

Climate 5000 Series - Gen 4

48K BTU Multi Zone Regular Outdoor Unit

Engineering
 Submittal
 Sheet



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Overview and Project Information		
  	Project name	
	Location	
	Architect	
	Engineer	
	General contractor	
	Reference #	
Date		

48K Btu Multi Zone Max Performance Outdoor Unit				
Outdoor part number		8-733-962-698		
Outdoor model number		BMS500-AAM048-1CSXRD		
Efficiency Data		Ducted	Non-Ducted	Mixed Ducted & Non-Ducted
SEER2		20.4	24	22.2
EER2		12	12.5	12.25
HSPF2 (Region IV)		10.6	10.3	10.45
HSPF2 (Region V)		8.1	8	8.0
COP(47°F)		3.9	3.8	3.85
COP (5°F)		2.1	2.0	2.0
Performance Data		Ducted	Non-Ducted	Mixed Ducted & Non-Ducted
Cooling	Capacity Range (Btu/h)	12000-52000	12000-55000	12000-53750
	Rated Capacity (Btu/h)	45000	47000	46000
	Current (A)	16.8	16.6	16.7
	Input Power (W)	3740	3764	3752.0
Heating	Capacity Range (Btu/h)	13000-53000	13000-53000	13000-53000
	Rated Capacity (47°F)	47000	48000	47500
	Capacity (5°F)	38000.0	36000.0	37000
	Current (A)	15.7	16.3	16.0
	Input Power (W)	3532	3702	3617.0

Operation Range		
ODU	Cooling (°F / °C)	-13~122 / -25~50
	Heating (°F / °C)	-13~75 / -25~24
Electrical Data		
Power supply (V / Ø / Hz)		208-230 / 1 / 60
Min. circuit ampacity (A)		34
Max. fuse (A)		40

Compressor Data	
Type:	Rotary
Refrigerant oil /oil charge (ml)	V74 / 1400
Input (W)	3700
Rated current (A)	7

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Piping	
Refrigerant precharge (ft / m)	24.6(7.5)x6
Refrigerant charge (oz / kg)	148.15 / 4.2
Liquid side (in / mm)	6x1/4in / 6x6.35mm
Gas side (in / mm)	4x3/8in+2x1/2in / 4x9.52mm+2x12.7mm
Additional Charge of Refrigerant - liquid side (oz/ft)/(g/m)	0.16 / 15
Additional Charge of Refrigerant - gas side (oz/ft)/(g/m)	0.32 / 30
Max. refrigerant pipe length (ft / m)	262.4 / 80
Max. length to one IDU (ft / m)	114.8 / 35
Max. height difference between IDU and ODU (ft / m)	49.2 / 15
Max. height difference between IDU's (ft / m)	33 / 10

System Data		
Refrigerant type		R454B
Design pressure (PSIG)		550 / 340
Dehumidification (L/hr)		2.5
ODU	Fan motor model #	ZKFN-85-10-1L
	Fan motor qty (ea)	2
	Fan motor input (W)	126
	Fan motor speed, H / M / L (RPM)	800 / 700 / 650
	Air flow, max (CFM)	4502.8
	Noise level, max (dB(A))	63
	Net weight (lbs / kg)	222.00 / 100.7
	Gross weight (lbs / kg)	254.19 / 115.3
IDU	Minimum # of indoors	1
	Maximum # of indoors	6

Multi Zone Pairing Information	1 ZONE	2 ZONE	3 ZONE			4 ZONE		
BMS500-AAM048-1CSXRD	30	6+24	6+6+18	9+9+18	12+18+24	6+6+6+6	6+9+12+24	9+12+12+24
	36	6+30	6+6+24	9+9+24	12+18+30	6+6+6+9	6+9+18+18	9+12+18+18
		6+36	6+6+30	9+9+30	18+18+18	6+6+6+18	6+9+18+24	9+12+18+24
		9+18	6+6+36	9+9+36		6+6+6+24	6+12+12+12	9+18+18+18
		9+24	6+9+12	9+12+12		6+6+9+9	6+12+12+18	12+12+12+12
		9+30	6+9+18	9+12+18		6+6+9+12	6+12+12+24	12+12+12+18
		9+36	6+9+24	9+12+24		6+6+9+18	6+12+18+18	12+12+12+24
		12+12	6+9+30	9+12+30		6+6+9+24	6+12+18+24	12+12+18+18
		12+18	6+9+36	9+12+36		6+6+12+12	9+9+9+9	
		12+24	6+12+18	9+18+18		6+6+12+18	9+9+9+12	
		12+30	6+12+24	9+18+24		6+6+12+24	9+9+9+18	
		12+36	6+12+30	9+18+30		6+6+18+18	9+9+9+24	
		18+18	6+12+36	9+18+36		6+6+18+24	9+9+12+12	
		18+24	6+18+18	12+12+12		6+9+9+9	9+9+12+18	
		18+30	6+18+24	12+12+18		6+9+9+12	9+9+12+24	
		18+36	6+18+30	12+12+24		6+9+9+18	9+9+18+18	
		24+24	6+18+36	12+12+30		6+9+9+24	9+9+18+24	
		24+30	9+9+9	12+12+36		6+9+12+12	9+12+12+12	
	24+36	9+9+12	12+18+18		6+9+12+18	9+12+12+18		
Capacities	Wall Mounted - 6K to 36K Cassette/Ducted - 9K to 24K							

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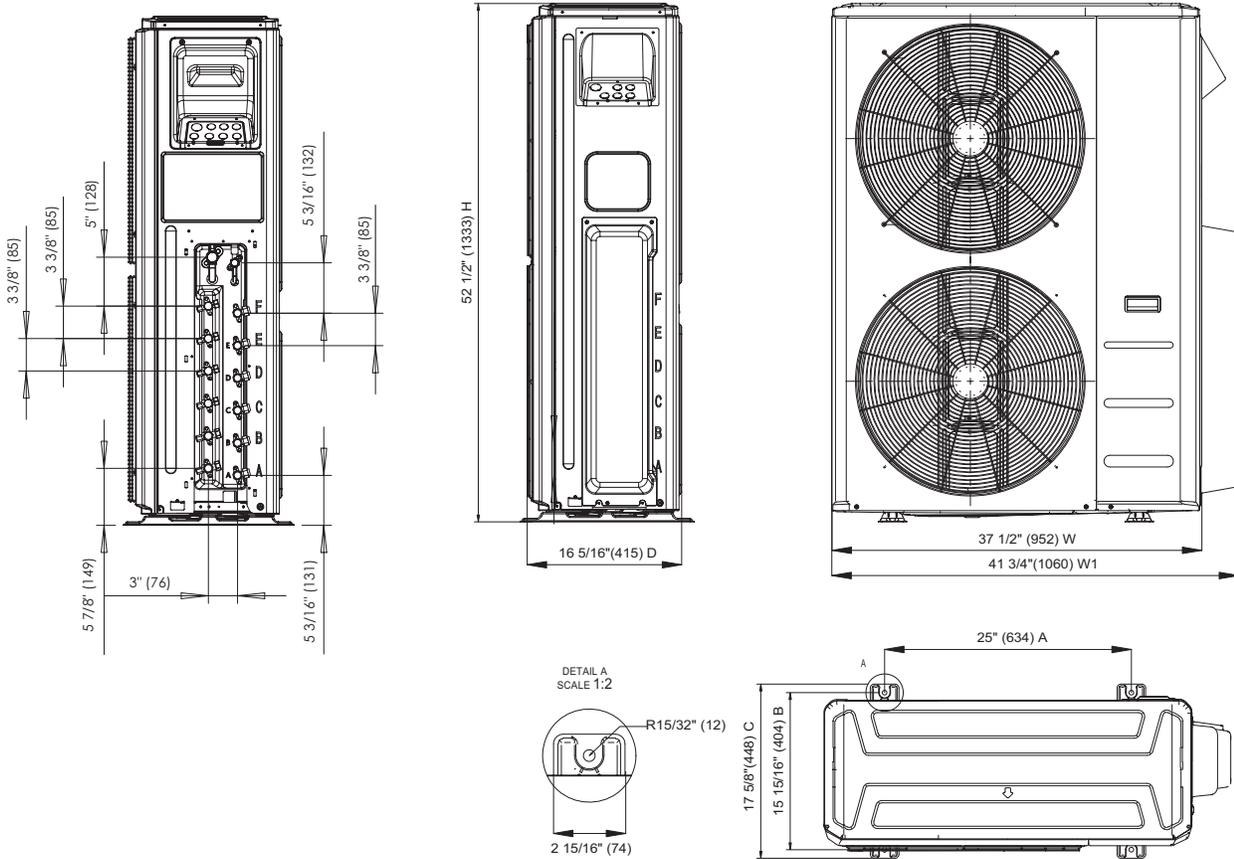
5 ZONE			6 ZONE	
6+6+6+6+6	6+6+9+12+18	6+9+12+18+18	6+6+6+6+6+6	6+6+9+9+12+12
6+6+6+6+9	6+6+9+12+24	6+12+12+12+12	6+6+6+6+6+9	6+6+9+9+12+18
6+6+6+6+12	6+6+9+18+18	6+12+12+12+18	6+6+6+6+6+12	6+6+9+12+12+12
6+6+6+6+18	6+6+9+18+24	9+9+9+9+9	6+6+6+6+6+18	6+6+9+12+12+18
6+6+6+6+24	6+6+12+12+12	9+9+9+9+12	6+6+6+6+9+9	6+9+9+9+9+9
6+6+6+9+9	6+6+12+12+18	9+9+9+9+18	6+6+6+6+9+12	6+9+9+9+9+12
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6+6+6+12+12	6+9+9+9+12	9+9+9+12+24	6+6+6+9+9+9	6+9+9+12+12+12
6+6+6+12+18	6+9+9+9+18	9+9+9+18+18	6+6+6+9+9+12	9+9+9+9+9+9
6+6+6+12+24	6+9+9+9+24	9+9+12+12+12	6+6+6+9+9+18	9+9+9+9+9+12
6+6+6+18+18	6+9+9+12+12	9+9+12+12+18	6+6+6+9+12+12	9+9+9+9+9+18
6+6+6+18+24	6+9+9+12+18	9+12+12+12+12	6+6+6+9+12+18	9+9+9+9+12+12
6+6+9+9+9	6+9+9+12+24	9+12+12+12+18	6+6+6+12+12+12	9+9+9+12+12+12
6+6+9+9+12	6+9+9+18+18	12+12+12+12+12	6+6+6+12+12+18	
6+6+9+9+18	6+9+12+12+12		6+6+9+9+9+9	
6+6+9+9+24	6+9+12+12+18		6+6+9+9+9+12	
6+6+9+12+12	6+9+12+12+24		6+6+9+9+9+18	

Wall Mounted - 6K to 36K
Cassette/Ducted - 9K to 24K

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Outdoor Unit Dimensions and Connections



Model	W (in)	D (in)	H (in)
BMS500-AAM048-1CSXRD	37.48	16.34	52.48

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Cooling Performance - Indoor Dry Bulb Temperature at 1618 CFM (Ducted)

ODU DB(°F)	IDU WB (°F)	60.8°F(16.0°C)															64.4°F(18.0°C)					67°F(19.4°C)					71.6°F(22.0°C)																																							
		73.4°F(23.0°C)					77.0°F(25.0°C)					80.6°F(26.7°C)					84.2°F(29.0°C)					73.4°F(23.0°C)					77.0°F(25.0°C)					80.6°F(26.7°C)					84.2°F(29.0°C)																													
		IDU DB (°F)	73.4°F(23.0°C)	77.0°F(25.0°C)	80.6°F(26.7°C)	84.2°F(29.0°C)																																																												
-13°F (-25.0°C)	TC	34626	34673	34710	34711	34758	36713	36756	36792	36800	36843	38906	38957	39000	39007	39051	41250	41295	41340	41346	41398	TC	34626	34673	34710	34711	34758	36713	36756	36792	36800	36843	38906	38957	39000	39007	39051	41250	41295	41340	41346	41398	TC	34626	34673	34710	34711	34758	36713	36756	36792	36800	36843	38906	38957	39000	39007	39051	41250	41295	41340	41346	41398			
	S/T	0.61	0.72	0.82	0.82	0.93	0.58	0.68	0.77	0.88	0.54	0.64	0.73	0.83	0.51	0.60	0.68	0.78	0.84	0.84	0.86	0.78	S/T	0.61	0.72	0.82	0.82	0.93	0.58	0.68	0.77	0.88	0.54	0.64	0.73	0.83	0.51	0.60	0.68	0.78	0.84	0.84	0.86	0.78	S/T	0.61	0.72	0.82	0.82	0.93	0.58	0.68	0.77	0.88	0.54	0.64	0.73	0.83	0.51	0.60	0.68	0.78	0.84	0.84	0.86	0.78
	PI	4.66	4.67	4.67	4.68	4.68	4.94	4.95	4.96	4.96	4.96	5.24	5.25	5.25	5.25	5.26	5.56	5.56	5.57	5.57	5.58	PI	4.66	4.67	4.67	4.68	4.68	4.94	4.95	4.96	4.96	4.96	5.24	5.25	5.25	5.25	5.26	5.56	5.56	5.57	5.57	5.58	PI	4.66	4.67	4.67	4.68	4.68	4.94	4.95	4.96	4.96	4.96	5.24	5.25	5.25	5.25	5.26	5.56	5.56	5.57	5.57	5.58			
-4°F (-20.0°C)	TC	37289	37340	37380	37382	37432	39537	39584	39623	39630	39678	41899	41953	42000	42008	42055	44423	44472	44520	44527	44582	TC	37289	37340	37380	37382	37432	39537	39584	39623	39630	39678	41899	41953	42000	42008	42055	44423	44472	44520	44527	44582	TC	37289	37340	37380	37382	37432	39537	39584	39623	39630	39678	41899	41953	42000	42008	42055	44423	44472	44520	44527	44582			
	S/T	0.62	0.73	0.83	0.83	0.94	0.59	0.69	0.78	0.78	0.89	0.55	0.65	0.74	0.74	0.84	0.52	0.61	0.70	0.70	0.79	S/T	0.62	0.73	0.83	0.83	0.94	0.59	0.69	0.78	0.78	0.89	0.55	0.65	0.74	0.74	0.84	0.52	0.61	0.70	0.70	0.79	S/T	0.62	0.73	0.83	0.83	0.94	0.59	0.69	0.78	0.78	0.89	0.55	0.65	0.74	0.74	0.84	0.52	0.61	0.70	0.70	0.79			
	PI	4.83	4.84	4.84	4.84	4.85	5.12	5.13	5.13	5.13	5.14	5.43	5.43	5.44	5.44	5.45	5.75	5.76	5.77	5.77	5.77	PI	4.83	4.84	4.84	4.84	4.85	5.12	5.13	5.13	5.13	5.14	5.43	5.43	5.44	5.44	5.45	5.75	5.76	5.77	5.77	5.77	PI	4.83	4.84	4.84	4.84	4.85	5.12	5.13	5.13	5.13	5.14	5.43	5.43	5.44	5.44	5.45	5.75	5.76	5.77	5.77	5.77			
0°F (-17.8°C)	TC	38473	38525	38567	38568	38620	40792	40840	40881	40889	40937	43229	43285	43333	43341	43390	45834	45883	45933	45940	45998	TC	38473	38525	38567	38568	38620	40792	40840	40881	40889	40937	43229	43285	43333	43341	43390	45834	45883	45933	45940	45998	TC	38473	38525	38567	38568	38620	40792	40840	40881	40889	40937	43229	43285	43333	43341	43390	45834	45883	45933	45940	45998			
	S/T	0.63	0.73	0.84	0.84	0.95	0.59	0.69	0.79	0.79	0.90	0.56	0.65	0.74	0.74	0.85	0.53	0.62	0.70	0.70	0.80	S/T	0.63	0.73	0.84	0.84	0.95	0.59	0.69	0.79	0.79	0.90	0.56	0.65	0.74	0.74	0.85	0.53	0.62	0.70	0.70	0.80	S/T	0.63	0.73	0.84	0.84	0.95	0.59	0.69	0.79	0.79	0.90	0.56	0.65	0.74	0.74	0.85	0.53	0.62	0.70	0.70	0.80			
	PI	4.90	4.91	4.92	4.92	4.92	5.20	5.21	5.21	5.21	5.22	5.51	5.52	5.52	5.52	5.53	5.84	5.85	5.86	5.86	5.86	PI	4.90	4.91	4.92	4.92	4.92	5.20	5.21	5.21	5.21	5.22	5.51	5.52	5.52	5.52	5.53	5.84	5.85	5.86	5.86	5.86	PI	4.90	4.91	4.92	4.92	4.92	5.20	5.21	5.21	5.21	5.22	5.51	5.52	5.52	5.52	5.53	5.84	5.85	5.86	5.86	5.86			
5°F (-15.0°C)	TC	39953	40007	40050	40052	40106	42361	42411	42453	42461	42512	44892	44950	45000	45008	45059	47596	47648	47700	47707	47767	TC	39953	40007	40050	40052	40106	42361	42411	42453	42461	42512	44892	44950	45000	45008	45059	47596	47648	47700	47707	47767	TC	39953	40007	40050	40052	40106	42361	42411	42453	42461	42512	44892	44950	45000	45008	45059	47596	47648	47700	47707	47767			
	S/T	0.63	0.74	0.84	0.84	0.96	0.60	0.70	0.80	0.80	0.91	0.56	0.66	0.75	0.75	0.86	0.53	0.62	0.71	0.71	0.81	S/T	0.63	0.74	0.84	0.84	0.96	0.60	0.70	0.80	0.80	0.91	0.56	0.66	0.75	0.75	0.86	0.53	0.62	0.71	0.71	0.81	S/T	0.63	0.74	0.84	0.84	0.96	0.60	0.70	0.80	0.80	0.91	0.56	0.66	0.75	0.75	0.86	0.53	0.62	0.71	0.71	0.81			
	PI	5.00	5.00	5.01	5.01	5.02	5.30	5.30	5.31	5.31	5.32	5.61	5.62	5.63	5.63	5.64	5.95	5.96	5.97	5.97	5.97	PI	5.00	5.00	5.01	5.01	5.02	5.30	5.30	5.31	5.31	5.32	5.61	5.62	5.63	5.63	5.64	5.95	5.96	5.97	5.97	5.97	PI	5.00	5.00	5.01	5.01	5.02	5.30	5.30	5.31	5.31	5.32	5.61	5.62	5.63	5.63	5.64	5.95	5.96	5.97	5.97	5.97			
14°F (-10.0°C)	TC	44106	44166	44213	44215	44275	46764	46820	46866	46875	46931	49558	49623	49678	49687	49743	52544	52601	52659	52667	52732	TC	44106	44166	44213	44215	44275	46764	46820	46866	46875	46931	49558	49623	49678	49687	49743	52544	52601	52659	52667	52732	TC	44106	44166	44213	44215	44275	46764	46820	46866	46875	46931	49558	49623	49678	49687	49743	52544	52601	52659	52667	52732			
	S/T	0.62	0.73	0.83	0.83	0.94	0.59	0.69	0.78	0.78	0.89	0.55	0.65	0.74	0.74	0.84	0.52	0.61	0.69	0.69	0.79	S/T	0.62	0.73	0.83	0.83	0.94	0.59	0.69	0.78	0.78	0.89	0.55	0.65	0.74	0.74	0.84	0.52	0.61	0.69	0.69	0.79	S/T	0.62	0.73	0.83	0.83	0.94	0.59	0.69	0.78	0.78	0.89	0.55	0.65	0.74	0.74	0.84	0.52	0.61	0.69	0.69	0.79			
	PI	4.99	4.99	5.00	5.00	5.01	5.29	5.29	5.30	5.30	5.31	5.60	5.61	5.62	5.62	5.62	5.94	5.95	5.95	5.95	5.96	PI	4.99	4.99	5.00	5.00	5.01	5.29	5.29	5.30	5.30	5.31	5.60	5.61	5.62	5.62	5.62	5.94	5.95	5.95	5.95	5.96	PI	4.99	4.99	5.00	5.00	5.01	5.29	5.29	5.30	5.30	5.31	5.60	5.61	5.62	5.62	5.62	5.94	5.95	5.95	5.95	5.96			
17°F (-8.3°C)	TC	45491	45552	45601	45603	45665	48232	48289	48337	48347	48404	51114	51180	51237	51247	51304	54194	54252	54311	54320	54388	TC	45491	45552	45601	45603	45665	48232	48289	48337	48347	48404	51114	51180	51237	51247	51304	54194	54252	54311	54320	54388	TC	45491	45552	45601	45603	45665	48232	48289	48337	48347	48404	51114	51180	51237	51247	51304	54194	54252	54311	54320	54388			
	S/T	0.62	0.72	0.82	0.82	0.94	0.58	0.68	0.78	0.78	0.88	0.55	0.64	0.73	0.73	0.83	0.52	0.61	0.69	0.69	0.79	S/T	0.62	0.72	0.82	0.82	0.94	0.58	0.68	0.78	0.78	0.88	0.55	0.64	0.73	0.73	0.83	0.52	0.61	0.69	0.69	0.79	S/T	0.62	0.72	0.82	0.82	0.94	0.58	0.68	0.78	0.78	0.88	0.55	0.64	0.73	0.73	0.83	0.52	0.61	0.69	0.69	0.79			
	PI	4.98	4.99	5.00	5.00	5.00	5.28	5.29	5.30	5.30	5.30	5.60	5.61	5.61	5.61	5.61	5.94	5.95	5.95	5.95	5.96	PI	4.98	4.99	5.00	5.00	5.00	5.28	5.29	5.30	5.30	5.30	5.60	5.61	5.61	5.61	5.61	5.94	5.95	5.95	5.95	5.96	PI	4.98	4.99	5.00	5.00	5.00	5.28	5.29	5.30	5.30	5.30	5.60	5.61	5.61	5.61	5.61	5.94	5.95	5.95	5.95	5.96			
23°F (-5.0°C)	TC	45560	45621	45670	45672	45734	48305	48362	48410	48420	48477	51191	51258	51315	51324	51382	54276	54335	54394	54402	54470	TC	45560	45621	45670	45672	45734	48305	48362	48410	48420	48477	51191	51258	51315	51324	51382	54276	54335	54394	54402	54470	TC	45560	45621	45670	45672	45734	48305	48362	48410	48420	48477	51191	51258	51315	51324	51382	54276	54335	54394</					

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48K Btu Multi Zone Regular Outdoor Unit



Cooling Performance - Indoor Dry Bulb Temperature at 2206 CFM (Non-Ducted)

ODU DB(°F)	IDU WB (°F)	60.8°F(16.0°C)					64.4°F(18.0°C)					67°F(19.4°C)					71.6°F(22.0°C)					
		IDU DB (°F)	73.4°F (23.0°C)	77.0°F (25.0°C)	80.0°F (26.7°C)	80.6°F (27.0°C)	84.2°F (29.0°C)	73.4°F (23.0°C)	77.0°F (25.0°C)	80.0°F (26.7°C)	80.6°F (27.0°C)	84.2°F (29.0°C)	73.4°F (23.0°C)	77.0°F (25.0°C)	80.0°F (26.7°C)	80.6°F (27.0°C)	84.2°F (29.0°C)	73.4°F (23.0°C)	77.0°F (25.0°C)	80.0°F (26.7°C)	80.6°F (27.0°C)	84.2°F (29.0°C)
			TC	S/T	PI	TC	S/T															
-13°F (-25.0°C)	TC	36165	36214	36253	36254	36303	38344	38390	38428	38435	38481	40635	40688	40733	40741	40786	43084	43130	43177	43184	43238	
	S/T	0.61	0.72	0.82	0.82	0.93	0.58	0.68	0.77	0.88	0.54	0.64	0.73	0.83	0.73	0.83	0.51	0.60	0.68	0.68	0.78	
	PI	4.23	4.24	4.24	4.24	4.25	4.49	4.49	4.50	4.50	4.50	4.76	4.76	4.77	4.77	4.77	5.04	5.05	5.05	5.05	5.06	
-4°F (-20.0°C)	TC	38947	38999	39041	39043	39096	41294	41343	41384	41392	41441	43761	43818	43867	43875	43924	46398	46448	46499	46506	46564	
	S/T	0.62	0.73	0.83	0.83	0.94	0.59	0.69	0.78	0.78	0.89	0.55	0.65	0.74	0.74	0.84	0.52	0.61	0.70	0.70	0.79	
	PI	4.38	4.39	4.39	4.39	4.40	4.65	4.65	4.66	4.66	4.66	4.93	4.93	4.94	4.94	4.94	5.22	5.23	5.23	5.23	5.24	
0°F (-17.8°C)	TC	40183	40237	40281	40282	40337	42605	42655	42697	42706	42757	45150	45209	45259	45268	45318	47871	47923	47975	47982	48042	
	S/T	0.63	0.73	0.84	0.84	0.95	0.59	0.69	0.79	0.79	0.90	0.56	0.65	0.74	0.74	0.85	0.53	0.62	0.70	0.70	0.80	
	PI	4.45	4.46	4.46	4.46	4.47	4.72	4.72	4.73	4.73	4.74	5.00	5.01	5.01	5.01	5.02	5.30	5.31	5.31	5.31	5.32	
5°F (-15.0°C)	TC	41729	41785	41830	41832	41888	44243	44296	44340	44348	44401	46887	46948	47000	47061	47112	49712	49766	49820	49828	49890	
	S/T	0.63	0.74	0.84	0.84	0.96	0.60	0.70	0.80	0.80	0.91	0.56	0.66	0.75	0.75	0.86	0.53	0.62	0.71	0.71	0.81	
	PI	4.53	4.54	4.55	4.55	4.55	4.81	4.81	4.82	4.82	4.83	5.10	5.10	5.11	5.11	5.11	5.40	5.41	5.41	5.42	5.42	
14°F (-10.0°C)	TC	46929	46992	47042	47044	47108	49757	49816	49865	49875	49934	52729	52798	52857	52867	52926	55906	55967	56028	56037	56107	
	S/T	0.62	0.73	0.83	0.83	0.94	0.59	0.69	0.78	0.78	0.89	0.55	0.65	0.74	0.74	0.84	0.52	0.61	0.69	0.69	0.79	
	PI	4.47	4.48	4.48	4.48	4.49	4.74	4.75	4.75	4.75	4.76	5.03	5.03	5.04	5.04	5.04	5.33	5.33	5.34	5.34	5.35	
17°F (-8.3°C)	TC	48662	48727	48780	48782	48848	51594	51656	51707	51717	51778	54677	54748	54809	54819	54880	57971	58034	58098	58107	58179	
	S/T	0.62	0.72	0.82	0.82	0.94	0.58	0.68	0.78	0.78	0.88	0.55	0.64	0.73	0.73	0.83	0.52	0.61	0.69	0.69	0.79	
	PI	4.45	4.46	4.46	4.46	4.47	4.72	4.73	4.73	4.73	4.74	5.00	5.01	5.01	5.01	5.02	5.30	5.31	5.31	5.32	5.32	
23°F (-5.0°C)	TC	50703	50771	50826	50828	50897	53759	53822	53875	53886	53950	56970	57044	57108	57119	57182	60403	60469	60534	60544	60619	
	S/T	0.61	0.72	0.81	0.81	0.93	0.58	0.68	0.77	0.77	0.88	0.54	0.64	0.72	0.72	0.83	0.51	0.60	0.68	0.68	0.78	
	PI	4.23	4.24	4.25	4.25	4.25	4.49	4.50	4.50	4.50	4.51	4.76	4.76	4.77	4.77	4.78	5.05	5.05	5.06	5.06	5.06	
35°F (1.7°C)	TC	54785	54859	54918	54921	54995	58087	58156	58213	58225	58294	61557	61637	61706	61717	61786	65266	65337	65408	65419	65500	
	S/T	0.60	0.70	0.80	0.80	0.91	0.56	0.66	0.75	0.75	0.86	0.53	0.62	0.71	0.71	0.81	0.50	0.59	0.67	0.67	0.76	
	PI	3.80	3.81	3.81	3.81	3.82	4.03	4.04	4.04	4.04	4.05	4.27	4.28	4.28	4.28	4.29	4.53	4.53	4.54	4.54	4.55	
41°F (5.0°C)	TC	55474	55549	55608	55611	55686	58877	58946	58999	59027	59097	62331	62412	62482	62493	62563	66087	66158	66230	66241	66323	
	S/T	0.61	0.72	0.82	0.82	0.93	0.58	0.68	0.77	0.77	0.88	0.54	0.64	0.73	0.73	0.83	0.51	0.60	0.69	0.69	0.78	
	PI	3.86	3.86	3.87	3.87	3.87	4.09	4.09	4.10	4.10	4.10	4.33	4.34	4.34	4.35	4.35	4.60	4.60	4.61	4.61	4.61	
47°F (8.3°C)	TC	56162	56238	56299	56301	56377	59547	59618	59677	59688	59759	63105	63187	63257	63269	63339	66907	66980	67053	67063	67146	
	S/T	0.63	0.73	0.83	0.83	0.95	0.59	0.69	0.79	0.79	0.90	0.56	0.65	0.74	0.74	0.85	0.53	0.62	0.70	0.70	0.80	
	PI	3.91	3.92	3.92	3.92	3.93	4.15	4.15	4.16	4.16	4.16	4.40	4.40	4.41	4.41	4.41	4.66	4.67	4.67	4.67	4.68	
50°F (10.0°C)	TC	55417	55491	55551	55553	55628	58756	58826	58884	58896	58966	62267	62348	62417	62429	62498	66018	66090	66162	66172	66255	
	S/T	0.62	0.73	0.82	0.82	0.94	0.58	0.68	0.78	0.78	0.89	0.55	0.65	0.73	0.73	0.84	0.52	0.61	0.69	0.69	0.79	
	PI	3.95	3.96	3.96	3.96	3.97	4.19	4.20	4.20	4.20	4.21	4.44	4.45	4.45	4.45	4.46	4.71	4.71	4.72	4.72	4.73	
59°F (15.0°C)	TC	53179	53251	53308	53311	53382	56384	56451	56507	56518	56585	59753	59830	59897	59908	59975	63353	63422	63491	63501	63580	
	S/T	0.60	0.70	0.80	0.80	0.91	0.56	0.66	0.75	0.75	0.86	0.53	0.62	0.71	0.71	0.81	0.50	0.59	0.67	0.67	0.76	
	PI	4.07	4.08	4.08	4.08	4.09	4.32	4.32	4.33	4.33	4.33	4.57	4.58	4.59	4.59	4.59	4.85	4.86	4.86	4.86	4.87	
68°F (20.0°C)	TC	50942	51010	51065	51068	51136	54012	54076	54129	54140	54204	57239	57313	57377	57388	57452	60687	60753	60820	60829	60905	
	S/T	0.58	0.68	0.77	0.77	0.88	0.54	0.64	0.72	0.72	0.83	0.51	0.60	0.68	0.68	0.78	0.48	0.57	0.65	0.65	0.74	
	PI	4.19	4.20	4.20	4.20	4.21	4.44	4.45	4.45	4.45	4.46	4.71	4.71	4.72	4.72	4.73	4.99	5.00	5.00	5.00	5.01	
77°F (25.0°C)	TC	48704	48770	48822	48825	48890	51640	51701	51752	51762	51823	54725	54796	54867	54878	54928	58022	58085	58148	58157	58230	
	S/T	0.55	0.65	0.74	0.74	0.84	0.52	0.61	0.70	0.70	0.80	0.49	0.58	0.66	0.66	0.75	0.47	0.55	0.62	0.62	0.71	
	PI	4.31	4.32	4.32	4.32	4.33	4.57	4.58	4.58	4.58	4.59	4.84	4.85	4.85	4.86	4.86	5.13	5.14	5.15	5.15	5.15	
82°F (27.8°C)	TC	48059	48124	48175	48178	48242	50955	51016	51066	51076	51137	53999	54070	54130	54140	54200	57253	57315	57378	57387	57458	
	S/T	0.56	0.66	0.75	0.75	0.85	0.53	0.62	0.70	0.70	0.80	0.50	0.58	0.66	0.66	0.76	0.47	0.55	0.63	0.63	0.71	
	PI	4.39	4.39	4.40	4.40	4.40	4.65	4.65	4.66	4.66	4.67	4.93	4.93	4.94	4.94	4.95	5.22	5.23	5.24	5.24	5.24	
86°F (30.0°C)	TC	48297	48362	48414	48416	48481	51207	51268	51318	51329	51390	54267	54337	54398	54408	54468	57536	57599	57661	57670	57742	
	S/T	0.58	0.69	0.78	0.78	0.89	0.55	0.65	0.74	0.74	0.84	0.52	0.61	0.69	0.69	0.79	0.49	0.58	0.65	0.65	0.75	
	PI	4.46	4.46	4.47	4.47	4.47	4.72	4.73	4.74	4.74	4.74	5.01	5.01	5.02	5.02	5.03	5.31	5.31	5.32	5.32	5.33	
95°F (35.0°C)	TC	48831	48897	48950	48952	49018	51774	51836	51887	51897	51959	54867	54939	55000	55010	55072	58173	58237	58300	58309	58382	
	S/T	0.64	0.75	0.85	0.85	0.97	0.60	0.71	0.81	0.81	0.92	0.57	0.67	0.76	0.76	0.87	0.54	0.63	0.72	0.72	0.82	
	PI	4.62	4.62	4.63	4.63	4.63	4.90	4.90														

Climate 5000 Series - Gen 4

48K Btu Multi Zone Regular Outdoor Unit



Heating Performance - Indoor Dry Bulb Temperature at 1618 CFM (Ducted)										
Outdoor DB(°F)	TC Total Heating Capacity(BTU/hr)					PI Power Input(kW)				
	Indoor Conditions(DB °F)					Indoor Conditions(DB °F)				
	60.8°F (16.0°C)	68°F (20.0°C)	70°F (21.1°C)	71.6°F (22.0°C)	75.2°F (24.0°C)	60.8°F (16.0°C)	68°F (20.0°C)	70°F (21.1°C)	71.6°F (22.0°C)	75.2°F (24.0°C)
-13°F(-25.0°C)	24890	24392	24270	24173	23956	4.75	4.79	4.80	4.81	4.82
-4°F(-20.0°C)	25638	25126	25000	24900	24676	4.27	4.30	4.31	4.32	4.34
0°F(-17.8°C)	31564	30932	30778	30655	30379	4.70	4.74	4.75	4.76	4.78
5°F(-15.0°C)	38970	38191	38000	37848	37507	5.25	5.29	5.30	5.31	5.33
14°F(-10.0°C)	42047	41206	41000	40836	40468	5.12	5.16	5.17	5.18	5.20
17°F(-8.3°C)	43073	42211	42000	41832	41456	5.08	5.12	5.13	5.14	5.16
22°F(-5.6°C)	43128	42266	42054	41886	41509	4.94	4.98	4.99	5.00	5.02
27°F(-2.8°C)	43184	42320	42108	41940	41563	4.80	4.84	4.85	4.86	4.88
32°F(-0.0°C)	43239	42374	42163	41994	41616	4.66	4.70	4.71	4.72	4.74
35°F(1.7°C)	43273	42407	42195	42026	41648	4.58	4.62	4.63	4.64	4.65
37°F(2.8°C)	45119	44217	43996	43820	43426	4.63	4.66	4.67	4.68	4.70
42°F(5.6°C)	49736	48742	48498	48304	47869	4.74	4.78	4.79	4.80	4.81
44.6°F(7.0°C)	51583	50552	50299	50098	49647	4.78	4.82	4.83	4.84	4.86
47°F(8.3°C)	54353	53266	53000	52788	52313	4.85	4.89	4.90	4.91	4.93
52°F(11.1°C)	56703	55568	55291	55069	54574	4.40	4.44	4.45	4.46	4.47
57°F(13.9°C)	59052	57871	57581	57351	56835	3.95	3.98	3.99	4.00	4.02
59°F(15.0°C)	59991	58792	58498	58264	57739	3.77	3.80	3.81	3.82	3.83
62°F(16.7°C)	61401	60173	59872	59632	59096	3.50	3.53	3.54	3.55	3.56
64.4°F(18.0°C)	62340	61094	60788	60545	60000	3.32	3.35	3.36	3.36	3.38

Bolded values were tested. All other values are simulated and for reference only.

Climate 5000 Series - Gen 4

48K Btu Multi Zone Regular Outdoor Unit



Heating Performance - Indoor Dry Bulb Temperature at 2206 CFM (Non-Ducted)										
Outdoor DB(°F)	TC Total Heating Capacity(BTU/hr)					PI Power Input(kW)				
	Indoor Conditions(DB °F)					Indoor Conditions(DB °F)				
	60.8°F (16.0°C)	68°F (20.0°C)	70°F (21.1°C)	71.6°F (22.0°C)	75.2°F (24.0°C)	60.8°F (16.0°C)	68°F (20.0°C)	70°F (21.1°C)	71.6°F (22.0°C)	75.2°F (24.0°C)
-13°F(-25.0°C)	27689	27136	27000	26892	26650	4.75	4.79	4.80	4.81	4.82
-4°F(-20.0°C)	33022	32362	32200	32071	31783	5.08	5.12	5.13	5.14	5.16
0°F(-17.8°C)	34754	34059	33889	33753	33450	5.14	5.18	5.19	5.20	5.23
5°F(-15.0°C)	36919	36181	36000	35856	35533	5.22	5.26	5.28	5.29	5.31
14°F(-10.0°C)	37996	37236	37050	36902	36570	5.27	5.31	5.32	5.33	5.36
17°F(-8.3°C)	38355	37588	37400	37250	36915	5.29	5.33	5.34	5.35	5.37
22°F(-5.6°C)	39674	38881	38686	38531	38185	5.10	5.14	5.15	5.16	5.18
27°F(-2.8°C)	40993	40173	39972	39813	39454	4.92	4.96	4.97	4.98	5.00
32°F(-0.0°C)	42312	41466	41259	41094	40724	4.73	4.77	4.78	4.79	4.81
35°F(1.7°C)	43104	42242	42030	41862	41485	4.62	4.66	4.67	4.68	4.69
37°F(2.8°C)	44979	44079	43859	43683	43290	4.66	4.70	4.71	4.71	4.73
42°F(5.6°C)	49666	48673	48429	48236	47801	4.75	4.79	4.80	4.81	4.83
44.6°F(7.0°C)	51541	50510	50258	50057	49606	4.79	4.83	4.84	4.85	4.87
47°F(8.3°C)	54353	53266	53000	52788	52313	4.85	4.89	4.90	4.91	4.93
52°F(11.1°C)	52784	51728	51469	51263	50802	4.29	4.33	4.34	4.34	4.36
57°F(13.9°C)	51214	50190	49939	49739	49291	3.73	3.76	3.77	3.78	3.79
59°F(15.0°C)	50586	49574	49326	49129	48687	3.51	3.54	3.54	3.55	3.57
62°F(16.7°C)	49644	48651	48408	48214	47780	3.17	3.20	3.21	3.21	3.23
64.4°F(18.0°C)	49016	48036	47796	47604	47176	2.95	2.97	2.98	2.99	3.00

Bolded values were tested. All other values are simulated and for reference only.