Model Selection and Performance

Heating Capacities[1]

Model	Gas Manifold Size (IPS)	Maximum MBH[2]	Min. Pressure Required at Maximum MBH (Inches W.C.)	Maximum Inlet Gas Pressure (Inches W.C.)
V1	1/2	155	7	14
V2	1/2	290	8	14
V3	3/4	625	8	14
V4	3/4[3]	745	9	14
V5	1	1,125	13	28

Heating Capacities Notes:

1. Maximum MBH Capacities listed are based on a unit operating at 750-feet elevation and an outside air (OA) temperature of -10°F.
2. Ratings are for both natural and propane gas, and are limited to the lesser of the maximum MBH shown or a temperature rise of 80°F.
3. If the MBH required is greater than 625 MBH, a 1" manifold will be required.

Static Pressure Drops*

Cabinet & Options	Inches W.C.
Cabinet	0.80
Filtered Inlet Hood	0.10
Motorized Inlet Damper	0.10
Motorized Discharge Damper	0.20
Side Access Filter	0.25

***Total Static Pressure Drop:** After adding the losses from the cabinet and options, also add project-specific ductwork losses (user provided).

Model Selection, Fan and Motor Requirements

Unit CFM	Fan	Model	Fan and Motor Requirements @ Total Static Pressure Shown										Outlet Velocity (FPM)
			0.80"		1.00"		1.25"		1.50"		2.00"		
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
800	10-8	V1	888	0.22	1004	0.26	1134	0.30	1251	0.37	CF		965
1,000			883	0.27	989	0.32	1110	0.38	1227	0.44	CF		1,206
1,250			880	0.35	986	0.41	1103	0.48	1210	0.59	1406	0.74	1,507
1,500			888	0.40	985	0.55	1101	0.64	1208	0.72	1397	0.92	1,808
1,700			903	0.56	994	0.64	1102	0.75	1206	0.87	1395	1.10	2,050
1,600	10	V2	853	0.47	950	0.59	1075	0.73	1191	0.89	1395	1.23	1,543
2,000			872	0.66	962	0.78	1066	0.92	1163	1.10	1362	1.43	1,929
2,400			904	0.90	987	1.05	1084	1.19	1175	1.35	1345	1.71	2,315
2,800	12		760	0.85	840	0.97	932	1.16	1018	1.32	1177	1.67	1,920
3,000			768	0.95	845	1.11	936	1.27	1020	1.44	1175	1.80	2,057
3,500			794	1.27	865	1.41	950	1.62	1030	1.81	1178	2.24	2,400
3,200	15	V3	659	0.80	727	0.94	808	1.15	889	1.35	1038	1.75	1,558
4,000			683	1.12	749	1.30	824	1.51	892	1.74	1022	2.25	1,948
5,000			729	1.72	786	1.91	854	2.20	920	2.43	1040	2.93	2,435
6,000			786	2.52	837	2.75	899	3.12	957	3.41	1070	3.98	2,922
6,800			836	3.37	884	3.63	941	3.95	996	4.27	1099	4.92	3,312
4,900	18	V4	505	1.23	562	1.43	633	1.72	709	2.15	CF		1,709
5,500			511	1.48	564	1.70	629	1.97	692	2.33	CF		1,918
6,500			530	2.02	577	2.29	634	2.58	690	2.89	797	3.66	2,267
7,500			554	2.71	598	2.98	650	3.40	700	3.73	796	4.42	2,616
8,100			569	3.23	613	3.56	662	3.91	710	4.26	801	4.99	2,825
6,800	20	V5	471	1.77	519	2.12	578	2.54	633	2.98	736	4.00	1,599
7,500			482	2.11	525	2.41	580	2.84	633	3.38	732	4.37	1,763
9,000			511	2.92	549	3.34	596	3.77	641	4.23	732	5.39	2,116
10,500			545	4.09	580	4.44	623	4.91	663	5.51	742	6.56	2,468
12,000			584	5.58	616	5.98	655	6.48	692	7.01	764	8.24	2,821
13,000			611	6.69	642	7.12	679	7.78	714	8.83	782	9.49	3,056

Model Selection Notes:

CF = Consult Factory

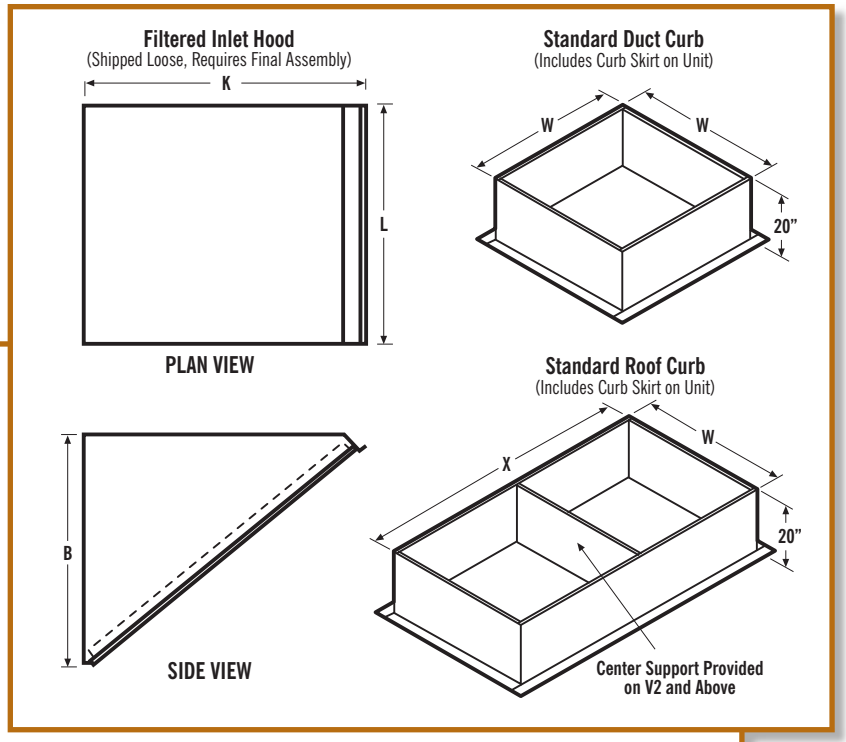
Fan Performance (RPM, CFM) is based on operation at 750-ft. elevation with 70°F discharge (supply air) temperature.

Brake Horsepower (BHP) ratings include motor drive losses.

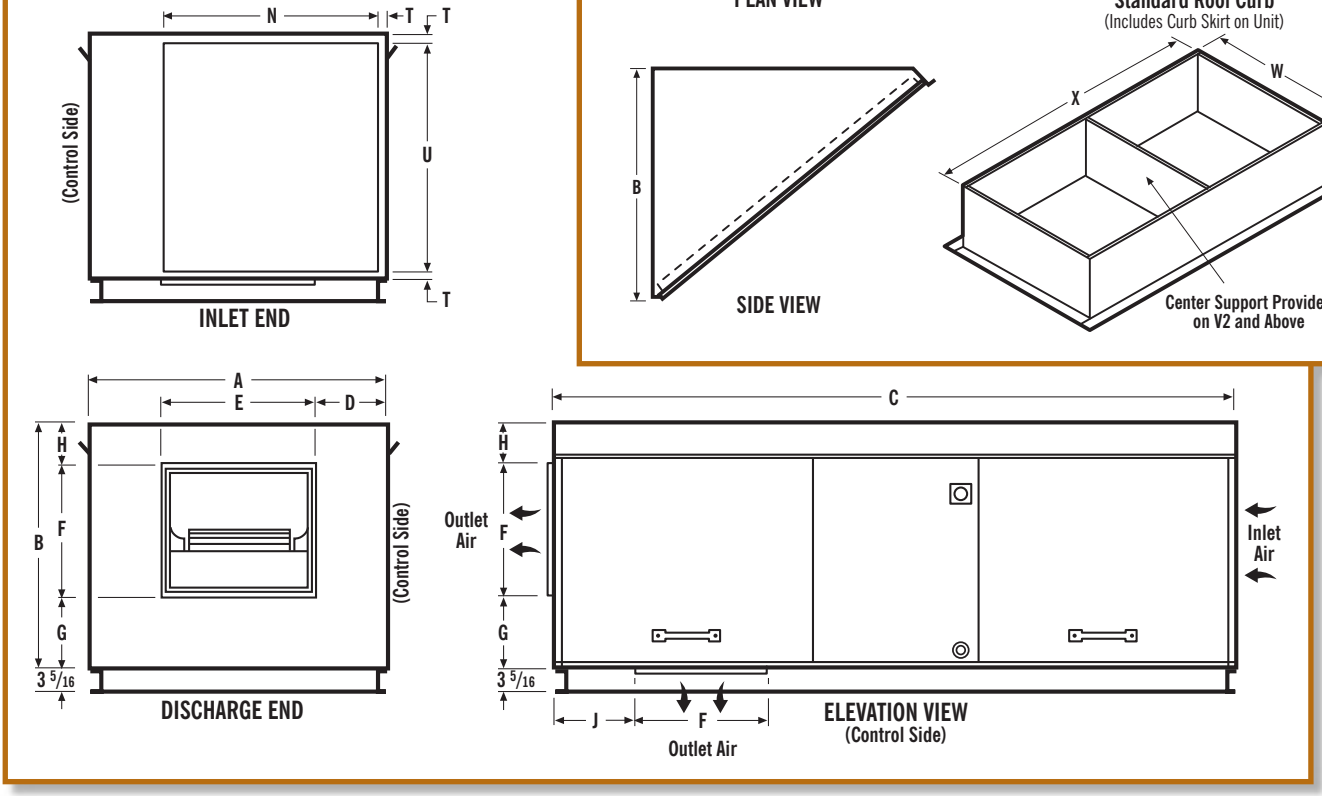
THIS DATA IS SUBJECT TO CHANGE WITHOUT NOTICE. CONSULT FACTORY FOR SPECIFIC APPLICATIONS.

Dimensional Data

Options



Cabinets



	Size, inches			Supply Air Details, inches						Other Dimensions, inches						
Model	A	B	C	D	E	F	G	H	J	K	L	N	T	U	W	X
V1	28	24	50	10-1/2	12-1/2	13-3/8	6-7/8	3-3/4	8	27	22-7/8	19-7/8	1	22	24	46
V2	32	30	72	7-3/16	17-5/8	15-7/16	8-1/4	6-5/16	9-1/4	32	27-7/8	22-7/8	1	28	28	68
V3	40	33	92	9-11/16	20-5/8	17-7/8	9-3/8	5-3/4	10-1/2	41	34-7/8	28-7/8	1	31	36	88
V4	48	38	96	12-1/16	23-7/8	20-7/8	11	6-1/8	12-1/4	37-1/2	42-7/8	36-7/8	1	36	44	92
V5	55	48	96	14-1/8	26-3/4	26-3/4	12-15/16	8-5/16	13-1/2	47	52-7/8	43-7/8	1	46	51	92

NOTES: Data is subject to change without notice.
V2 model supply air (discharge) details are for unit with 12-inch fan; consult factory for details on V2 model with 10-inch fan.