.64	30.1	2.21	3.99	30.1	1.95	4.52
	1200	31.3	2.71	3.38	31.3	2.53	3.62	31.3	2.31	3.96	31.3	2.04	4.49
	1350	32.4	2.83	3.36	32.4	2.64	3.60	32.4	2.41	3.94	32.4	2.13	4.46

HEATING-STANDARD 4TON

INDOOR AIR		OUTDOOR AMBIENT TEMPERATURE (°F)											
		-3			7			17			27		
IDB (°F)	SCFM	MBh	kW	COP	MBh	kW	COP	MBh	kW	COP	MBh	kW	COP
65	1250	33.6	5.39	1.82	39.6	5.26	2.21	45.6	5.10	2.62	48.6	4.89	2.91
	1500	35.4	5.76	1.80	41.8	5.63	2.18	48.2	5.45	2.59	51.3	5.23	2.88
	1700	36.8	6.04	1.79	43.4	5.89	2.16	50.0	5.71	2.57	53.3	5.48	2.85
70	1250	30.1	4.73	1.86	35.5	4.61	2.25	40.9	4.47	2.68	43.6	4.29	2.98
	1500	31.8	5.05	1.84	37.5	4.92	2.23	43.2	4.77	2.65	46.0	4.58	2.95
	1700	33.0	5.28	1.83	38.9	5.15	2.21	44.8	4.99	2.63	47.8	4.79	2.92
75	1250	26.6	4.10	1.90	31.3	4.00	2.30	36.1	3.87	2.73	38.5	3.71	3.04
	1500	28.1	4.36	1.89	33.1	4.26	2.28	38.2	4.12	2.71	40.7	3.96	3.01
	1700	29.1	4.56	1.87	34.4	4.45	2.27	39.6	4.31	2.70	42.2	4.13	2.99
INDOOR AIR		OUTDOOR AMBIENT TEMPERATURE (°F)											
		37			47			57			67		
IDB (°F)	SCFM	MBh	kW	COP	MBh	kW	COP	MBh	kW	COP	MBh	kW	COP
65	1250	48.6	4.64	3.07	48.6	4.33	3.29	48.6	3.95	3.60	48.6	3.49	4.08
	1500	51.3	4.96	3.04	51.3	4.63	3.25	51.3	4.23	3.56	51.3	3.73	4.04
	1700	53.3	5.19	3.01	53.3	4.85	3.22	53.3	4.43	3.53	53.3	3.91	4.00
70	1250	43.6	4.07	3.14	43.6	3.80	3.36	43.6	3.47	3.68	43.6	3.06	4.17
	1500	46.0	4.34	3.11	46.0	4.05	3.33	46.0	3.70	3.65	46.0	3.26	4.13
	1700	47.8	4.54	3.08	47.8	4.24	3.30	47.8	3.87	3.62	47.8	3.41	4.10
75	1250	38.5	3.52	3.20	38.5	3.29	3.43	38.5	3.00	3.76	38.5	2.65	4.26
	1500	40.7	3.75	3.18	40.7	3.50	3.40	40.7	3.20	3.73	40.7	2.82	4.22
	1700	42.2	3.92	3.16	42.2	3.66	3.38	42.2	3.34	3.70	42.2	2.95	4.20

HEATING-STANDARD 5TON

INDOOR AIR		OUTDOOR AMBIENT TEMPERATURE (°F)											
		-3			7			17			27		
IDB (°F)	SCFM	MBh	kW	COP	MBh	kW	COP	MBh	kW	COP	MBh	kW	COP
65	1500	34.6	6.61	1.54	40.8	6.45	1.86	47.1	6.25	2.21	53.3	5.99	2.61
	1700	35.9	6.92	1.52	42.4	6.75	1.84	48.9	6.54	2.19	55.3	6.27	2.58
	1900	37.2	7.21	1.51	43.8	7.03	1.83	50.5	6.81	2.17	57.2	6.54	2.57
70	1500	31.0	5.79	1.57	36.6	5.65	1.90	42.2	5.47	2.26	47.7	5.25	2.66
	1700	32.2	6.05	1.56	38.0	5.91	1.88	43.8	5.72	2.24	49.6	5.49	2.65
	1900	33.3	6.30	1.55	39.3	6.15	1.87	45.3	5.96	2.23	51.2	5.71	2.63
75	1500	27.4	5.01	1.60	32.3	4.89	1.94	37.3	4.74	2.30	42.2	4.55	2.72
	1700	28.4	5.23	1.59	33.6	5.11	1.93	38.7	4.95	2.29	43.8	4.75	2.70
	1900	29.4	5.44	1.58	34.7	5.31	1.91	40.0	5.14	2.28	45.3	4.93	2.69
INDOOR AIR		OUTDOOR AMBIENT TEMPERATURE (°F)											
		37			47			57			67		
IDB (°F)	SCFM	MBh	kW	COP	MBh	kW	COP	MBh	kW	COP	MBh	kW	COP
65	1500	58.1	5.68	3.00	58.1	5.30	3.21	58.1	4.84	3.51	58.1	4.27	3.98
	1700	60.3	5.95	2.97	60.3	5.55	3.18	60.3	5.07	3.48	60.3	4.48	3.95
	1900	62.3	6.20	2.95	62.3	5.79	3.16	62.3	5.28	3.46	62.3	4.66	3.92
70	1500	52.0	4.98	3.06	52.0	4.65	3.28	52.0	4.24	3.59	52.0	3.75	4.07
	1700	54.0	5.21	3.04	54.0	4.86	3.26	54.0	4.44	3.57	54.0	3.92	4.04
	1900	55.8	5.42	3.02	55.8	5.06	3.23	55.8	4.62	3.54	55.8	4.08	4.01
75	1500	46.0	4.31	3.13	46.0	4.02	3.35	46.0	3.67	3.67	46.0	3.24	4.15
	1700	47.7	4.50	3.11	47.7	4.20	3.33	47.7	3.84	3.64	47.7	3.39	4.13
	1900	49.3	4.68	3.09	49.3	4.37	3.31	49.3	3.99	3.62	49.3	3.52	4.11

Capacity Corrections

The system can extend the line sets flexibly within its limitation to fit the actual situation. However, it will cause cooling/heating capacity decrease because of the pressure loss by longer line length. Using the following correction factor to calculate the approximate capacity accordingly.

SUCTION LINE LENGTH/SIZE VS CAPACITY MULTIPLIER (R410A)

Model		COH16S-36AAA	COH16S-60AAA
Liquid Line Connection Size		3/8"	3/8"
Suction Line Connection Size		3/4"	7/8"
Suction Line Length/Size *		5/8" Optional	3/4" Optional
		3/4" Standard	7/8" Standard
25 feet	Optional	1.00	0.99
	Standard	1.00	1.00
50 feet	Optional	0.98	0.97
	Standard	0.99	0.98
100 feet	Optional	0.95	0.94
	Standard	0.97	0.96

*It's not suggested to use suction line bigger than standard size shown above, in which will result poor oil return back to the inverter compressor.

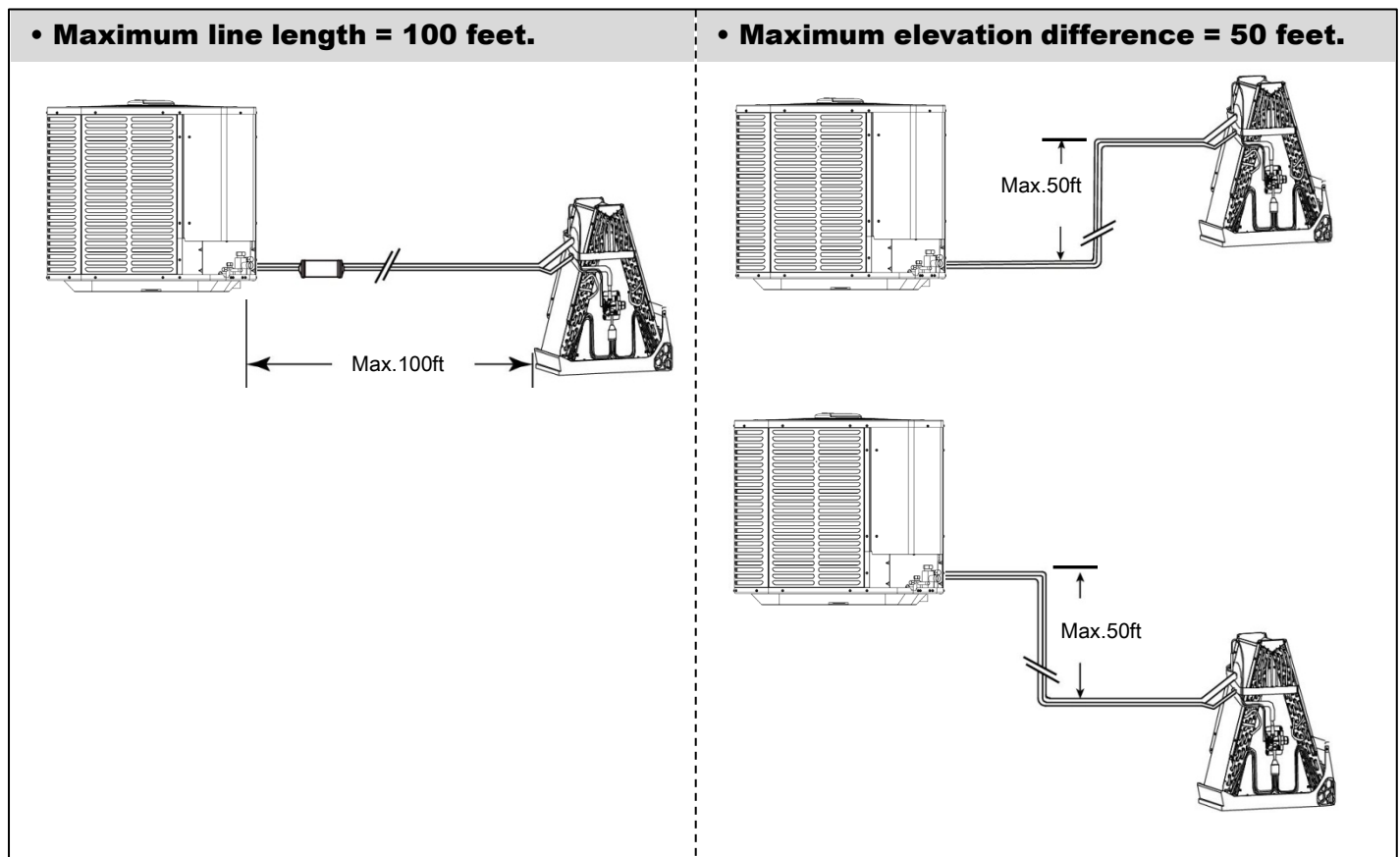


Fig 3. Line length and elevation difference limits

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6611 NW 84th Ave, Miami, FL 33166

Tel: 1 (855) 632 0620

www.invertercool.com