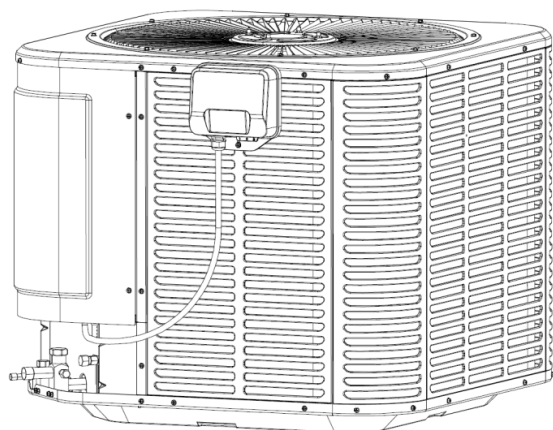




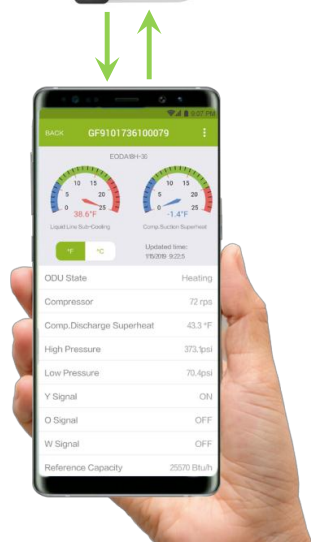
# Smart Inverter (ESI) System

*Up to 20 SEER  
VARIABLE-SPEED  
IoT TECHNOLOGY*



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### Standard Features

- Comfort.** True inverter systems output flexible capacity from 25%-110% for ESI and 50%-170% for ESI Ultra respectively. ESI Ultra outputs 95% cooling capacity up to 115°F and 100% heating capacity down to 5°F.
- Quiet.** Compressors are equipped with noise cancelling jacket. Silent mode is available by field setting.
- Free match.** ESI (Ultra) systems are compatible with most common 24Vac controlled thermostats and traditional air handlers and furnaces.
- Seasonable dehumidification.** Dry mode specifically designed for high humidity areas.
- Refrigerant Auto charge assistant technology.**
- Load learning.** Building load forecasting technology helps to save energy.
- Backup running.** Continued operation even if up to two sensors failure.

### Ecoer IoT Features

- 7/24 monitoring service.
- Diagnostic and alert service.
- Live system data and operation history record.
- ESS reminds contractors/homeowners of valuable service like filter replacement, refrigerant shortage and home inefficiency etc.



# 1. Nomenclature

<b>Condensing Unit</b>	<b>E</b>	<b>OD</b>	<b>A</b>	<b>18</b>	<b>H</b>	<b>-</b>	<b>4860</b>
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>		<b>6</b>
<b>Brand</b> E: Ecoer							
<b>Product Series</b> OD: Outdoor Condensing Unit							
<b>Model Letters</b> A: 208/230V-1Ph-60Hz							
<b>SEER</b> 18: 18SEER Series							
<b>Type</b> H: Heat Pump; C: Cooling only							
<b>Capacity</b> 2436: up to 3Ton; 4860: up to 5Ton.							

<b>E series Air Handler</b>	<b>E</b>	<b>AH</b>	<b>A</b>	<b>T</b>	<b>N</b>	<b>-</b>	<b>24</b>
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>		<b>6</b>
<b>Brand</b> E: Ecoer							
<b>Product Series</b> AH: Indoor Air Handler							
<b>Model Letters</b> A: 208/230V-1Ph-60Hz							
<b>Metering device</b> T: TXV							
<b>Communications</b> N: 24V Normal							
<b>Capacity</b> 24=24000BTU/h=2Ton; 36=36000BTU/h=3Ton; 48=48000BTU/h=4Ton; 60=60000BTU/h=5Ton.							

## 2. Dimensions

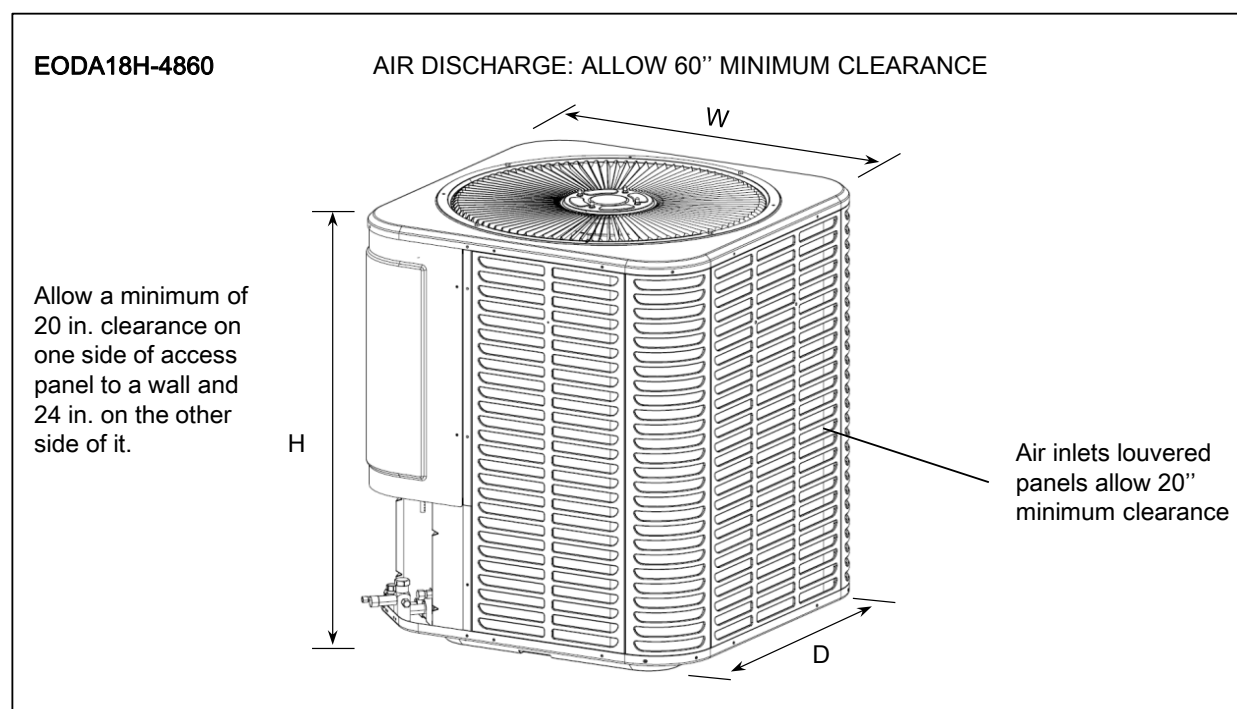
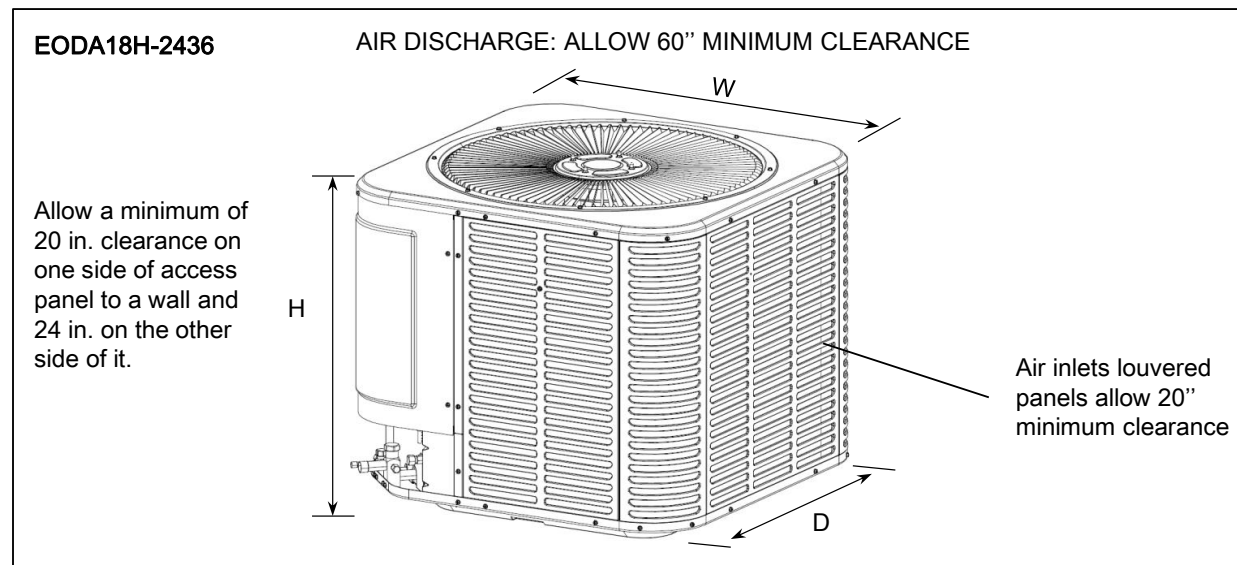


Figure 1 Condensing unit dimensions

Model	Dimensions (In. [mm])		
	H	W	D
EODA18H-2436	24-15/16 [633]	29-1/8 [740]	29-1/8 [740]
EODA18H-4860	33-3/16 [843]	29-1/8 [740]	29-1/8 [740]

### 3. Product Specifications

Model Name	EODA18H-2436	EODA18H-2436	EODA18H-4860	EODA18H-4860
ESI Combination	2Ton	3Ton	4Ton	5Ton
Indoor Unit Model	EAHATN-24	EAHATN-36	EAHATN-48	EAHATN-60
<b>Capacity <sup>1</sup></b>				
Cooling(BTU/h)	23400	34200	45000	54000
Heating(BTU/h)	24000	36000	47000	54000
<b>Operation limit <sup>2</sup></b>				
Cooling operation range	40~122°F	40~122°F	40~122°F	40~122°F
Heating operation range	-3~86°F	-3~86°F	-3~86°F	-3~86°F
<b>Compressor</b>				
RLA	17.5	17.5	24.0	24.0
LRA	45	45	58.1	58.1
<b>Condenser Fan Motor</b>				
Horse power(HP)	1/3	1/3	1/3	1/3
FLA	2.5	2.5	2.5	2.5
<b>Refrigeration System</b>				
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
<b>Charging Specifications</b>				
Superheat at Service Valve	8°F(±2°F)	8°F(±2°F)	8°F(±2°F)	8°F(±2°F)
Sub-cooling at Service Valve	10°F(±2°F)	10°F(±2°F)	8°F(±2°F)	8°F(±2°F)
<b>Electrical Data</b>				
Voltage-Phase-Hz	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
Minimum Circuit Ampacity <sup>3</sup>	24.4	24.4	32.5	32.5
Max. Over-current Protection <sup>4</sup>	40	40	50	50
Allowed Volts Range	187~253	187~253	187~253	187~253
<b>Decibels (dB) <sup>5</sup></b>	61	61	63	63
<b>Equipment Weight (lbs)</b>	157	157	192	192
<b>Ship Weight (lbs) <sup>6</sup></b>	187	187	225	225

#### Remarks:

1. Tested and rated in accordance with AHRI Standard 210/240.
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.

Model Name	EODA18H-4860	EODA18H-4860
<b>ESI Ultra Combination</b>	<b>Ultra 2Ton</b>	<b>Ultra 3Ton</b>
Indoor Unit Model	EAHATN-24	EAHATN-36
<b>Capacity</b> <sup>1</sup>		
Cooling(BTU/h)	24000	36000
Heating(BTU/h)	24000	36000
<b>Operation limit</b> <sup>2</sup>		
Cooling operation range	40~122°F	40~122°F
Heating operation range	-3~86°F	-3~86°F
<b>Compressor</b>		
RLA	24.0	24.0
LRA	58.1	58.1
<b>Condenser Fan Motor</b>		
Horsepower(HP)	1/3	1/3
FLA	2.5	2.5
<b>Refrigeration System</b>		
Refrigerant Line Size		
Liquid Line Size("O.D.)	3/8"	3/8"
Suction Line Size("O.D.)	7/8"	7/8"
Refrigerant Connection Size		
Liquid Line Size("O.D.)	3/8"	3/8"
Suction Line Size("O.D.)	7/8"	7/8"
Cooling Metering Device (Indoor Side)	TXV	TXV
Heating Metering Device	EEV	EEV
Maximum Line Length	100FT	100FT
Maximum Elevation Difference	50FT	50FT
<b>Charging Specifications</b>		
Superheat at Service Valve	8°F(±2°F)	8°F(±2°F)
Sub-cooling at Service Valve	10°F(±2°F)	10°F(±2°F)
<b>Electrical Data</b>		
Voltage-Phase-Hz	208/230-1-60	208/230-1-60
Minimum Circuit Ampacity <sup>3</sup>	32.5	32.5
Max. Over-current Protection <sup>4</sup>	50	50
Allowed Volts Range	187~253	187~253
<b>Decibels (dB)</b> <sup>5</sup>	63	63
<b>Equipment Weight (lbs)</b>	192	192
<b>Ship Weight (lbs)</b> <sup>6</sup>	225	225

**Remarks:**

1. Tested and rated in accordance with AHRI Standard 210/240.
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. Extended Performance Data

## COOLING-2TON

2TON SYSTEM-----EODA18H-2436+EAHATN-24																			
Indoor Airflow (CFM)	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	85
700	65	TC	17.6	17.7	17.8	17.9	20.8	20.9	21.1	21.2	24.1	24.2	24.4	24.5	-	27.5	27.6	27.8	
		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	0.84	0.84	0.85	0.86	1.04	1.04	1.05	1.06	1.25	1.26	1.27	1.28	-	1.49	1.50	1.51	
	75	TC	17.1	17.2	17.3	17.4	20.3	20.4	20.5	20.6	23.5	23.6	23.7	23.9	-	26.8	26.9	27.1	
		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	0.94	0.95	0.95	0.96	1.16	1.17	1.18	1.18	1.40	1.41	1.42	1.43	-	1.66	1.68	1.69	
	85	TC	16.7	16.8	16.9	17.0	19.8	19.9	20.0	20.1	22.8	23.0	23.1	23.2	-	26.1	26.2	26.4	
		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	1.06	1.06	1.07	1.08	1.30	1.31	1.32	1.33	1.57	1.58	1.59	1.60	-	1.86	1.88	1.89	
	95	TC	16.2	16.3	16.4	16.5	19.2	19.3	19.4	19.6	22.2	22.4	22.5	22.6	-	25.4	25.5	25.7	
		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	1.19	1.19	1.20	1.21	1.46	1.47	1.48	1.49	1.75	1.77	1.78	1.79	-	2.08	2.10	2.12	
	105	TC	15.8	15.9	15.9	16.0	18.7	18.8	18.9	19.0	21.6	21.7	21.9	22.0	-	24.7	24.8	24.9	
		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	1.32	1.33	1.34	1.35	1.63	1.64	1.65	1.66	1.96	1.97	1.96	2.00	-	2.32	2.34	2.36	
	115	TC	15.3	15.4	15.5	15.6	18.2	18.3	18.4	18.5	21.0	21.1	21.2	21.4	-	23.8	24.0	24.1	
		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	1.47	1.48	1.49	1.50	1.81	1.82	1.84	1.85	2.17	2.19	2.17	2.22	-	2.56	2.58	2.59	
	800	65	TC	18.3	18.4	18.5	18.6	21.7	21.8	21.9	22.0	25.1	25.2	25.4	25.5	-	28.6	28.8	28.9
			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	0.87	0.87	0.88	0.89	1.08	1.08	1.09	1.10	1.30	1.31	1.32	1.33	-	1.55	1.56	1.57
		75	TC	17.8	17.9	18.0	18.1	21.1	21.2	21.4	21.5	24.4	24.6	24.7	24.8	-	27.9	28.0	28.2
			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	0.97	0.98	0.99	0.99	1.20	1.21	1.22	1.23	1.45	1.46	1.47	1.48	-	1.73	1.74	1.76
85		TC	17.4	17.5	17.6	17.6	20.6	20.7	20.8	20.9	23.8	23.9	24.1	24.2	-	27.1	27.3	27.5	
		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	1.09	1.10	1.11	1.12	1.35	1.36	1.37	1.38	1.63	1.64	1.65	1.66	-	1.94	1.95	1.97	
95		TC	16.9	17.0	17.1	17.2	20.0	20.1	20.2	20.4	23.1	23.3	23.4	23.5	-	26.4	26.6	26.7	
		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	1.23	1.24	1.24	1.25	1.51	1.53	1.54	1.55	1.82	1.84	1.85	1.86	-	2.17	2.18	2.20	
105		TC	16.4	16.5	16.6	16.7	19.5	19.6	19.7	19.8	22.5	22.6	22.8	22.9	-	25.7	25.8	26.0	
		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	1.37	1.38	1.39	1.40	1.69	1.70	1.71	1.73	2.03	2.05	2.06	2.08	-	2.42	2.43	2.45	
115		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	-	24.8	25.0	25.1	
		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	1.53	1.54	1.55	1.56	1.88	1.89	1.90	1.92	2.25	2.27	2.29	2.30	-	2.66	2.68	2.70	
900		65	TC	19.0	19.1	19.2	19.3	22.5	22.6	22.7	22.8	26.0	26.1	26.3	26.4	-	29.6	29.8	30.0
			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	0.90	0.90	0.91	0.92	1.11	1.12	1.13	1.14	1.34	1.35	1.36	1.37	-	1.61	1.62	1.63
		75	TC	18.5	18.6	18.7	18.8	21.9	22.0	22.1	22.3	25.3	25.4	25.6	25.7	-	28.9	29.0	29.2
			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	1.01	1.01	1.02	1.03	1.24	1.25	1.26	1.27	1.50	1.51	1.53	1.54	-	1.79	1.81	1.82
	85	TC	18.0	18.1	18.2	18.3	21.3	21.4	21.5	21.7	24.6	24.8	24.9	25.1	-	28.1	28.3	28.4	
		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	1.13	1.14	1.14	1.15	1.40	1.41	1.42	1.43	1.69	1.70	1.71	1.72	-	2.01	2.02	2.04	
	95	TC	17.5	17.6	17.7	17.8	20.7	20.8	21.0	21.1	24.0	24.1	24.2	24.4	-	27.4	27.5	27.7	
		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	1.27	1.28	1.28	1.29	1.56	1.58	1.59	1.60	1.89	1.90	1.91	1.93	-	2.25	2.26	2.28	
	105	TC	17.0	17.1	17.2	17.3	20.2	20.3	20.4	20.5	23.3	23.4	23.6	23.7	-	26.6	26.8	26.9	
		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	1.42	1.42	1.43	1.44	1.75	1.76	1.77	1.78	2.10	2.12	2.13	2.15	-	2.50	2.52	2.54	
	115	TC	16.5	16.6	16.7	16.8	19.6	19.7	19.8	19.9	22.6	22.8	22.9	23.0	-	25.7	25.9	26.0	
		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	1.57	1.58	1.59	1.61	1.94	1.95	1.97	1.98	2.33	2.35	2.37	2.38	-	2.75	2.77	2.79	

COOLING-3TON

3TON SYSTEM-----EODA18H-2436+EAHATN-36																			
Indoor Airflow (CFM)	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	85
1040	65	TC	26.1	26.2	26.4	26.5	30.9	31.1	31.3	31.4	35.7	35.9	36.1	36.3	-	40.8	41.0	41.3	
		S/T	0.68	0.84	0.93	0.98	0.55	0.69	0.81	0.91	0.43	0.57	0.69	0.80	-	0.45	0.58	0.69	
		KW	1.40	1.41	1.42	1.43	1.73	1.74	1.76	1.77	2.09	2.10	2.12	2.14	-	2.49	2.51	2.53	
	75	TC	25.4	25.6	25.7	25.8	30.1	30.3	30.5	30.6	34.8	35.0	35.2	35.4	-	39.7	40.0	40.2	
		S/T	0.70	0.86	0.95	0.98	0.57	0.71	0.83	0.93	0.44	0.58	0.71	0.82	-	0.46	0.59	0.71	
		KW	1.57	1.58	1.59	1.60	1.94	1.95	1.97	1.98	2.34	2.35	2.37	2.39	-	2.78	2.80	2.83	
	85	TC	24.7	24.9	25.0	25.2	29.3	29.5	29.7	29.8	33.9	34.1	34.3	34.5	-	38.7	38.9	39.1	
		S/T	0.72	0.89	0.98	0.98	0.58	0.73	0.85	0.96	0.45	0.60	0.73	0.84	-	0.47	0.61	0.73	
		KW	1.76	1.78	1.79	1.80	2.18	2.19	2.21	2.22	2.62	2.64	2.66	2.68	-	3.12	3.14	3.16	
	95	TC	24.1	24.2	24.3	24.5	28.5	28.7	28.9	29.0	33.0	33.2	33.4	33.5	-	37.7	37.9	38.1	
		S/T	0.74	0.91	0.98	0.98	0.60	0.75	0.88	0.98	0.46	0.61	0.75	0.87	-	0.49	0.63	0.75	
		KW	1.98	1.99	2.01	2.02	2.44	2.46	2.47	2.49	2.93	2.96	2.98	3.00	-	3.49	3.51	3.54	
	105	TC	23.4	23.5	23.7	23.8	27.7	27.9	28.0	28.2	32.1	32.3	32.4	32.6	-	36.6	36.8	37.0	
		S/T	0.76	0.94	0.98	0.98	0.61	0.77	0.90	0.98	0.48	0.63	0.77	0.89	-	0.50	0.64	0.77	
		KW	2.21	2.23	2.24	2.26	2.72	2.74	2.76	2.78	3.27	3.30	3.29	3.34	-	3.89	3.92	3.94	
	115	TC	22.7	22.9	23.0	23.1	26.9	27.1	27.2	27.4	31.2	31.3	31.5	31.7	-	35.6	35.8	36.0	
		S/T	0.78	0.96	0.98	0.98	0.63	0.79	0.93	0.98	0.49	0.65	0.80	0.92	-	0.52	0.66	0.79	
		KW	2.46	2.48	2.49	2.51	3.03	3.05	3.07	3.09	3.63	3.66	3.65	3.71	-	4.31	4.34	4.37	
	1130	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	1.43	1.44	1.45	1.46	1.77	1.79	1.80	1.81	2.14	2.16	2.17	2.19	-	2.55	2.57	2.59
		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	1.61	1.62	1.63	1.64	1.99	2.00	2.01	2.03	2.39	2.41	2.43	2.45	-	2.85	2.88	2.90
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	1.80	1.82	1.83	1.84	2.23	2.24	2.26	2.28	2.68	2.70	2.72	2.74	-	3.20	3.22	3.24	
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	2.02	2.04	2.05	2.07	2.50	2.51	2.53	2.55	3.01	3.03	3.05	3.07	-	3.58	3.60	3.63	
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	2.26	2.28	2.29	2.31	2.79	2.81	2.83	2.85	3.35	3.38	3.40	3.42	-	3.98	4.01	4.04	
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	2.51	2.53	2.55	2.57	3.10	3.12	3.14	3.16	3.72	3.74	3.77	3.80	-	4.41	4.45	4.48	
1240		65	TC	27.5	27.6	27.8	28.0	32.6	32.8	32.9	33.1	37.7	37.9	38.1	38.3	-	43.0	43.2	43.5
			S/T	0.72	0.89	0.98	1.03	0.58	0.73	0.85	0.96	0.45	0.60	0.73	0.84	-	0.47	0.61	0.73
			KW	1.47	1.48	1.49	1.50	1.82	1.83	1.85	1.86	2.20	2.22	2.23	2.25	-	2.63	2.65	2.67
		75	TC	26.8	26.9	27.1	27.2	31.7	31.9	32.1	32.3	36.7	36.9	37.1	37.3	-	41.9	42.1	42.4
			S/T	0.74	0.91	1.00	1.03	0.60	0.75	0.88	0.98	0.46	0.61	0.75	0.87	-	0.49	0.63	0.75
			KW	1.65	1.66	1.67	1.68	2.04	2.05	2.07	2.08	2.46	2.48	2.50	2.52	-	2.94	2.96	2.98
	85	TC	26.1	26.2	26.4	26.5	30.9	31.1	31.3	31.4	35.7	35.9	36.1	36.3	-	40.8	41.0	41.3	
		S/T	0.76	0.93	1.03	1.03	0.61	0.77	0.90	1.01	0.48	0.63	0.77	0.89	-	0.50	0.64	0.77	
		KW	1.85	1.86	1.87	1.89	2.29	2.30	2.32	2.34	2.76	2.78	2.80	2.82	-	3.29	3.31	3.34	
	95	TC	25.4	25.5	25.7	25.8	30.1	30.2	30.4	30.6	34.8	35.0	35.2	35.4	-	39.7	39.9	40.1	
		S/T	0.78	0.96	1.03	1.03	0.63	0.79	0.93	1.03	0.49	0.65	0.79	0.92	-	0.51	0.66	0.79	
		KW	2.07	2.09	2.10	2.12	2.56	2.58	2.60	2.62	3.09	3.11	3.13	3.16	-	3.68	3.70	3.73	
	105	TC	24.7	24.8	24.9	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	0.80	0.99	1.03	1.03	0.65	0.81	0.95	1.03	0.50	0.67	0.81	0.94	-	0.53	0.68	0.81	
		KW	2.32	2.33	2.35	2.37	2.86	2.88	2.90	2.92	3.44	3.47	3.49	3.52	-	4.10	4.13	4.16	
	115	TC	24.0	24.1	24.2	24.4	28.4	28.6	28.7	28.9	32.8	33.0	33.2	33.4	-	37.5	37.7	37.9	
		S/T	0.83	1.02	1.03	1.03	0.67	0.83	0.98	1.03	0.52	0.69	0.84	0.97	-	0.54	0.70	0.84	
		KW	2.58	2.59	2.61	2.63	3.17	3.20	3.22	3.24	3.82	3.84	3.87	3.90	-	4.54	4.57	4.60	

**COOLING-4TON**

4TON SYSTEM-----EODA18H-4860+EAHATN-48																			
Indoor Airflow (CFM)	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	
1400	65	TC	34.5	34.7	34.8	35.0	40.8	41.1	41.3	41.5	47.2	47.5	47.8	48.0	-	53.9	54.2	54.5	
		S/T	0.68	0.83	0.92	0.98	0.55	0.68	0.80	0.90	0.42	0.56	0.69	0.79	-	0.45	0.57	0.69	
		KW	1.73	1.75	1.76	1.77	2.14	2.16	2.17	2.19	2.59	2.61	2.62	2.64	-	3.08	3.11	3.13	
	75	TC	33.6	33.8	34.0	34.1	39.8	40.0	40.2	40.5	46.0	46.3	46.5	46.8	-	52.5	52.8	53.1	
		S/T	0.69	0.86	0.94	0.98	0.56	0.70	0.82	0.92	0.43	0.58	0.71	0.82	-	0.46	0.59	0.70	
		KW	1.94	1.96	1.97	1.98	2.40	2.42	2.43	2.45	2.89	2.91	2.94	2.96	-	3.45	3.47	3.50	
	85	TC	32.7	32.9	33.1	33.2	38.7	39.0	39.2	39.4	44.8	45.1	45.3	45.6	-	51.1	51.4	51.7	
		S/T	0.71	0.88	0.97	0.98	0.58	0.72	0.85	0.95	0.45	0.59	0.72	0.84	-	0.47	0.60	0.72	
		KW	2.18	2.20	2.21	2.23	2.69	2.71	2.73	2.75	3.24	3.27	3.29	3.32	-	3.86	3.89	3.92	
	95	TC	31.8	32.0	32.2	32.3	37.7	37.9	38.1	38.3	43.6	43.8	44.1	44.3	-	49.8	50.0	50.3	
		S/T	0.73	0.90	0.98	0.98	0.59	0.74	0.87	0.98	0.46	0.61	0.74	0.86	-	0.48	0.62	0.74	
		KW	2.45	2.47	2.48	2.50	3.02	3.04	3.06	3.08	3.63	3.66	3.68	3.71	-	4.32	4.35	4.38	
	105	TC	30.9	31.1	31.3	31.4	36.7	36.9	37.1	37.3	42.4	42.6	42.9	43.1	-	48.4	48.6	48.9	
		S/T	0.75	0.93	0.98	0.98	0.61	0.76	0.89	0.98	0.47	0.63	0.77	0.89	-	0.50	0.64	0.77	
		KW	2.74	2.76	2.78	2.79	3.37	3.40	3.42	3.44	4.05	4.08	4.08	4.14	-	4.81	4.85	4.88	
	115	TC	30.0	30.2	30.4	30.5	35.6	35.8	36.0	36.2	41.2	41.4	41.6	41.9	-	47.0	47.3	47.5	
		S/T	0.78	0.96	0.98	0.98	0.63	0.78	0.92	0.98	0.49	0.64	0.79	0.91	-	0.51	0.66	0.79	
		KW	3.04	3.07	3.09	3.11	3.74	3.77	3.80	3.82	4.49	4.53	4.53	4.59	-	5.33	5.37	5.41	
	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	0.69	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	1.77	1.78	1.79	1.80	2.19	2.20	2.22	2.23	2.64	2.66	2.68	2.70	-	3.15	3.17	3.20
		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	0.71	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	1.98	1.99	2.01	2.02	2.45	2.46	2.48	2.50	2.95	2.97	3.00	3.02	-	3.52	3.55	3.57
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	0.73	0.90	0.99	1.00	0.59	0.74	0.86	0.97	0.46	0.60	0.74	0.85	-	0.48	0.62	0.74	
		KW	2.22	2.24	2.25	2.27	2.75	2.77	2.79	2.81	3.31	3.33	3.36	3.38	-	3.94	3.97	4.00	
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	0.75	0.92	1.00	1.00	0.60	0.76	0.89	1.00	0.47	0.62	0.76	0.88	-	0.49	0.63	0.76	
		KW	2.49	2.51	2.53	2.55	3.08	3.10	3.12	3.14	3.70	3.73	3.76	3.79	-	4.41	4.44	4.47	
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	0.77	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	2.79	2.81	2.83	2.85	3.44	3.46	3.48	3.51	4.13	4.16	4.19	4.22	-	4.91	4.95	4.98	
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	0.79	0.98	1.00	1.00	0.64	0.80	0.94	1.00	0.50	0.66	0.81	0.93	-	0.52	0.67	0.80	
		KW	3.10	3.12	3.14	3.16	3.82	3.84	3.87	3.90	4.58	4.62	4.65	4.68	-	5.44	5.48	5.52	
1590		65	TC	35.8	36.0	36.2	36.4	42.4	42.7	42.9	43.1	49.1	49.3	49.6	49.9	-	56.0	56.3	56.6
			S/T	0.70	0.87	0.95	1.02	0.57	0.71	0.83	0.94	0.44	0.58	0.71	0.83	-	0.46	0.60	0.71
			KW	1.79	1.81	1.82	1.83	2.22	2.24	2.25	2.27	2.68	2.70	2.72	2.75	-	3.21	3.23	3.25
		75	TC	34.9	35.1	35.3	35.5	41.3	41.6	41.8	42.0	47.8	48.1	48.3	48.6	-	54.6	54.9	55.2
			S/T	0.72	0.89	0.98	1.02	0.58	0.73	0.86	0.96	0.45	0.60	0.73	0.85	-	0.47	0.61	0.73
			KW	2.01	2.02	2.04	2.05	2.49	2.51	2.52	2.54	3.00	3.02	3.05	3.07	-	3.58	3.61	3.64
	85	TC	34.0	34.2	34.3	34.5	40.3	40.5	40.7	40.9	46.5	46.8	47.1	47.3	-	53.1	53.4	53.7	
		S/T	0.74	0.91	1.00	1.02	0.60	0.75	0.88	0.99	0.46	0.62	0.75	0.87	-	0.49	0.63	0.75	
		KW	2.26	2.27	2.29	2.31	2.79	2.81	2.83	2.85	3.37	3.39	3.42	3.44	-	4.01	4.04	4.07	
	95	TC	33.0	33.2	33.4	33.6	39.2	39.4	39.6	39.8	45.3	45.5	45.8	46.0	-	51.7	52.0	52.3	
		S/T	0.76	0.94	1.02	1.02	0.61	0.77	0.90	1.01	0.48	0.63	0.77	0.89	-	0.50	0.65	0.77	
		KW	2.53	2.55	2.57	2.59	3.13	3.15	3.17	3.20	3.77	3.80	3.82	3.85	-	4.49	4.52	4.55	
	105	TC	32.1	32.3	32.5	32.7	38.1	38.3	38.5	38.7	44.0	44.3	44.5	44.8	-	50.3	50.5	50.8	
		S/T	0.78	0.97	1.02	1.02	0.63	0.79	0.93	1.02	0.49	0.65	0.80	0.92	-	0.52	0.66	0.79	
		KW	2.83	2.85	2.87	2.89	3.49	3.52	3.54	3.57	4.20	4.23	4.26	4.29	-	5.00	5.03	5.07	
	115	TC	31.2	31.4	31.6	31.7	37.0	37.2	37.4	37.6	42.8	43.0	43.2	43.5	-	48.8	49.1	49.4	
		S/T	0.81	0.99	1.02	1.02	0.65	0.81	0.96	1.02	0.51	0.67	0.82	0.95	-	0.53	0.68	0.82	
		KW	3.15	3.17	3.19	3.21	3.88	3.90	3.93	3.96	4.66	4.69	4.73	4.76	-	5.54	5.58	5.62	



COOLING-5TON

5TON SYSTEM-----EODA18H-4860+EAHATN-60																			
Indoor Airflow (CFM)	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	85
1500	65	TC	41.5	41.7	41.9	42.2	49.2	49.4	49.7	50.0	56.8	57.2	57.5	57.8	-	64.9	65.3	65.6	
		S/T	0.65	0.80	0.88	0.97	0.53	0.66	0.77	0.87	0.41	0.54	0.66	0.77	-	0.43	0.55	0.66	
		KW	2.39	2.41	2.43	2.44	2.96	2.98	3.00	3.03	3.57	3.60	3.63	3.65	-	4.26	4.29	4.33	
	75	TC	40.4	40.6	40.9	41.1	47.9	48.2	48.4	48.7	55.4	55.7	56.0	56.3	-	63.2	63.6	63.9	
		S/T	0.67	0.82	0.91	0.98	0.54	0.68	0.79	0.89	0.42	0.56	0.68	0.79	-	0.44	0.57	0.68	
		KW	2.68	2.70	2.72	2.74	3.32	3.34	3.36	3.39	4.00	4.03	4.06	4.09	-	4.76	4.80	4.83	
	85	TC	39.4	39.6	39.8	40.0	46.6	46.9	47.2	47.4	53.9	54.2	54.5	54.8	-	61.6	61.9	62.3	
		S/T	0.69	0.85	0.93	0.98	0.55	0.69	0.82	0.91	0.43	0.57	0.70	0.81	-	0.45	0.58	0.70	
		KW	3.02	3.04	3.06	3.08	3.72	3.75	3.78	3.80	4.48	4.52	4.55	4.58	-	5.34	5.38	5.42	
	95	TC	38.3	38.5	38.7	38.9	45.4	45.6	45.9	46.1	52.5	52.8	53.1	53.4	-	59.9	60.2	60.6	
		S/T	0.71	0.87	0.96	0.98	0.57	0.71	0.84	0.94	0.44	0.59	0.72	0.83	-	0.46	0.60	0.72	
		KW	3.38	3.41	3.43	3.45	4.17	4.20	4.23	4.26	5.02	5.06	5.09	5.13	-	5.97	6.01	6.06	
	105	TC	37.2	37.4	37.6	37.9	44.1	44.4	44.6	44.9	51.0	51.3	51.6	51.9	-	58.2	58.6	58.9	
		S/T	0.73	0.90	0.98	0.98	0.59	0.73	0.86	0.97	0.46	0.60	0.74	0.85	-	0.48	0.62	0.74	
		KW	3.78	3.81	3.83	3.86	4.66	4.69	4.72	4.76	5.60	5.64	5.65	5.72	-	6.65	6.70	6.75	
	115	TC	36.2	36.4	36.6	36.8	42.9	43.1	43.3	43.6	48.1	48.4	48.7	49.0	-	49.3	49.5	49.8	
		S/T	0.75	0.92	0.98	0.98	0.60	0.76	0.89	0.98	0.47	0.62	0.76	0.88	-	0.49	0.63	0.76	
		KW	4.21	4.23	4.26	4.29	5.17	5.21	5.25	5.28	5.99	6.03	6.04	6.11	-	6.16	6.21	6.25	
	1590	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	0.66	0.82	0.90	0.99	0.54	0.67	0.79	0.88	0.42	0.55	0.67	0.78	-	0.44	0.56	0.67
			KW	2.43	2.45	2.47	2.48	3.01	3.03	3.05	3.08	3.64	3.66	3.69	3.72	-	4.34	4.37	4.40
		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	0.68	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	2.73	2.75	2.76	2.78	3.37	3.40	3.42	3.44	4.07	4.10	4.13	4.16	-	4.85	4.88	4.92
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	0.70	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	3.06	3.08	3.11	3.13	3.78	3.81	3.84	3.86	4.56	4.59	4.63	4.66	-	5.43	5.47	5.51	
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	0.72	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	3.44	3.46	3.48	3.51	4.24	4.27	4.30	4.33	5.10	5.14	5.18	5.22	-	6.07	6.12	6.16	
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	0.74	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	3.84	3.87	3.89	3.92	4.73	4.77	4.80	4.83	5.69	5.73	5.77	5.82	-	6.77	6.82	6.87	
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	0.76	0.94	1.00	1.00	0.61	0.77	0.90	1.00	0.48	0.63	0.77	0.89	-	0.50	0.65	0.77	
		KW	4.27	4.30	4.33	4.36	5.26	5.29	5.33	5.37	6.08	6.13	6.17	6.22	-	6.27	6.31	6.36	
1700		65	TC	43.1	43.3	43.6	43.8	51.0	51.3	51.6	51.9	59.0	59.4	59.7	60.0	-	67.4	67.8	68.1
			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	2.48	2.49	2.51	2.53	3.07	3.09	3.11	3.14	3.71	3.74	3.76	3.79	-	4.43	4.46	4.50
		75	TC	42.0	42.2	42.4	42.7	49.7	50.0	50.3	50.6	57.5	57.8	58.2	58.5	-	65.6	66.0	66.4
			S/T	0.70	0.86	0.94	1.02	0.56	0.70	0.82	0.92	0.44	0.58	0.71	0.82	-	0.46	0.59	0.71
			KW	2.78	2.80	2.81	2.83	3.44	3.46	3.49	3.51	4.15	4.18	4.21	4.24	-	4.95	4.98	5.02
	85	TC	40.9	41.1	41.3	41.6	48.4	48.7	49.0	49.2	56.0	56.3	56.6	56.9	-	63.9	64.3	64.6	
		S/T	0.71	0.88	0.97	1.02	0.58	0.72	0.85	0.95	0.45	0.59	0.73	0.84	-	0.47	0.60	0.72	
		KW	3.12	3.14	3.16	3.18	3.86	3.88	3.91	3.94	4.65	4.68	4.72	4.75	-	5.54	5.58	5.62	
	95	TC	39.8	40.0	40.2	40.4	47.1	47.4	47.6	47.9	54.5	54.8	55.1	55.4	-	62.2	62.5	62.9	
		S/T	0.73	0.90	0.99	1.02	0.59	0.74	0.87	0.98	0.46	0.61	0.75	0.86	-	0.48	0.62	0.74	
		KW	3.50	3.52	3.55	3.57	4.32	4.35	4.38	4.41	5.20	5.24	5.28	5.32	-	6.20	6.24	6.29	
	105	TC	38.7	38.9	39.1	39.3	45.8	46.1	46.3	46.6	53.0	53.3	53.6	53.9	-	60.5	60.8	61.1	
		S/T	0.75	0.93	1.02	1.02	0.61	0.76	0.90	1.00	0.47	0.63	0.77	0.89	-	0.50	0.64	0.77	
		KW	3.91	3.94	3.96	3.99	4.82	4.86	4.89	4.92	5.80	5.84	5.89	5.93	-	6.90	6.95	7.00	
	115	TC	37.5	37.8	38.0	38.2	44.5	44.8	45.0	45.3	50.0	50.3	50.5	50.8	-	51.2	51.4	51.7	
		S/T	0.78	0.96	1.02	1.02	0.63	0.78	0.92	1.02	0.49	0.64	0.79	0.91	-	0.51	0.66	0.79	
		KW	4.35	4.38	4.41	4.43	5.35	5.39	5.43	5.47	6.20	6.25	6.29	6.33	-	6.39	6.43	6.48	

**COOLING-ULTRA 2TON**

Hyper Heating 2TON SYSTEM-----EODA18H-4860+EAHATN-24																			
Indoor Airflow (CFM)	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	85
700	65	TC	18.0	18.1	18.2	18.3	21.4	21.5	21.6	21.7	24.7	24.8	25.0	25.1	-	28.2	28.4	28.5	
		S/T	0.64	0.79	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	0.80	0.81	0.81	0.82	0.99	1.00	1.01	1.01	1.19	1.20	1.21	1.22	-	1.42	1.43	1.44	
	75	TC	17.6	17.7	17.8	17.9	20.8	20.9	21.0	21.2	24.1	24.2	24.3	24.5	-	27.5	27.6	27.8	
		S/T	0.65	0.81	0.89	0.96	0.53	0.66	0.78	0.87	0.41	0.54	0.66	0.77	-	0.43	0.55	0.66	
		kW	0.90	0.91	0.91	0.92	1.11	1.12	1.13	1.13	1.34	1.35	1.36	1.37	-	1.59	1.60	1.61	
	85	TC	17.1	17.2	17.3	17.4	20.3	20.4	20.5	20.6	23.4	23.6	23.7	23.8	-	26.8	26.9	27.0	
		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	1.01	1.02	1.02	1.03	1.25	1.25	1.26	1.27	1.50	1.51	1.52	1.53	-	1.78	1.80	1.81	
	95	TC	16.6	16.7	16.8	16.9	19.7	19.8	19.9	20.1	22.8	22.9	23.1	23.2	-	26.0	26.2	26.3	
		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	1.13	1.14	1.15	1.16	1.40	1.41	1.42	1.43	1.68	1.69	1.70	1.71	-	1.99	2.01	2.02	
	105	TC	16.2	16.3	16.4	16.4	19.2	19.3	19.4	19.5	22.2	22.3	22.4	22.5	-	25.3	25.4	25.6	
		S/T	0.71	0.88	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	1.27	1.28	1.28	1.29	1.56	1.57	1.58	1.59	1.87	1.89	1.87	1.91	-	2.22	2.24	2.26	
	115	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	0.73	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	1.41	1.42	1.43	1.44	1.73	1.74	1.76	1.77	2.08	2.09	2.08	2.12	-	2.46	2.48	2.50	
	800	65	TC	18.8	18.9	19.0	19.1	22.2	22.4	22.5	22.6	25.7	25.9	26.0	26.1	-	29.3	29.5	29.7
			S/T	0.66	0.82	0.90	0.99	0.54	0.67	0.79	0.88	0.42	0.55	0.67	0.78	-	0.44	0.56	0.67
			kW	0.83	0.84	0.84	0.85	1.03	1.04	1.04	1.05	1.24	1.25	1.26	1.27	-	1.48	1.49	1.50
		75	TC	18.3	18.4	18.5	18.6	21.7	21.8	21.9	22.0	25.1	25.2	25.3	25.5	-	28.6	28.8	28.9
			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	0.93	0.94	0.94	0.95	1.15	1.16	1.17	1.18	1.39	1.40	1.41	1.42	-	1.66	1.67	1.68
85		TC	17.8	17.9	18.0	18.1	21.1	21.2	21.3	21.5	24.4	24.5	24.7	24.8	-	27.8	28.0	28.2	
		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	1.05	1.05	1.06	1.07	1.29	1.30	1.31	1.32	1.56	1.57	1.58	1.59	-	1.86	1.87	1.88	
95		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	0.72	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	1.17	1.18	1.19	1.20	1.45	1.46	1.47	1.48	1.74	1.76	1.77	1.78	-	2.08	2.09	2.11	
105		TC	16.8	16.9	17.0	17.1	20.0	20.1	20.2	20.3	23.1	23.2	23.3	23.5	-	26.3	26.5	26.6	
		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	1.31	1.32	1.33	1.34	1.62	1.63	1.64	1.65	1.94	1.96	1.97	1.99	-	2.31	2.33	2.35	
115		TC	16.4	16.4	16.5	16.6	19.4	19.5	19.6	19.7	22.4	22.5	22.7	22.8	-	25.6	25.7	25.9	
		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	0.65	0.77	
		kW	1.46	1.47	1.48	1.49	1.80	1.81	1.82	1.83	2.16	2.17	2.19	2.20	-	2.56	2.58	2.60	
900		65	TC	19.4	19.5	19.7	19.8	23.0	23.2	23.3	23.4	26.6	26.8	26.9	27.1	-	30.4	30.6	30.7
			S/T	0.69	0.85	0.93	1.02	0.55	0.69	0.82	0.91	0.43	0.57	0.70	0.81	-	0.45	0.58	0.70
			kW	0.86	0.86	0.87	0.88	1.06	1.07	1.08	1.09	1.29	1.30	1.31	1.32	-	1.54	1.55	1.56
		75	TC	18.9	19.0	19.2	19.3	22.4	22.6	22.7	22.8	26.0	26.1	26.2	26.4	-	29.6	29.8	30.0
			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	0.96	0.97	0.98	0.98	1.19	1.20	1.21	1.22	1.44	1.45	1.46	1.47	-	1.72	1.73	1.74
	85	TC	18.4	18.5	18.6	18.8	21.9	22.0	22.1	22.2	25.3	25.4	25.6	25.7	-	28.8	29.0	29.2	
		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	1.08	1.09	1.10	1.10	1.34	1.35	1.36	1.37	1.61	1.62	1.64	1.65	-	1.92	1.94	1.95	
	95	TC	17.9	18.0	18.1	18.2	21.3	21.4	21.5	21.6	24.6	24.7	24.9	25.0	-	28.1	28.2	28.4	
		S/T	0.75	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	1.21	1.22	1.23	1.24	1.50	1.51	1.52	1.53	1.80	1.82	1.83	1.84	-	2.15	2.17	2.18	
	105	TC	17.4	17.5	17.6	17.7	20.7	20.8	20.9	21.0	23.9	24.0	24.2	24.3	-	27.3	27.4	27.6	
		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	1.35	1.36	1.37	1.38	1.67	1.68	1.69	1.71	2.01	2.03	2.04	2.06	-	2.39	2.41	2.43	
	115	TC	16.9	17.0	17.1	17.2	20.1	20.2	20.3	20.4	23.2	23.4	23.5	23.6	-	26.5	26.7	26.8	
		S/T	0.79	0.97	1.04	1.04	0.64	0.80	0.94	1.04	0.49	0.65	0.80	0.93	-	0.52	0.67	0.80	
		kW	1.50	1.52	1.53	1.54	1.86	1.87	1.88	1.89	2.23	2.25	2.26	2.28	-	2.65	2.67	2.69	

*Note: ESI Ultra Units provide about 95% cooling capacity up to 115 °F outdoor ambient temperature.*

**COOLING-ULTRA 3TON**

Hyper Heating 3TON SYSTEM-----EODA18H-4860+EAHATN-36																			
Indoor Airflow (CFM)	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	85
1040	65	TC	27.5	27.6	27.8	27.9	32.5	32.7	32.9	33.1	37.6	37.8	38.0	38.3	-	42.9	43.2	43.4	
		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	1.23	1.23	1.24	1.25	1.52	1.53	1.54	1.55	1.83	1.84	1.86	1.87	-	2.18	2.20	2.21	
	75	TC	26.7	26.9	27.0	27.2	31.7	31.9	32.1	32.2	36.7	36.9	37.1	37.3	-	41.8	42.1	42.3	
		S/T	0.66	0.82	0.90	0.98	0.54	0.67	0.79	0.88	0.42	0.55	0.67	0.78	-	0.44	0.56	0.67	
		kW	1.37	1.38	1.39	1.40	1.70	1.71	1.72	1.73	2.05	2.06	2.08	2.09	-	2.44	2.45	2.47	
	85	TC	26.0	26.2	26.3	26.5	30.9	31.0	31.2	31.4	35.7	35.9	36.1	36.3	-	40.7	41.0	41.2	
		S/T	0.68	0.84	0.93	0.98	0.55	0.69	0.81	0.91	0.43	0.57	0.69	0.80	-	0.45	0.58	0.69	
		kW	1.54	1.56	1.57	1.58	1.91	1.92	1.93	1.95	2.29	2.31	2.33	2.34	-	2.73	2.75	2.77	
	95	TC	25.3	25.5	25.6	25.8	30.0	30.2	30.4	30.5	34.7	34.9	35.1	35.3	-	39.6	39.9	40.1	
		S/T	0.70	0.86	0.95	0.98	0.57	0.71	0.83	0.93	0.44	0.58	0.71	0.82	-	0.46	0.59	0.71	
		kW	1.73	1.74	1.76	1.77	2.14	2.15	2.17	2.18	2.57	2.59	2.61	2.62	-	3.05	3.08	3.10	
	105	TC	24.6	24.8	24.9	25.1	29.2	29.4	29.5	29.7	33.8	33.9	34.1	34.3	-	38.5	38.8	39.0	
		S/T	0.72	0.89	0.98	0.98	0.58	0.73	0.86	0.96	0.45	0.60	0.73	0.85	-	0.47	0.61	0.73	
		kW	1.94	1.95	1.96	1.98	2.39	2.40	2.42	2.44	2.87	2.89	2.88	2.93	-	3.40	3.43	3.45	
	115	TC	23.9	24.1	24.2	24.3	28.4	28.5	28.7	28.8	32.8	33.0	33.2	33.3	-	37.4	37.6	37.9	
		S/T	0.74	0.91	0.98	0.98	0.60	0.75	0.88	0.98	0.47	0.62	0.75	0.87	-	0.49	0.63	0.75	
		kW	2.15	2.17	2.18	2.20	2.65	2.67	2.69	2.70	3.18	3.20	3.20	3.25	-	3.77	3.80	3.83	
	1130	65	TC	28.1	28.3	28.5	28.6	33.4	33.5	33.7	33.9	38.6	38.8	39.0	39.2	-	44.0	44.3	44.5
			S/T	0.66	0.82	0.90	0.99	0.54	0.67	0.79	0.88	0.42	0.55	0.67	0.78	-	0.44	0.56	0.67
			kW	1.25	1.26	1.27	1.28	1.55	1.56	1.57	1.59	1.87	1.89	1.90	1.92	-	2.24	2.25	2.27
		75	TC	27.4	27.6	27.7	27.9	32.5	32.7	32.9	33.0	37.6	37.8	38.0	38.2	-	42.9	43.1	43.4
			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	1.41	1.42	1.42	1.43	1.74	1.75	1.76	1.78	2.10	2.11	2.13	2.14	-	2.50	2.52	2.54
85		TC	26.7	26.9	27.0	27.2	31.6	31.8	32.0	32.2	36.6	36.8	37.0	37.2	-	41.8	42.0	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	1.58	1.59	1.60	1.61	1.95	1.96	1.98	1.99	2.35	2.37	2.38	2.40	-	2.80	2.82	2.84	
95		TC	26.0	26.1	26.3	26.4	30.8	31.0	31.1	31.3	35.6	35.8	<b>36.0</b>	36.2	-	40.6	40.9	41.1	
		S/T	0.72	0.89	0.97	1.00	0.58	0.73	0.85	0.96	0.45	0.60	<b>0.73</b>	0.84	-	0.47	0.61	0.73	
		kW	1.77	1.78	1.80	1.81	2.19	2.20	2.22	2.23	2.63	2.65	<b>2.67</b>	2.69	-	3.13	3.15	3.18	
105		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	1.98	1.99	2.01	2.02	2.44	2.46	2.47	2.49	2.93	2.96	2.98	3.00	-	3.49	3.51	3.54	
115		TC	24.5	24.7	24.8	24.9	29.1	29.2	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	0.65	0.77	
		kW	2.20	2.22	2.23	2.25	2.71	2.73	2.75	2.77	3.25	3.28	3.30	3.32	-	3.86	3.89	3.92	
1240		65	TC	28.9	29.1	29.3	29.4	34.3	34.5	34.7	34.9	39.7	39.9	40.1	40.3	-	45.3	45.5	45.8
			S/T	0.68	0.84	0.93	1.01	0.55	0.69	0.81	0.91	0.43	0.57	0.69	0.80	-	0.45	0.58	0.69
			kW	1.29	1.29	1.30	1.31	1.59	1.61	1.62	1.63	1.93	1.94	1.96	1.97	-	2.30	2.32	2.34
		75	TC	28.2	28.4	28.5	28.7	33.4	33.6	33.8	34.0	38.6	38.9	39.1	39.3	-	44.1	44.4	44.6
			S/T	0.70	0.86	0.95	1.03	0.57	0.71	0.83	0.93	0.44	0.58	0.71	0.82	-	0.46	0.59	0.71
			kW	1.44	1.45	1.46	1.47	1.78	1.80	1.81	1.82	2.15	2.17	2.19	2.20	-	2.57	2.59	2.61
	85	TC	27.5	27.6	27.8	27.9	32.5	32.7	32.9	33.1	37.6	37.8	38.0	38.3	-	42.9	43.2	43.4	
		S/T	0.72	0.89	0.98	1.03	0.58	0.73	0.85	0.96	0.45	0.60	0.73	0.84	-	0.47	0.61	0.73	
		kW	1.62	1.63	1.64	1.65	2.00	2.02	2.03	2.04	2.41	2.43	2.45	2.47	-	2.88	2.90	2.92	
	95	TC	26.7	26.9	27.0	27.2	31.7	31.8	32.0	32.2	36.6	36.8	37.0	37.2	-	41.8	42.0	42.3	
		S/T	0.74	0.91	1.00	1.03	0.60	0.75	0.88	0.98	0.46	0.61	0.75	0.87	-	0.49	0.63	0.75	
		kW	1.82	1.83	1.84	1.85	2.24	2.26	2.27	2.29	2.70	2.72	2.74	2.76	-	3.22	3.24	3.27	
	105	TC	26.0	26.1	26.3	26.4	30.8	31.0	31.1	31.3	35.6	35.8	36.0	36.2	-	40.6	40.9	41.1	
		S/T	0.76	0.94	1.03	1.03	0.61	0.77	0.90	1.01	0.48	0.63	0.77	0.89	-	0.50	0.64	0.77	
		kW	2.03	2.04	2.06	2.07	2.50	2.52	2.54	2.56	3.01	3.04	3.06	3.08	-	3.59	3.61	3.64	
	115	TC	25.2	25.4	25.5	25.7	29.9	30.1	30.2	30.4	34.6	34.8	35.0	35.2	-	39.5	39.7	39.9	
		S/T	0.78	0.96	1.03	1.03	0.63	0.79	0.93	1.03	0.49	0.65	0.80	0.92	-	0.51	0.66	0.79	
		kW	2.26	2.27	2.29	2.30	2.78	2.80	2.82	2.84	3.34	3.37	3.39	3.41	-	3.97	4.00	4.03	

*Note: ESI Ultra Units provide about 95% cooling capacity up to 115 °F outdoor ambient temperature.*

**HEATING-2/3TON**

<b>2TON SYSTEM-----EODA18H-2436+EAHATN-24</b>													
INDOOR AIR		OUTDOOR AMBIENT TEMPERATURE(°F)											
		-3			7			17			27		
IDB(°F)	CFM	MBh	kw	COP	MBh	kw	COP	MBh	kw	COP	MBh	kw	COP
65	700	18.5	2.81	1.94	21.9	2.74	2.34	25.2	2.65	2.79	25.7	2.54	2.97
	800	19.3	2.95	1.92	22.8	2.88	2.32	26.2	2.78	2.76	26.8	2.67	2.94
	900	20.0	3.08	1.90	23.6	3.00	2.30	27.2	2.91	2.74	27.8	2.79	2.91
70	700	16.6	2.46	1.98	19.6	2.40	2.39	22.6	2.32	2.85	23.1	2.23	3.03
	800	17.3	2.58	1.97	20.4	2.52	2.38	23.5	2.44	2.83	24.0	2.34	3.01
	900	17.9	2.69	1.95	21.1	2.63	2.36	24.4	2.54	2.81	24.9	2.44	2.99
75	700	14.7	2.13	2.02	17.3	2.08	2.44	20.0	2.01	2.91	20.4	1.93	3.09
	800	15.3	2.23	2.01	18.0	2.18	2.43	20.8	2.11	2.89	21.2	2.02	3.07
	900	15.8	2.32	2.00	18.7	2.27	2.41	21.5	2.20	2.87	22.0	2.11	3.06

<b>2TON SYSTEM-----EODA18H-2436+EAHATN-24</b>													
INDOOR AIR		OUTDOOR AMBIENT TEMPERATURE(°F)											
		37			47			57			67		
IDB(°F)	CFM	MBh	kw	COP	MBh	kw	COP	MBh	kw	COP	MBh	kw	COP
65	700	25.7	2.41	3.13	25.7	2.25	3.35	25.7	2.06	3.67	25.7	1.82	4.16
	800	26.8	2.53	3.10	26.8	2.36	3.32	26.8	2.16	3.64	26.8	1.91	4.12
	900	27.8	2.65	3.07	27.8	2.47	3.29	27.8	2.26	3.61	27.8	1.99	4.09
70	700	23.1	2.11	3.20	23.1	1.97	3.42	23.1	1.80	3.75	23.1	1.59	4.25
	800	24.0	2.22	3.17	24.0	2.07	3.40	24.0	1.89	3.72	24.0	1.67	4.22
	900	24.9	2.31	3.15	24.9	2.16	3.37	24.9	1.97	3.69	24.9	1.74	4.19
75	700	20.4	1.83	3.26	20.4	1.71	3.49	20.4	1.56	3.83	20.4	1.38	4.34
	800	21.2	1.92	3.24	21.2	1.79	3.47	21.2	1.63	3.80	21.2	1.44	4.31
	900	22.0	2.00	3.22	22.0	1.86	3.45	22.0	1.70	3.78	22.0	1.50	4.28

<b>3TON SYSTEM-----EODA18H-2436+EAHATN-36</b>													
INDOOR AIR		OUTDOOR AMBIENT TEMPERATURE(°F)											
		-3			7			17			27		
IDB(°F)	CFM	MBh	kw	COP	MBh	kw	COP	MBh	kw	COP	MBh	kw	COP
65	1040	22.4	4.45	1.47	26.4	4.34	1.78	30.4	4.20	2.12	34.4	4.03	2.50
	1130	22.9	4.58	1.47	27.0	4.47	1.77	31.2	4.33	2.11	35.3	4.16	2.49
	1240	23.6	4.74	1.46	27.8	4.63	1.76	32.0	4.48	2.09	36.3	4.30	2.47
70	1040	20.0	3.89	1.51	23.6	3.80	1.82	27.2	3.68	2.17	30.8	3.53	2.56
	1130	20.5	4.01	1.50	24.2	3.92	1.81	27.9	3.79	2.16	31.6	3.64	2.55
	1240	21.1	4.15	1.49	24.9	4.05	1.80	28.7	3.92	2.15	32.5	3.76	2.53
75	1040	17.7	3.37	1.54	20.9	3.29	1.86	24.1	3.19	2.21	27.2	3.06	2.61
	1130	18.1	3.47	1.53	21.4	3.39	1.85	24.7	3.28	2.21	27.9	3.15	2.60
	1240	18.7	3.58	1.53	22.0	3.50	1.85	25.4	3.39	2.20	28.7	3.25	2.59

<b>3TON SYSTEM-----EODA18H-2436+EAHATN-36</b>													
INDOOR AIR		OUTDOOR AMBIENT TEMPERATURE(°F)											
		37			47			57			67		
IDB(°F)	CFM	MBh	kw	COP	MBh	kw	COP	MBh	kw	COP	MBh	kw	COP
65	1040	38.4	3.82	2.95	39.2	3.57	3.22	39.2	3.26	3.53	39.2	2.88	3.99
	1130	39.4	3.94	2.93	40.2	3.68	3.20	40.2	3.36	3.51	40.2	2.97	3.97
	1240	40.5	4.08	2.91	41.3	3.81	3.18	41.3	3.48	3.48	41.3	3.07	3.95
70	1040	34.4	3.35	3.01	35.1	3.13	3.29	35.1	2.85	3.61	35.1	2.52	4.08
	1130	35.3	3.45	3.00	36.0	3.22	3.28	36.0	2.94	3.59	36.0	2.60	4.07
	1240	36.3	3.57	2.98	37.0	3.33	3.26	37.0	3.04	3.57	37.0	2.68	4.04
75	1040	30.4	2.90	3.08	31.0	2.71	3.36	31.0	2.47	3.68	31.0	2.18	4.17
	1130	31.2	2.98	3.07	31.8	2.78	3.35	31.8	2.54	3.67	31.8	2.24	4.16
	1240	32.1	3.08	3.05	32.7	2.88	3.33	32.7	2.63	3.65	32.7	2.32	4.14

## HEATING-4/5TON

<b>4TON SYSTEM-----EODA18H-4860+EAHATN-48</b>													
INDOOR AIR		OUTDOOR AMBIENT TEMPERATURE											
		-3			7			17			27		
IDB(°F)	CFM	MBh	kw	COP	MBh	kw	COP	MBh	kw	COP	MBh	kw	COP
65	1590	36.9	6.05	1.79	43.5	5.90	2.16	50.1	5.72	2.57	53.4	5.49	2.85
	1500	36.2	5.92	1.79	42.7	5.78	2.17	49.3	5.60	2.58	52.5	5.37	2.86
	1400	35.5	5.77	1.80	41.9	5.63	2.18	48.2	5.46	2.59	51.4	5.23	2.88
70	1590	33.0	5.29	1.83	39.0	5.17	2.21	44.9	5.00	2.63	47.8	4.80	2.92
	1500	32.4	5.18	1.84	38.3	5.06	2.22	44.1	4.90	2.64	47.0	4.70	2.93
	1400	31.8	5.06	1.84	37.5	4.93	2.23	43.2	4.78	2.65	46.0	4.59	2.94
75	1590	29.2	4.57	1.87	34.4	4.46	2.26	39.7	4.32	2.69	42.3	4.15	2.99
	1500	28.7	4.48	1.88	33.8	4.37	2.27	39.0	4.24	2.70	41.5	4.06	3.00
	1400	28.1	4.37	1.88	33.1	4.27	2.27	38.2	4.14	2.71	40.7	3.97	3.01

<b>4TON SYSTEM-----EODA18H-4860+EAHATN-48</b>													
INDOOR AIR		OUTDOOR AMBIENT TEMPERATURE											
		37			47			57			67		
IDB(°F)	CFM	MBh	kw	COP	MBh	kw	COP	MBh	kw	COP	MBh	kw	COP
65	1590	53.4	5.20	3.01	53.4	4.86	3.22	53.4	4.43	3.53	53.4	3.91	4.00
	1500	52.5	5.09	3.02	52.5	4.75	3.24	52.5	4.34	3.54	52.5	3.83	4.01
	1400	51.4	4.96	3.03	51.4	4.63	3.25	51.4	4.23	3.56	51.4	3.73	4.03
70	1590	47.8	4.55	3.08	47.8	4.25	3.30	47.8	3.88	3.61	47.8	3.42	4.09
	1500	47.0	4.46	3.09	47.0	4.16	3.31	47.0	3.80	3.63	47.0	3.35	4.11
	1400	46.0	4.35	3.10	46.0	4.06	3.32	46.0	3.71	3.64	46.0	3.27	4.12
75	1590	42.3	3.93	3.15	42.3	3.67	3.37	42.3	3.35	3.70	42.3	2.96	4.19
	1500	41.5	3.85	3.16	41.5	3.60	3.38	41.5	3.28	3.71	41.5	2.90	4.20
	1400	40.7	3.76	3.17	40.7	3.51	3.40	40.7	3.21	3.72	40.7	2.83	4.21

<b>5TON SYSTEM-----EODA18H-4860+EAHATN-60</b>													
INDOOR AIR		OUTDOOR AMBIENT TEMPERATURE											
		-3			7			17			27		
IDB(°F)	CFM	MBh	kw	COP	MBh	kw	COP	MBh	kw	COP	MBh	kw	COP
65	1700	36.7	7.13	1.51	43.3	6.96	1.82	49.9	6.74	2.17	56.4	6.47	2.56
	1590	35.9	6.96	1.51	42.4	6.79	1.83	48.9	6.58	2.18	55.3	6.31	2.57
	1500	35.3	6.81	1.52	41.7	6.65	1.84	48.0	6.44	2.19	54.4	6.18	2.58
70	1700	32.8	6.24	1.54	38.8	6.09	1.86	44.7	5.90	2.22	50.6	5.66	2.62
	1590	32.2	6.09	1.55	38.0	5.95	1.87	43.8	5.76	2.23	49.6	5.52	2.63
	1500	31.6	5.97	1.55	37.3	5.82	1.88	43.0	5.64	2.24	48.7	5.41	2.64
75	1700	29.0	5.39	1.58	34.2	5.26	1.91	39.5	5.10	2.27	44.7	4.89	2.68
	1590	28.4	5.27	1.58	33.6	5.14	1.91	38.7	4.98	2.28	43.8	4.78	2.69
	1500	28.0	5.16	1.59	33.0	5.04	1.92	38.0	4.88	2.28	43.0	4.68	2.69

<b>5TON SYSTEM-----EODA18H-4860+EAHATN-60</b>													
INDOOR AIR		OUTDOOR AMBIENT TEMPERATURE											
		37			47			57			67		
IDB(°F)	CFM	MBh	kw	COP	MBh	kw	COP	MBh	kw	COP	MBh	kw	COP
65	1700	61.5	6.13	2.94	61.5	5.73	3.15	61.5	5.23	3.45	61.5	4.62	3.91
	1590	60.3	5.98	2.95	60.3	5.59	3.16	60.3	5.10	3.46	60.3	4.50	3.92
	1500	59.2	5.86	2.96	59.2	5.47	3.17	59.2	4.99	3.48	59.2	4.41	3.94
70	1700	55.1	5.37	3.01	55.1	5.01	3.22	55.1	4.57	3.53	55.1	4.04	4.00
	1590	54.0	5.24	3.02	54.0	4.89	3.24	54.0	4.47	3.54	54.0	3.94	4.02
	1500	53.1	5.13	3.03	53.1	4.79	3.25	53.1	4.37	3.56	53.1	3.86	4.03
75	1700	48.7	4.64	3.08	48.7	4.33	3.30	48.7	3.95	3.61	48.7	3.49	4.09
	1590	47.7	4.53	3.09	47.7	4.23	3.31	47.7	3.86	3.62	47.7	3.41	4.10
	1500	46.9	4.44	3.10	46.9	4.14	3.32	46.9	3.78	3.63	46.9	3.34	4.12

**HEATING-ULTRA 2/3TON**

<b>Hyper Heating 2TON SYSTEM-----EODA18H-4860+EAHATN-24</b>													
INDOOR AIR		OUTDOOR AMBIENT TEMPERATURE											
		-3			7			17			27		
IDB(°F)	CFM	MBh	kw	COP	MBh	kw	COP	MBh	kw	COP	MBh	kw	COP
65	700	25.7	2.37	3.18	25.7	2.31	3.26	25.7	2.24	3.36	25.7	2.15	3.51
	800	26.8	2.49	3.15	26.8	2.43	3.23	26.8	2.35	3.34	26.8	2.26	3.48
	900	27.8	2.60	3.13	27.8	2.54	3.20	27.8	2.46	3.31	27.8	2.36	3.45
70	700	23.1	2.08	3.25	23.1	2.03	3.33	23.1	1.96	3.44	23.1	1.89	3.59
	800	24.0	2.18	3.23	24.0	2.13	3.31	24.0	2.06	3.41	24.0	1.98	3.56
	900	24.9	2.27	3.20	24.9	2.22	3.28	24.9	2.15	3.39	24.9	2.06	3.53
75	700	20.4	1.80	3.32	20.4	1.76	3.40	20.4	1.70	3.51	20.4	1.63	3.66
	800	21.2	1.88	3.30	21.2	1.84	3.38	21.2	1.78	3.49	21.2	1.71	3.64
	900	22.0	1.96	3.28	22.0	1.92	3.36	22.0	1.86	3.47	22.0	1.78	3.62

<b>Hyper Heating 2TON SYSTEM-----EODA18H-4860+EAHATN-24</b>													
INDOOR AIR		OUTDOOR AMBIENT TEMPERATURE											
		37			47			57			67		
IDB(°F)	CFM	MBh	kw	COP	MBh	kw	COP	MBh	kw	COP	MBh	kw	COP
65	700	25.7	2.04	3.70	25.7	1.90	3.96	25.7	1.74	4.34	25.7	1.53	4.92
	800	26.8	2.14	3.67	26.8	2.00	3.93	26.8	1.83	4.30	26.8	1.61	4.87
	900	27.8	2.24	3.64	27.8	2.09	3.90	27.8	1.91	4.26	27.8	1.68	4.83
70	700	23.1	1.79	3.78	23.1	1.67	4.05	23.1	1.52	4.43	23.1	1.34	5.02
	800	24.0	1.87	3.75	24.0	1.75	4.02	24.0	1.60	4.40	24.0	1.41	4.99
	900	24.9	1.96	3.73	24.9	1.83	3.99	24.9	1.67	4.37	24.9	1.47	4.95
75	700	20.4	1.55	3.86	20.4	1.44	4.13	20.4	1.32	4.53	20.4	1.16	5.13
	800	21.2	1.62	3.84	21.2	1.51	4.11	21.2	1.38	4.50	21.2	1.22	5.10
	900	22.0	1.69	3.81	22.0	1.58	4.08	22.0	1.44	4.47	22.0	1.27	5.07

<b>Hyper Heating 3TON SYSTEM-----EODA18H-4860+EAHATN-36</b>													
INDOOR AIR		OUTDOOR AMBIENT TEMPERATURE											
		-3			7			17			27		
IDB(°F)	CFM	MBh	kw	COP	MBh	kw	COP	MBh	kw	COP	MBh	kw	COP
65	1040	34.8	3.85	2.64	39.2	3.76	3.06	39.2	3.64	3.16	39.2	3.49	3.29
	1130	35.6	3.97	2.63	40.2	3.88	3.04	40.2	3.75	3.14	40.2	3.60	3.27
	1240	36.6	4.11	2.61	41.3	4.01	3.02	41.3	3.88	3.12	41.3	3.73	3.25
70	1040	31.1	3.37	2.70	35.1	3.29	3.13	35.1	3.19	3.23	35.1	3.06	3.36
	1130	31.9	3.48	2.69	36.0	3.39	3.11	36.0	3.29	3.21	36.0	3.15	3.35
	1240	32.8	3.59	2.68	37.0	3.51	3.09	37.0	3.40	3.19	37.0	3.26	3.33
75	1040	27.5	2.92	2.76	31.0	2.85	3.19	31.0	2.76	3.30	31.0	2.65	3.43
	1130	28.2	3.00	2.75	31.8	2.93	3.18	31.8	2.84	3.28	31.8	2.73	3.42
	1240	29.0	3.10	2.74	32.7	3.03	3.16	32.7	2.93	3.27	32.7	2.81	3.41

<b>Hyper Heating 3TON SYSTEM-----EODA18H-4860+EAHATN-36</b>													
INDOOR AIR		OUTDOOR AMBIENT TEMPERATURE											
		37			47			57			67		
IDB(°F)	CFM	MBh	kw	COP	MBh	kw	COP	MBh	kw	COP	MBh	kw	COP
65	1040	39.2	3.31	3.47	39.2	3.09	3.72	39.2	2.82	4.07	39.2	2.49	4.61
	1130	40.2	3.41	3.45	40.2	3.19	3.69	40.2	2.91	4.05	40.2	2.57	4.58
	1240	41.3	3.53	3.43	41.3	3.30	3.67	41.3	3.01	4.02	41.3	2.66	4.55
70	1040	35.1	2.90	3.55	35.1	2.71	3.80	35.1	2.47	4.16	35.1	2.18	4.71
	1130	36.0	2.99	3.53	36.0	2.79	3.78	36.0	2.55	4.14	36.0	2.25	4.69
	1240	37.0	3.09	3.51	37.0	2.88	3.76	37.0	2.63	4.12	37.0	2.33	4.67
75	1040	31.0	2.51	3.62	31.0	2.34	3.88	31.0	2.14	4.25	31.0	1.89	4.81
	1130	31.8	2.58	3.61	31.8	2.41	3.87	31.8	2.20	4.23	31.8	1.94	4.80
	1240	32.7	2.67	3.59	32.7	2.49	3.85	32.7	2.28	4.21	32.7	2.01	4.77

*Note: ESI Ultra Units provide 100% heating capacity down to 5°F outdoor ambient temperature.*

### Capacity Correction

The system can extend the piping 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.

#### SUCTION LINE LENGTH/SIZE VS CAPACITY MULTIPLIER (R410A)

Model Size		2436	4860
Liquid Line Connection Size		3/8" O.D.	3/8" O.D.
Suction Line Connection Size		3/4" O.D.	7/8" O.D.
Suction Line Length/Size *NOTE		5/8" Optional	3/4" Optional
		<b>3/4" Standard</b>	<b>7/8" Standard</b>
25feet	Optional	1.00	0.99
	Standard	1.00	1.00
50feet	Optional	0.98	0.97
	Standard	0.99	0.98
100feet	Optional	0.95	0.94
	Standard	0.97	0.96

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

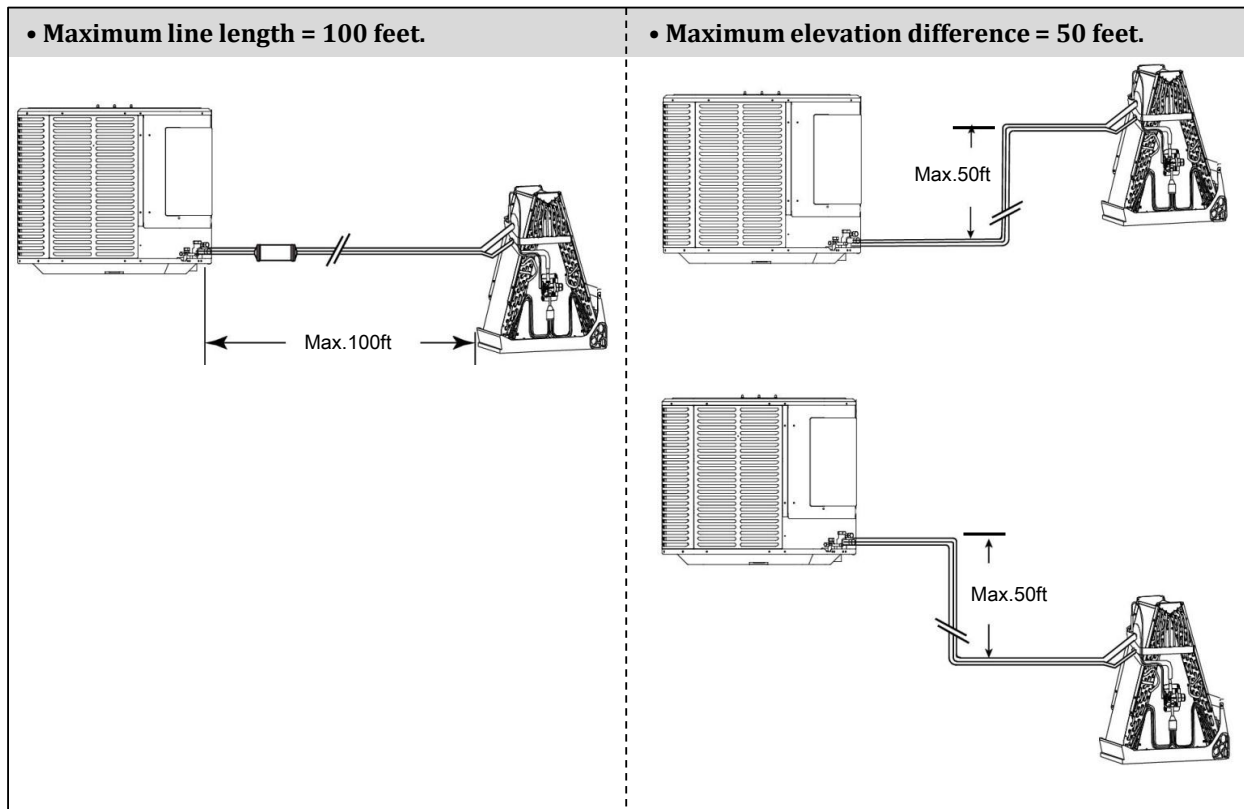
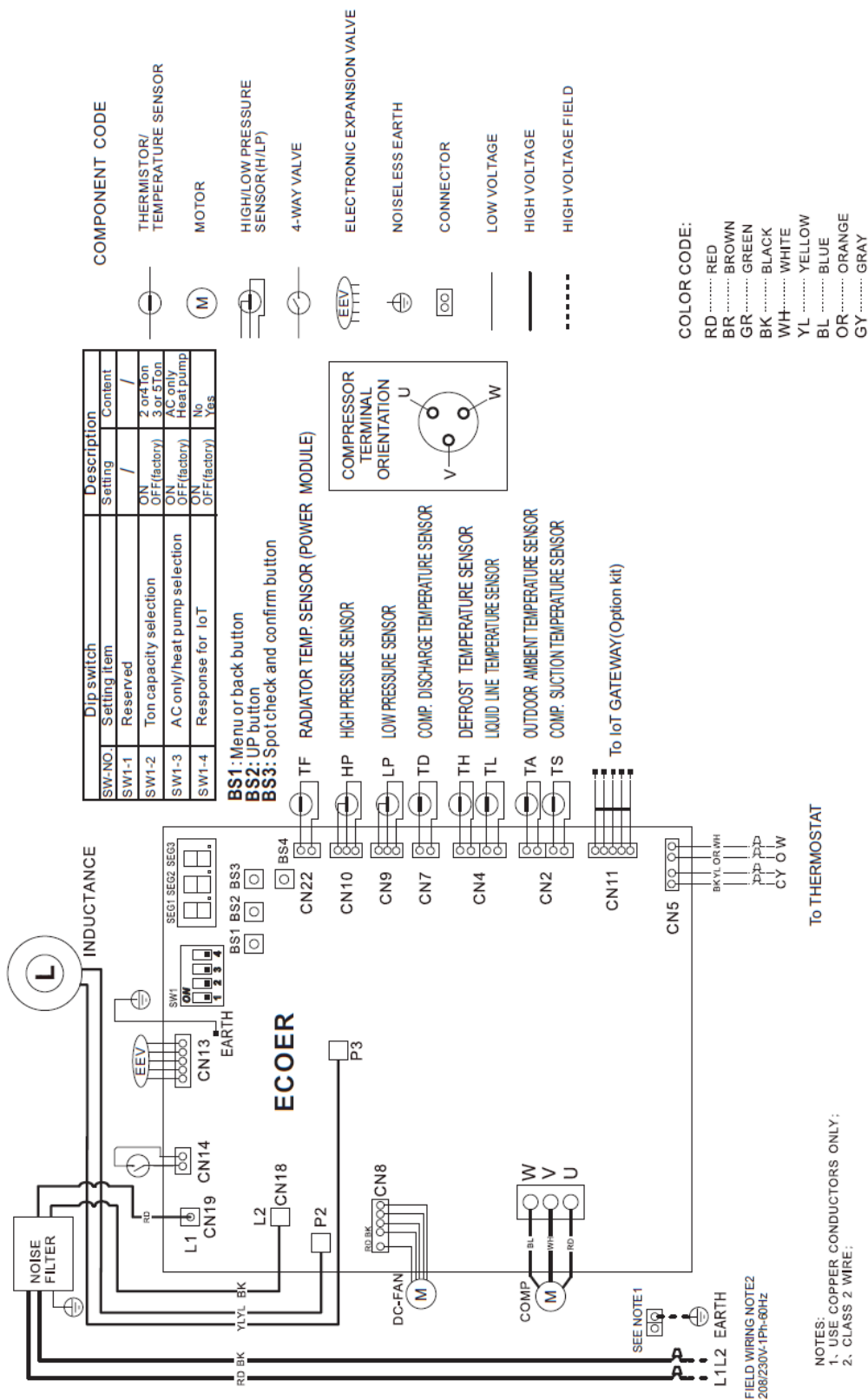


Figure 2 Line length and elevation difference limit



# 5. Wiring Diagram

## EODA18H-2436



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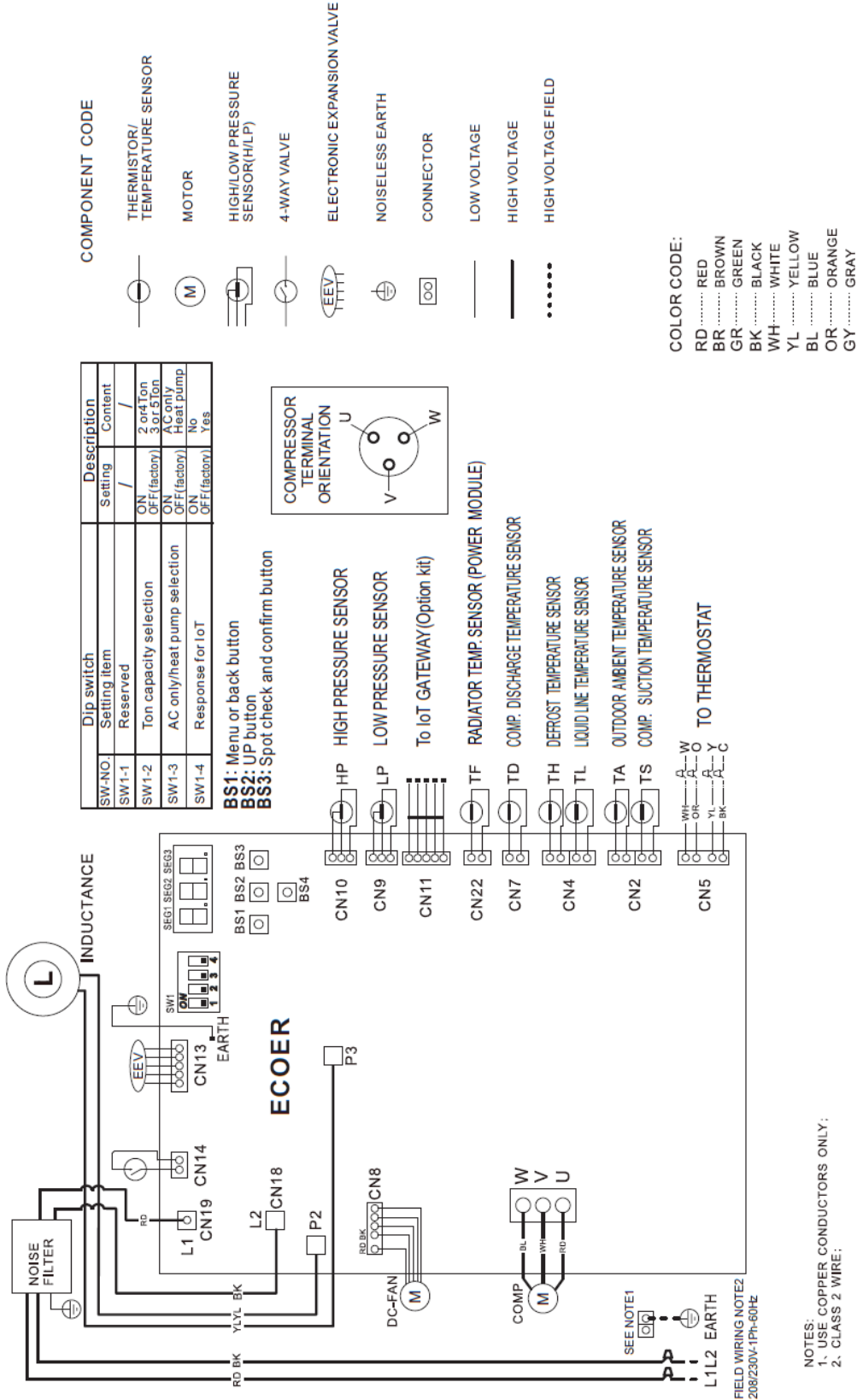
**High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death.  
 Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

**WARNING**

**NOTES:**  
 1. USE COPPER CONDUCTORS ONLY;  
 2. CLASS 2 WIRE;



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**WARNING**

**High Voltage:** Disconnect all power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury, or death. Wiring is subject to change. Always refer to the wiring diagram or the unit for the most up-to-date wiring.

- NOTES:  
 1. USE COPPER CONDUCTORS ONLY;  
 2. CLASS 2 WIRE;

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