



Performance Data VS/VL 080

Rated Air Flow 2600 SCFM

VS/VL Submittal Data

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

VS - Water temperature range (60°F - 110°F)
VL - Water temperature range (40°F - 110°F)

Water Rate GPM	Entering Water Temp. °F	Cooling Performance - EAT 80/67°F					Heating Performance - EAT 70°F				Water PD Ft. H ₂ O
		Total Cooling BTUH	Sensible Cooling BTUH	Rejected Heat BTUH	Power Input Watts	EER	Heating Capacity BTUH	Heat of Absorpt. BTUH	Power Input Watts	COP	
9	40	80,722	58,822	93,790	3,830	21.1	Operation Not Recommended				3.7
13.5		81,696	59,159	94,157	3,652	22.4					5.2
18		82,200	59,217	94,364	3,565	23.1					8.2
23		82,410	59,566	94,488	3,540	23.3					12.6
9	50	79,292	58,928	93,578	4,187	18.9	65,436	46,953	5,417	3.5	3.7
13.5		80,320	59,278	93,985	4,005	20.1	67,517	48,867	5,466	3.6	5.2
18		80,852	59,413	94,248	3,926	20.6	68,615	49,876	5,492	3.7	8.2
23		81,168	59,548	94,400	3,878	20.9	69,364	50,564	5,510	3.7	12.6
9	60	77,741	59,042	93,307	4,562	17.0	72,873	53,759	5,602	3.8	3.7
13.5		78,853	59,421	93,777	4,374	18.0	75,153	55,844	5,659	3.9	5.2
18		79,467	59,581	94,111	4,292	18.5	76,382	56,961	5,692	3.9	8.2
23		79,832	59,691	94,289	4,237	18.8	77,227	57,727	5,715	4.0	12.6
9	70	75,616	58,775	92,509	4,951	15.3	80,665	60,841	5,810	4.1	3.7
13.5		76,780	59,154	92,987	4,750	16.2	83,305	63,352	5,848	4.2	5.2
18		77,440	59,328	93,354	4,664	16.6	84,851	64,768	5,886	4.2	8.2
23		77,812	59,479	93,538	4,609	16.9	85,887	65,712	5,913	4.3	12.6
9	80	73,329	58,072	91,665	5,374	13.6	88,670	68,089	6,032	4.3	3.7
13.5		74,443	58,616	92,052	5,161	14.4	92,032	71,140	6,123	4.4	5.2
18		75,124	58,788	92,419	5,069	14.8	93,916	72,871	6,168	4.5	8.2
23		75,495	58,936	92,589	5,010	15.1	94,976	73,791	6,209	4.5	12.6
9	90	71,735	58,559	91,811	5,884	12.2	—	—	—	—	3.7
13.5		72,214	57,878	91,407	5,625	12.8					5.2
18		72,822	58,212	91,697	5,532	13.2					8.2
23		73,178	58,346	91,842	5,470	13.4					12.6
9	100	68,996	57,420	90,942	6,432	10.7	—	—	—	—	3.7
13.5		70,186	57,904	91,218	6,164	11.4					5.2
18		70,876	58,160	91,539	6,056	11.7					8.2
23		71,221	58,316	91,642	5,985	11.9					12.6
9	110	Operation Not Recommended					—	—	—	—	3.7
13.5											5.2
18		67,954	57,113	90,617	6,642	10.2					8.2
23		68,318	57,275	90,694	6,558	10.4					12.6

Correction Factors For Variations in Entering Air Flow

Total Entering SCFM	Cooling				Heating		
	Total Cooling Capacity	Sensible Cooling Capacity	Heat of Rejection	Input Power Watts	Total Heating Capacity	Heat of Absorption	Power Input Watts
2300	0.987	0.937	0.951	0.980	0.989	0.989	0.991
2500	0.995	0.976	0.975	0.991	0.995	0.997	0.989
2600	1.000	1.000	1.000	1.000	1.000	1.000	1.000
2700	1.002	1.011	1.002	1.002	1.002	1.004	0.995
2900	1.019	1.067	1.037	1.022	1.009	1.010	1.006
3100	1.022	1.096	1.071	1.032	1.016	1.014	1.023
3300	1.023	1.123	1.110	1.040	1.024	1.018	1.045

Correction Factors For Variations In Entering Air Temperature

Cooling								Heating			
Entering Air °F WB	Total Cooling Capacity	Sensible Cooling Capacity Entering Dry Bulb					Heat of Rejection	Entering Air °F DB	Total Heating Capacity	Heat of Absorp.	Power Input
		70° DB	75° DB	80° DB	85° DB	90° DB					
57	0.982	1.017	*	*	*	*	0.985	55	1.018	1.063	0.872
61	0.983	0.825	1.061	*	*	*	0.985	60	1.012	1.043	0.911
64	0.980	0.686	0.912	1.145	*	*	0.983	65	1.006	1.022	0.954
67	1.000	0.549	0.771	1.000	1.230	*	1.000	70	1.000	1.000	1.000
70	1.045	0.417	0.631	0.856	1.104	1.315	1.038	75	0.991	0.974	1.046

Cooling Corrections * Sensible Equals Total



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Performance Data VS/VL 100

Rated Air Flow 3500 SCFM

VS/VL Submittal Data

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

VS - Water temperature range (60°F - 110°F)
VL - Water temperature range (40°F - 110°F)

Water Rate GPM	Entering Water Temp. °F	Cooling Performance - EAT 80/67°F					Heating Performance - EAT 70°F				Water PD Ft. H ₂ O
		Total Cooling BTUH	Sensible Cooling BTUH	Rejected Heat BTUH	Power Input Watts	EER	Heating Capacity BTUH	Heat of Absorpt. BTUH	Power Input Watts	COP	
13	40	112,510	79,307	135,435	6,719	16.7	Operation Not Recommended				5.0
19		114,044	79,912	136,109	6,467	17.6					9.0
26		114,951	80,259	136,542	6,328	18.2					15.5
33		115,377	80,553	136,695	6,248	18.5					23.1
13	50	110,921	79,479	135,757	7,279	15.2	84,719	58,583	7,660	3.2	5.0
19		112,634	80,129	136,607	7,026	16.0	85,933	59,599	7,718	3.3	9.0
26		113,674	80,509	137,169	6,886	16.5	92,859	65,300	8,077	3.4	15.5
33		114,287	80,782	137,506	6,805	16.8	96,440	68,236	8,266	3.4	23.1
13	60	107,916	79,182	134,659	7,838	13.8	97,933	69,306	8,390	3.4	5.0
19		109,777	79,838	135,671	7,589	14.5	101,678	72,935	8,424	3.5	9.0
26		110,938	80,225	136,354	7,449	14.9	106,253	76,343	8,766	3.6	15.5
33		111,595	80,495	136,738	7,369	15.1	110,586	79,868	9,003	3.6	23.1
13	70	104,361	78,074	132,868	8,355	12.5	113,454	82,282	9,136	3.6	5.0
19		106,308	78,760	134,013	8,120	13.1	115,367	83,902	9,222	3.7	9.0
26		107,340	79,328	134,616	7,994	13.4	120,154	87,791	9,485	3.7	15.5
33		108,019	79,598	135,032	7,917	13.6	125,464	92,136	9,768	3.8	23.1
13	80	100,084	76,763	130,307	8,858	11.3	128,930	95,025	9,937	3.8	5.0
19		101,874	77,656	131,381	8,648	11.8	130,817	96,533	10,048	3.8	9.0
26		103,343	77,864	132,389	8,513	12.1	134,872	99,950	10,235	3.9	15.5
33		104,029	78,132	132,833	8,442	12.3	141,443	105,245	10,609	3.9	23.1
13	90	95,447	75,747	127,400	9,365	10.2	145,332	108,397	10,825	3.9	5.0
19		97,483	76,383	128,740	9,161	10.6	147,681	110,299	10,956	4.0	9.0
26		98,930	76,565	129,764	9,037	10.9	—	—	—	—	15.5
33		99,414	77,034	130,067	8,984	11.1	—	—	—	—	23.1
13	100	90,207	74,118	123,740	9,828	9.2	—	—	—	—	5.0
19		92,255	74,671	125,136	9,637	9.6	—	—	—	—	9.0
26		93,528	75,030	126,048	9,531	9.8	—	—	—	—	15.5
33		94,195	75,273	126,520	9,474	9.9	—	—	—	—	23.1
13	110	Operation Not Recommended					—	—	—	—	5.0
19											9.0
26		88,243	73,183	122,346	9,995	8.8					15.5
33		88,842	73,542	122,785	9,948	8.9					23.1

Correction Factors For Variations in Entering Air Flow

Total Entering SCFM	Cooling				Heating		
	Total Cooling Capacity	Sensible Cooling Capacity	Heat of Rejection	Input Power Watts	Total Heating Capacity	Heat of Absorption	Power Input Watts
3000	0.978	0.930	0.971	0.949	0.986	0.984	0.993
3200	0.989	0.955	0.984	0.968	0.994	0.994	0.996
3400	0.995	0.984	0.994	0.989	1.001	1.002	1.000
3500	1.000	1.000	1.000	1.000	1.000	1.000	1.000
3600	1.005	1.010	1.005	1.005	1.008	1.009	1.006
3800	1.011	1.037	1.016	1.034	1.015	1.015	1.015
4000	1.015	1.068	1.025	1.061	1.022	1.021	1.026
4200	1.019	1.088	1.034	1.085	1.027	1.022	1.039

Correction Factors For Variations In Entering Air Temperature

Cooling								Heating			
Entering Air °F WB	Total Cooling Capacity	Sensible Cooling Capacity Entering Dry Bulb					Heat of Rejection	Entering Air °F DB	Total Heating Capacity	Heat of Absorp.	Power Input
		70° DB	75° DB	80° DB	85° DB	90° DB					
57	0.994	1.017	*	*	*	*	0.995	55	1.048	1.091	0.928
61	0.995	0.820	1.055	*	*	*	0.995	60	1.033	1.061	0.953
64	0.975	0.683	0.915	1.143	*	*	0.978	65	1.018	1.032	0.978
67	1.000	0.548	0.776	1.000	1.235	*	1.000	70	1.000	1.000	1.000
70	1.048	0.426	0.633	0.857	1.087	1.331	1.042	75	0.986	0.973	1.022

Cooling Corrections * Sensible Equals Total



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Performance Data VS/VL 120

Rated Air Flow 4200 SCFM

VS/VL Submittal Data

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

VS - Water temperature range (60°F - 110°F)
VL - Water temperature range (40°F - 110°F)

Cooling Performance - EAT 80/67°F							Heating Performance - EAT 70°F				Water PD Ft. H ₂ O
Water Rate GPM	Entering Water Temp. °F	Total Cooling BTUH	Sensible Cooling BTUH	Rejected Heat BTUH	Power Input Watts	EER	Heating Capacity BTUH	Heat of Absorpt. BTUH	Power Input Watts	COP	
16	40	134,875	94,734	162,823	8,191	16.5	Operation Not Recommended				6.8
23.5		136,536	95,620	163,498	7,902	17.3					13.1
31		137,636	95,938	164,052	7,742	17.8					20.8
39		138,472	96,396	164,676	7,680	18.0					30.7
16	50	132,539	94,806	162,725	8,847	15.0	98,467	67,916	8,954	3.2	6.8
23.5		134,595	95,609	163,805	8,561	15.7	99,697	68,948	9,012	3.2	13.1
31		135,769	96,033	164,481	8,415	16.1	108,216	75,904	9,470	3.3	20.8
39		136,517	96,368	164,908	8,321	16.4	112,099	79,146	9,658	3.4	30.7
16	60	128,865	94,109	161,166	9,467	13.6	113,936	80,649	9,756	3.4	6.8
23.5		131,074	94,941	162,447	9,195	14.3	123,170	88,351	10,205	3.5	13.1
31		132,352	95,393	163,248	9,055	14.6	127,917	92,330	10,430	3.6	20.8
39		133,135	95,730	163,727	8,966	14.8	130,554	94,568	10,547	3.6	30.7
16	70	124,158	92,810	158,445	10,049	12.4	132,333	96,053	10,633	3.6	6.8
23.5		126,466	93,649	159,880	9,793	12.9	139,080	101,623	10,978	3.7	13.1
31		127,817	94,114	160,784	9,662	13.2	144,668	106,263	11,256	3.8	20.8
39		128,620	94,447	161,300	9,578	13.4	147,973	109,107	11,391	3.8	30.7
16	80	118,686	91,460	154,915	10,618	11.2	149,708	110,446	11,507	3.8	6.8
23.5		121,264	91,980	156,633	10,366	11.7	155,767	115,587	11,776	3.9	13.1
31		122,653	92,441	157,606	10,244	12.0	162,571	121,173	12,133	3.9	20.8
39		123,464	92,766	158,150	10,166	12.1	166,138	124,129	12,312	4.0	30.7
16	90	113,267	89,850	151,379	11,170	10.1	168,733	126,329	12,428	4.0	6.8
23.5		115,890	90,302	153,190	10,932	10.6	—	—	—	—	13.1
31		117,055	91,103	154,021	10,834	10.8	—	—	—	—	20.8
39		117,885	91,374	154,602	10,761	11.0	—	—	—	—	30.7
16	100	107,709	88,140	147,732	11,730	9.2	—	—	—	—	6.8
23.5		110,061	89,039	149,350	11,515	9.6	—	—	—	—	13.1
31		111,438	89,549	150,359	11,407	9.8	—	—	—	—	20.8
39		112,213	89,875	150,902	11,339	9.9	—	—	—	—	30.7
16	110	Operation Not Recommended					—	—	—	—	6.8
23.5							—	—	—	—	13.1
31		104,884	87,126	145,709	11,965	8.8	—	—	—	—	20.8
39		105,663	87,446	146,269	11,901	8.9	—	—	—	—	30.7

Correction Factors For Variations in Entering Air Flow

Total Entering SCFM	Cooling				Heating		
	Total Cooling Capacity	Sensible Cooling Capacity	Heat of Rejection	Input Power Watts	Total Heating Capacity	Heat of Absorption	Power Input Watts
3500	0.978	0.925	0.935	0.968	0.977	0.975	0.983
3700	0.986	0.949	0.953	0.978	0.982	0.980	0.986
3900	0.994	0.969	0.971	0.989	0.990	0.990	0.989
4100	0.999	0.991	0.991	0.997	0.996	0.997	0.996
4200	1.000	1.000	1.000	1.000	1.000	1.000	1.000
4300	1.002	1.016	1.012	1.004	1.001	1.000	1.004
4500	1.005	1.037	1.034	1.011	1.006	1.003	1.013
4700	1.013	1.065	1.059	1.023	1.014	1.010	1.024

Correction Factors For Variations In Entering Air Temperature

Cooling								Heating			
Entering Air °F WB	Total Cooling Capacity	Sensible Cooling Capacity Entering Dry Bulb					Heat of Rejection	Entering Air °F DB	Total Heating Capacity	Heat of Absorp.	Power Input
		70° DB	75° DB	80° DB	85° DB	90° DB					
57	0.974	1.010	*	*	*	*	0.978	55	1.046	1.088	0.927
61	0.975	0.823	1.055	*	*	*	0.977	60	1.033	1.062	0.951
64	0.965	0.690	0.915	1.143	*	*	0.973	65	1.015	1.028	0.978
67	1.000	0.556	0.776	1.000	1.235	*	1.005	70	1.000	1.000	1.000
70	1.049	0.431	0.633	0.857	1.092	1.322	1.042	75	0.984	0.970	1.024

Cooling Corrections * Sensible Equals Total



LC099

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Rev.: 6/00

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Performance Data VS/VL 160

Rated Air Flow 5200 SCFM

VS/VL Submittal Data

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

VS - Water temperature range (60°F - 110°F)
VL - Water temperature range (40°F - 110°F)

Cooling Performance - EAT 80/67 F°							Heating Performance - EAT 70°F				Water PD Ft. H ₂ O
Water Rate GPM	Entering Water Temp. °F	Total Cooling Btuh	Sensible Cooling Btuh	Rejected Heat Btuh	Power Input Watts	EER	Heating Capacity Btuh	Heat of Absorpt. Btuh	Power Input Watts	COP	
18	40	161,444	117,644	187,580	7,660	21.1	Operation Not Recommended				3.7
27		163,392	118,318	188,313	7,304	22.4					5.2
36		164,400	118,434	188,728	7,130	23.1					8.2
46		164,820	119,132	188,977	7,080	23.3					12.6
18	50	158,584	117,856	187,156	8,374	18.9	122,117	85,902	10,614	3.4	3.7
27		160,640	118,556	187,970	8,010	20.1	123,369	87,052	10,644	3.4	5.2
36		161,704	118,826	188,495	7,852	20.6	130,872	93,906	10,834	3.5	8.2
46		162,336	119,096	188,799	7,756	20.9	135,034	97,734	10,932	3.6	12.6
18	60	155,482	118,084	186,613	9,124	17.0	137,229	99,752	10,984	3.7	3.7
27		157,706	118,842	187,554	8,748	18.0	138,728	101,128	11,020	3.7	5.2
36		158,934	119,162	188,223	8,584	18.5	145,746	107,518	11,204	3.8	8.2
46		159,664	119,382	188,577	8,474	18.8	150,305	111,688	11,318	3.9	12.6
18	70	151,232	117,550	185,018	9,902	15.3	152,764	113,922	11,384	3.9	3.7
27		153,560	118,308	185,974	9,500	16.2	154,453	115,454	11,430	4.0	5.2
36		154,880	118,656	186,707	9,328	16.6	161,329	121,682	11,620	4.1	8.2
46		155,624	118,958	187,076	9,218	16.9	166,611	126,704	11,696	4.2	12.6
18	80	146,658	116,144	183,330	10,748	13.6	169,702	129,536	11,772	4.2	3.7
27		148,886	117,232	184,105	10,322	14.4	171,774	131,424	11,826	4.3	5.2
36		150,248	117,576	184,839	10,138	14.8	177,340	136,178	12,064	4.3	8.2
46		150,990	117,872	185,178	10,020	15.1	184,063	142,280	12,246	4.4	12.6
18	90	143,470	117,118	183,622	11,768	12.2	187,832	145,742	12,336	4.5	3.7
27		144,428	115,756	182,813	11,250	12.8	189,952	147,582	12,418	4.5	5.2
36		145,644	116,424	183,394	11,064	13.2	—	—	—	—	8.2
46		146,356	116,692	183,683	10,940	13.4	—	—	—	—	12.6
18	100	137,992	114,840	181,884	12,864	10.7	—	—	—	—	3.7
27		140,372	115,808	182,435	12,328	11.4	—	—	—	—	5.2
36		141,752	116,320	183,078	12,112	11.7	—	—	—	—	8.2
46		142,442	116,632	183,284	11,970	11.9	—	—	—	—	12.6
18	110	Operation Not Recommended					—	—	—	—	3.7
27							—	—	—	—	5.2
36		135,908	114,226	181,233	13,284	10.2	—	—	—	—	8.2
46		136,636	114,550	181,388	13,116	10.4	—	—	—	—	12.6

Correction Factors For Variations in Entering Air Flow

Cooling					Heating		
Total Entering SCFM	Total Cooling Capacity	Sensible Cooling Capacity	Heat of Rejection	Input Power Watts	Total Heating Capacity	Heat of Absorption	Power Input Watts
4600	0.987	0.937	0.951	0.980	0.989	0.989	0.991
5000	0.995	0.976	0.975	0.991	0.995	0.997	0.989
5200	1.000	1.000	1.000	1.000	1.000	1.000	1.000
5400	1.002	1.011	1.002	1.002	1.002	1.004	0.995
5800	1.019	1.067	1.037	1.022	1.009	1.010	1.006
6200	1.022	1.096	1.071	1.032	1.016	1.014	1.023
6600	1.023	1.123	1.110	1.040	1.024	1.018	1.045

Correction Factors For Variations In Entering Air Temperature

Cooling								Heating			
Entering Air °F WB	Total Cooling Capacity	Sensible Cooling Capacity Entering Dry Bulb					Heat of Rejection	Entering Air °F DB	Total Heating Capacity	Heat of Absorp.	Power Input
		70° DB	75° DB	80° DB	85° DB	90° DB					
57	0.982	1.017	*	*	*	*	0.985	55	1.018	1.063	0.872
61	0.983	0.825	1.061	*	*	*	0.985	60	1.012	1.043	0.911
64	0.980	0.686	0.912	1.145	*	*	0.983	65	1.006	1.022	0.954
67	1.000	0.549	0.771	1.000	1.230	*	1.000	70	1.000	1.000	1.000
70	1.045	0.417	0.631	0.856	1.104	1.315	1.038	75	0.991	0.974	1.046

Cooling Corrections * Sensible Equals Total



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Performance Data VS/VL 200

Rated Air Flow 7000 SCFM

VS/VL Submittal Data

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

VS - Water temperature range (60°F - 110°F)
VL - Water temperature range (40°F - 110°F)

Water Rate GPM	Entering Water Temp. °F	Cooling Performance - EAT 80/67°F					Heating Performance - EAT 70°F				Water PD Ft. H ₂ O
		Total Cooling BTUH	Sensible Cooling BTUH	Rejected Heat BTUH	Power Input Watts	EER	Heating Capacity BTUH	Heat of Absorpt. BTUH	Power Input Watts	COP	
26	40	225,020	158,614	270,870	13,438	16.7	Operation Not Recommended				5.0
38		228,088	159,824	272,219	12,934	17.6					9.0
52		229,902	160,518	273,084	12,656	18.2					15.5
66		230,754	161,106	273,390	12,496	18.5					23.1
26	50	221,842	158,958	271,514	14,558	15.2	185,717	130,600	16,154	3.4	5.0
38		225,268	160,258	273,213	14,052	16.0	192,879	136,472	16,532	3.4	9.0
52		227,348	161,018	274,338	13,772	16.5	195,865	138,612	16,780	3.4	15.5
66		228,574	161,564	275,011	13,610	16.8	203,355	145,870	16,848	3.5	23.1
26	60	215,832	158,364	269,319	15,676	13.8	212,505	152,686	17,532	3.6	5.0
38		219,554	159,676	271,341	15,178	14.5	221,172	159,736	18,006	3.6	9.0
52		221,876	160,450	272,708	14,898	14.9	226,908	164,564	18,272	3.6	15.5
66		223,190	160,990	273,476	14,738	15.1	230,735	167,804	18,444	3.7	23.1
26	70	208,722	156,148	265,737	16,710	12.5	240,308	175,582	18,970	3.7	5.0
38		212,616	157,520	268,027	16,240	13.1	250,929	184,272	19,536	3.8	9.0
52		214,680	158,656	269,231	15,988	13.4	257,860	190,050	19,874	3.8	15.5
66		216,038	159,196	270,064	15,834	13.6	261,634	193,066	20,096	3.8	23.1
26	80	200,168	153,526	260,615	17,716	11.3	269,744	199,900	20,470	3.9	5.0
38		203,748	155,312	262,762	17,296	11.8	282,886	210,490	21,218	3.9	9.0
52		206,686	155,728	264,779	17,026	12.1	290,664	216,794	21,650	3.9	15.5
66		208,058	156,264	265,666	16,884	12.3	295,362	220,598	21,912	4.0	23.1
26	90	190,894	151,494	254,801	18,730	10.2	—	—	—	—	5.0
38		194,966	152,766	257,481	18,322	10.6					9.0
52		197,860	153,130	259,528	18,074	10.9					15.5
66		198,828	154,068	260,135	17,968	11.1					23.1
26	100	180,414	148,236	247,480	19,656	9.2	—	—	—	—	5.0
38		184,510	149,342	250,273	19,274	9.6					9.0
52		187,056	150,060	252,096	19,062	9.8					15.5
66		188,390	150,546	253,041	18,948	9.9					23.1
26	110	Operation Not Recommended					—	—	—	—	5.0
38											9.0
52		176,486	146,366	244,692	19,990	8.8					15.5
66		177,684	147,084	245,569	19,896	8.9					23.1

Correction Factors For Variations in Entering Air Flow

Total Entering SCFM	Cooling				Heating		
	Total Cooling Capacity	Sensible Cooling Capacity	Heat of Rejection	Input Power Watts	Total Heating Capacity	Heat of Absorption	Power Input Watts
6000	0.977	0.929	0.951	0.971	0.987	0.984	0.995
6400	0.989	0.955	0.968	0.984	0.994	0.994	0.996
6800	0.995	0.984	0.989	0.994	1.001	1.002	1.000
7000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
7200	1.004	1.008	1.008	1.005	0.737	1.009	1.005
7600	1.007	1.037	1.031	1.012	1.015	1.015	1.013
8000	1.011	1.061	1.054	1.021	1.021	1.021	1.023
8400	1.013	1.085	1.078	1.028	1.025	1.022	1.034

Correction Factors For Variations In Entering Air Temperature

Cooling								Heating			
Entering Air °F WB	Total Cooling Capacity	Sensible Cooling Capacity Entering Dry Bulb					Heat of Rejection	Entering Air °F DB	Total Heating Capacity	Heat of Absorp.	Power Input
		70° DB	75° DB	80° DB	85° DB	90° DB					
57	0.994	1.017	*	*	*	*	0.995	55	1.048	1.091	0.928
61	0.995	0.820	1.068	*	*	*	0.995	60	1.033	1.061	0.953
64	0.975	0.683	0.910	1.154	*	*	0.978	65	1.018	1.032	0.978
67	1.000	0.548	0.770	1.000	1.243	*	1.000	70	1.000	1.000	1.000
70	1.048	0.426	0.633	0.857	1.087	1.331	1.042	75	0.986	0.973	1.022

Cooling Corrections * Sensible Equals Total



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Performance Data VS/VL 240

Rated Air Flow 8400 SCFM

VS/VL Submittal Data

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

VS - Water temperature range (60°F - 110°F)
VL - Water temperature range (40°F - 110°F)

Cooling Performance - EAT 80/67°F							Heating Performance - EAT 70°F				Water PD Ft. H ₂ O
Water Rate GPM	Entering Water Temp. °F	Total Cooling BTUH	Sensible Cooling BTUH	Rejected Heat BTUH	Power Input Watts	EER	Heating Capacity BTUH	Heat of Absorp. BTUH	Power Input Watts	COP	
32	40	269,750	189,468	325,645	16,382	16.5	Operation Not Recommended				6.8
47		273,072	191,240	326,995	15,804	17.3					13.1
62		275,272	191,876	328,103	15,484	17.8					20.8
78		276,944	192,792	329,352	15,360	18.0					30.7
32	50	265,078	189,612	325,450	17,694	15.0	216,431	151,808	18,940	3.3	6.8
47		269,190	191,218	327,610	17,122	15.7	224,198	158,292	19,316	3.4	13.1
62		271,538	192,066	328,962	16,830	16.1	227,873	161,298	19,512	3.4	20.8
78		273,034	192,736	329,817	16,642	16.4	231,621	164,616	19,638	3.5	30.7
32	60	257,730	188,218	322,333	18,934	13.6	246,341	176,702	20,410	3.5	6.8
47		262,148	189,882	324,895	18,390	14.3	255,834	184,660	20,860	3.6	13.1
62		264,704	190,786	326,495	18,110	14.6	261,109	189,136	21,094	3.6	20.8
78		266,270	191,460	327,454	17,932	14.8	264,666	192,106	21,266	3.6	30.7
32	70	248,316	185,620	316,890	20,098	12.4	278,160	203,246	21,956	3.7	6.8
47		252,932	187,298	319,759	19,586	12.9	289,337	212,526	22,512	3.8	13.1
62		255,634	188,228	321,567	19,324	13.2	295,946	218,214	22,782	3.8	20.8
78		257,240	188,894	322,600	19,156	13.4	299,416	220,892	23,014	3.8	30.7
32	80	237,372	182,920	309,829	21,236	11.2	311,533	231,174	23,552	3.9	6.8
47		242,528	183,960	313,266	20,732	11.7	325,142	242,346	24,266	3.9	13.1
62		245,306	184,882	315,211	20,488	12.0	332,275	248,258	24,624	4.0	20.8
78		246,928	185,532	316,301	20,332	12.1	337,467	252,658	24,856	4.0	30.7
32	90	226,534	179,700	302,758	22,340	10.1	—	—	—	—	6.8
47		231,780	180,604	306,380	21,864	10.6					13.1
62		234,110	182,206	308,041	21,668	10.8					20.8
78		235,770	182,748	309,203	21,522	11.0					30.7
32	100	215,418	176,280	295,464	23,460	9.2	—	—	—	—	6.8
47		220,122	178,078	298,700	23,030	9.6					13.1
62		222,876	179,098	300,717	22,814	9.8					20.8
78		224,426	179,750	301,803	22,678	9.9					30.7
32	110	Operation Not Recommended					—	—	—	—	6.8
47											13.1
62											20.8
78											30.7

Correction Factors For Variations in Entering Air Flow

Total Entering SCFM	Cooling				Heating		
	Total Cooling Capacity	Sensible Cooling Capacity	Heat of Rejection	Input Power Watts	Total Heating Capacity	Heat of Absorption	Power Input Watts
7000	0.978	0.924	0.937	0.968	0.977	0.975	0.984
7400	0.985	0.948	0.955	0.978	0.982	0.980	0.988
7800	0.994	0.968	0.972	0.989	0.991	0.990	0.991
8200	0.999	0.991	0.991	0.997	0.996	0.997	0.996
8400	1.000	1.000	1.000	1.000	1.000	1.000	1.000
8600	1.002	1.016	1.012	1.004	1.001	1.000	1.003
9000	1.005	1.038	1.033	1.011	1.006	1.003	1.013
9400	1.013	1.065	1.057	1.023	1.014	1.010	1.023

Correction Factors For Variations In Entering Air Temperature

Entering Air °F WB	Total Cooling Capacity	Cooling						Heating			
		Sensible Cooling Capacity Entering Dry Bulb					Heat of Rejection	Entering Air °F DB	Total Heating Capacity	Heat of Absorp.	Power Input
		70° DB	75° DB	80° DB	85° DB	90° DB					
57	0.974	1.010	*	*	*	*	0.978	55	1.046	1.088	0.927
61	0.975	0.823	1.055	*	*	*	0.977	60	1.033	1.062	0.951
64	0.965	0.690	0.915	1.143	*	*	0.973	65	1.015	1.028	0.978
67	1.000	0.556	0.776	1.000	1.235	*	1.005	70	1.000	1.000	1.000
70	1.049	0.431	0.633	0.857	1.092	1.322	1.042	75	0.984	0.970	1.024

Cooling Corrections * Sensible Equals Total



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Performance Data VS/VL 300

Rated Air Flow 9000 SCFM

VS/VL Submittal Data

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

VS - Water temperature range (60°F - 110°F)
VL - Water temperature range (40°F - 110°F)

Water Rate GPM	Entering Water Temp. °F	Cooling Performance - EAT 80/67°F					Heating Performance - EAT 70°F				Water PD Ft. H ₂ O
		Total Cooling BTUH	Sensible Cooling BTUH	Rejected Heat BTUH	Power Input Watts	EER	Heating Capacity BTUH	Heat of Absorpt. BTUH	Power Input Watts	COP	
40	40	344,094	233,156	427,169	24,348	14.1	Operation Not Recommended				5.1
60		348,878	235,058	429,367	23,590	14.8					9.9
80		351,452	236,178	430,720	23,232	15.1					16.2
100		352,516	238,782	431,743	23,220	15.2					23.5
40	50	333,454	228,686	421,299	25,746	13.0	253,967	164,320	26,274	2.8	5.1
60		342,214	237,548	427,999	25,142	13.6	256,321	166,196	26,414	2.8	9.9
80		344,532	238,730	429,034	24,766	13.9	275,817	181,502	27,642	2.9	16.2
100		346,080	239,618	429,947	24,580	14.1	284,168	188,134	28,146	3.0	23.5
40	60	322,286	224,422	415,236	27,242	11.8	288,515	191,614	28,400	3.0	5.1
60		327,544	226,596	417,962	26,500	12.4	291,344	193,870	28,568	3.0	9.9
80		330,466	227,708	419,649	26,138	12.6	308,451	207,258	29,658	3.0	16.2
100		331,560	228,938	420,149	25,964	12.8	318,428	215,140	30,272	3.1	23.5
40	70	310,102	219,830	408,217	28,756	10.8	323,463	219,138	30,576	3.1	5.1
60		315,606	222,048	411,238	28,028	11.3	326,634	221,572	30,792	3.1	9.9
80		318,692	223,234	413,102	27,670	11.5	341,627	233,398	31,720	3.2	16.2
100		320,386	223,978	414,100	27,466	11.7	353,969	243,134	32,484	3.2	23.5
40	80	296,306	215,642	399,778	30,326	9.8	360,255	248,164	32,852	3.2	5.1
60		302,578	217,160	403,491	29,576	10.2	364,176	251,212	33,108	3.2	9.9
80		305,852	218,394	405,557	29,222	10.5	374,790	259,178	33,884	3.2	16.2
100		307,600	219,150	406,623	29,022	10.6	389,475	270,860	34,764	3.3	23.5
40	90	284,618	210,794	393,277	31,846	8.9	396,775	276,632	35,212	3.3	5.1
60		290,034	213,668	396,502	31,204	9.3	401,688	280,494	35,520	3.3	9.9
80		293,354	214,830	398,676	30,868	9.5	—	—	—	—	16.2
100		295,088	215,544	399,775	30,682	9.6	—	—	—	—	23.5
40	100	271,612	206,156	385,580	33,402	8.1	—	—	—	—	5.1
60		277,406	208,562	389,176	32,758	8.5	—	—	—	—	9.9
80		278,988	209,408	389,571	32,410	8.6	—	—	—	—	16.2
100		280,724	210,066	390,706	32,234	8.7	—	—	—	—	23.5
40	110	Operation Not Recommended					—	—	—	—	5.1
60							—	—	—	—	9.9
80							—	—	—	—	16.2
100							265,652	203,988	381,721	34,018	7.8
		267,356	204,744	382,859	33,852	7.9	—	—	—	—	23.5

Correction Factors For Variations in Entering Air Flow

Total Entering SCFM	Cooling				Heating		
	Total Cooling Capacity	Sensible Cooling Capacity	Heat of Rejection	Input Power Watts	Total Heating Capacity	Heat of Absorption	Power Input Watts
8000	0.980	0.951	0.956	0.974	0.985	0.982	0.992
8500	0.990	0.973	0.976	0.987	0.992	0.991	0.995
9000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
9500	1.001	1.023	1.023	1.006	1.008	1.008	1.009
10000	1.006	1.041	1.046	1.016	1.016	1.014	1.019
10500	1.012	1.071	1.076	1.028	1.341	1.481	1.031
11000	1.016	1.087	1.102	1.038	1.029	1.022	1.045

Correction Factors For Variations In Entering Air Temperature

Cooling								Heating			
Entering Air °F WB	Total Cooling Capacity	Sensible Cooling Capacity Entering Dry Bulb					Heat of Rejection	Entering Air °F DB	Total Heating Capacity	Heat of Absorp.	Power Input
		70° DB	75° DB	80° DB	85° DB	90° DB					
57	0.953	1.012	*	*	*	*	0.959	55	1.033	1.078	0.932
61	0.939	0.839	1.055	1.277	*	*	0.948	60	1.022	1.053	0.954
64	0.961	0.708	0.919	1.138	1.359	*	0.967	65	1.010	1.025	0.977
67	1.000	0.583	0.787	1.000	1.221	1.441	1.000	70	1.000	1.000	1.000
70	1.045	0.462	0.659	0.871	1.085	1.303	1.040	75	0.986	0.970	1.022

Cooling Corrections * Sensible Equals Total



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BLOWER PERFORMANCE

VS/VL Submittal Data

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

VS/VL080

SCFM Air Flow		EXTERNAL STATIC PRESSURE													
		.2	.3	.4	.5	.6	.7	.8	.9	1	1.1	1.2	1.3	1.4	1.5
2300	BHP	0.44	0.48	0.52	0.56	0.60	0.65	0.69	0.74	0.79	0.83	0.88	0.93	0.99	1.04
	RPM	618	657	694	730	765	799	833	866	898	929	960	990	1020	1049
2500	BHP	0.54	0.59	0.63	0.67	0.72	0.77	0.81	0.86	0.91	0.96	1.02	1.07	1.12	1.18
	RPM	657	693	728	762	795	827	859	890	920	950	980	1009	1037	1065
2700	BHP	0.67	0.71	0.76	0.81	0.86	0.91	0.96	1.01	1.06	1.11	1.17	1.22	1.28	1.33
	RPM	697	730	763	795	826	857	887	916	945	974	1002	1030	1057	1084
2900	BHP	0.81	0.86	0.91	0.96	1.01	1.06	1.11	1.17	1.22	1.28	1.34	1.39	1.45	1.51
	RPM	737	768	799	829	859	888	916	945	972	999	1026	1053	1079	1105
3100	BHP	0.97	1.02	1.07	1.13	1.18	1.24	1.29	1.35	1.41	1.47	1.52	1.58	1.64	1.71
	RPM	778	807	836	865	893	920	948	974	1001	1027	1052	1078	1103	1127
3300	BHP	1.15	1.21	1.26	1.32	1.38	1.43	1.49	1.55	1.61	1.67	1.73	1.80	1.86	1.92
	RPM	819	846	874	901	928	954	980	1005	1031	1056	1080	1104	1128	1152

"A" equals standard sheave RPM range.

"B" equals low RPM sheave option.

"C" equals high RPM sheave option.

Bold numbers require 2 horsepower motor.

Sheave setting vs. blower RPM

Turns Out	5	4.5	4	3.5	3	2.5	2	1.5	1	.5	0
"A" RPM Range	768	790	811	832	854	875	896	918	939	960	982
"B" RPM Range	591	614	636	659	682	705	727	750	773	795	818
"C" RPM Range	890	919	949	979	1008	1038	1068	1097	1127	1157	1186

VS/VL 100

SCFM Air Flow		EXTERNAL STATIC PRESSURE													
		.2	.3	.4	.5	.6	.7	.8	.9	1	1.1	1.2	1.3	1.4	1.5
3000	BHP	0.52	0.58	0.65	0.71	0.78	0.85	0.92	1.0	1.07	1.15	1.24	1.32	1.41	1.50
	RPM	534	571	607	641	675	708	740	771	802	832	861	890	918	946
3200	BHP	0.61	0.68	0.74	0.81	0.88	0.95	1.03	1.11	1.19	1.27	1.35	1.44	1.53	1.62
	RPM	558	593	627	660	692	724	754	784	814	843	871	899	926	953
3400	BHP	0.71	0.78	0.85	0.92	0.99	1.07	1.15	1.23	1.31	1.39	1.48	1.57	1.66	1.75
	RPM	582	615	647	679	710	740	770	799	827	855	883	910	936	962
3600	BHP	0.82	0.89	0.97	1.04	1.12	1.20	1.28	1.36	1.44	1.53	1.62	1.71	1.80	1.89
	RPM	606	638	669	699	729	758	786	814	842	868	895	921	947	972
3800	BHP	0.95	1.02	1.10	1.17	1.25	1.33	1.42	1.50	1.59	1.68	1.77	1.86	1.95	
	RPM	630	661	690	719	748	776	803	830	857	883	908	934	959	
4000	BHP	1.08	1.16	1.24	1.32	1.40	1.48	1.57	1.66	1.75	1.84	1.93			
	RPM	655	684	713	740	768	795	821	847	873	898	923			
4200	BHP	1.23	1.31	1.39	1.48	1.56	1.65	1.74	1.83	1.92					
	RPM	680	708	735	762	788	814	840	865	890					

"A" equals standard sheave RPM range.

"B" equals low RPM sheave option.

"C" equals high RPM sheave option.

Bold numbers require 2 horsepower motor.

Sheave setting vs. blower RPM

Turns Out	5	4.5	4	3.5	3	2.5	2	1.5	1	.5	0
"A" RPM Range	724	744	764	784	805	825	845	865	885	905	925
"B" RPM Range	523	543	563	583	603	624	644	664	684	704	724
"C" RPM Range	761	786	812	837	862	888	913	938	964	989	1014



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BLOWER PERFORMANCE

VS/VL Submittal Data

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

VS/VL 120

SCFM Air Flow		EXTERNAL STATIC PRESSURE													
		.2	.3	.4	.5	.6	.7	.8	.9	1	1.1	1.2	1.3	1.4	1.5
3500	BHP	0.82	0.89	0.96	1.04	1.11	1.19	1.27	1.36	1.44	1.53	1.62	1.71	1.80	
	RPM	619	651	682	713	742	772	800	828	856	883	910	936	961	
3700	BHP	0.95	1.02	1.10	1.17	1.25	1.33	1.42	1.50	1.59	1.68	1.77	1.86	1.96	
	RPM	645	675	705	734	763	791	818	845	872	898	924	949	974	
3900	BHP	1.09	1.16	1.24	1.32	1.40	1.49	1.57	1.66	1.75	1.84	1.94	2.03		
	RPM	671	700	729	757	784	811	837	863	889	914	939	964		
4100	BHP	1.24	1.32	1.40	1.48	1.57	1.66	1.74	1.84	1.93	2.02				
	RPM	697	725	752	779	806	832	857	882	907	937				
4300	BHP	1.40	1.49	1.57	1.66	1.75	1.84	1.93	2.02						
	RPM	724	750	776	802	828	853	877	902						
4500	BHP	1.59	1.67	1.76	1.85	1.94	2.04								
	RPM	750	776	801	826	850	874								
4700	BHP	1.78	1.87	1.96											
	RPM	777	801	825											

"A" equals standard sheave RPM range.

"B" equals low RPM sheave option.

Bold numbers require 3 horsepower motor.

Sheave setting vs. blower RPM

Turns Out	5	4.5	4	3.5	3	2.5	2	1.5	1	.5	0
"A" RPM Range	768	790	811	832	854	875	896	918	939	960	982
"B" RPM Range	603	624	644	664	684	704	724	744	764	784	805

VS/VL 160

SCFM Air Flow		EXTERNAL STATIC PRESSURE													
		.2	.3	.4	.5	.6	.7	.8	.9	1	1.1	1.2	1.3	1.4	1.5
4600	BHP	0.87	0.95	1.04	1.12	1.21	1.29	1.38	1.48	1.57	1.67	1.77	1.87	1.97	2.08
	RPM	618	657	694	730	765	799	833	866	898	929	960	990	1020	1049
5000	BHP	1.09	1.17	1.25	1.35	1.44	1.53	1.63	1.73	1.83	1.93	2.03	2.14	2.24	2.35
	RPM	657	693	728	762	795	827	859	890	920	950	980	1009	1027	1065
5400	BHP	1.33	1.42	1.52	1.61	1.71	1.81	1.91	2.01	2.12	2.22	2.33	2.44	2.55	2.67
	RPM	697	730	763	795	826	857	887	916	945	974	1002	1030	1057	1084
5800	BHP	1.62	1.71	1.81	1.91	2.02	2.12	2.23	2.34	2.45	2.56	2.67	2.78	2.90	
	RPM	737	768	799	829	859	888	916	945	972	999	1026	1053	1079	
6200	BHP	1.94	2.04	2.15	2.26	2.36	2.47	2.59	2.70	2.81	2.93				
	RPM	778	807	836	865	893	920	948	974	1001	1027				
6600	BHP	2.30	2.41	2.52	2.64	2.75	2.87	2.99							
	RPM	819	846	874	901	928	954	980							
7000	BHP	2.71	2.82	2.94											
	RPM	860	886	912											

"A" equals standard sheave RPM range.

"B" equals low RPM sheave option.

"C" equals high RPM sheave option.

Sheave setting vs. blower RPM

Turns Out	5	4.5	4	3.5	3	2.5	2	1.5	1	.5	0
"A" RPM Range	768	790	811	832	854	875	896	918	939	960	982
"B" RPM Range	591	614	636	659	682	705	727	750	773	795	818
"C" RPM Range	890	919	949	979	1008	1038	1068	1097	1127	1157	1186



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BLOWER PERFORMANCE

VS/VL Submittal Data

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

VS/VL 200

SCFM Air Flow		EXTERNAL STATIC PRESSURE																
		.2	.3	.4	.5	.6	.7	.8	.9	1	1.1	1.2	1.3	1.4	1.5			
6000	BHP	0.52	0.58	0.65	0.71	0.78	0.85	0.92	1.0	1.07	1.15	1.24	1.32	1.41	1.50			
	RPM	534	571	607	641	675	708	740	771	802	832	861	890	918	946			
6400	BHP	0.61	0.68	0.74	0.81	0.88	0.95	1.03	1.11	1.19	1.27	1.35	1.44	1.53	1.62			
	RPM	558	593	627	660	692	724	754	784	814	843	871	899	926	953			
6800	BHP	0.71	0.78	0.85	0.92	0.99	1.07	1.15	1.23	1.31	1.39	1.48	1.57	1.66	1.75			
	RPM	582	615	647	679	710	740	770	799	827	855	883	910	936	962			
7200	BHP	0.82	0.89	0.97	1.04	1.12	1.20	1.28	1.36	1.44	1.53	1.62	1.71	1.80	1.89			
	RPM	606	638	669	699	729	758	786	814	842	868	895	921	947	972			
7600	BHP	0.95	1.02	1.10	1.17	1.25	1.33	1.42	1.50	1.59	1.68	1.77	1.86	1.95				
	RPM	630	661	690	719	748	776	803	830	857	883	908	934	959				
8000	BHP	1.08	1.16	1.24	1.32	1.40	1.48	1.57	1.66	1.75	1.84	1.93	Not					
	RPM	655	684	713	740	768	795	821	847	873	898	923						
8400	BHP	1.23	1.31	1.39	1.48	1.56	1.65	1.74	1.83	1.92	Not							
	RPM	680	708	735	762	788	814	840	865	890								

Values are per blower and motor, 2 blowers and motors required.

"A" equals standard sheave RPM range.

"B" equals low RPM sheave option.

"C" equals high RPM sheave option.

Bold numbers require 2 horsepower motor.

Sheave setting vs. blower RPM

Turns Out	5	4.5	4	3.5	3	2.5	2	1.5	1	.5	0
"A" RPM Range	724	744	764	784	805	825	845	865	885	905	925
"B" RPM Range	523	543	563	583	603	624	644	664	684	704	724
"C" RPM Range	761	786	812	837	862	888	913	938	964	989	1014

VS/VL 240

SCFM Air Flow		EXTERNAL STATIC PRESSURE													
		.2	.3	.4	.5	.6	.7	.8	.9	1	1.1	1.2	1.3	1.4	1.5
7000	BHP	0.82	0.89	0.96	1.04	1.11	1.19	1.27	1.36	1.44	1.53	1.62	1.71	1.80	Operation Not Recommended
	RPM	619	651	682	713	742	772	800	828	856	883	910	936	961	
7400	BHP	0.95	1.02	1.10	1.17	1.25	1.33	1.42	1.50	1.59	1.68	1.77	1.86	1.96	
	RPM	645	675	705	734	763	791	818	845	872	898	924	949	974	
7800	BHP	1.09	1.16	1.24	1.32	1.40	1.49	1.57	1.66	1.75	1.84	1.94	2.03	Operation Not Recommended	
	RPM	671	700	729	757	784	811	837	863	889	914	939	964		
8200	BHP	1.24	1.32	1.40	1.48	1.57	1.66	1.74	1.84	1.93	2.02	Operation Not Recommended			
	RPM	697	725	752	779	806	832	857	882	907	937				
8600	BHP	1.40	1.49	1.57	1.66	1.75	1.84	1.93	2.02	Operation Not Recommended					
	RPM	724	750	776	802	828	853	877	902						
9000	BHP	1.59	1.67	1.76	1.85	1.94	2.04	Operation Not Recommended							
	RPM	750	776	801	826	850	874								
9400	BHP	1.78	1.87	1.96	Operation Not Recommended										
	RPM	777	801	825											

Values are per blower and motor, 2 blowers and motors required.

"A" equals standard sheave RPM range.

"B" equals low RPM sheave option.

Bold numbers require 3 horsepower motor.

Sheave setting vs. blower RPM

Turns Out	5	4.5	4	3.5	3	2.5	2	1.5	1	.5	0
"A" RPM Range	768	790	811	832	854	875	896	918	939	960	982
"B" RPM Range	603	624	644	664	684	704	724	744	764	784	805





BLOWER PERFORMANCE

VS/VL Submittal Data

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

VS/VL 300

SCFM Air Flow		EXTERNAL STATIC PRESSURE																															
		.2	.3	.4	.5	.6	.7	.8	.9	1	1.1	1.2	1.3	1.4	1.5																		
8000	BHP	1.24	1.32	1.40	1.48	1.57	1.66	1.75	1.84	1.93	2.03	2.12	2.22	2.32	2.42																		
	RPM	713	740	768	795	821	847	873	898	923	947	971	995	1019	1042																		
8500	BHP	1.45	1.54	1.62	1.71	1.71	1.80	1.99	2.08	2.18	2.28	2.38	2.48	2.58	2.69																		
	RPM	747	773	799	825	850	875	900	924	947	971	994	1017	1040	1062																		
9000	BHP	1.69	1.78	1.87	1.96	2.06	2.15	2.25	2.35	2.45	2.55	2.65	2.76	2.86	2.97																		
	RPM	782	807	831	856	880	904	927	950	973	996	1018	1040	1062	1083																		
9500	BHP	1.96	2.05	2.15	2.24	2.34	2.44	2.54	2.64	2.74	2.85	2.96	Operation Not Recommended																				
	RPM	816	840	864	887	910	933	955	978	999	1021	1043																					
10000	BHP	2.25	2.35	2.45	2.55	2.64	2.75	2.85	2.96																								
	RPM	851	874	897	919	941	963	984	1006																								
10500	BHP	2.57	2.67	2.77	2.88	2.98																											
	RPM	886	908	930	951	972																											
11000	BHP	2.92																															
	RPM	921																															

Values are per blower and motor, 2 blowers and motors required.

"A" equals standard sheave RPM range.

"B" equals low RPM sheave option.

Sheave setting vs. blower RPM

Turns Out	5	4.5	4	3.5	3	2.5	2	1.5	1	.5	0
"A" RPM Range	896	918	939	960	982	1003	1024	1046	1067	1088	1110
"B" RPM Range	682	705	727	750	773	795	818	841	864	886	909



CLIMATEMASTER®
VS/VL ELECTRICAL
DATA

VS/VL Submittal Data

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

MODEL NUMBER	POWER SUPPLY			COMPRESSOR (EACH)			BLOWER MOTOR (EACH)			MAX. FUSE or HACR BREAKER	MINIMUM CIRCUIT AMPACITY	TOTAL FLA
	VOLTAGE	HZ	PHASE	RLA	LRA	QTY.	HP	FLA	QTY.			
VS/VL080	208/230	60	3	20.7	156.0	1	1.5	6.1	1	50	32.0	26.8
	460	60	3	10.0	70.0	1	1.5	3.0	1	25	15.5	13.0
	575	60	3	8.2	54.0	1	1.5	2.4	1	20	12.7	10.6
VS/VL100	208/230	60	3	28.4	183.0	1	1.5	6.0	1	60	41.5	34.4
	460	60	3	14.2	91.1	1	1.5	3.3	1	30	21.1	17.5
	575	60	3	11.4	73.3	1	1.5	2.4	1	25	16.7	13.8
VS/VL120	208/230	60	3	31.8	193.0	1	2	7.2	1	80	50.3	39.0
	460	60	3	15.9	96.5	1	2	3.6	1	40	25.2	19.5
	575	60	3	13.3	77.2	1	2	2.8	1	30	19.4	16.1
VS/VL160	208/230	60	3	20.7	156.0	2	3	9.5	1	70	56.1	50.9
	460	60	3	10.0	70.0	2	3	4.8	1	35	27.3	24.8
	575	60	3	8.2	54.0	2	3	3.9	1	30	22.4	20.3
VS/VL200	208/230	60	3	28.4	183.0	2	1.5	6.0	2	100	75.9	68.8
	460	60	3	14.2	91.1	2	1.5	3.3	2	50	38.6	35.0
	575	60	3	11.4	73.3	2	1.5	2.4	2	40	30.5	27.6
VS/VL240	208/230	60	3	31.8	193.0	2	2	7.2	2	125	92.0	78.0
	460	60	3	15.9	96.5	2	2	3.6	2	60	46.1	39.0
	575	60	3	13.3	77.2	2	2	2.8	2	45	35.5	32.2
VS/VL300	208/230	60	3	42.0	267.0	2	3	9.5	2	150	113.5	103.0
	460	60	3	27.5	135.0	2	3	4.8	2	90	71.5	64.6
	575	60	3	22.0	108.0	2	3	3.9	2	70	57.3	51.8

NOTE :

CONTACT FACTORY FOR ELECTRICAL DATA WITH OPTIONAL OVERSIZE BLOWER MOTOR.



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Contractor: _____ P.O.: _____
Engineer: _____
Project Name: _____ Unit Tag: _____

MODEL NUMBER	SHIPPING WEIGHT LBS.	OPERATING WEIGHT LBS.	REF. To AIR HEAT EXCHANGER				REFRIG. CHARGE R22/CKT Oz.	NO. OF CIRCUITS	BLOWER WHEEL		
			FACE AREA SQ. FT.	NO. OF ROWS DEEP	COPPER TUBE SZ. OD IN.	NO. OF FINS PER INCH			DIA. (NOM)	WIDTH (NOM)	QTY
VS/VL080	610	595	9	2	3/8"	14	110.0	1	12.0	9	1
VS/VL100	695	685	8.75	2	1/2"	15	118.0	1	15.0	15	1
VS/VL120	745	735	9.375	3	1/2"	15	144.0	1	15.0	15	1
VS/VL160	1145	1120	18	2	3/8"	14	110.0	2	12.0	9	2
VS/VL200	1275	1265	17.5	2	1/2"	15	118.0	2	15.0	15	2
VS/VL240	1375	1350	18.75	3	1/2"	15	144.0	2	15.0	15	2
VS/VL300	1475	1465	18.75	4	1/2"	15	175.0	2	15.0	15	2





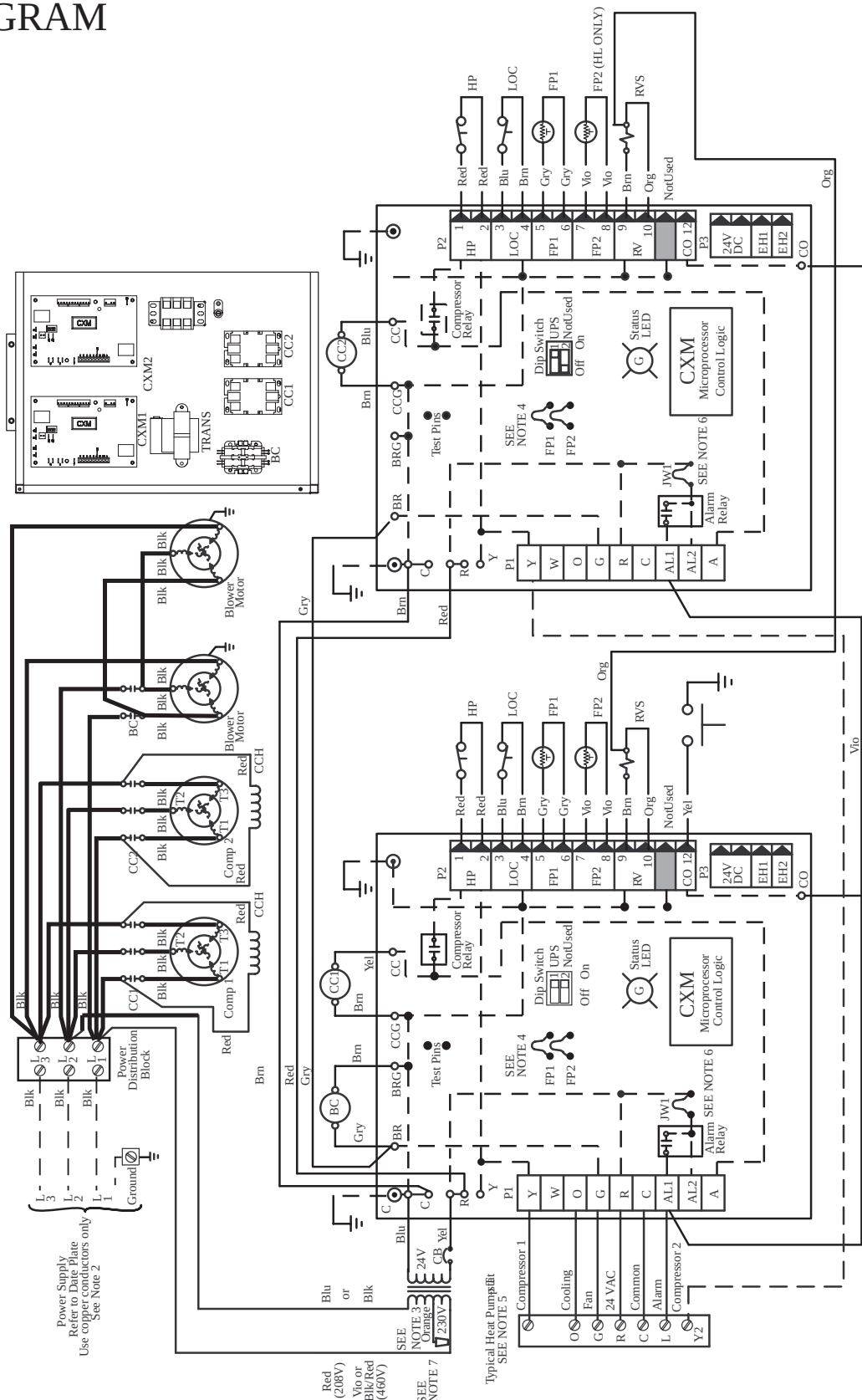
TYPICAL WIRING DUAL COMPRESSOR DIAGRAM

VS/VL Submittal Data

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____



NOTES:

1. Compressor and Blower Motor thermally protected internally
2. All wiring to the unit must comply with NEC and local codes.
3. 208/230V Transformers will be connected for 208V operation. For 230V operation, disconnect Red lead at L1, and attach Orange lead to L1. Close open end of Red Lead with insulating tape.
4. JW3 jumper provides freeze protection for WATER. When using ANTI-FREEZE solutions, cut JW3 jumper.
5. Typical thermostat wiring shown. Refer to thermostat IOM for
6. 24V Alarm Signal shown. For Dry Alarm Contact, cut JW1 Jumper and Dry Contact will be available between AL1 and AL2.
7. For 460V Transformer primary leads are Vio and Blk. For 575V Transformer primary leads are Gry and Blk.

Legend

Field line voltage wiring	Alarm Relay Contacts
Field low voltage wiring	AL
Relay Contactor Coil	BC
Switch - Condensate Overflow	CC
Solenoid Coil	CO
Thermostat	CCH
	HP
	LOC
	RVS
	FP1
	FP2
	RV
	RVS
	CO
	EH1
	EH2
	Y2



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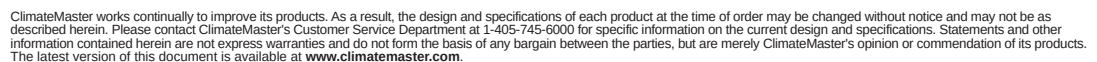


Contractor: _____ P.O.: _____
Engineer: _____
Project Name: _____ Unit Tag: _____



NOTES:

1. Compressor and Blower Motor thermally protected internally.
2. All wiring to the unit must comply with NEC and local codes.
3. 208/230V Transformers will be connected for 208V operation, For 230V operations, disconnect Red lead at L1, and attach Orange lead to L1. Close open end or Red Lead with insulating tape.
4. Typical thermostat wiring shown. Refer to thermostat IOM for ANTI-FREEZE solutions, cut FP1 jumper.
5. 24V Alarm Signal shown. For Dry Alarm Contact, cut JW1 Jumper and wiring to the unit.
6. 24V Alarm Signal shown. For Dry Alarm Contact, cut JW1 Jumper and Dry Contact will be available between AL1 and AL2.
7. For 460V Transformer primary leads are Vio and Blu.
For 575V Transformer primary leads are Gry and Blu.
8. Crankcase Heat used on size 100 and 120.





Typical Wiring Diagram

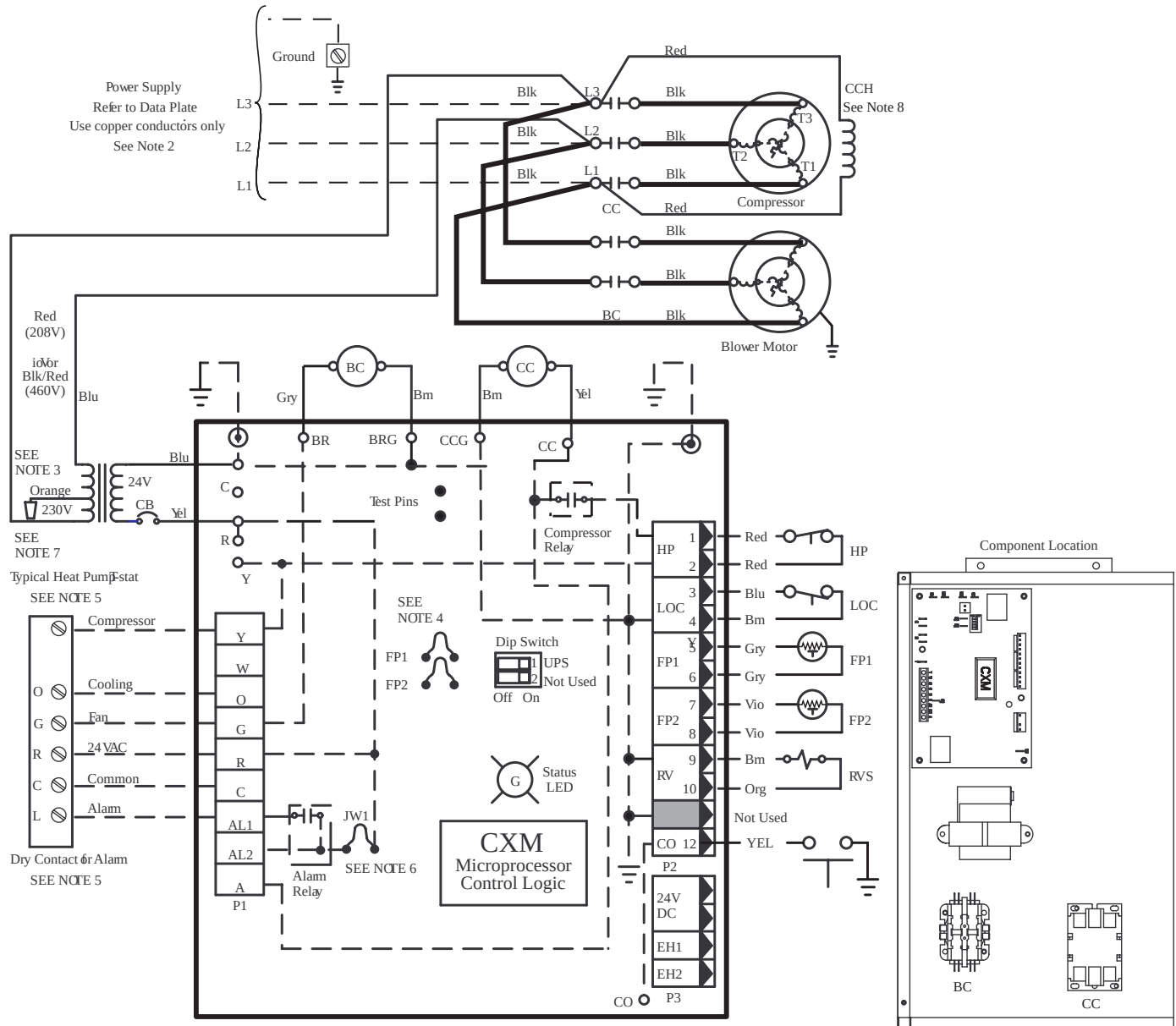
Typical Three Phase Wiring Diagram with CXM Controller

VS/VL Submittal Data

Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____



Legend			NOTES:
	Field line voltage wiring		
	Field low voltage wiring		1. Compressor and Blower Motor thermally protected internally. 2. All wiring to the unit must comply with NEC and local codes. 3. 208/230V Transformers will be connected for 208V operations, For 230V operations, disconnect Red lead at L1, and attach Orange lead to L1. Close open end or Red Lead with insulating tape. 4. Typical thermostat wiring shown. Refer to thermostat IOM for ANTI-FREEZE solutions, cut FP1 jumper 5. 24V Alarm Signal shown. For Dry Alarm Contact, cut JW1 Jumper and wiring to the unit. 6. 24V Alarm Signal shown. For Dry Alarm Contact, cut JW1 Jumper and Dry Contact will be available between AL1 and AL2. 7. For 460V Transformer primary leads are Vio and Blu. For 575V Transformer primary leads are Gry and Blu. 8. Crankcase Heat used on size 100 and 120.
	Relay Contactor Coil	AL Alarm Relay Contacts	
	Switch-Condensate Overflow	BC Blower Contactor	LOC Loss of Charge Pressure Switch
	Solenoid Coil	CB Circuit Breaker	RVS Reversing Valve Solenoid
	Thermistor	CC Compressor Contactor	P1 Field Wiring Terminal Block
	Ground	CO Condensate Overflow Switch	FP1 Sensor, Water Coil Freeze Protection
		CCH Crankcase Heater	FP2 Sensor, Air Coil Freeze Protection
			HP High Pressure Switch





Typical Wiring Diagram

Typical Three Phase, Two Compressor Unit Wiring Diagram for VS/VL with CXM Controller

VS/VL Submittal Data

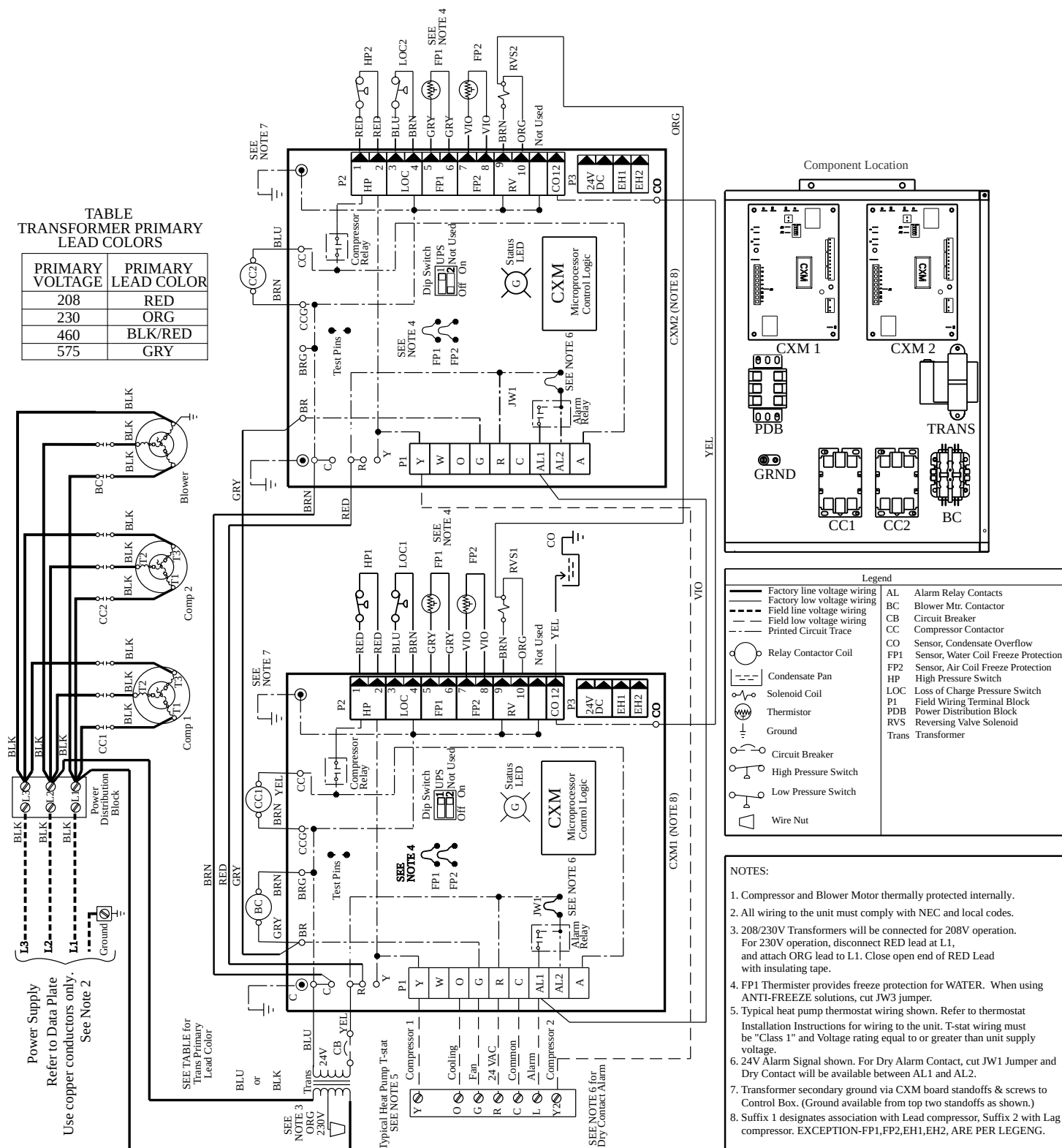
Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____

TABLE
TRANSFORMER PRIMARY
LEAD COLORS

PRIMARY VOLTAGE	PRIMARY LEAD COLOR
208	RED
230	ORG
460	BLK/RED
575	GRY





VS/VL Submittal Data

Typical Wiring Diagram

Three Phase, Two Compressor, Two Blower Unit Wiring Diagram With CXM Controller

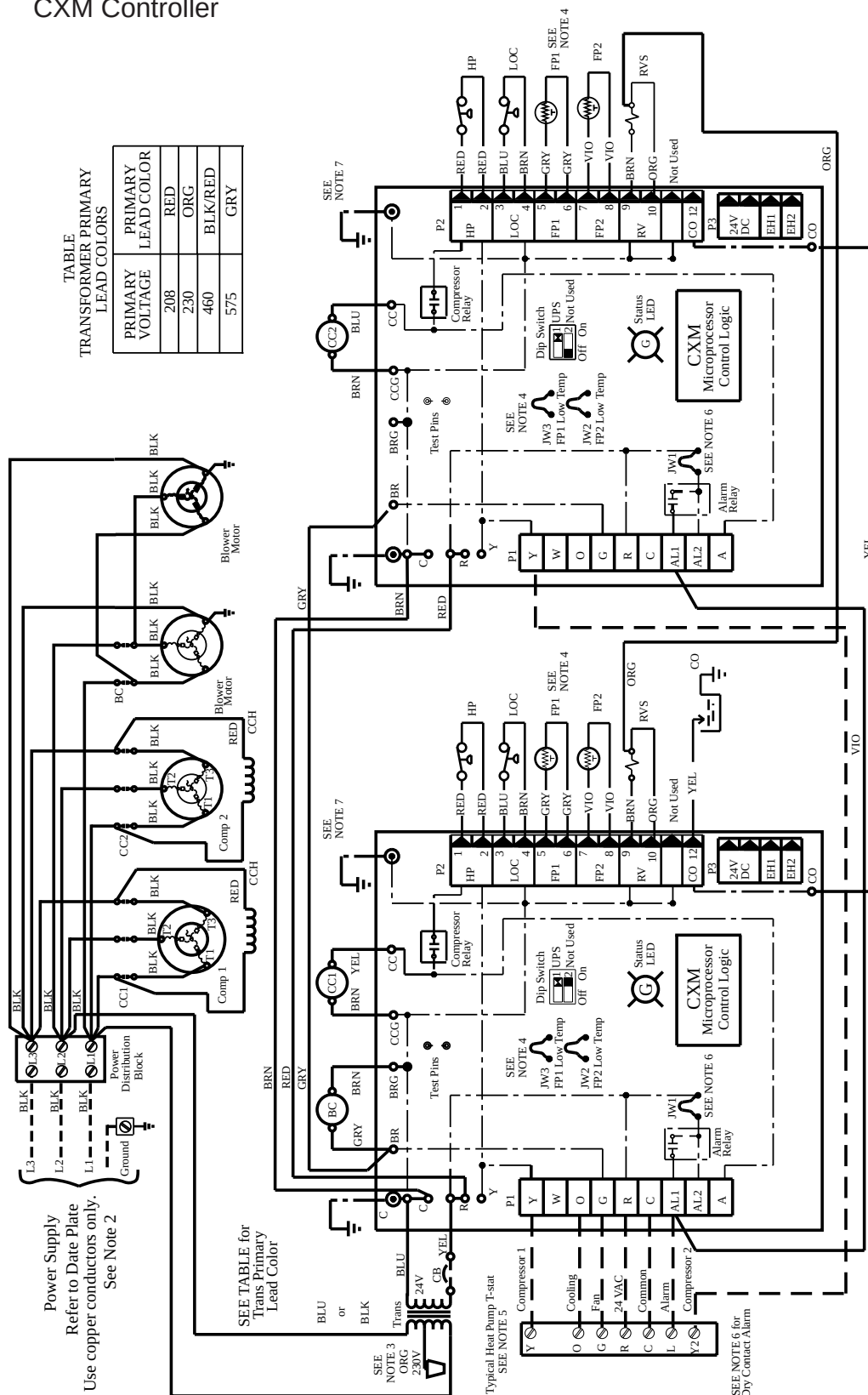
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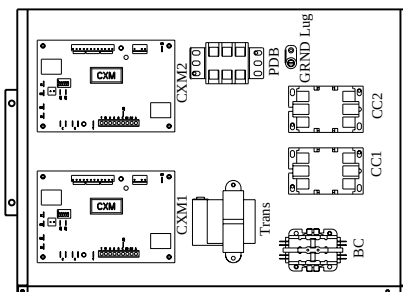
Project Name: _____ Unit Tag: _____

TABLE
TRANSFORMER PRIMARY
LEAD COLORS

PRIMARY VOLTAGE	PRIMARY LEAD COLOR
208	RED
230	ORG
460	BLK/RED
575	GRY



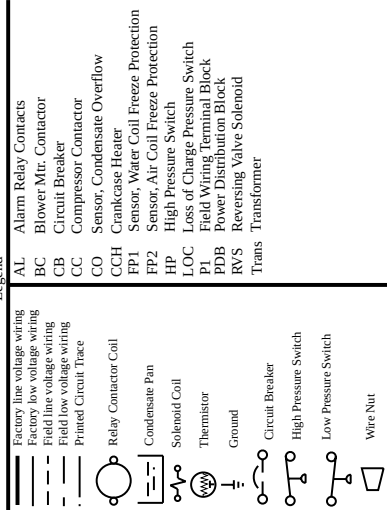
Component Location



NOTES:

1. Compressor and Blower Motor thermally protected internally.
2. All wiring to the unit must comply with NEC and local codes.
3. 208/230V Transformers will be connected for 208V operation. For 230V operation, disconnect RED lead at L1, and attach ORG lead to L1. Close open end of RED Lead with insulating tape.
4. FP1 Thermistor provides freeze protection for WATER. When using ANTI-FREEZE solutions, cut JW3 jumper.
5. Typical heat pump thermostat wiring shown. Refer to thermostat Installation Instructions for wiring to the unit. T-stat wiring must be "Class 1" and Voltage rating equal to or greater than unit supply voltage.
6. 24V Alarm Signal shown. For Dry Alarm Contact, cut JW1 Jumper and Dry Contact will be available between AL1 and AL2.
7. Transformer secondary ground via CXM board standoffs & screws to Control Box. (Ground available from top two standoffs as shown.)

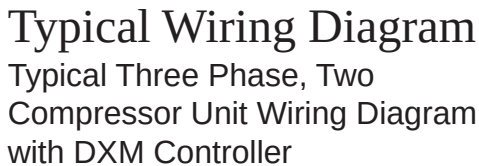
Legend





Contractor: _____ P.O.: _____
 Engineer: _____
 Project Name: _____ Unit Tag: _____





Contractor: _____ P.O.: _____
 Engineer: _____
 Project Name: _____ Unit Tag: _____

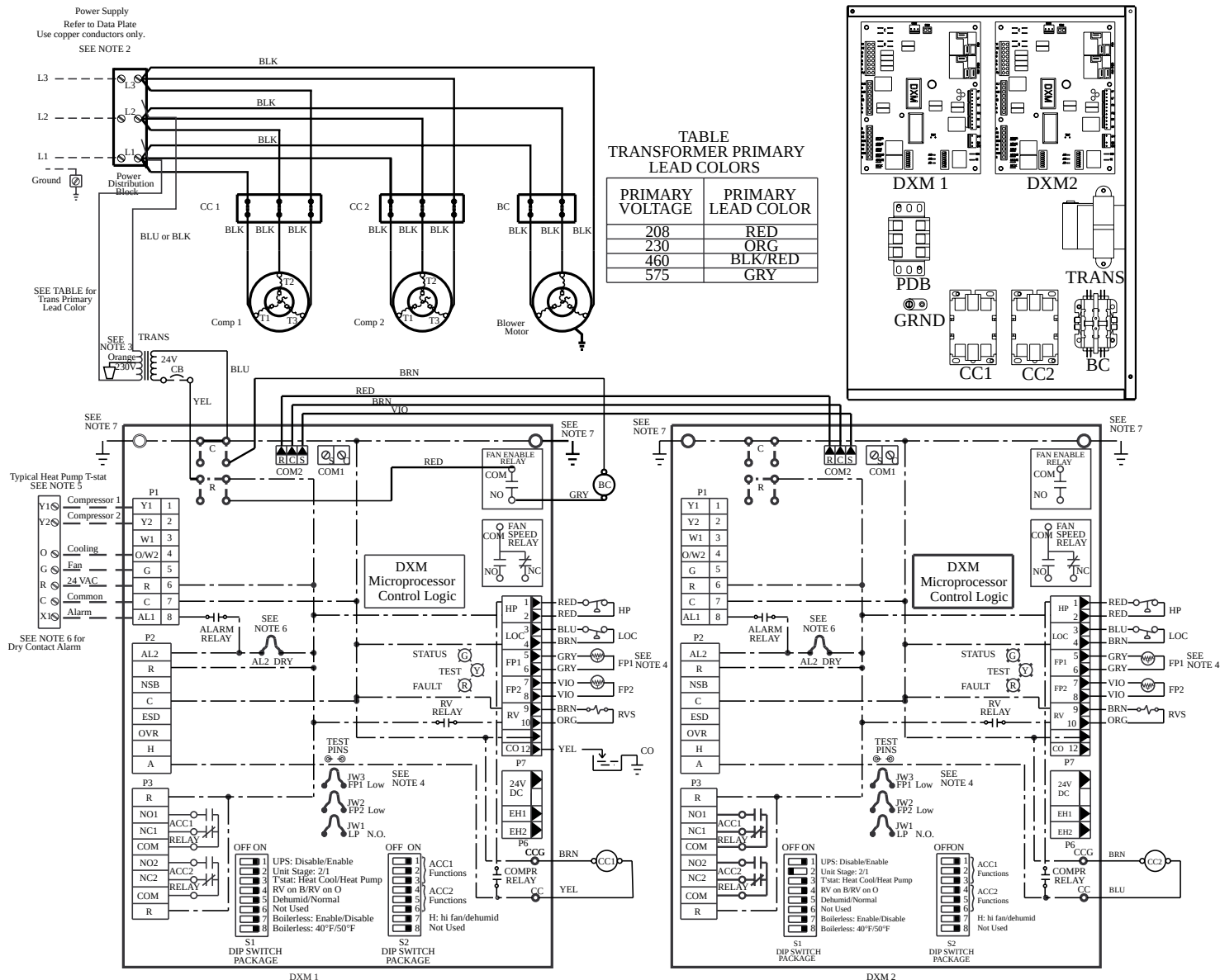
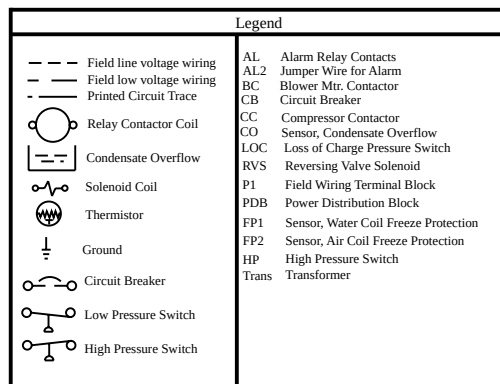
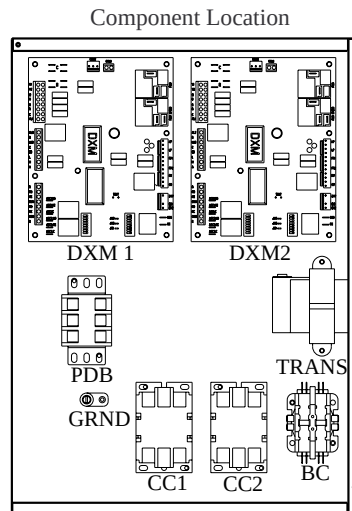


TABLE
TRANSFORMER PRIMARY
LEAD COLORS

PRIMARY VOLTAGE	PRIMARY LEAD COLOR
208	RED
230	ORG
460	BLK/RED
575	GRY



Notes:

1. Compressor and Blower Motor thermally protected internally.
2. All wiring to the unit must comply with NEC and local codes.
3. 208/230V Transformers will be connected for 208V operations, For 230V operations, disconnect RED lead at L1, and attach Orange lead to L1. Insulate open end of RED lead.
4. FP1 Thermistor provides freeze protection for WATER. When using ANTIFREEZE solutions, cut JW3 jumper.
5. Typical heat pump thermostat wiring shown. Refer to thermostat Installation Instructions for wiring to the unit. T-stat wiring must be "Class 1" and Voltage rating equal to or greater than unit supply voltage.
6. 24V Alarm Signal shown. For Dry Alarm Contact, cut AL2 DRY Jumper and Dry Contact will be available between AL1 and AL2.
7. Transformer secondary ground via DXM board standoffs & screws to Control Box. (Ground available from top two standoffs as shown.)



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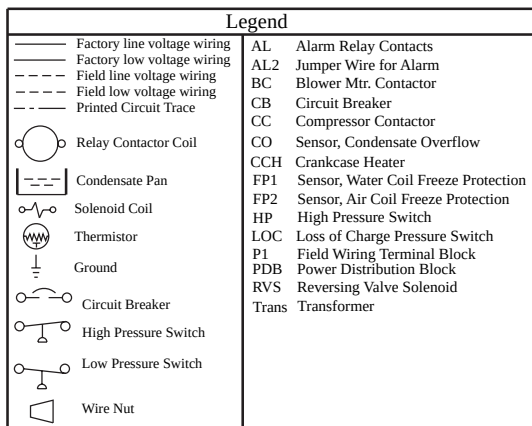
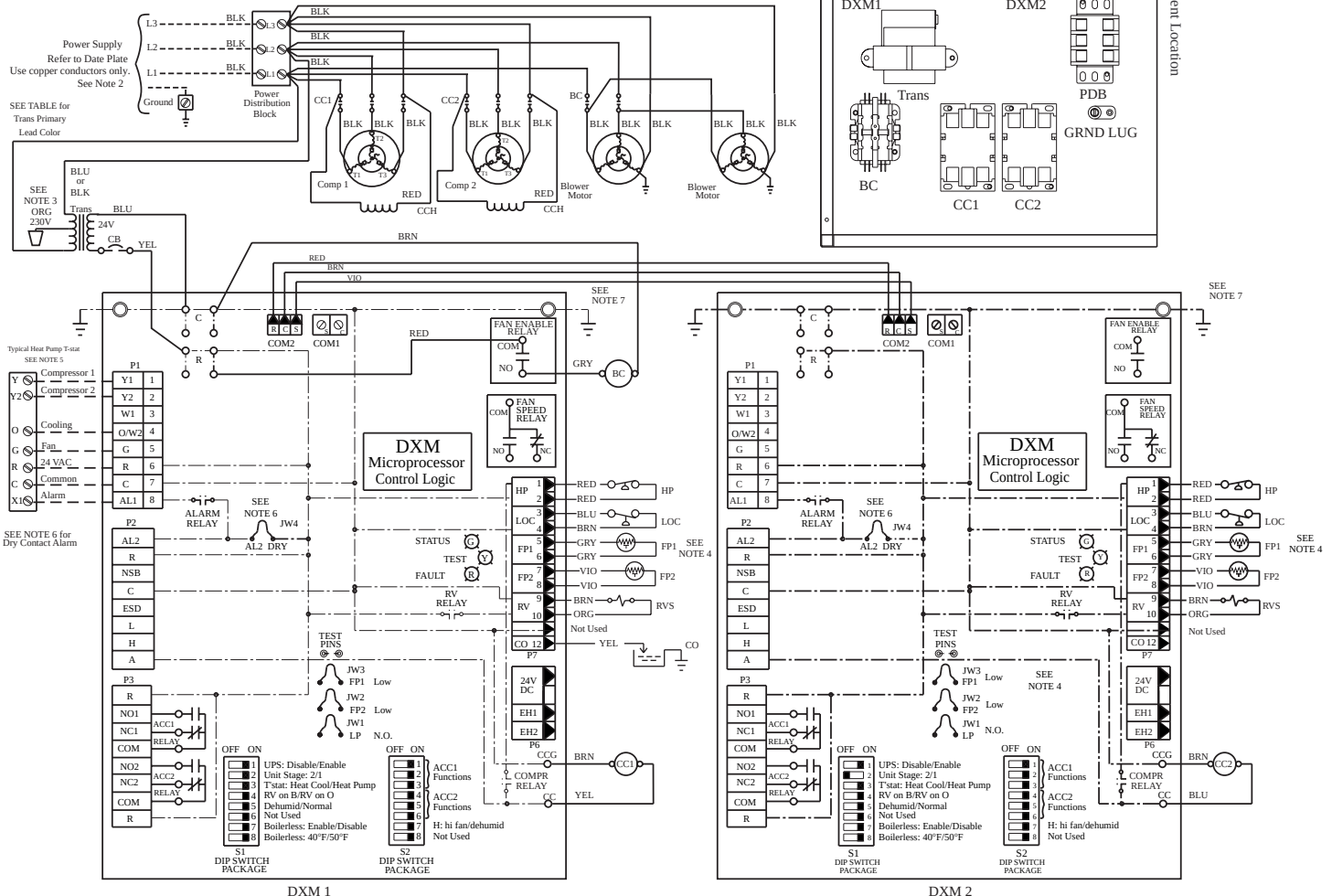
VS/VL Submittal Data

Typical Wiring Diagram Typical Three Phase, Two Compressor, Two Blower Unit Wiring Diagram With DXM Controller

Contractor: _____ P.O.: _____
Engineer: _____
Project Name: _____ Unit Tag: _____

TABLE
TRANSFORMER PRIMARY
LEAD COLORS

PRIMARY VOLTAGE	PRIMARY LEAD COLOR
208	RED
230	ORG
460	BLK/RED
575	GRY



NOTES:

- Compressor and Blower Motor thermally protected internally.
- All wiring to the unit must comply with NEC and local codes.
- 208/230V Transformers will be connected for 208V operation. For 230V operation, disconnect RED lead at L1, and attach ORG lead to L1. Close open end of RED Lead with insulating tape.
- FP1 Thermistor provides freeze protection for WATER. When using ANTI-FREEZE solutions, cut JW3 jumper.
- Typical heat pump thermostat wiring shown. Refer to thermostat Installation Instructions for wiring to the unit. T-stat wiring must be "Class 1" and Voltage rating equal to or greater than unit supply voltage.
- 24V Alarm Signal shown. For Dry Alarm Contact, cut AL2 DRY (JW4) Jumper and Dry Contact will be available between AL1 and AL2.
- Transformer secondary ground via DXM board standoffs & screws to Control Box. (Ground available from top two standoffs as shown.)





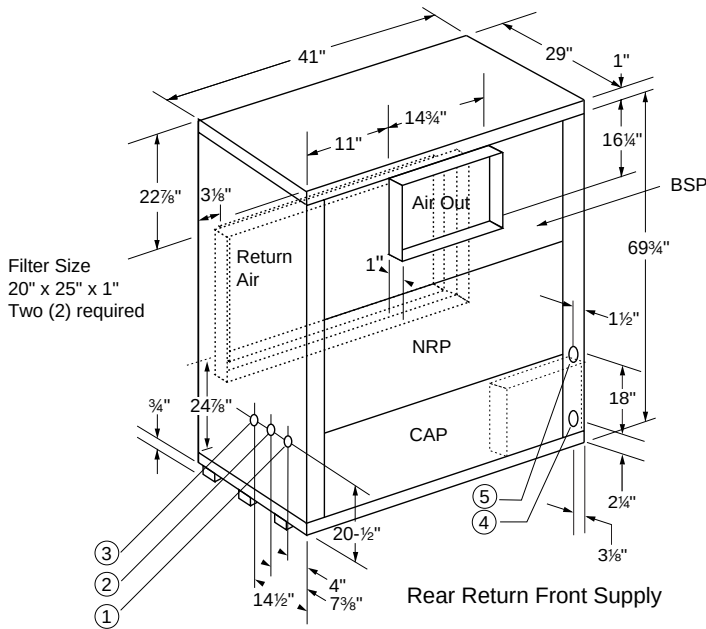
DIMENSIONS **VS/VL 080**

VS/VL Submittal Data

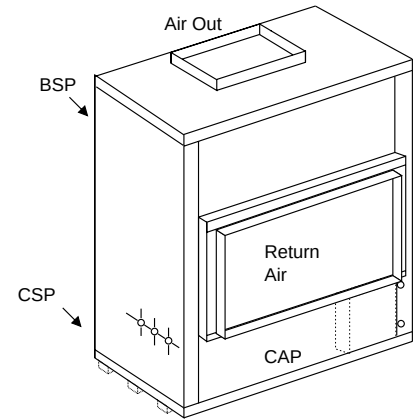
Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____



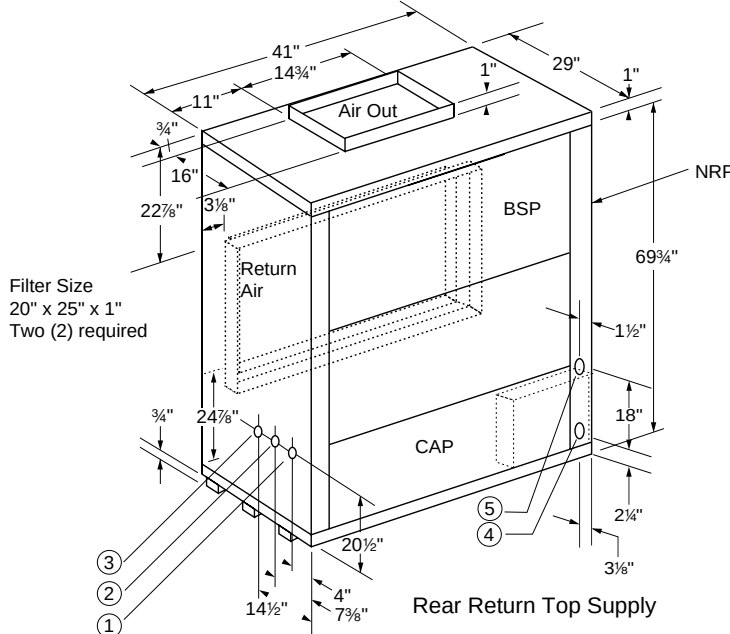
Rear Return Front Supply



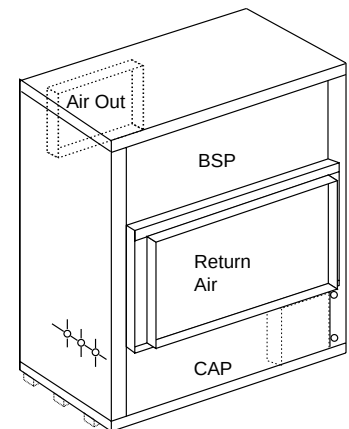
Front Return Top Supply

NOTE: All side panels are removable except those identified by NRP (Non-Removable Panel).

- ① Water Inlet 1 1/4" FPT
- ② Water Outlet 1 1/4" FPT
- ③ Condensate Drain 1" FPT
- ④ High Voltage Access 1 3/8"-1 1/4" K.O.
- ⑤ Low Voltage Access 1/2" Dia.
- CAP Control Access Panel
- BSP Blower Service Panel
- CSP Compressor Service Panel
- NRP Non-Removable Panel
- RA Duct Connection 23" x 34 3/4"



Rear Return Top Supply



Front Return Rear Supply

NOTE: Units require 3' clearance for water connections, CAP, CSP and BSP service access.



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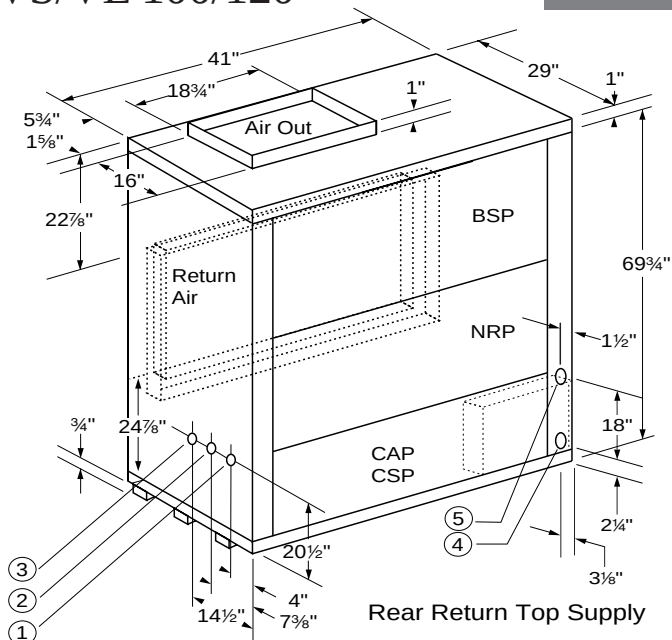
DIMENSIONS VS/VL 100/120

VS/VL Submittal Data

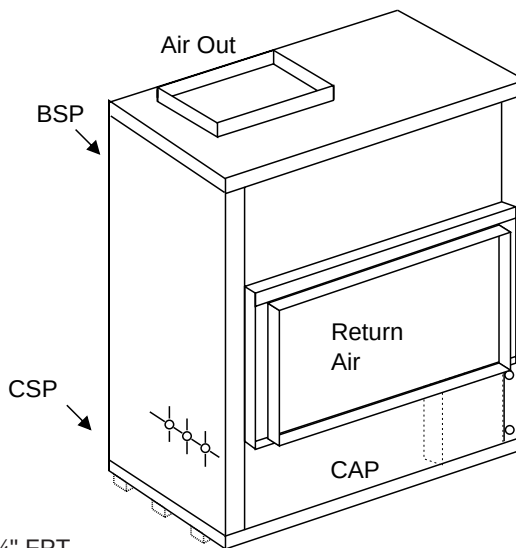
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Engineer: _____

Project Name: _____ Unit Tag: _____



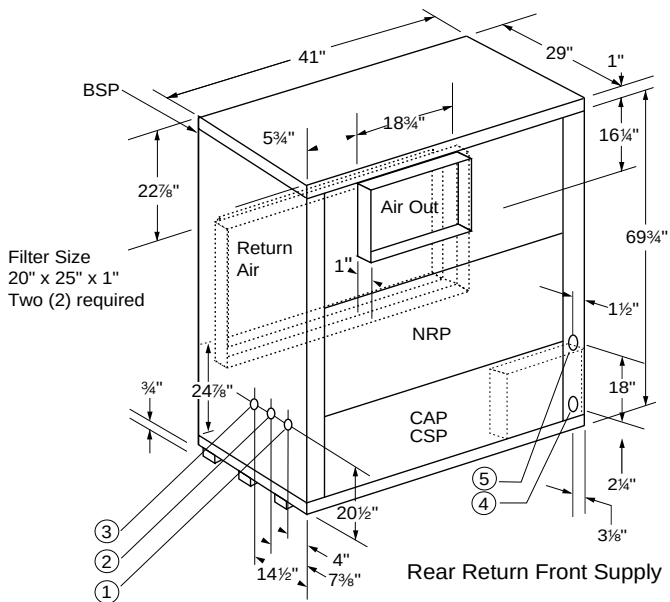
Rear Return Top Supply



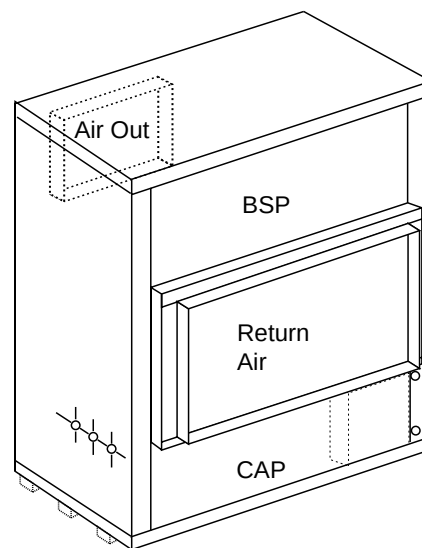
Front Return Top Supply

NOTE: All side panels are removable except those identified by NRP (Non-Removable Panel).

- ① Water Inlet 1 1/4" FPT
- ② Water Outlet 1 1/4" FPT
- ③ Condensate Drain 1" FPT
- ④ High Voltage Access 1 3/8"-1 1/4" K.O.
- ⑤ Low Voltage Access 1/2" Dia.
- CAP Control Access Panel
- BSP Blower Service Panel
- CSP Compressor Service Panel
- NRP Non-Removable Panel
- R/A Duct Connection 23" x 34 3/4"



Rear Return Front Supply



Front Return Rear Supply

NOTE: Units require 3' clearance for water connections, CAP, CSP and BSP service access.





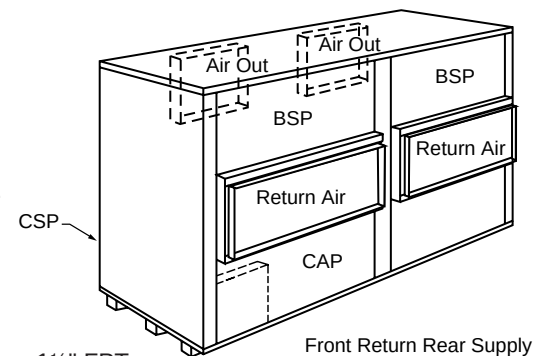
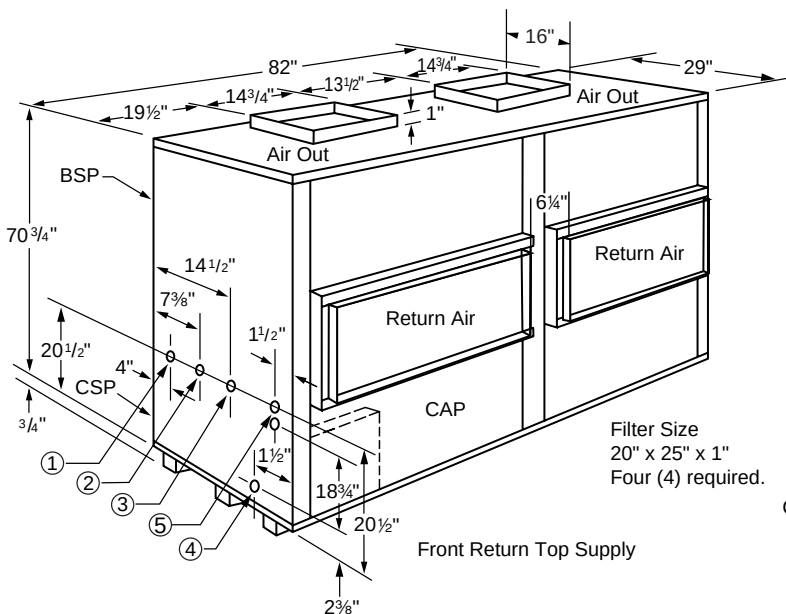
DIMENSIONS VS/VL 160

VS/VL Submittal Data

Contractor: _____ P.O.: _____

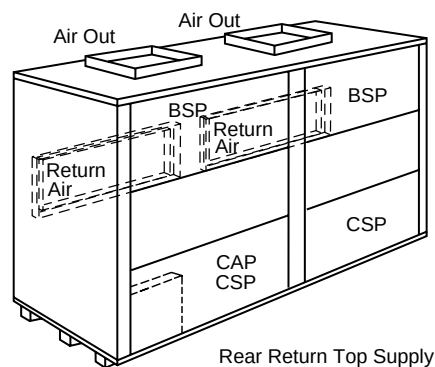
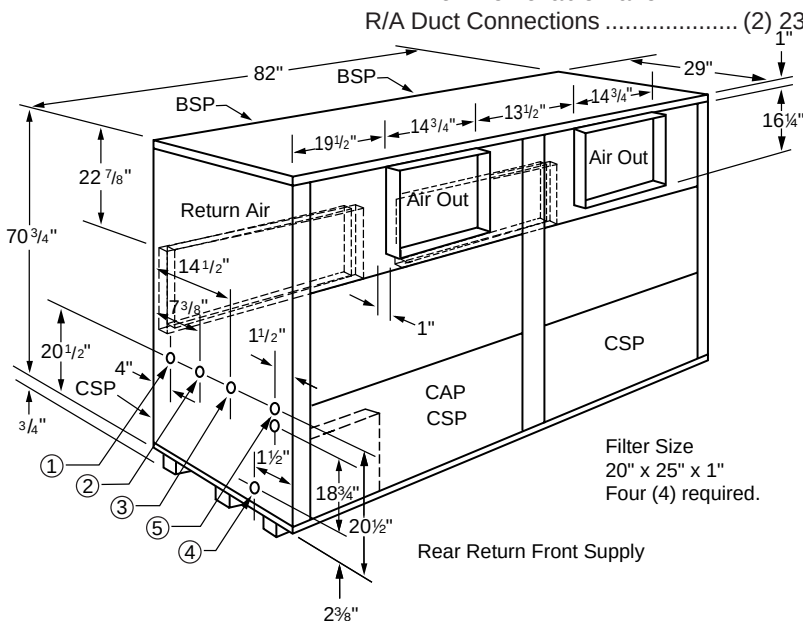
Engineer: _____

Project Name: _____ Unit Tag: _____



- ① Water Inlet 1 1/2" FPT
- ② Water Outlet 1 1/2" FPT
- ③ Condensate Drain 1" FPT
- ④ High Voltage Access 1 3/8"-1 3/4" K.O.
- ⑤ Low Voltage Access 1/2" Dia.
- CAP Control Access Panel
- BSP Blower Service Panel
- CSP Compressor Service Panel
- NRP Non-Removable Panel
- R/A Duct Connections (2) 23" x 34 3/4"

NOTE: All side panels are removable
Except those identified by NRP
(Non-Removable Panel)



Filter Size
20" x 25" x 1"
Four (4) required.

NOTE: Units require 3' clearance for water connections, CAP, CSP and BSP service access.



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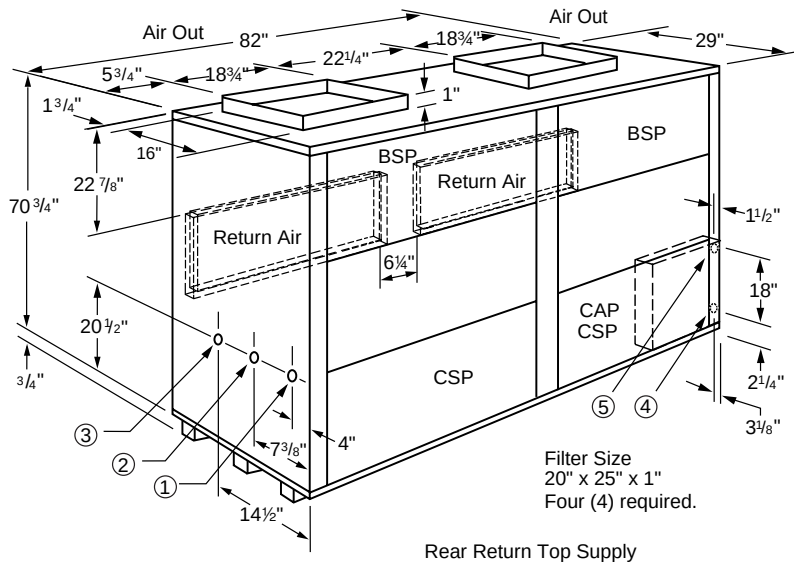
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VS/VL Submittal Data

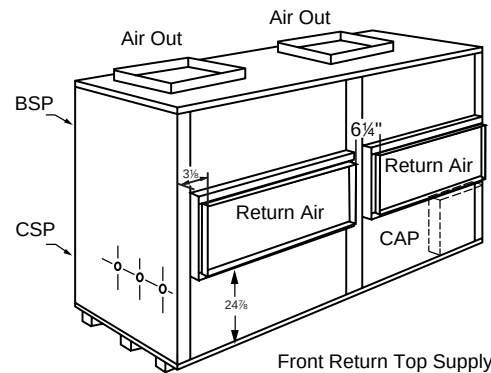
Contractor: _____ P.O.: _____

Engineer: _____

Project Name: _____ Unit Tag: _____



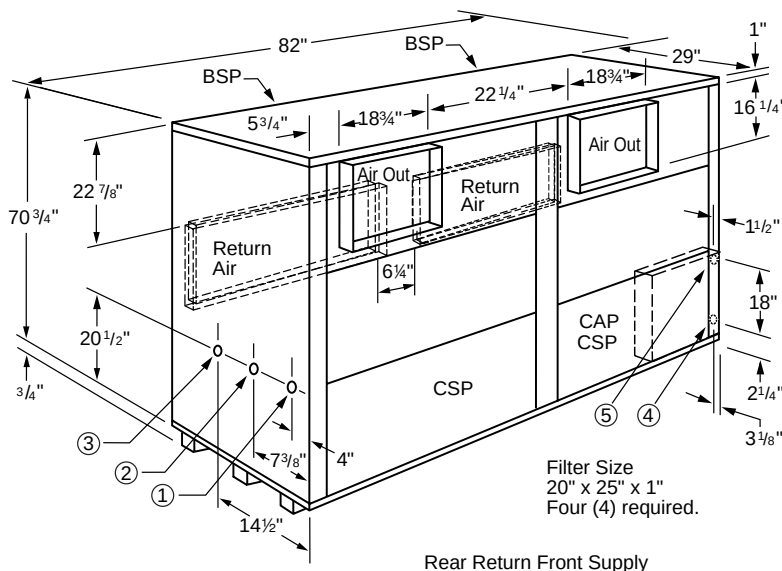
Rear Return Top Supply



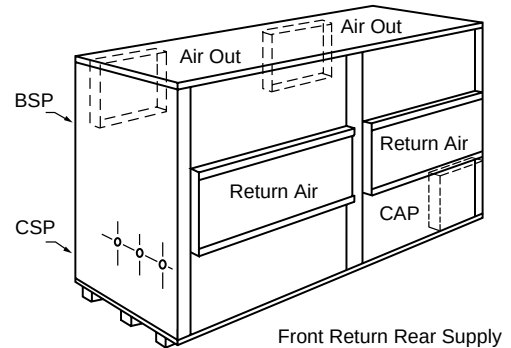
Front Return Top Supply

- ① Water Inlet 1 1/2" FPT
- ② Water Outlet 1 1/2" FPT
- ③ Condensate Drain 1" FPT
- ④ High Voltage Access 1 3/8"-1 3/4" K.O.
- ⑤ Low Voltage Access 1/2" Dia.
- CAP Control Access Panel
- BSP Blower Service Panel
- CSP Compressor Service Panel
- NRP Non-Removable Panel
- R/A Duct Connection (2) 23" x 34 3/4"

NOTE: All side panels are removable
Except those identified by NRP
(Non-Removable Panel)



Rear Return Front Supply



Front Return Rear Supply

*NOTE: Units require 3' clearance for water connections, CAP, CSP and BSP Service access.





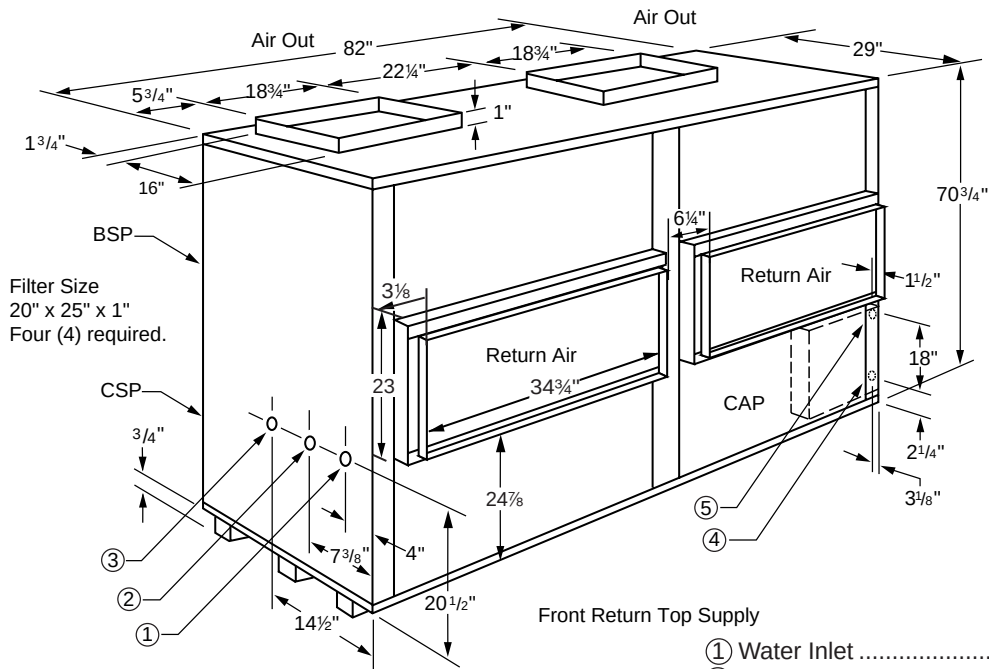
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VS/VL Submittal Data

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Engineer: _____

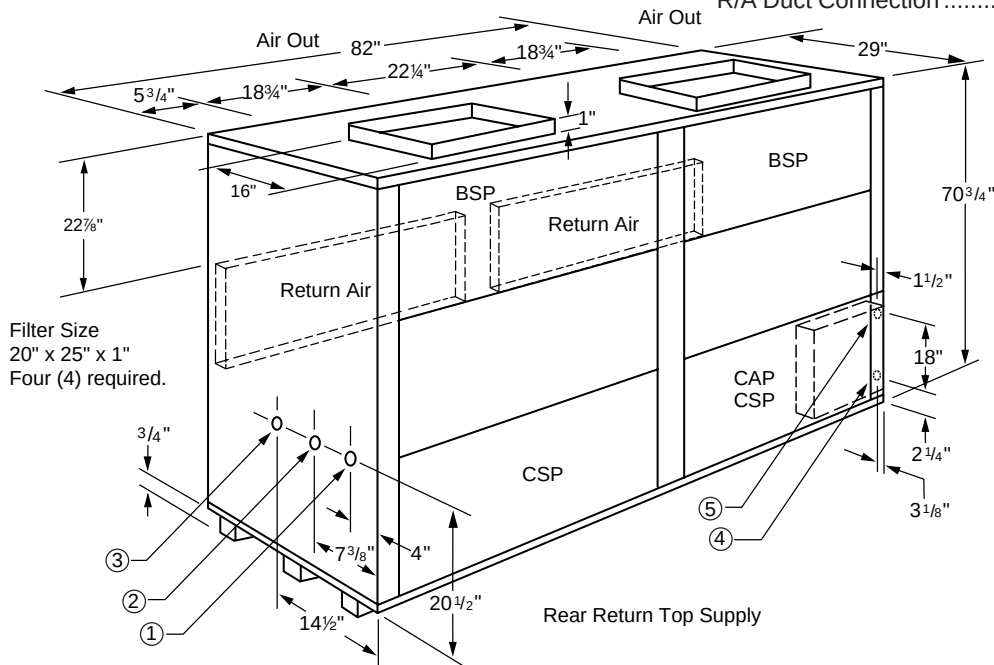
Project Name: _____ Unit Tag: _____



Front Return Top Supply

- ① Water Inlet 1 1/2" FPT
- ② Water Outlet 1 1/2" FPT
- ③ Condensate Drain 1" FPT
- ④ High Voltage Access 1 3/8"-1 3/4" K.O.
- ⑤ Low Voltage Access 1/2" Dia.
- CAP Control Access Panel
- BSP Blower Service Panel
- CSP Compressor Service Panel
- NRP Non-Removable Panel
- R/A Duct Connection (2) 23" x 34 3/4"

NOTE: All side panels are removable
Except those identified by NRP
(Non-Removable Panel)



Rear Return Top Supply

DO NOT USE HIGH EFFICIENCY FILTERS

***NOTE: Units require 3' clearance for water connections, CAP, CSP and BSP Service access.**



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