



DC SERIES
Packaged Air Conditioning/Heating System

Specifications		Model Size 036			
Performance	Cooling Rated In Accordance With ARI Std 210/240	Total Cooling (Mbtu/h)	39.6		
		SEER	11.5		
		IPLV	—		
		Optional Capacity Reduction	Up to 50%		
	Chilled Water	Nominal Mbtu/h (4 row coil)	30.0		
		Nominal Mbtu/h (6 row coil)	42.4		
	Optional Heat				
	Electric	Voltage-Phase-Hz	208/240-3-60	480-3-60	600-3-60
		Min-Max kW	5 – 30	5 – 30	—
	Gas	Standard Heating Input Available (Mbtu/h)	75 thru 200		
Thermal Efficiency		80%			
Hot Water	Nominal Mbtu/h (1 row coil / 2 row coil)	54.5 / 100.5			
Steam	Nominal MBH Mbtu/h (1 row coil / 2 row coil)	81.4 / 129.3			
Rating Conditions	Nominal cfm	1,200			
Electrical Data	Service	Voltage-Phase-Hz	208/230-3-60	460-3-60	575-3-60
	Scroll Compressor	Nominal Tons – Quantity	3.0 — 1		
		RLA	10.7	5.2	—
		LRA	77.0	39.0	—
	3 phase Condenser Fan Motor(s)	hp — Quantity	1hp — 1		
		FLA ea	3.4	1.7	—
		Total cfm	4000		
	½ hp Motor	FLA	2.8	1.4	—
		Unit Minimum Circuit Ampacity	19.6	9.6	—
		Max. Time Delay Fuse or HACR Breaker	30 (30.3)	15 (14.8)	—
	¾ hp Motor	FLA	2.8	1.4	—
		Unit Minimum Circuit Ampacity	19.6	9.6	—
		Max. Time Delay Fuse or HACR Breaker	30 (30.3)	15 (14.8)	—
	1 hp Motor	FLA	3.4	1.7	—
		Unit Minimum Circuit Ampacity	20.2	9.9	—
		Max. Time Delay Fuse or HACR Breaker	30 (30.9)	15 (15.1)	—
	1½ hp Motor	FLA	4.6	2.3	—
		Unit Minimum Circuit Ampacity	21.4	10.5	—
		Max. Time Delay Fuse or HACR Breaker	30 (32.1)	15 (15.7)	—
	2 hp Motor	FLA	6.2	3.1	—
		Unit Minimum Circuit Ampacity	23.0	11.3	—
		Max. Time Delay Fuse or HACR Breaker	30 (33.7)	15 (16.5)	—
	3 hp Motor	FLA	8.0	4.0	—
		Unit Minimum Circuit Ampacity	24.8	12.2	—
		Max. Time Delay Fuse or HACR Breaker	35 (35.5)	15 (17.4)	—
	Note: MCA and MFS data above is for basic unit; includes compressor(s), condenser fan motor(s) and supply fan motor. The values do not include return, exhaust or heat wheel motors. To include them, determine MCA by adding the amp values to the MCA values above. Determine MFS by adding the amp values in parenthesis above and round down to the next fuse size. Fuse sizes are 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 110, 125, 150, 175, 200, 250, 300, 350, and 400.				
	ECW 244, 324, 364	½ hp motor FLA	2.4	1.2	—
Physical Data	EVAP. Coil Alum. Fins on Copper Tubes	Face Area (Sq. Ft.)	3.9		
		Rows Deep – Fins per Inch	4 — 12		
	Condenser Coil Alum. Fins on Copper Tubes	Face Area (Sq. Ft.)	7.7		
		Rows Deep – Fins per Inch	3 — 12		
	Coil connections	Chilled Water Coil	1 1/8" ODS		
		Steam Coil , 1 row — 2 row	2" — 2 1/2" MPT		
		Hot Water Coil, 1 row — 2 row	1 1/8" — 1 1/8" ODS		
	Evaporator Blower	Single Width Backward Inclined Plenum Fan	— see blower performance table for size		
Condensate Drain	Size – MPT — Quantity	¾ — 2			
Filters: Disposable	Size — Quantity	24 x 20 x 2 — 2			



12" Dia. Plenum Fan - Supply and Return																				
Total Static Pressure - Inches H2O																				
cfm	0.5		0.75		1		1.5		2		2.5		3		3.5		4		5	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
600	1275	0.1	1462	0.1	1627	0.2	1923	0.2	2196	0.3	2446	0.4	2678	0.5	2884	0.7	3083	0.8	3453	1.0
800	1446	0.1	1608	0.1	1761	0.2	2032	0.3	2266	0.4	2486	0.5	2704	0.6	2897	0.8	3085	0.9	3455	1.2
1300	1981	0.2	2099	0.3	2206	0.3	2417	0.5	2614	0.6	2800	0.7	2976	0.9	3144	1.1	3304	1.2	3602	1.6
1800	2590	0.4	2670	0.5	2754	0.6	2918	0.7	3072	0.9	3229	1.1	3375	1.3	3518	1.5	3665	1.7	3938	2.1
2100	2964	0.6	3035	0.7	3104	0.8	3250	1.0	3393	1.2	3531	1.4	3665	1.6	3796	1.8	3921	2.0	4160	2.4

9" x 7" FC Fan - Exhaust																				
Total Static Pressure - Inches H2O																				
cfm	0.5		0.75		1		1.5		2		2.5		3		3.5		4		5	
	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
600	729	0.1	906	0.1	1056	0.2	1307	0.3	1507	0.4	1689	0.6	1858	0.7	2009	0.9	2149	1.1	2401	1.4
800	729	0.1	884	0.2	1031	0.2	1283	0.4	1488	0.5	1676	0.7	1850	0.8	2001	1.0	2141	1.2	2393	1.6
1300	835	1.6	919	0.4	1038	0.4	1252	0.6	1438	0.7	1615	0.9	1785	1.2	1946	1.4	2091	1.6	2352	2.1
1800	1175	2.1	1152	2.1	1200	2.1	1291	1.0	1456	1.2	1614	1.3	1763	1.5	1903	1.8	2031	2.0	2292	2.6
2100	1300	2.6	1314	2.6	1371	2.6	1353	2.6	1488	1.5	1634	1.8	1777	2.0	1914	2.1	2041	2.4	2269	2.9

Component Pressure Drop (inches W.C.)

Component cfm	Return Air Damper	2" Throw-a-way Filter	2" 30% Pleated Filter	2" Metal Mesh Filter	Elec. Heat	1 Row Hot Water Coil
500	0.01	0.02	0.02	0.04	0.01	0.01
600	0.01	0.03	0.02	0.05	0.01	0.01
700	0.01	0.03	0.02	0.06	0.01	0.01
800	0.02	0.04	0.03	0.07	0.01	0.01
1000	0.02	0.04	0.03	0.08	0.02	0.02
1200	0.03	0.06	0.06	0.09	0.02	0.03
1500	0.04	0.07	0.06	0.11	0.03	0.04

Component cfm	1 Row Steam Coil	2 Row Steam Coil	4 Row DX Coil	Gas Reheat Coil	Sub Cool Coil	DX, Reheat & Sub Cool Coils)
500	0.01	0.01	0.08	0.02	0.02	0.12
600	0.01	0.02	0.10	0.03	0.03	0.16
700	0.01	0.03	0.12	0.04	0.04	0.2
800	0.02	0.03	0.15	0.04	0.04	0.23
1000	0.03	0.05	0.20	0.06	0.06	0.32
1200	0.04	0.07	0.26	0.08	0.08	0.42
1500	0.05	0.10	0.35	0.10	0.10	0.55

Component cfm	75 Mbtu/h Input Gas Furnace	100 Mbtu/h Input Gas Furnace	125 Mbtu/h Input Gas Furnace	150 Mbtu/h Input Gas Furnace	200 Mbtu/h Input Gas Furnace
500	NA	NA	NA	NA	NA
600	0.09	NA	NA	NA	NA
700	0.10	0.09	NA	NA	NA
800	0.11	0.10	NA	NA	NA
1000	0.12	0.11	0.10	NA	NA
1200	0.14	0.13	0.12	0.11	NA
1500	0.16	0.15	0.14	0.13	0.12

Note: See ECW performance table for ECW pressure drop

DX Cooling at 95°F Air on Outdoor (Condenser) Coil															
cfm	dbt	Entering Air Temperature (°F)													
		75				80					85				
		59	63	67	71	59	63	67	71	75	59	63	67	71	75
500	TOT Btu/h	29249	31398	33703	36099	29465	31475	33848	36258	38794	29606	31675	33864	36368	38962
	SENS Btu/h	22359	20013	17689	15249	25170	22935	20438	18111	15592	27942	25740	23447	20950	18460
	WATTS INPUT	3033	3039	3055	3066	3034	3040	3048	3067	3081	3035	3041	3049	3068	3083
	LVG dbt (°F)	34.4	38.5	42.8	47.4	34.3	38.4	42.8	47.1	51.8	34.3	38.3	42.5	47	51.6
	LVG wbt (°F)	34.2	38.3	42.6	47.2	33.9	38.2	42.6	46.9	51.6	33.6	37.9	42.3	46.8	51.4
600	TOT Btu/h	31071	33173	35562	38000	31270	33265	35758	38192	40756	31675	33593	35744	38323	40956
	SENS Btu/h	24531	21829	18890	15940	27847	25090	22273	19371	16346	31172	28443	25633	22867	19785
	WATTS INPUT	3038	3045	3064	3077	3040	3046	3065	3078	3094	3048	3056	3052	3079	3096
	LVG dbt (°F)	37.9	42	46.5	51	37.9	42.1	46.3	50.8	55.5	37.9	42	46.2	50.6	55.2
	LVG wbt (°F)	37.6	41.9	46.3	50.8	37.3	41.8	46.2	50.6	55.3	36.9	41.4	46	50.4	55
700	TOT Btu/h	32432	34539	36947	39401	32788	34833	37161	39621	42147	33936	35076	37348	39768	42395
	SENS Btu/h	26502	23255	19974	16529	30381	27158	23811	20529	16998	33936	31040	27828	24500	21013
	WATTS INPUT	3043	3059	3071	3085	3045	3061	3072	3087	3096	3057	3062	3060	3088	3098
	LVG dbt (°F)	40.7	44.9	49.2	53.7	40.6	44.8	49.1	53.5	58.2	41	44.8	48.9	53.3	58
	LVG wbt (°F)	40.2	44.6	49	53.5	39.9	44.3	48.9	53.3	58	39	44.1	48.6	53.2	57.8
800	TOT Btu/h	33515	35581	38009	40466	34041	35971	38239	40711	43279	35799	36423	38534	40872	43528
	SENS Btu/h	28384	24650	21056	17064	32764	29115	25278	21630	17644	35799	33553	29884	26071	22218
	WATTS INPUT	3047	3064	3077	3092	3057	3066	3078	3094	3114	3065	3069	3067	3096	3116
	LVG dbt (°F)	42.8	47.1	51.3	55.8	42.9	47	51.3	55.6	60.2	44.4	47	51.1	55.4	60
	LVG wbt (°F)	42.3	46.7	51.1	55.6	41.9	46.4	51.1	55.4	60	40.8	46.1	50.7	55.3	59.8
1000	TOT Btu/h	35282	37265	39519	41968	36742	37645	39958	42276	44738	38784	38668	40281	42646	45092
	SENS Btu/h	31913	27385	22824	18052	36742	32853	28174	23755	18816	38784	38271	33783	29292	24546
	WATTS INPUT	3062	3072	3086	3103	3070	3075	3089	3098	3120	3082	3081	3092	3101	3130
	LVG dbt (°F)	46.1	50.2	54.3	58.8	46.7	50.2	54.4	58.7	63.2	49.8	50.3	54.4	58.4	63
	LVG wbt (°F)	45.2	49.7	54.2	58.6	44.5	49.5	54.1	58.5	63	43.6	49	53.7	58.3	62.8
1200	TOT Btu/h	36587	38383	40580	42970	38849	39112	41134	43286	45825	41061	41087	41734	43809	46136
	SENS Btu/h	35228	29921	24693	18992	38849	36415	31000	25566	20004	41061	41087	37567	32129	26601
	WATTS INPUT	3069	3079	3085	3111	3082	3084	3089	3114	3137	3097	3097	3102	3119	3141
	LVG dbt (°F)	48.4	52.4	56.3	60.9	50.6	52.5	56.6	60.7	65.1	54	53.9	56.6	60.7	64.9
	LVG wbt (°F)	47.3	51.8	56.2	60.7	46.4	51.5	56.1	60.5	64.9	45.6	50.8	55.7	60.3	64.8
1500	TOT Btu/h	38836	39542	41556	43970	41199	41224	42303	44322	46840	43606	43633	43539	45029	47181
	SENS Btu/h	38836	33542	26917	20372	41199	41224	34777	28285	21735	43606	43633	42685	36367	29629
	WATTS INPUT	3081	3086	3100	3120	3097	3098	3106	3123	3147	3117	3117	3116	3130	3151
	LVG dbt (°F)	51.5	54.7	58.7	62.9	55.1	55.1	59	62.9	67.1	58.6	58.6	59.2	63	67.1
	LVG wbt (°F)	49.2	53.9	58.3	62.7	48.5	53.4	58.3	62.6	66.9	47.8	52.8	57.8	62.4	66.8

Note: Cooling capacities shown are gross capacities. For net capacities, multiply blower bhp required times 2545 Btu per bph and subtract from total and sensible in tables.

Contact factory for additional information for operation in the shaded areas.

DX Cooling at 95°F Air on Outdoor (Condenser) Coil													
cfm	dbt	Entering Air Temperature (°F)											
		90						95					
		59	63	67	71	75	80	59	63	67	71	75	80
wbt													
500	TOT Btu/h	30543	31820	34050	36409	39020	42504	31957	32106	34202	36479	39121	42644
	SENS Btu/h	30543	28517	26251	23849	21281	18095	31957	31276	29029	26609	24121	20956
	WATTS INPUT	3045	3042	3050	3056	3071	3108	3050	3044	3052	3056	3072	3109
	LVG dbt (°F)	34.6	38.3	42.4	46.7	51.5	57.4	37	38.3	42.3	46.7	51.3	57.2
	LVG wbt (°F)	32.6	37.7	42.1	46.6	51.3	57.2	31	37.3	41.9	46.5	51.1	57
600	TOT Btu/h	33317	33897	36066	38380	41093	44535	34909	34930	36266	38708	41152	44707
	SENS Btu/h	33317	31802	29042	26154	23199	19367	34909	34930	32395	29604	26580	22803
	WATTS INPUT	3055	3050	3054	3067	3097	3119	3062	3062	3055	3073	3086	3127
	LVG dbt (°F)	39.6	41.9	46.1	50.5	55.1	61	42.2	42.2	46	50.2	55	60.8
	LVG wbt (°F)	35.5	41.1	45.7	50.3	54.9	60.8	34	40.2	45.4	50	54.8	60.6
700	TOT Btu/h	35658	35690	37618	40011	42571	46047	37404	37427	38042	40314	42647	46208
	SENS Btu/h	35658	34988	31731	28423	25003	20592	37404	37427	35578	32372	28909	24586
	WATTS INPUT	3065	3065	3062	3077	3109	3134	3074	3074	3078	3084	3098	3142
	LVG dbt (°F)	43.8	44.7	48.9	53.2	57.8	63.6	46.5	46.5	48.9	53.1	57.7	63.5
	LVG wbt (°F)	37.8	43.6	48.4	53	57.6	63.4	36.5	42.4	48	52.7	57.5	63.3
800	TOT Btu/h	37653	37676	38841	41252	43703	47154	39533	39558	39609	41570	44084	47342
	SENS Btu/h	37653	37676	34335	30547	26763	21775	39533	39558	38754	35056	31281	26340
	WATTS INPUT	3075	3075	3070	3099	3110	3151	3087	3087	3087	3094	3114	3153
	LVG dbt (°F)	47.3	47.3	51.1	55.4	59.9	65.7	50.2	50.1	51.1	55.3	59.7	65.5
	LVG wbt (°F)	39.7	45.4	50.5	55	59.7	65.5	38.5	44.3	50	54.8	59.5	65.3
1000	TOT Btu/h	40858	40884	41002	43051	45467	48726	42962	42990	43022	43698	45872	48932
	SENS Btu/h	40858	40884	39268	34763	30043	24111	42962	42990	43022	40238	35548	29810
	WATTS INPUT	3096	3096	3097	3105	3134	3169	3112	3112	3112	3111	3138	3171
	LVG dbt (°F)	52.9	52.9	54.4	58.5	62.7	68.5	56	56	56	58.5	62.8	68.4
	LVG wbt (°F)	42.6	48	53.4	58	62.6	68.3	41.5	47.1	52.6	57.8	62.4	68.2
1200	TOT Btu/h	43309	43337	43369	44451	46670	49773	45592	45622	45656	45548	47122	50233
	SENS Btu/h	43309	43337	43369	38694	33193	26429	45592	45622	45656	45025	39754	32853
	WATTS INPUT	3114	3115	3115	3125	3146	3181	3135	3135	3136	3129	3151	3180
	LVG dbt (°F)	57.3	57.2	57.2	60.8	64.9	70.4	60.5	60.5	60.5	61	65	70.2
	LVG wbt (°F)	44.7	50	55.2	60.1	64.6	70.2	43.8	49.1	54.4	59.7	64.4	70.1
1500	TOT Btu/h	46057	46086	46119	46220	47893	50819	48547	48578	48613	48654	48891	51478
	SENS Btu/h	46057	46086	46119	44331	37757	29248	48547	48578	48613	48654	45705	37407
	WATTS INPUT	3139	3140	3140	3141	3152	3194	3166	3166	3167	3167	3171	3196
	LVG dbt (°F)	62.1	62.1	62.1	63.2	67.2	72.3	65.6	65.6	65.6	65.6	67.4	72.4
	LVG wbt (°F)	47	52.1	57.1	62.1	66.6	72.1	46.3	51.4	56.5	61.5	66.4	72

Note: Cooling capacities shown are gross capacities. For net capacities, multiply blower bhp required times 2545 Btu per bph and subtract from total and sensible in tables.

Contact factory for additional information for operation in the shaded areas.

DX Cooling at Entering Air Conditions on Outdoor (Condenser) Coil																
cfm	dbt	Entering Air Temperature (°F)														
		100						105					110			
	wbt	59	63	67	71	75	80	63	67	71	75	80	67	71	75	80
500	TOT Btu/h	32925	32944	33718	36096	38484	41917	33905	33927	35563	38042	41221	34880	35188	37456	40655
	SENS Btu/h	32925	32944	31490	29140	26706	23491	33905	33927	31617	29282	26041	34880	34037	31732	28637
	WATTS INPUT	3225	3226	3221	3239	3238	3262	3412	3412	3419	3420	3437	3610	3602	3622	3625
	LVG dbt (°F)	40.3	40.2	42.9	47.1	51.6	57.6	43.5	43.5	47.6	51.9	58	46.7	48.3	52.4	58.3
	LVG wbt (°F)	29.9	36.4	42.2	46.7	51.5	57.4	35.4	41.9	47.1	51.8	57.8	41	47.3	52.1	58.1
600	TOT Btu/h	35994	36016	36018	38177	40694	43968	37064	37091	37782	40111	43347	38155	38187	39484	42720
	SENS Btu/h	35994	36016	35357	32608	29762	25920	37064	37091	35539	32776	29076	38155	38187	35781	32231
	WATTS INPUT	3238	3238	3239	3240	3256	3291	3417	3417	3430	3434	3467	3615	3616	3633	3644
	LVG dbt (°F)	45.6	45.6	46.6	50.7	55.2	61.1	49	48.9	51.3	55.5	61.4	52.3	52.3	55.9	61.6
	LVG wbt (°F)	33	39.3	45.5	50.3	55	60.9	38.4	44.7	50.5	55.2	61.2	43.8	50.1	55.5	61.4
700	TOT Btu/h	38588	38613	38641	39857	42284	45440	39787	39816	39760	41677	44919	40978	41014	41359	44242
	SENS Btu/h	38588	38613	38641	35840	32609	28271	39787	39816	39388	36169	32037	40978	41014	39667	35562
	WATTS INPUT	3252	3252	3252	3260	3269	3295	3441	3441	3441	3445	3471	3642	3642	3645	3667
	LVG dbt (°F)	50	50	49.9	53.6	57.7	63.7	53.4	53.4	54	58.1	63.9	56.9	56.9	58.6	64.1
	LVG wbt (°F)	35.5	41.6	47.6	52.9	57.6	63.5	40.7	46.8	52.9	57.8	63.7	46	52.1	57.9	63.9
800	TOT Btu/h	40805	40831	40862	41296	43521	46745	42091	42123	42160	43144	46128	43370	43408	43453	45437
	SENS Btu/h	40805	40831	40862	39074	35384	30653	42091	42123	42160	39456	34964	43370	43408	43453	38882
	WATTS INPUT	3266	3266	3266	3270	3279	3309	3457	3457	3457	3456	3483	3659	3660	3660	3677
	LVG dbt (°F)	53.7	53.7	53.7	55.7	59.9	65.7	57.3	57.2	57.2	60.3	65.8	60.8	60.8	60.7	65.9
	LVG wbt (°F)	37.6	43.5	49.3	54.9	59.6	65.5	42.7	48.6	54.4	59.7	65.6	47.9	53.7	59.5	65.8
1000	TOT Btu/h	44379	44408	44442	44481	45574	48485	45811	45846	45887	45934	47861	47232	47274	47323	47672
	SENS Btu/h	44379	44408	44442	44481	40774	34897	45811	45846	45887	45934	40132	47232	47274	47323	45280
	WATTS INPUT	3294	3294	3295	3295	3297	3329	3488	3488	3489	3489	3509	3694	3694	3695	3699
	LVG dbt (°F)	59.7	59.7	59.7	59.7	63	68.3	63.4	63.4	63.4	63.3	68.6	67.2	67.1	67.1	68.9
	LVG wbt (°F)	40.8	46.4	51.9	57.4	62.5	68.2	45.7	51.3	56.9	62.3	68.3	50.7	56.3	61.8	68.3
1200	TOT Btu/h	47123	47155	47190	47231	47331	49692	48669	48706	48749	48798	49505	50202	50246	50297	50372
	SENS Btu/h	47123	47155	47190	47231	45876	39081	48669	48706	48749	48798	45310	50202	50246	50297	50372
	WATTS INPUT	3320	3321	3321	3321	3323	3343	3517	3518	3518	3519	3520	3727	3727	3728	3729
	LVG dbt (°F)	64.4	64.4	64.3	64.3	65.3	70.5	68.2	68.2	68.2	68.1	70.8	72.1	72	72	71.9
	LVG wbt (°F)	43.2	48.5	53.9	59.2	64.3	70.1	48	53.3	58.7	63.9	70.1	52.8	58.2	63.4	69.8
1500	TOT Btu/h	50209	50241	50278	50321	50369	51301	51884	51923	51967	52017	52070	53543	53589	53641	53718
	SENS Btu/h	50209	50241	50278	50321	50369	45123	51884	51923	51967	52017	52070	53543	53589	53641	53718
	WATTS INPUT	3355	3356	3356	3357	3357	3364	3557	3557	3558	3558	3552	3771	3771	3772	3773
	LVG dbt (°F)	69.6	69.6	69.6	69.6	69.5	72.7	73.6	73.6	73.6	73.5	73.5	77.6	77.6	77.6	77.5
	LVG wbt (°F)	45.7	50.9	56	61.1	66	71.9	50.4	55.6	60.6	65.6	71.7	55.1	60.2	65.3	71.4

Note: Cooling capacities shown are gross capacities. For net capacities, multiply blower bhp required times 2545 Btu per bph and subtract from total and sensible in tables.

Contact factory for additional information for operation in the shaded areas.

50 HZ Capacity

At full rated (60Hz) evaporator cfm, use these multipliers:
 Total Capacity x 0.91
 Sensible Capacity x 0.95
 Watts x 0.85

Correction Factor Multiplier For Other Outdoor Air Ambient

Temperature (°F dbt)	85	90	95
Total Capacity	1.05	1.03	1.00
Sensible Capacity	1.03	1.02	1.00
Watts	0.95	0.98	1.00

Electric Heat Performance

kW	5	10	15	20	25	30
MBtu/h	17.1	34.1	51.2	68.3	85.3	102.4
cfm	Temperature Rise					
500	31.4	62.9	NA	NA	NA	NA
600	26.2	52.4	NA	NA	NA	NA
700	22.5	44.9	67.4	NA	NA	NA
800	19.7	39.3	59.0	NA	NA	NA
1000	15.7	31.5	47.2	62.9	NA	NA
1200	13.1	26.2	39.3	52.4	65.5	NA
1500	11.2	22.5	33.7	44.9	56.2	67.4
	Current Draw (amps)					
208v 1phase	24.0	48.1	72.1	96.2	120.2	144.2
208v 3 phase	13.9	27.8	41.6	55.5	69.4	83.3
240v 1 phase	20.8	41.7	62.5	83.3	104.2	125.0
240v 3 phase	12.0	24.1	36.1	48.1	60.1	72.2
480v 3 phase	6.0	12.0	18.0	24.1	30.1	36.1

Notes: Maximum temperature rise 75°F

Minimum circuit ampacity for wiring sizing

For unit less supplemental electric heat: Use unit values.

For supplemental electric heat: Use values from Electric Heat Performance table.

Minimum circuit ampacity = [(Larger of comp. RLA or fan motor FLA + electric heater amps) x 1.25 + FLA of all other motors & compressors].

Maximum over current protection

For units less supplemental electric heat: Use unit values.

For unit with supplemental electric heat:

Maximum fuse size = (2.25 x compressor RLA) + FLA of all other motors and compressors + electric heater amps). Select the fuse = to or next lower than calculate amperage from the following standard fuse sizes: 15, 20, 25, 30, 35, 40, 45, 50, 60, 70, 80, 90, 100, 110, 125, 150, 200, 225, 250, and 300.

In some instances with relatively large electric heat loads, the value computed for max. fuse size will be less than the MCA. In this situation, the max. fuse size is the same as MCA or next higher fuse size.

Gas Heat Performance

Btu/h Input	75,000	100,000	125,000	150,000	200,000
Output	60,000	80,000	100,000	120,000	160,000
cfm	Temperature Rise				
500	NA	NA	NA	NA	NA
600	92	NA	NA	NA	NA
700	79	105	NA	NA	NA
800	69	92	NA	NA	NA
1000	55	73	92	NA	NA
1200	46	61	76	92	NA
1500	36	49	61	73	98

1. Furnace must be constructed of 439 S.S. for temp. rises above 90°Fdbt.
2. Furnace for 100% outside air system must be ether 409 or 439 S.S.
3. Supply duct temperatures must not exceed 160°F dbt.
4. Maximum 439 S.S. temperature rise 105°Fdbt

Hydronic Heat Performance

cfm	1 Row Steam Coil		2 Row Steam Coil		1 Row Hot Water Coil				2 Row Hot Water Coil			
	Heating	Leaving	Heating	Leaving	Heating	Leaving	P.D FT. H ₂ O	P.D FT. H ₂ O	Heating	Leaving	gpm	P.D FT. H ₂ O
	Capacity MBtu/h*	Air Temp. dbt°F	Capacity MBtu/h *	Air Temp. dbt°F	Capacity MBtu/h **	Air Temp. dbt°F			Capacity MBtu/h **	Air Temp. dbt°F		
500	46.6	156	66.8	193	32.0	129	3.30	0.10	52.3	166	5.40	0.30
600	52.9	151	77.5	189	36.0	125	3.70	0.10	60.4	162	6.20	0.40
700	58.8	147	87.6	185	39.7	122	4.10	0.20	68.0	159	7.00	0.50
800	64.3	144	97.2	182	43.0	119	4.40	0.20	75.2	156	7.70	0.60
1000	74.4	138	115	176	49.1	115	5.00	0.20	88.4	151	9.10	0.80
1200	83.5	134	131	171	54.5	112	5.60	0.30	101	147	10.3	1.00
1500	95.6	129	154	164	61.6	108	6.30	0.40	117	141	12.0	1.40

*Capacity based on 2 psig steam and 70°F dbt entering air.

** Capacity based on 200°F dbt entering water, 180°F dbt leaving water and 70°F dbt entering air.

Hot Water Coil Correction Factors

Entering water Temp. °F dbt	Entering Air Temp.			
	40	50	60	70
160	0.96	0.90	0.82	0.74
180	1.08	1.02	0.95	0.87
200	1.23	1.16	1.08	1.00

Steam Coil Correction Factors

Entering Air Temp. °F dbt	Steam Pressure		
	40	2 PSIG	5 PSIG
40	1.21	1.25	
50	1.13	1.18	
60	1.06	1.11	
70	1.00	1.05	

Energy Conservation Wheel Performance

ECW244 4" Deep Outside air cfm = return air cfm

Return air °F = 75 dbt / 63 wbt

cfm	dbt	110				105					100					
	wbt	67.0	71.0	75.0	80.0	63.0	67.0	71.0	75.0	80.0	59.0	63.0	67.0	71.0	75.0	80.0
400 Static 0.4	Total MBtu/h	*	*	15.0	22.8	*	*	*	15.1	22.8	*	*	*	9.6	15.1	22.8
	SENS. MBtu/h	13.0	13.0	13.0	13.0	11.2	11.2	11.2	11.2	11.2	9.3	9.3	9.3	9.3	9.3	9.3
	LVG dbt (°F)	79.8	79.8	79.8	79.8	79.1	79.1	79.1	79.1	79.1	78.4	78.4	78.4	78.4	78.4	78.4
	LVG wbt (°F)	63.5	64.2	65.0	66.0	62.9	63.6	64.3	65.0	66.1	62.3	62.9	63.6	64.3	65.1	66.1
500 Static 0.5	Total MBtu/h	*	*	18.1	27.4	*	*	*	18.2	27.4	*	*	*	11.6	18.2	27.4
	SENS. MBtu/h	15.7	15.7	15.7	15.7	13.5	13.5	13.5	13.5	13.5	11.3	11.3	11.3	11.3	11.3	11.3
	LVG dbt (°F)	80.8	80.8	80.8	80.8	80.0	80.0	80.0	80.0	80.0	79.2	79.2	79.2	79.2	79.2	79.2
	LVG wbt (°F)	63.6	64.5	65.4	66.6	62.8	63.7	64.5	65.4	66.7	62.1	62.9	63.7	64.6	65.5	66.7
600 Static 0.6	Total MBtu/h	*	*	21.0	31.6	*	*	*	21.0	31.6	*	*	*	13.4	21.0	31.6
	SENS. MBtu/h	18.2	18.2	18.2	18.2	15.6	15.6	15.6	15.6	15.6	13.0	13.0	13.0	13.0	13.0	13.0
	LVG dbt (°F)	81.9	81.9	81.9	81.9	80.9	80.9	80.9	80.9	80.9	79.9	79.9	79.9	79.9	79.9	79.9
	LVG wbt (°F)	63.7	64.7	65.8	67.2	62.8	63.7	64.8	65.8	67.3	61.9	62.8	63.8	64.8	65.9	67.3
700 Static 0.7	Total MBtu/h	*	*	23.7	35.5	*	*	*	23.6	35.5	*	*	*	15.1	23.6	35.5
	SENS. MBtu/h	20.5	20.5	20.5	20.5	17.6	17.6	17.6	17.6	17.6	14.7	14.7	14.7	14.7	14.7	14.7
	LVG dbt (°F)	82.8	82.8	82.8	82.8	81.7	81.7	81.7	81.7	81.7	80.6	80.6	80.6	80.6	80.6	80.6
	LVG wbt (°F)	63.7	64.9	66.2	67.8	62.7	63.8	65.0	66.2	67.9	61.8	62.8	63.9	65.0	66.3	67.9
800 Static 0.8	Total MBtu/h	*	*	26.1	39.1	*	*	*	26.0	39.0	*	*	*	16.7	26.0	39.0
	SENS. MBtu/h	22.7	22.7	22.7	22.7	19.4	19.4	19.4	19.4	19.4	16.2	16.2	16.2	16.2	16.2	16.2
	LVG dbt (°F)	83.8	83.8	83.8	83.8	82.5	82.5	82.5	82.5	82.5	81.3	81.3	81.3	81.3	81.3	81.3
	LVG wbt (°F)	63.8	65.1	66.5	68.3	62.7	63.9	65.2	66.6	68.4	61.6	62.7	63.9	65.3	66.6	68.5
900 Static 0.9	Total MBtu/h	*	*	28.3	42.3	*	*	*	28.2	42.2	*	*	*	18.1	28.1	42.1
	SENS. MBtu/h	24.6	24.6	24.6	24.6	21.1	21.1	21.1	21.1	21.1	17.6	17.6	17.6	17.6	17.6	17.6
	LVG dbt (°F)	84.7	84.7	84.7	84.7	83.3	83.3	83.3	83.3	83.3	81.9	81.9	81.9	81.9	81.9	81.9
	LVG wbt (°F)	63.9	65.3	66.8	68.8	62.6	64.0	65.4	66.9	68.9	61.5	62.7	64.0	65.5	67.0	69.0
1000 Static 1.0	Total MBtu/h	*	*	30.3	45.2	*	*	*	30.2	45.1	*	*	*	19.4	30.1	45.0
	SENS. MBtu/h	26.4	26.4	26.4	26.4	22.6	22.6	22.6	22.6	22.6	18.9	18.9	18.9	18.9	18.9	18.9
	LVG dbt (°F)	85.6	85.6	85.6	85.6	84.1	84.1	84.1	84.1	84.1	82.5	82.5	82.5	82.5	82.5	82.5
	LVG wbt (°F)	64.0	65.5	67.1	69.3	62.6	64.0	65.6	67.2	69.4	61.3	62.7	64.1	65.7	67.3	69.5

Note: Performance based on exhaust air conditions of 75° F/dbt, 63° F/wbt cooling and 70° F/dbt, 58° F/wbt heating.

* Moisture has been added to the supply air stream from the exhaust air stream.

Energy Conservation Wheel Performance

ECW244 4" Deep

Outside air cfm = return air cfm

Return air °F = 75 dbt / 63 wbt

Outside air cfm = return air cfm

Return air °F = 70 dbt / 58 wbt

cfm	dbt	95						90						Heating Mode				
	wbt	59.0	63.0	67.0	71.0	75.0	80.0	59.0	63.0	67.0	71.0	75.0	80.0	-10	0	10	20	30
400 Static 0.4	Total MBtu/h	*	*	*	9.6	15.1	22.9	*	*	*	9.6	15.1	22.9	-	-	-	-	-
	SENS. MBtu/h	7.5	7.5	7.5	7.5	7.5	7.5	5.6	5.6	5.6	5.6	5.6	5.6	29.8	26.1	22.4	18.7	14.9
	LVG dbt (°F)	77.7	77.7	77.7	77.7	77.7	77.7	77.0	77.0	77.0	77.0	77.0	77.0	59.1	60.5	61.8	63.2	64.5
	LVG wbt (°F)	62.4	63.0	63.6	64.3	65.1	66.1	62.4	63.0	63.7	64.4	65.1	66.2	-	-	-	-	-
500 Static 0.5	Total MBtu/h	*	*	*	11.6	18.2	27.5	*	*	*	11.6	18.2	27.5	-	-	-	-	-
	SENS. MBtu/h	9.0	9.0	9.0	9.0	9.0	9.0	6.8	6.8	6.8	6.8	6.8	6.8	36.0	31.5	27.0	22.5	18.0
	LVG dbt (°F)	78.3	78.3	78.3	78.3	78.3	78.3	77.5	77.5	77.5	77.5	77.5	77.5	56.7	58.3	60.0	61.7	63.3
	LVG wbt (°F)	62.2	62.9	63.7	64.6	65.5	66.8	62.2	63.0	63.8	64.6	65.5	66.8	-	-	-	-	-
600 Static 0.6	Total MBtu/h	*	*	*	13.4	21.0	31.6	*	*	*	13.4	21.0	31.6	-	-	-	-	-
	SENS. MBtu/h	10.4	10.4	10.4	10.4	10.4	10.4	7.8	7.8	7.8	7.8	7.8	7.8	41.7	36.5	31.3	26.1	20.8
	LVG dbt (°F)	78.9	78.9	78.9	78.9	78.9	78.9	77.9	77.9	77.9	77.9	77.9	77.9	54.3	56.3	58.2	60.2	62.2
	LVG wbt (°F)	62.0	62.9	63.8	64.9	65.9	67.4	62.1	62.9	63.9	64.9	66.0	67.5	-	-	-	-	-
700 Static 0.7	Total MBtu/h	*	*	*	15.1	23.6	35.5	*	*	*	15.0	23.5	35.4	-	-	-	-	-
	SENS. MBtu/h	11.7	11.7	11.7	11.7	11.7	11.7	8.8	8.8	8.8	8.8	8.8	8.8	46.9	41.1	35.2	29.3	23.5
	LVG dbt (°F)	79.5	79.5	79.5	79.5	79.5	79.5	78.4	78.4	78.4	78.4	78.4	78.4	52.1	54.3	56.6	58.8	61.0
	LVG wbt (°F)	61.8	62.9	63.9	65.1	66.3	68.0	61.9	62.9	64.0	65.2	66.4	68.1	-	-	-	-	-
800 Static 0.8	Total MBtu/h	*	*	*	16.6	26.0	38.9	*	*	*	16.5	25.9	38.9	-	-	-	-	-
	SENS. MBtu/h	12.9	12.9	12.9	12.9	12.9	12.9	9.7	9.7	9.7	9.7	9.7	9.7	51.8	45.3	38.8	32.4	25.9
	LVG dbt (°F)	80.0	80.0	80.0	80.0	80.0	80.0	78.8	78.8	78.8	78.8	78.8	78.8	49.9	52.4	54.9	57.5	60.0
	LVG wbt (°F)	61.7	62.8	64.1	65.3	66.7	68.5	61.7	62.9	64.1	65.4	66.8	68.6	-	-	-	-	-
900 Static 0.9	Total MBtu/h	*	*	*	18.0	28.0	42.0	*	*	*	17.9	27.9	42.0	-	-	-	-	-
	SENS. MBtu/h	14.1	14.1	14.1	14.1	14.1	14.1	10.5	10.5	10.5	10.5	10.5	10.5	56.2	49.2	42.2	35.1	28.1
	LVG dbt (°F)	80.5	80.5	80.5	80.5	80.5	80.5	79.2	79.2	79.2	79.2	79.2	79.2	47.8	50.6	53.4	56.2	58.9
	LVG wbt (°F)	61.5	62.8	64.2	65.6	67.1	69.1	61.6	62.9	64.2	65.6	67.1	69.1	-	-	-	-	-
1000 Static 1.0	Total MBtu/h	*	*	*	19.3	30.0	44.9	*	*	*	19.1	29.8	44.8	-	-	-	-	-
	SENS. MBtu/h	15.1	15.1	15.1	15.1	15.1	15.1	11.3	11.3	11.3	11.3	11.3	11.3	60.3	52.8	45.2	37.7	30.2
	LVG dbt (°F)	81.0	81.0	81.0	81.0	81.0	81.0	79.5	79.5	79.5	79.5	79.5	79.5	45.9	48.9	51.9	54.9	57.9
	LVG wbt (°F)	61.4	62.8	64.2	65.8	67.4	69.6	61.5	62.9	64.3	65.8	67.5	69.6	-	-	-	-	-

Note: Performance based on exhaust air conditions of 75° F/dbt, 63° F/wbt cooling and 70°F/dbt, 58°F/wbt heating.

* Moisture has been added to the supply air stream from the exhaust air stream.

Energy Conservation Wheel Performance

ECW324 4" Deep Outside air cfm = return air cfm
 Return air °F = 75 dbt / 63 wbt

cfm	dbt	110				105					100					
	wbt	67.0	71.0	75.0	80.0	63.0	67.0	71.0	75.0	80.0	59.0	63.0	67.0	71.0	75.0	80.0
750 Static 0.42	Total MBtu/h	*	*	28.1	42.5	*	*	*	28.2	42.5	*	*	*	17.9	28.2	42.6
	SENS. MBtu/h	24.4	24.4	24.4	24.4	20.9	20.9	20.9	20.9	20.9	17.4	17.4	17.4	17.4	17.4	17.4
	LVG dbt (°F)	79.9	79.9	79.9	79.9	79.2	79.2	79.2	79.2	79.2	78.5	78.5	78.5	78.5	78.5	78.5
	LVG wbt (°F)	63.5	64.3	65.0	66.1	62.9	63.6	64.3	65.1	66.2	62.3	62.9	63.6	64.3	65.1	66.2
1000 Static 0.55	Total MBtu/h	*	*	35.7	53.7	*	*	*	35.7	53.7	*	*	*	22.7	35.7	53.7
	SENS. MBtu/h	30.9	30.9	30.9	30.9	26.5	26.5	26.5	26.5	26.5	22.1	22.1	22.1	22.1	22.1	22.1
	LVG dbt (°F)	81.4	81.4	81.4	81.4	80.5	80.5	80.5	80.5	80.5	79.6	79.6	79.6	79.6	79.6	79.6
	LVG wbt (°F)	63.6	64.6	65.6	67.0	62.8	63.7	64.6	65.6	67.0	62.0	62.8	63.7	64.7	65.7	67.1
1250 Static 0.69	Total MBtu/h	*	*	42.4	63.6	*	*	*	42.3	63.6	*	*	*	27.0	42.3	63.5
	SENS. MBtu/h	36.8	36.8	36.8	36.8	31.5	31.5	31.5	31.5	31.5	26.3	26.3	26.3	26.3	26.3	26.3
	LVG dbt (°F)	82.8	82.8	82.8	82.8	81.7	81.7	81.7	81.7	81.7	80.5	80.5	80.5	80.5	80.5	80.5
	LVG wbt (°F)	63.7	64.9	66.1	67.8	62.7	63.8	64.8	66.2	67.8	61.8	62.8	63.9	65.0	66.2	67.9
1500 Static 0.83	Total MBtu/h	*	*	48.4	72.4	*	*	*	48.3	72.3	*	*	*	30.9	48.1	72.1
	SENS. MBtu/h	42.0	42.0	42.0	42.0	36.0	36.0	36.0	36.0	36.0	30.0	30.0	30.0	30.0	30.0	30.0
	LVG dbt (°F)	84.1	84.1	84.1	84.1	82.8	82.8	82.8	82.8	82.8	81.5	81.5	81.5	81.5	81.5	81.5
	LVG wbt (°F)	63.8	65.2	66.6	68.5	62.7	63.9	65.2	66.7	68.6	61.6	62.7	64.0	65.3	66.7	68.6
1750 Static 0.97	Total MBtu/h	*	*	53.7	80.1	*	*	*	53.5	79.9	*	*	*	34.3	53.3	79.7
	SENS. MBtu/h	46.7	46.7	46.7	46.7	40.0	40.0	40.0	40.0	40.0	33.3	33.3	33.3	33.3	33.3	33.3
	LVG dbt (°F)	85.3	85.3	85.3	85.3	83.8	83.8	83.8	83.8	83.8	82.4	82.4	82.4	82.4	82.4	82.4
	LVG wbt (°F)	63.9	65.4	67.0	69.2	62.6	64.0	65.5	67.1	69.3	61.4	62.7	64.1	65.6	67.2	69.3
2000 Static 1.11	Total MBtu/h	*	*	58.4	86.8			*	58.1	86.5	*	*	*	37.4	57.8	86.3
	SENS. MBtu/h	50.8	50.8	50.8	50.8	43.6	43.6	43.6	43.6	43.6	36.3	36.3	36.3	36.3	36.3	36.3
	LVG dbt (°F)	86.5	86.5	86.5	86.5	84.8	84.8	84.8	84.8	84.8	83.2	83.2	83.2	83.2	83.2	83.2
	LVG wbt (°F)	64.0	65.7	67.5	69.8	62.6	64.1	65.8	67.6	69.9	61.2	62.6	64.2	65.9	67.7	70.0
2500 Static 1.38	Total MBtu/h	*	*	66.2	97.9	*	*	*	65.7	97.4	*	*	*	42.5	65.2	96.9
	SENS. MBtu/h	57.8	57.8	57.8	57.8	49.5	49.5	49.5	49.5	49.5	41.3	41.3	41.3	41.3	41.3	41.3
	LVG dbt (°F)	88.6	88.6	88.6	88.6	86.7	86.7	86.7	86.7	86.7	84.7	84.7	84.7	84.7	84.7	84.7
	LVG wbt (°F)	64.2	66.2	68.2	70.9	62.5	64.3	66.3	68.3	71.0	60.8	62.6	64.4	66.4	68.4	71.1

Note: Performance based on exhaust air conditions of 75° F/dbt, 63° F/wbt cooling and 70° F/dbt, 58° F/wbt heating.
 * Moisture has been added to the supply air stream from the exhaust air stream.

Energy Conservation Wheel Performance

ECW324 4" Deep

Outside air cfm = return air cfm

Return air °F = 75 dbt / 63 wbt

Outside air cfm = return air cfm

Return air °F = 70 dbt / 58 wbt

cfm	dbt	95						90						Heating Mode				
	wbt	59.0	63.0	67.0	71.0	75.0	80.0	59.0	63.0	67.0	71.0	75.0	80.0	-10	0	10	20	30
750 Static 0.42	Total MBtu/h	*	*	*	17.9	28.3	42.6	*	*	*	18.0	28.3	42.7	-	-	-	-	-
	SENS. MBtu/h	13.9	13.9	13.9	13.9	13.9	13.9	10.4	10.4	10.4	10.4	10.4	10.4	55.7	48.7	41.8	34.8	27.8
	LVG dbt (°F)	77.8	77.8	77.8	77.8	77.8	77.8	77.1	77.1	77.1	77.1	77.1	77.1	58.7	60.1	61.6	63.0	64.4
	LVG wbt (°F)	62.3	63.0	63.6	64.4	65.2	66.2	62.4	63.0	63.7	64.4	65.2	66.3	-	-	-	-	-
1000 Static 0.55	Total MBtu/h	*	*	*	22.7	35.7	53.7	*	*	*	22.7	35.7	53.8	-	-	-	-	-
	SENS. MBtu/h	17.7	17.7	17.7	17.7	17.7	17.7	13.2	13.2	13.2	13.2	13.2	13.2	70.6	61.8	53.0	44.2	35.3
	LVG dbt (°F)	78.6	78.6	78.6	78.6	78.6	78.6	77.7	77.7	77.7	77.7	77.7	77.7	55.4	57.2	59.1	60.9	62.7
	LVG wbt (°F)	62.1	62.9	63.8	64.7	65.7	67.1	62.1	63.0	63.8	64.8	65.8	67.2	-	-	-	-	-
1250 Static 0.69	Total MBtu/h	*	*	*	27.0	42.2	63.5	*	*	*	26.9	42.2	63.5	-	-	-	-	-
	SENS. MBtu/h	21.0	21.0	21.0	21.0	21.0	21.0	15.8	15.8	15.8	15.8	15.8	15.8	84.0	73.5	63.0	52.5	42.0
	LVG dbt (°F)	79.4	79.4	79.4	79.4	79.4	79.4	78.3	78.3	78.3	78.3	78.3	78.3	52.3	54.5	56.7	58.9	61.1
	LVG wbt (°F)	61.8	62.9	63.9	65.1	66.3	67.9	61.9	62.9	64.0	65.1	66.4	68.0	-	-	-	-	-
1500 Static 0.83	Total MBtu/h	*	*	*	30.8	48.0	72.0	*	*	*	30.6	47.9	71.9	-	-	-	-	-
	SENS. MBtu/h	24.0	24.0	24.0	24.0	24.0	24.0	18.0	18.0	18.0	18.0	18.0	18.0	96.0	84.0	72.0	60.0	48.0
	LVG dbt (°F)	80.2	80.2	80.2	80.2	80.2	80.2	78.9	78.9	78.9	78.9	78.9	78.9	49.3	51.9	54.5	57.0	59.6
	LVG wbt (°F)	61.6	62.8	64.1	65.4	66.8	68.7	61.7	62.9	64.1	65.5	66.9	68.8	-	-	-	-	-
1750 Static 0.97	Total MBtu/h	*	*	*	34.1	53.1	79.5	*	*	*	33.9	52.8	79.3	-	-	-	-	-
	SENS. MBtu/h	26.7	26.7	26.7	26.7	26.7	26.7	20.0	20.0	20.0	20.0	20.0	20.0	106.7	93.4	80.0	66.7	53.3
	LVG dbt (°F)	80.9	80.9	80.9	80.9	80.9	80.9	79.4	79.4	79.4	79.4	79.4	79.4	46.5	49.4	52.3	55.3	58.2
	LVG wbt (°F)	61.4	62.8	64.2	65.7	67.3	69.4	61.5	62.9	64.3	65.8	67.4	69.5	-	-	-	-	-
2000 Static 1.11	Total MBtu/h	*	*	*	37.1	57.5	86.0	*	*	*	36.7	57.2	85.7	-	-	-	-	-
	SENS. MBtu/h	29.0	29.0	29.0	29.0	29.0	29.0	21.8	21.8	21.8	21.8	21.8	21.8	116.2	101.7	87.1	72.6	58.1
	LVG dbt (°F)	81.6	81.6	81.6	81.6	81.6	81.6	79.9	79.9	79.9	79.9	79.9	79.9	43.8	47.1	50.3	53.6	56.9
	LVG wbt (°F)	61.2	62.7	64.3	66.0	67.7	70.1	61.3	62.8	64.4	66.1	67.8	70.1	-	-	-	-	-
2500 Static 1.38	Total MBtu/h	*	*	*	41.9	64.7	96.4	*	*	*	41.4	64.2	95.9	-	-	-	-	-
	SENS. MBtu/h	33.0	33.0	33.0	33.0	33.0	33.0	24.8	24.8	24.8	24.8	24.8	24.8	132.0	115.5	99.0	82.5	66.0
	LVG dbt (°F)	82.8	82.8	82.8	82.8	82.8	82.8	80.8	80.8	80.8	80.8	80.8	80.8	38.9	42.8	46.7	50.6	54.5
	LVG wbt (°F)	60.9	62.7	64.5	66.5	68.5	71.2	61.0	62.8	64.7	66.6	68.6	71.3	-	-	-	-	-

Note: Performance based on exhaust air conditions of 75° F/dbt, 63° F/wbt cooling and 70°F/dbt, 58°F/wbt heating.

* Moisture has been added to the supply air stream from the exhaust air stream.

Energy Conservation Wheel Performance

ECW364 4" Deep Outside air cfm= return air cfm
 Return air °F = 75 dbt / 63 wbt

cfm	dbt	110				105					100					
	wbt	67.0	71.0	75.0	80.0	63.0	67.0	71.0	75.0	80.0	59.0	63.0	67.0	71.0	75.0	80.0
900 Static 0.39	Total MBtu/h	*	*	34.1	51.5	*	*	*	34.1	51.5	*	*	*	21.7	34.2	51.6
	SENS. MBtu/h	29.5	29.5	29.5	29.5	25.3	25.3	25.3	25.3	25.3	21.1	21.1	21.1	21.1	21.1	21.1
	LVG dbt (°F)	79.7	79.7	79.7	79.7	79.0	79.0	79.0	79.0	79.0	78.3	78.3	78.3	78.3	78.3	78.3
	LVG wbt (°F)	63.5	64.2	64.9	66.0	62.9	63.5	64.2	65.0	66.0	62.3	62.9	63.6	64.3	65.0	66.0
1200 Static 0.52	Total MBtu/h	*	*	43.3	65.2	*	*	*	43.3	65.2	*	*	*	27.6	43.3	65.3
	SENS. MBtu/h	37.5	37.5	37.5	37.5	32.2	32.2	32.2	32.2	32.2	26.8	26.8	26.8	26.8	26.8	26.8
	LVG dbt (°F)	81.1	81.1	81.1	81.1	80.2	80.2	80.2	80.2	80.2	79.3	79.3	79.3	79.3	79.3	79.3
	LVG wbt (°F)	63.6	64.5	65.5	66.8	62.8	63.7	64.6	65.5	66.8	62.1	62.9	63.7	64.6	65.6	66.9
1500 Static 0.65	Total MBtu/h	*	*	51.6	77.5	*	*	*	51.6	77.5	*	*	*	32.9	51.5	77.4
	SENS. MBtu/h	44.8	44.8	44.8	44.8	38.4	38.4	38.4	38.4	38.4	32.0	32.0	32.0	32.0	32.0	32.0
	LVG dbt (°F)	82.4	82.4	82.4	82.4	81.3	81.3	81.3	81.3	81.3	80.3	80.3	80.3	80.3	80.3	80.3
	LVG wbt (°F)	63.7	64.8	66.0	67.5	62.7	63.8	64.9	66.0	67.6	61.8	62.8	63.8	64.9	66.1	67.7
1800 Static 0.78	Total MBtu/h	*	*	59.0	88.4	*	*	*	58.9	88.3	*	*	*	37.7	58.8	88.2
	SENS. MBtu/h	51.3	51.3	51.3	51.3	43.9	43.9	43.9	43.9	43.9	36.6	36.6	36.6	36.6	36.6	36.6
	LVG dbt (°F)	83.6	83.6	83.6	83.6	82.4	82.4	82.4	82.4	82.4	81.2	81.2	81.2	81.2	81.2	81.2
	LVG wbt (°F)	63.8	65.1	66.4	68.3	62.7	63.9	65.1	66.5	68.3	61.6	62.7	63.9	65.2	66.6	68.4
2100 Static 0.91	Total MBtu/h	*	*	65.7	98.1	*	*	*	65.5	97.9	*	*	*	42.0	65.3	97.7
	SENS. MBtu/h	57.1	57.1	57.1	57.1	48.9	48.9	48.9	48.9	48.9	40.8	40.8	40.8	40.8	40.8	40.8
	LVG dbt (°F)	84.8	84.8	84.8	84.8	83.4	83.4	83.4	83.4	83.4	82.0	82.0	82.0	82.0	82.0	82.0
	LVG wbt (°F)	63.9	65.3	66.9	68.9	62.6	64.0	65.4	67.0	69.0	61.4	62.7	64.1	65.5	67.0	69.1
2400 Static 1.05	Total MBtu/h	*	*	71.6	107	*	*	*	71.3	106	*	*	*	45.8	71.0	106
	SENS. MBtu/h	62.3	62.3	62.3	62.3	53.4	53.4	53.4	53.4	53.4	44.5	44.5	44.5	44.5	44.5	44.5
	LVG dbt (°F)	86.0	86.0	86.0	86.0	84.4	84.4	84.4	84.4	84.4	82.8	82.8	82.8	82.8	82.8	82.8
	LVG wbt (°F)	64.0	65.6	67.3	69.5	62.6	64.1	65.7	67.4	69.6	61.2	62.7	64.2	65.8	67.5	69.7
2700 Static 1.18	Total MBtu/h	*	*	76.9	114	*	*	*	76.5	114	*	*	*	49.3	76.0	113
	SENS. MBtu/h	67.0	67.0	67.0	67.0	57.4	57.4	57.4	57.4	57.4	47.9	47.9	47.9	47.9	47.9	47.9
	LVG dbt (°F)	87.0	87.0	87.0	87.0	85.3	85.3	85.3	85.3	85.3	83.6	83.6	83.6	83.6	83.6	83.6
	LVG wbt (°F)	64.1	65.8	67.7	70.1	62.5	64.2	65.9	67.7	70.2	61.1	62.6	64.3	66.0	67.9	70.3

Note: Performance based on exhaust air conditions of 75° F/dbt, 63° F/wbt cooling and 70°F/bdt, 58°F/wbt heating.

* Moisture has been added to the supply air stream from the exhaust air stream.

Energy Conservation Wheel Performance

ECW364 4" Deep

Outside air cfm= return air cfm
Return air °F = 75 dbt / 63 wbt

Outside air cfm = return air cfm
Return air °F = 70 dbt / 58 wbt

cfm	dbt wbt	95						90						Heating Mode				
		59.0	63.0	67.0	71.0	75.0	80.0	59.0	63.0	67.0	71.0	75.0	80.0	-10	0	10	20	30
900 Static 0.39	Total MBtu/h	*	*	*	21.7	34.2	51.7	*	*	*	21.8	34.3	51.7	-	-	-	-	-
	SENS. MBtu/h	16.8	16.8	16.8	16.8	16.8	16.8	12.6	12.6	12.6	12.6	12.6	12.6	67.4	59.0	50.5	42.1	33.7
	LVG dbt (°F)	77.7	77.7	77.7	77.7	77.7	77.7	77.0	77.0	77.0	77.0	77.0	77.0	59.3	60.7	62.0	63.3	64.7
	LVG wbt (°F)	62.4	63.0	63.6	64.3	65.1	66.1	62.4	63.0	63.6	64.3	65.1	66.1	-	-	-	-	-
1200 Static 0.52	Total MBtu/h	*	*	*	27.6	43.4	65.3	*	*	*	27.6	43.4	65.4	-	-	-	-	-
	SENS. MBtu/h	21.4	21.4	21.4	21.4	21.4	21.4	16.1	16.1	16.1	16.1	16.1	16.1	85.7	75.0	64.3	53.6	42.9
	LVG dbt (°F)	78.5	78.5	78.5	78.5	78.5	78.5	77.6	77.6	77.6	77.6	77.6	77.6	56.2	57.9	59.6	61.3	63.1
	LVG wbt (°F)	62.2	62.9	63.8	64.7	65.6	66.9	62.2	63.0	63.8	64.7	65.7	67.0	-	-	-	-	-
1500 Static 0.65	Total MBtu/h	*	*	*	32.8	51.5	77.4	*	*	*	32.8	51.4	77.4	-	-	-	-	-
	SENS. MBtu/h	25.6	25.6	25.6	25.6	25.6	25.6	19.2	19.2	19.2	19.2	19.2	19.2	102.3	89.5	76.7	63.9	51.1
	LVG dbt (°F)	79.2	79.2	79.2	79.2	79.2	79.2	78.2	78.2	78.2	78.2	78.2	78.2	53.1	55.2	57.3	59.5	61.6
	LVG wbt (°F)	61.9	62.9	63.9	65.0	66.1	67.7	62.0	62.9	64.0	65.0	66.2	67.8	-	-	-	-	-
1800 Static 0.78	Total MBtu/h	*	*	*	37.5	58.7	88.1	*	*	*	37.4	58.5	88.0	-	-	-	-	-
	SENS. MBtu/h	29.3	29.3	29.3	29.3	29.3	29.3	22.0	22.0	22.0	22.0	22.0	22.0	117.2	102.5	87.9	73.2	58.6
	LVG dbt (°F)	79.9	79.9	79.9	79.9	79.9	79.9	78.7	78.7	78.7	78.7	78.7	78.7	50.3	52.7	55.2	57.7	60.1
	LVG wbt (°F)	61.7	62.8	64.0	65.3	66.6	68.5	61.8	62.9	64.1	65.4	66.7	68.5	-	-	-	-	-
2100 Static 0.91	Total MBtu/h	*	*	*	41.7	65.0	97.5	*	*	*	41.5	64.8	97.3	-	-	-	-	-
	SENS. MBtu/h	32.6	32.6	32.6	32.6	32.6	32.6	24.5	24.5	24.5	24.5	24.5	24.5	130.5	114.2	97.9	81.6	65.3
	LVG dbt (°F)	80.6	80.6	80.6	80.6	80.6	80.6	79.2	79.2	79.2	79.2	79.2	79.2	47.5	50.4	53.2	56.0	58.8
	LVG wbt (°F)	61.5	62.8	64.2	65.6	67.1	69.1	61.6	62.9	64.2	65.7	67.2	69.2	-	-	-	-	-
2400 Static 1.05	Total MBtu/h	*	*	*	45.5	70.7	106	*	*	*	45.1	70.3	105	-	-	-	-	-
	SENS. MBtu/h	35.6	35.6	35.6	35.6	35.6	35.6	26.7	26.7	26.7	26.7	26.7	26.7	142.5	124.7	106.9	89.0	71.2
	LVG dbt (°F)	81.3	81.3	81.3	81.3	81.3	81.3	79.7	79.7	79.7	79.7	79.7	79.7	45.0	48.1	51.2	54.4	57.5
	LVG wbt (°F)	61.3	62.7	64.2	65.9	67.5	69.8	61.4	62.8	64.4	65.9	67.6	69.9	-	-	-	-	-
2700 Static 1.18	Total MBtu/h	*	*	*	48.8	75.6	113	*	*	*	48.3	75.1	112	-	-	-	-	-
	SENS. MBtu/h	38.3	38.3	38.3	38.3	38.3	38.3	28.7	28.7	28.7	28.7	28.7	28.7	153.2	134.0	114.9	95.7	76.6
	LVG dbt (°F)	81.9	81.9	81.9	81.9	81.9	81.9	80.2	80.2	80.2	80.2	80.2	80.2	42.5	46.0	49.4	52.8	56.3
	LVG wbt (°F)	61.2	62.7	64.4	66.1	67.9	70.4	61.3	62.8	64.5	66.2	68.0	70.4	-	-	-	-	-

Note: Performance based on exhaust air conditions of 75° F/dbt, 63° F/wbt cooling and 70° F/dbt, 58° F/wbt heating.
* Moisture has been added to the supply air stream from the exhaust air stream.

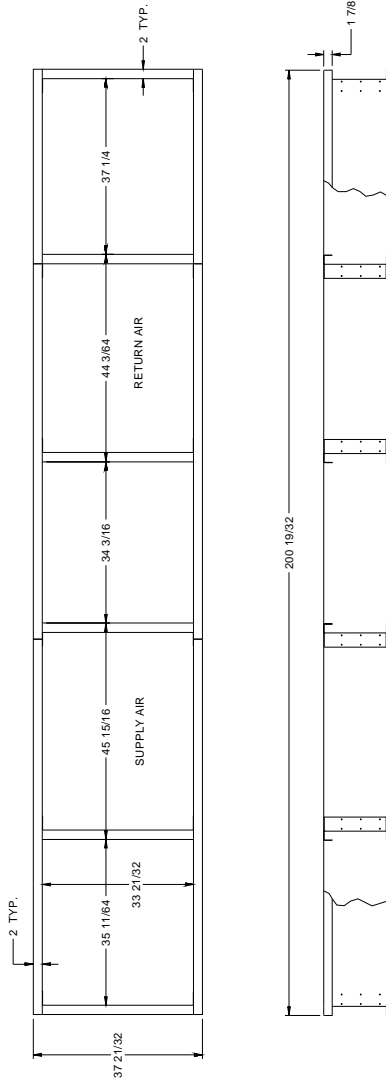
Weights – lbs

Standard Unit Weight	1 Row Hydronic Heat Coil	2 Row Hydronic Heat Coil	4 Row Chilled Water Coil	6 Row Chilled Water Coil	1 Row Hot Gas Reheat Coil	1 Row Sub Cooling Coil
2100	41	55	85	114	7	7
Extended Unit Weight	Electric Heat 1-60 kW	75 MBH Furnace	100 MBth/h Furnace	125 MBth/h Furnace	150 MBth/h Furnace	200 MBth/h Furnace
2600	15 - 20	145	155	165	185	200
Economizer	ECW 224	ECW 324	ECW 364	Supply Fan and Motor	Return Fan and Motor	Exhaust Fan and Motor
45	150	170	220	180	180	130
Standard Unit Curb	Extended Unit Curb					
200	250					

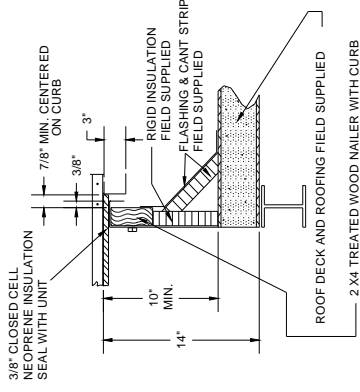
Note: Base unit weight includes standard and extended cabinet and DX coil.
Add the weights of the options selected to the base unit weight for total unit weight.

P/N 0851Y-1189

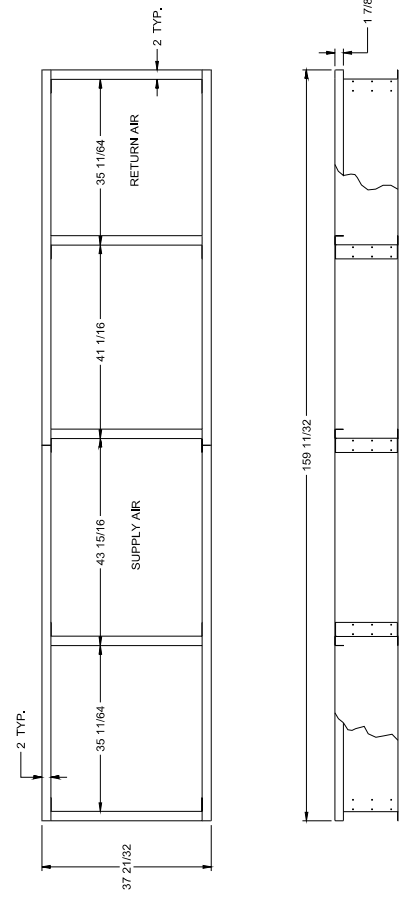
STANDARD CURB FOR VERTICAL RETURN AND SUPPLY DC MODEL WITH ECW OR POWER EXHAUST



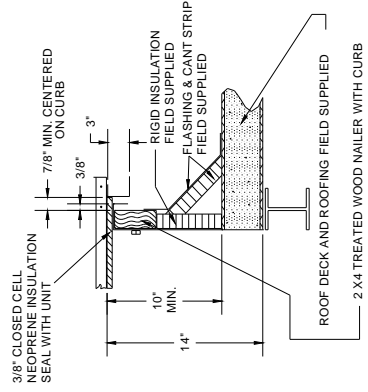
SECTION OF A TYPICAL CURB INSTALLATION



STANDARD CURB FOR VERTICAL RETURN AND SUPPLY DC MODEL

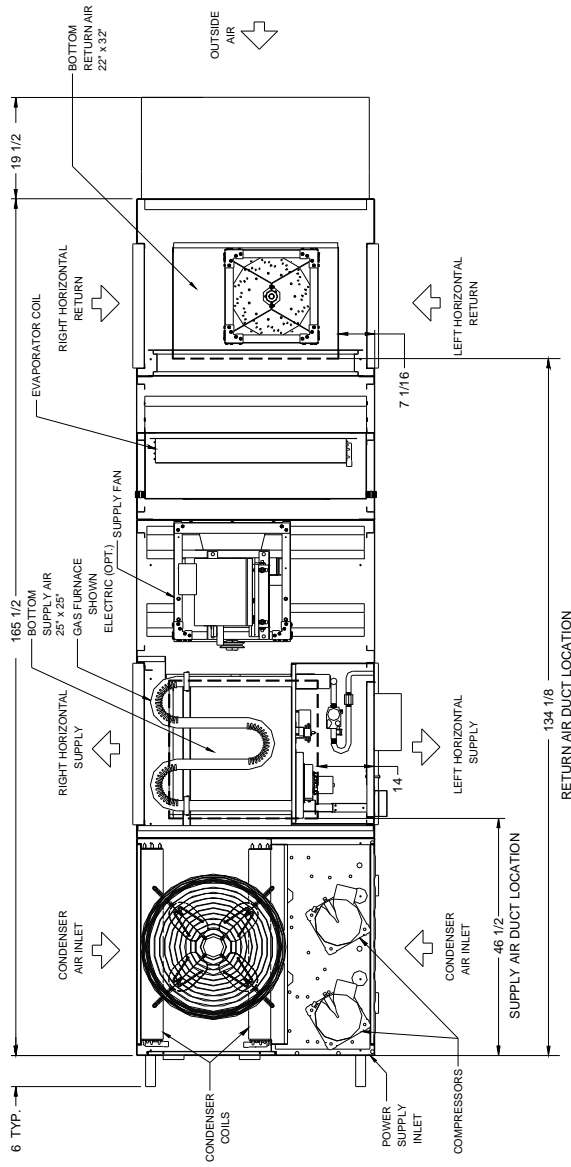


SECTION OF A TYPICAL CURB INSTALLATION

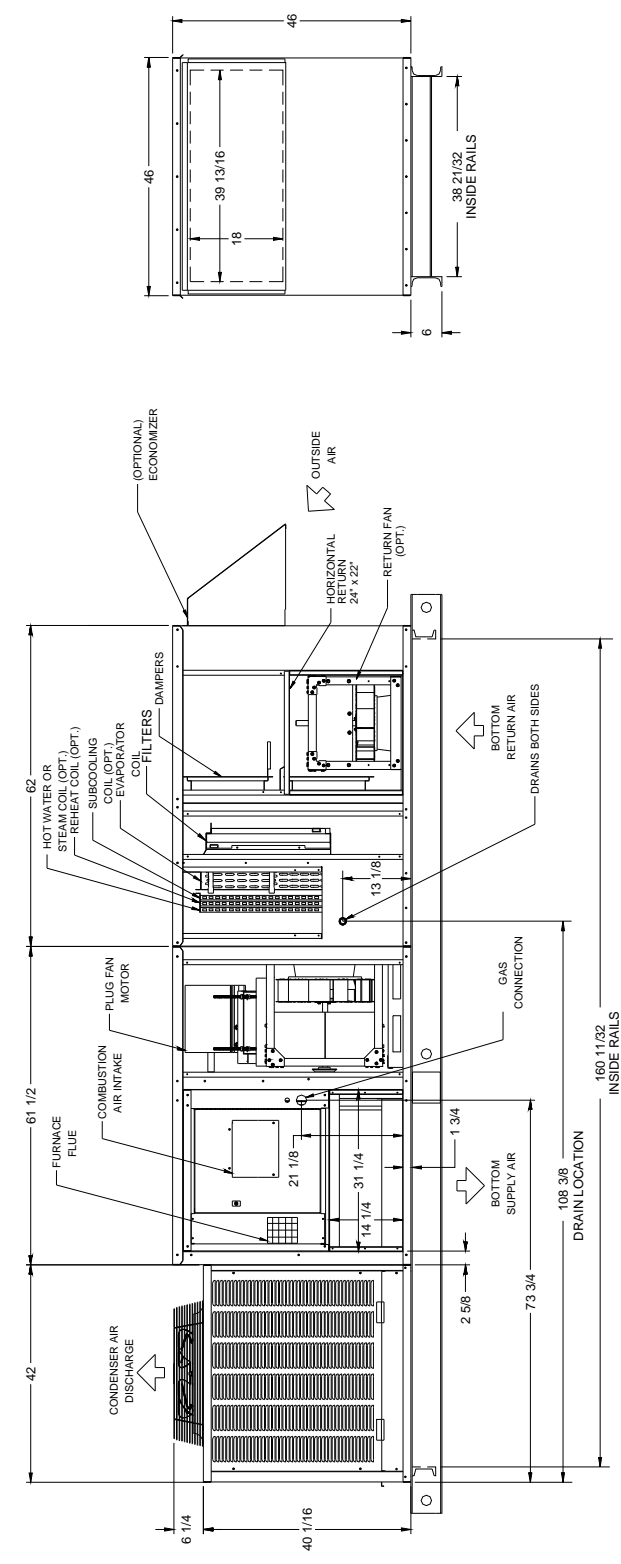


P/N 0851Y-1195

DC CABINET



- DC 036
- DC 048
- DC 060
- DC 072
- DC 096



UNIT DRAWINGS SHOWN ARE TYPICAL OF THE CABINET SERIES.
COMPONENTS MAY VARY ON SPECIFIC UNITS.

Installation Code and Annual Inspections:

All installations and service of ADDISON equipment must be performed by a contractor qualified in the installation and service of equipment sold and supplied by Addison and conform to all requirements set forth in the ADDISON manuals and all applicable governmental authorities pertaining to the installation, service and operation of the equipment. To help facilitate optimum performance and safety, Addison recommends that a qualified contractor annually inspect your ADDISON equipment and perform service where necessary, using only replacement parts sold and supplied by ADDISON.

Further Information: Applications, engineering and detailed guidance on systems design, installation and equipment performance is available through ADDISON representatives. Please contact us for any further information you may require, including the Installation, Operation and Service Manual.

These products are not for residential use.

This document is intended to assist licensed professionals in the exercise of their professional judgment.



**7050 Overland Road
Orlando, FL 32810 USA
Telephone: 407.292.4400
Fax: 407.290.1329
www.addison-hvac.com**