HOW TO SELECT AND SPECIFY THE L - VH SERIES

FEATURES

• Our double deflection aluminum constructed L-VH series are recommended for applications requiring control of both air pattern spread and drop.

• All aluminum blades are individually adjustable.

• Great for areas with humidity and/or moisture.

HOW TO SELECT

Note: All performance data contained here for L-VH Series are only in outlet. The throw contained in the performance data is based on a terminal velocity of 50 feet per minute.

Step 1: The grilles selected should deliver the necesary C.F.M. for the area to be conditioned.

Step 2: The Throw (in feet) should extend at least 75% of the distance from the face of the grille to the wall opposite the Step 3: The velocity at the neck shall be based upon the recommended N.C. values in chart at right.

HOW TO SPECIFY:

All supply grilles shall be LAMINAIRE type L-V or L-VH are constructed of tempered extruded aluminum profiles. The finish is special powder coating finished. All supply grilles and/or registrers shall be equipped with an extruded vinyl gasket attached to the unit in an estructed channel on the frame. The gasket should be of such a design as to provide a double acting air seal. Blades shall be secured with the use of self lubricating nylon busting device to keep perfect tension and to prevent blades from pulling through the frame. All mounting holes shall be of countersunk design with color coordinated screws to match the grille finish.

Application	Comments	N.C. Range
broadcast studios concerts halls music rooms	extremely quiet, suitable to pick up low sounds levels	Bellow 25
residences theaters libraries executive offices	very quiet	30
private offices hotel rooms courtrooms churches hospital rooms schools	quiet office, voice level will be heard up to 30 feet	35
dining rooms labs general offices lounges	moderately quiet voice level will be heared up to 12 feet	40
retail stores lobbies reception areas drafting-engineering offices	allows isolation of conversation. Voice level will be heared up to 6 feet	45
machinery rooms computer rooms factories	high background sound, voice level will be heared up to 3 feet, phone conversation difficult	50

HOW TO SELECT AND SPECIFY THE L - VH SERIES

Pressure: Total pressure readings are in inches water gauge at the various horizontal spread deflections shown.

Thrown: Throws indicated are based on total number of feet of projected air when a terminal velocity of 50 feet per minute is reached. Throws are based on a 9 foot cieling height. For each additional foot in ceiling height reduce throw rating one foot.

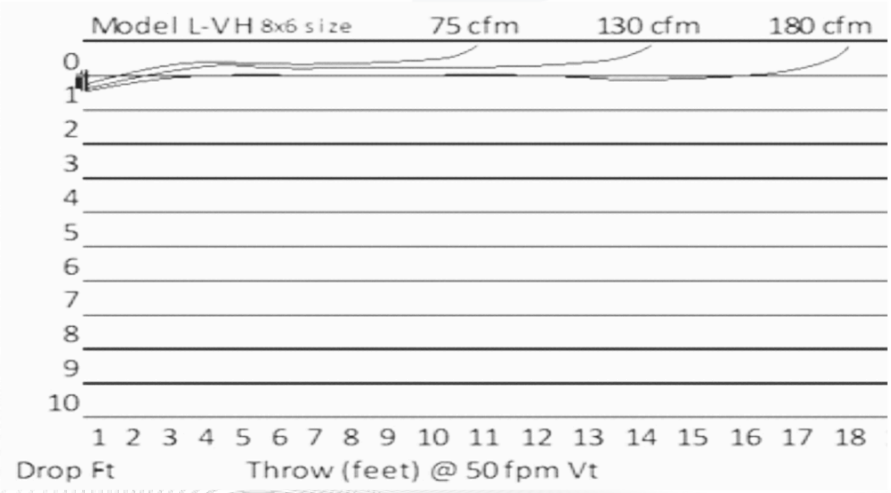
Neck Velocity: The neck velocity is based on total number of feet per minute at the 22 degree horizontal spread deflection.

Sound Data: The N.C. values are based upon a room absorption of 8 Db. re 10-12 watts with rear vanes set at 0º deflection. the symbol "-" indicates less than 20 Db N.C. rating. Dampering for "fine balancing up to 25% of the cfm volume will result in an increase in N.C. of 6 Db. Greater dampering will result in increased noise levels, and Laminaire recommends remote located balancing dampers upstream from the registrer, If unit is used for return air, subtract 6 Db. from N.C. values.

Correction Factors: Data shown is ajusted for unit with OBD is omitted make following correction:

TROW	Total Pressure	N.C.
x0.97	x0.87	minus 4 Db

Performance Chart



L-VH SERIES SELECTION GUIDE

CFM		6x6 8x4 Ac=,18 ft²			10x4 Ac=,22 ft²			8x6 12x4 Ac=,26 ft²			14x4 Ac=,30 ft²			10x6 16x4 Ac=,34 ft²			8x8 12x6 18x4 Ac=,39 ft²		
		deflection			deflection			deflection			deflection			deflection			deflection		
		0º	20º	45º	0º	20º	45º	0º	20º	45º	0º	20º	45º	0º	20º	45º	0º	20º	45º
50	neck velocity/N.C.	300 /-																	
	throw in feet	13	10	7															
	total pressure	,010	,011	,016															
75	neck velocity/N.C.	400 /-			320 /-			300 /-											
	throw in feet	14	11	7	15	12	8	14	11	7									
	total pressure	,017	,019	,029	,018	,020	,030	,010	,013	,018									
100	neck velocity/N.C.	580 /-			480 /-			400 /-			320 /-			300 /-			270 /-		
	throw in feet	18	14	9	20	16	10	18	12	8	16	13	7	18	14	9	18	14	9
	total pressure	,040	,044	,060	,030	,032	,048	,017	,019	,029	,010	,013	,017	,010	,011	,015	,090	,010	,014
125	neck velocity/N.C.	700 /-			550 /-			480 /-			400 /-			390 /-			325 /-		
	throw in feet	19	15	9	20	16	10	18	13	9	18	15	8	20	16	10	19	15	10
	total pressure	,050	,055	,080	,031	,038	,070	,028	,035	,050	,017	,019	,029	,017	,019	,029	,015	,018	,020
150	neck velocity/N.C.	800 /20			700 /-			600 /-			500 /-			450 /-			400 /-		
	throw in feet	22	18	11	21	17	10	20	17	10	20	17	10	21	17	11	22	17	10
	total pressure	,069	,078	,117	,055	,060	,090	,039	,045	,068	,028	,031	,047	,020	,025	,035	,017	,019	,029
175	neck velocity/N.C.	1000 /24			800 /20			700 /-			600 /-			500 /-			470 /-		
	throw in feet	24	19	12	22	18	11	24	17	12	22	18	11	23	18	11	23	18	11
	total pressure	,107	,120	,181	,072	,080	,118	,052	,075	,089	,038	,042	,066	,028	,031	,047	,025	,029	,040
200	neck velocity/N.C.	1100 /28			900 /22			780 /21			650 /-			600 /-			500 /-		
	throw in feet	25	20	12	22	18	11	25	20	13	24	19	12	25	20	12	25	20	13
	total pressure	,120	,140	,220	,080	,095	,150	,071	,080	,120	,042	,049	,074	,038	,043	,064	,030	,035	,050
225	neck velocity/N.C.	1250 /32			1000 /25			875 /23			750 /-			650 /-			600 /-		
	throw in feet	26	21	13	26	21	12	26	21	13	25	20	12	26	21	13	27	21	14
	total pressure	,160	,180	,280	,107	,120	,181	,080	,095	,145	,055	,065	,105	,042	,050	,072	,039	,045	,070
250	neck velocity/N.C.	1400 /36			1150 /30			1000 /26			820 /21			720 /-			650 /-		
	throw in feet	30	24	14	27	22	14	27	22	14	27	21	13	27	21	14	28	22	14
	total pressure	,211	,237	,356	,156	,175	,263	,110	,125	,187	,071	,080	,120	,052	,058	,088	,045	,050	,080
275	neck velocity/N.C.	1500 /38			1250 /32			1075 /29			900 /23			800 /22			700 /-		
	throw in feet	31	24	15	28	23	14	28	24	15	29	23	15	29	23	14	29	23	15
	total pressure	,230	,250	,400	,165	,180	,270	,130	,140	,205	,080	,105	,165	,069	,078	,117	,055	,060	,092
300	neck velocity/N.C.	1650 /40			1350 /35			1150 /32			1000 /26			900 /24			800 /20		
	throw in feet	32	25	16	30	24	15	29	25	15	30	24	15	31	25	16	30	24	16
	total pressure	,275	,308	,464	,211	,230	,360	,160	,180	,270	,110	,128	,195	,080	,095	,160	,069	,078	,117
350	neck velocity/N.C.	1900 /45			1600 /40			1400 /37			1200 /32			1000 /27			900 /23		
	throw in feet	35	25	18	32	26	16	32	27	16	33	26	16	32	25	17	32	26	16
	total pressure	,360	,420	,610	,275	,308	,460	,215	,245	,365	,160	,185	,270	,107	,120	,181	,080	,090	,150

laminaire Evolución sostenible

L-VH

L-VH SERIES SELECTION GUIDE

SUPPLY GRILLE

CFM		6x6 8x4 Ac=,18 ft²			10x4 Ac=,22 ft²			8x6 12x4 Ac=,26 ft²			14x4 Ac=,30 ft²			10x6 16x4 Ac=,34 ft²			8x8 12x6 18x4 Ac=,39 ft²		
		deflection			deflection			deflection			deflection			deflection			deflection		
		0º	20º	45º	0º	20º	45º	0º	20º	45º	0º	20º	45º	0º	20º	45º	0º	20º	45º
400	neck velocity/N.C.				1800 /44			1550 /41			1400 /38			1170 /33			1000 /28		
	throw in feet				34	28	17	34	28	17	36	28	18	35	28	17	35	28	17
	total pressure				,351	,412	,605	,275	,308	,464	,211	,230	,356	,156	,175	,263	,107	,120	,181
450	neck velocity/N.C.							1800 /44			1500 /40			1300 /35			1170 /32		
	throw in feet							36	30	19	37	30	19	37	30	18	38	30	19
	total pressure							,349	,392	,590	,240	,260	,401	,200	,210	,305	,150	,170	,250
500	neck velocity/N.C.										1650 /42			1450 /40			1300 /36		
	throw in feet										39	30	20	39	31	20	40	32	20
	total pressure										,280	,310	,475	,240	,260	,390	,180	,205	,315
550	neck velocity/N.C.										1800 /44			1600 /44			1400 /39		
	throw in feet										40	33	21	40	32	21	42	34	21
	total pressure										,349	,392	,590	,275	,308	,470	,211	,237	,356
600	neck velocity/N.C.													1800 /44			1570 /43		
	throw in feet													43	35	22	43	35	24
	total pressure													,349	,392	,590	,275	,308	,464
700	neck velocity/N.C.																1800 /46		
	throw in feet																47	36	24
	total pressure																,349	,392	,590

Data. Only available as 4way pattern

[-] Indicates less than 20DB NC rating

laminaire®
Evolución sostenible

CFM		10X8 14X6 20X4 Ac=,46 ft²			16X6 24X4 Ac=,52 ft²			10X10 12X8 18X6 28X4 Ac=,60 ft²			12X10 14X8 20X6 30X4 Ac=,69 ft²			14X10 16X8 22X6 36X4 Ac=,81 ft²			12X12 16X10 18X8 26X6 Ac=,90 ft²		
		deflection			deflection			deflection			deflection			deflection			deflection		
		0º	20º	45º	0º	20º	45º	0º	20º	45º	0º	20º	45º	0º	20º	45º	0º	20º	45º
150	neck velocity/N.C.	320 /-			300 /-														
	throw in feet	21	17	9	23	18	11												
	total pressure	,011	,012	,017	,010	,11	,016												
175	neck velocity/N.C.	380 /-			350 /-			300 /-											
	throw in feet	24	19	11	24	19	12	23	18	11									
	total pressure	,017	,019	,029	,013	,015	,021	,011	,012	,016									
200	neck velocity/N.C.	450 /-			385 /-			330 /-			300 /-								
	throw in feet	26	21	13	25	20	13	24	19	12	25	20	12						
	total pressure	,021	,024	,037	,016	,018	,028	,013	,015	,020	,011	,012	,017						
250	neck velocity/N.C.	550 /-			500 /-			420 /-			360 /-			300 /-					
	throw in feet	29	23	15	28	22	14	28	22	14	27	22	14	27	21	12			
	total pressure	,035	,039	,056	,029	,032	,049	,018	,020	,031	,015	,016	,022	,013	,016	,018			
300	neck velocity/N.C.	650 /-			590 /-			500 /-			450 /-			385 /-			330 /-		
	throw in feet	31	25	15	32	26	16	30	25	15	31	25	16	32	25	15	32	25	16
	total pressure	,042	,048	,072	,038	,043	,064	,028	,031	,047	,021	,025	,039	,016	,019	,028	,015	,017	,023
350	neck velocity/N.C.	750 /20			680 /-			600 /-			500 /-			430 /-			400 /-		
	throw in feet	33	27	16	33	27	16	34	27	17	34	27	17	34	27	17	34	27	17
	total pressure	,057	,065	,100	,048	,051	,084	,038	,044	,066	,028	,031	,047	,020	,024	,037	,017	,019	,029
400	neck velocity/N.C.	880 /24			780 /21			630 /-			580 /-			500 /-			450 /-		
	throw in feet	37	29	18	36	29	17	36	29	18	35	28	18	37	30	18	36	29	18
	total pressure	,070	,081	,125	,067	,076	,112	,046	,053	,078	,034	,040	,061	,028	,031	,047	,022	,026	,039
450	neck velocity/N.C.	1000 /28			920 /26			750 /22			650 /-			575 /-			500 /-		
	throw in feet	39	31	20	39	32	19	38	31	19	38	31	19	38	31	19	39	31	19
	total pressure	,108	,119	,180	,086	,105	,160	,062	,070	,106	,045	,051	,075	,035	,040	,060	,028	,031	,048
500	neck velocity/N.C.	1100 /31			980 /28			850 /25			740 /20			620 /-			550 /-		
	throw in feet	41	32	21	40	32	20	40	32	20	41	33	20	30	31	20	38	32	20
	total pressure	,120	,138	,210	,095	,110	,176	,075	,085	,145	,050	,067	,015	,042	,049	,075	,032	,038	,056
550	neck velocity/N.C.	1200 /34			1080 /30			950 /29			800 /24			700 /21			600 /-		
	throw in feet	43	34	21	42	34	22	43	34	21	42	33	21	42	33	21	42	34	21
	total pressure	,155	,176	,265	,120	,142	,210	,089	,098	,160	,070	,079	,118	,052	,058	,088	,038	,043	,064
600	neck velocity/N.C.	1300 /36			1150 /34			1000 /31			840 /26			750 /23			670 /20		
	throw in feet	44	35	22	44	35	22	44	35	21	44	35	22	44	35	22	44	35	22
	total pressure	,180	,202	,315	,138	,158	,240	,108	,123	,185	,081	,108	,145	,061	,067	,105	,046	,053	,080
700	neck velocity/N.C.	1500 /41			1350 /39			1170 /35			1000 /30			900 /28			830 /24		
	throw in feet	48	38	24	46	37	23	47	37	23	46	37	23	48	38	24	47	37	23
	total pressure	,251	,260	,401	,191	,212	,320	,150	,165	,255	,108	,125	,182	,085	,095	,151	,062	,070	,105

Data. Only available as 4way pattern

- Indicates less than 20DB NC rating

L-VH SERIES SELECTION GUIDE

CFM		10X8 14X6 20X4 Ac=,46 ft²			16X6 24X4 Ac=,52 ft²			10X10 12X8 18X6 28X4 Ac=,60 ft²			12X10 14X8 20X6 30X4 Ac=,69 ft²			14X10 16X8 22X6 36X4 Ac=,81 ft²			12X12 16X10 18X8 26X6 Ac=,90 ft²		
		deflection			deflection			deflection			deflection			deflection			deflection		
		0º	20º	45º	0º	20º	45º	0º	20º	45º	0º	20º	45º	0º	20º	45º	0º	20º	45º
800	neck velocity/N.C.	1750 /45			1550 /43			1320 /39			1170 /35			1000 /31			900 /28		
	throw in feet	50	40	25	50	40	25	50	40	25	50	41	25	50	40	25	51	41	26
	total pressure	,315	,370	,551	,250	,275	,420	,180	,210	,325	,156	,176	,260	,107	,120	,180	,089	,102	,145
900	neck velocity/N.C.				1750 /46			1500 /43			1300 /38			1100 /34			1000 /31		
	throw in feet				54	42	27	54	43	27	53	43	27	52	43	27	54	43	27
	total pressure				,315	,370	,531	,349	,392	,590	,182	,205	,305	,130	,145	,220	,108	,121	,183
1000	neck velocity/N.C.							1800 /48			1480 /43			1200 /37			1120 /34		
	throw in feet							58	46	28	57	46	29	56	45	28	57	45	28
	total pressure							,340	,390	,589	,245	,261	,405	,156	,175	,263	,126	,150	,225
1100	neck velocity/N.C.										1600 /45			1370 /42			1220 /38		
	throw in feet										60	48	30	59	47	29	59	47	29
	total pressure										,276	,310	,468	,210	,235	,360	,160	,180	,270
1200	neck velocity/N.C.										1780 /48			1500 /44			1380 /42		
	throw in feet										63	50	31	62	49	31	62	49	31
	total pressure										,350	,395	,595	,250	,280	,405	,210	,230	,350
1300	neck velocity/N.C.													1600 /46			1420 /44		
	throw in feet													63	50	32	63	50	32
	total pressure													,275	,308	,464	,225	,240	,365
1400	neck velocity/N.C.													1750 /48			1580 /46		
	throw in feet													67	53	33	66	53	33
	total pressure													,340	,390	,585	,275	,308	,465
1500	neck velocity/N.C.																1700 /48		
	throw in feet																70	56	35
	total pressure																,290	,351	,520

L-VH SERIES PERFORMANCE DATA

CFM		14 x 12 18 x 10 30 x 6 48 x 4 Ac= 1,07 ft²			14 x 14 16 x 12 20 x 10 24 x 8 34 x 6 Ac= 1,18 ft²			16 x 14 18 x 12 36 x 6 60 x 4 Ac= 1,34 ft²			16 x 16 18 x 14 22 x 12 24 x 10 30 x 8 72 x 4 Ac= 1,60 ft²			18 x 16 20 x 14 24 x 12 30 x 10 36 x 8 48 x 6 Ac= 1,80 ft²			18 x 18 20 x 16 24 x 14 30 x 12 36 x 10 48 x 8 60 x 6 Ac= 2,08 ft²		
		deflection			deflection			deflection			deflection			deflection			deflection		
		0°	20°	45°	0°	20°	45°	0°	20°	45°	0°	20°	45°	0°	20°	45°	0°	20°	45°
300	neck velocity/N.C.	320 /-																	
	throw in feet	30	24	14															
	total pressure	0,008	0,009	0,013															
325	neck velocity/N.C.	300 /-																	
	throw in feet	32	26	16															
	total pressure	0,010	0,011	0,016															
350	neck velocity/N.C.	325 /-			300 /-														
	throw in feet	33	27	17	34	27	17												
	total pressure	0,011	0,012	0,017	0,010	0,011	0,016												
375	neck velocity/N.C.	350 /-			320 /-														
	throw in feet	34	28	17	35	27	17												
	total pressure	0,014	0,015	0,021	0,011	0,012	0,016												
400	neck velocity/N.C.	370 /-			340 /-			300 /-											
	throw in feet	35	29	18	36	28	18	35	28	17									
	total pressure	0,016	0,017	0,028	0,013	0,014	0,022	0,011	0,012	0,017									
450	neck velocity/N.C.	420 /-			390 /-			340 /-			280 /-								
	throw in feet	39	31	20	40	32	20	40	32	19	38	30	18						
	total pressure	0,020	0,022	0,031	0,017	0,019	0,029	0,013	0,014	0,023	0,008	0,010	0,015						
500	neck velocity/N.C.	470 /-			425 /-			380 /-			320 /-								
	throw in feet	40	32	20	41	33	20	41	33	20	40	32	20						
	total pressure	0,024	0,028	0,042	0,022	0,026	0,037	0,016	0,018	0,027	0,011	0,012	0,017						
550	neck velocity/N.C.	520 /-			480 /-			420 /-			350 /-			300 /-					
	throw in feet	43	35	22	43	34	21	42	34	22	42	34	21	41	33	20			
	total pressure	0,031	0,033	0,050	0,026	0,029	0,042	0,018	0,020	0,030	0,013	0,015	0,021	0,010	0,011	0,016			
600	neck velocity/N.C.	580 /-			500 /-			450 /-			380 /-			330 /-					
	throw in feet	44	36	22	44	35	22	44	36	22	44	36	22	43	35	22			
	total pressure	0,034	0,038	0,056	0,028	0,031	0,047	0,021	0,025	0,040	0,015	0,017	0,027	0,013	0,015	0,022			
650	neck velocity/N.C.	280 /-			550 /-			510 /-			400 /-			370 /-			320 /-		
	throw in feet	45	37	23	46	36	23	47	38	23	45	37	23	45	37	23	45	36	23
	total pressure	0,038	0,043	0,064	0,033	0,037	0,056	0,029	0,032	0,048	0,017	0,019	0,029	0,016	0,018	0,027	0,012	0,015	0,018
700	neck velocity/N.C.	650 /21			600 /-			530 /-			440 /-			400 /-			345 /-		
	throw in feet	47	38	24	48	38	24	48	38	24	48	39	24	47	37	24	47	39	24
	total pressure	0,046	0,052	0,075	0,038	0,043	0,064	0,032	0,036	0,055	0,02	0,03	0,04	0,017	0,019	0,029	0,013	0,017	0,024
750	neck velocity/N.C.	700 /21			640 /-			570 /-			480 /-			420 /-			365 /-		
	throw in feet	49	39	25	50	40	25	49	40	24	49	40	25	48	38	24	48	40	25
	total pressure	0,052	0,058	0,088	0,045	0,050	0,075	0,034	0,039	0,057	0,025	0,030	0,042	0,019	0,022	0,032	0,015	0,019	0,025
800	neck velocity/N.C.	750 /23			680 /20			600 /-			500 /-			440 /-			390 /-		
	throw in feet	51	41	25	51	41	25	51	41	25	50	40	25	51	41	26	51	41	25
	total pressure	0,061	0,068	0,105	0,050	0,057	0,088	0,038	0,043	0,064	0,028	0,031	0,047	0,022	0,027	0,040	0,016	0,018	0,028

L-VH SERIES PERFORMANCE DATA

CFM		14 x 12 18 x 10 30 x 6 48 x 4 Ac= 1,07 ft²	14 x 14 16 x 12 20 x 10 24 x 8 34 x 6 Ac= 1,18 ft²	16 x 14 18 x 12 36 x 6 60 x 4 Ac= 1,34 ft²	16 x 16 18 x 14 22 x 12 24 x 10 30 x 8 72 x 4 Ac= 1,60 ft²	18 x 16 20 x 14 24 x 12 30 x 10 36 x 8 48 x 6 Ac= 1,80 ft²	18 x 18 20 x 16 24 x 14 30 x 12 36 x 10 48 x 8 60 x 6 Ac= 2,08 ft²
		deflection	deflection	deflection	deflection	deflection	deflection
		0º 22º 45º	0º 22º 45º	0º 22º 45º	0º 22º 45º	0º 22º 45º	0º 22º 45º
1000	nec throw in feet total pressure	950 /29 57 45 28 0,095 0,015 0,162	825 /25 55 44 27 0,069 0,079 0,120	760 /25 57 46 28 0,063 0,070 0,102	610 /- 56 45 28 0,040 0,044 0,067	550 /- 57 45 28 0,033 0,036 0,056	490 /- 57 45 28 0,027 0,030 0,046
1200	nec throw in feet total pressure	1150 /35 62 50 31 0,145 0,155 0,233	1000 /32 61 48 30 0,108 0,121 0,182	900 /28 60 49 31 0,090 0,105 0,145	750 /25 62 49 31 0,061 0,068 0,109	680 /23 62 49 31 0,050 0,057 0,086	590 /- 62 48 31 0,037 0,041 0,062
1400	nec throw in feet total pressure	470 /39 67 53 33 0,185 0,205 0,315	425 /38 66 53 33 0,156 0,175 0,264	380 /33 64 51 32 0,108 0,125 0,185	320 /29 67 53 33 0,085 0,098 0,142	790 /27 67 53 33 0,068 0,076 0,115	680 /23 67 53 32 0,050 0,056 0,086
1600	nec throw in feet total pressure	1500 /44 72 57 36 0,240 0,275 0,410	1380 /43 73 58 36 0,211 0,237 0,356	1200 /39 72 58 36 0,156 0,176 0,265	1000 /33 71 57 35 0,108 0,122 0,185	900 /31 72 57 36 0,095 0,105 0,150	780 /27 72 57 36 0,067 0,076 0,115
1800	nec throw in feet total pressure	1700 /48 75 61 38 0,310 0,355 0,520	1560 /47 78 62 39 0,275 0,308 0,465	1450 /44 78 62 39 0,215 0,239 0,360	1140 /37 75 61 38 0,138 0,155 0,238	1000 /34 75 60 37 0,108 0,012 0,182	900 /31 78 61 39 0,085 0,102 0,156
2000	neck velocity/N.C. throw in feet total pressure		1700 /49 81 64 40 0,301 0,350 0,520	1500 /46 80 64 40 0,240 0,265 0,410	1230 /40 79 63 39 0,160 0,179 0,268	1100 /37 80 64 40 0,128 0,145 0,220	980 /33 81 65 40 0,102 0,118 0,180
2200	neck velocity/N.C. throw in feet total pressure		1850 /51 83 66 41 0,350 0,402 0,602	1600 /48 82 65 41 0,275 0,305 0,460	1390 /44 85 68 43 0,211 0,237 0,357	1200 /40 84 67 42 0,156 0,175 0,264	1080 /36 85 68 42 0,120 0,135 0,210
2400	neck velocity/N.C. throw in feet total pressure			1800 /51 89 71 44 0,349 0,392 0,590	1500 /46 87 70 44 0,241 0,275 0,410	1320 /43 88 70 43 0,208 0,230 0,350	1180 /39 88 71 43 0,150 0,170 0,260
2600	neck velocity/N.C. throw in feet total pressure				1600 /48 90 72 45 0,275 0,308 0,465	1420 /45 89 71 44 0,219 0,240 0,360	1250 /41 91 73 46 0,160 0,180 0,268

L-VH SERIES SELECTION GUIDE

CFM		20x20 24 x16 32x12 48x8 72x6 Ac=2,46 ft²	22x22 24 x18 26x16 30x14 36x12 Ac=2,78 ft²	24x20 26 x18 30x16 36x14 40x12 48X10 Ac=3,11 ft²	24x24 30 x18 36x16 36x20 48x12 60X10 Ac=3,61 ft²	18x16 20X14 24x12 30x10 36x8 48x6 Ac=4,29 ft²	18x18 20X16 24x14 30x12 36x10 40x8 Ac=4,65 ft²
		deflection 0° 22° 45°	deflection 0° 22° 45°	deflection 0° 22° 45°	deflection 0° 22° 45°	deflection 0° 22° 45°	deflection 0° 22° 45°
750	neck velocity/N.C.	300 /-					
	throw in feet	47 37 22					
	total pressure	,010 ,011 ,016					
800	neck velocity/N.C.	325 /-	290 /-				
	throw in feet	49 39 24	50 40 24				
	total pressure	,013 ,015 ,018	,010 ,011 ,016				
900	neck velocity/N.C.	380 /-	330 /-	280 /-			
	throw in feet	54 43 26	54 44 27	53 42 26			
	total pressure	,015 ,018 ,024	,012 ,013 ,020	,009 ,010 ,013			
1000	neck velocity/N.C.	400 /-	360 /-	320 /-	290 /-		
	throw in feet	57 46 28	57 46 29	54 43 27	57 46 28		
	total pressure	,017 ,019 ,029	,015 ,017 ,027	,012 ,015 ,019	,009 ,010 ,014		
1200	neck velocity/N.C.	500 /20	420 /-	390 /-	350 /-	280 /-	
	throw in feet	62 50 31	60 48 30	62 50 31	64 50 32	63 50 30	
	total pressure	,028 ,031 ,047	,018 ,020 ,030	,017 ,019 ,029	,013 ,015 ,023	,009 ,010 ,015	
1400	neck velocity/N.C.	620 /22	500 /-	450 /-	400 /-	320 /-	300 /-
	throw in feet	67 53 33	67 54 33	65 53 33	67 53 33	66 53 33	66 53 32
	total pressure	,038 ,043 ,064	,028 ,031 ,047	,022 ,025 ,039	,019 ,021 ,031	,012 ,015 ,020	,010 ,011 ,016
1600	neck velocity/N.C.	650 /25	590 /20	500 /-	450 /-	370 /-	350 /-
	throw in feet	70 56 36	72 57 36	70 56 34	71 56 34	73 58 36	73 58 36
	total pressure	,046 ,051 ,074	,037 ,042 ,063	,028 ,032 ,048	,024 ,026 ,038	,016 ,018 ,028	,013 ,015 ,022
1800	neck velocity/N.C.	720 /29	650 /24	580 /20	500 /-	420 /-	400 /-
	throw in feet	74 59 37	75 60 38	76 60 36	75 60 37	74 59 37	77 61 38
	total pressure	,055 ,062 ,108	,046 ,050 ,074	,037 ,042 ,063	,028 ,031 ,047	,017 ,019 ,029	,017 ,019 ,029
2000	neck velocity/N.C.	810 /29	700 /26	650 /23	550 /20	475 /-	450 /-
	throw in feet	80 64 40	79 63 40	80 64 40	80 64 40	80 64 40	83 66 40
	total pressure	,070 ,080 ,119	,052 ,058 ,088	,044 ,049 ,074	,033 ,036 ,055	,025 ,028 ,043	,022 ,026 ,038
2500	neck velocity/N.C.	980 /41	900 /33	800 /30	700 /27	600 /22	550 /20
	throw in feet	88 70 44	90 72 44	88 70 44	90 72 45	90 72 45	90 73 45
	total pressure	,107 ,102 ,018	,085 ,105 ,150	,069 ,078 ,117	,052 ,058 ,088	,038 ,043 ,064	,033 ,036 ,056
3000	neck velocity/N.C.	1200 /41	1100 /39	970 /35	820 /32	700 /28	650 /26
	throw in feet	96 77 48	99 79 49	98 78 49	97 78 48	97 77 48	99 79 50
	total pressure	,156 ,175 ,263	,125 ,130 ,225	,105 ,118 ,180	,069 ,079 ,120	,053 ,059 ,089	,046 ,054 ,075
3500	neck velocity/N.C.	1400 /46	1300 /45	1130 /40	980 /37	820 /33	740 /30
	throw in feet	105 84 52	108 87 54	105 84 53	106 84 52	106 85 53	106 85 54
	total pressure	,211 ,237 ,355	,190 ,205 ,310	,135 ,155 ,235	,107 ,121 ,182	,070 ,079 ,120	,063 ,068 ,105

L-VH SERIES SELECTION GUIDE

		20x20 24 x16 32x12 48x8 72x6 Ac=2,46 ft²	22x22 24 x18 26x16 30x14 36x12 Ac=2,78 ft²	24x20 26 x18 30x16 36x14 40x12 48X10 Ac=3,11 ft²	24x24 30 x18 36x16 36x20 48x12 60X10 Ac=3,61 ft²	20X14 24x12 30x10 36x8 48x6 Ac=4,29 ft²	18x18 20X16 24x14 30x12 36x10 40x8 Ac=4,65 ft²
CFM		deflection 0° 22° 45°	deflection 0° 22° 45°	deflection 0° 22° 45°	deflection 0° 22° 45°	deflection 0° 22° 45°	deflection 0° 22° 45°
4000	neck velocity/N.C.	1600 /50	1390 /48	1300 /45	1090 /40	930 /36	860 /34
	throw in feet	113 90 56	110 89 55	114 91 57	108 87 55	113 91 57	115 91 57
	total pressure	,275 ,308 ,464	,215 ,240 ,360	,185 ,201 ,305	,130 ,150 ,220	,089 ,105 ,165	,085 ,098 ,135
5000	neck velocity/N.C.		1800 /54	1600 /51	1400 /48	1150 /43	1100 /41
	throw in feet		126 100 62	128 100 62	128 102 64	125 100 63	128 103 64
	total pressure		,350 ,393 ,600	,275 ,308 ,464	,211 ,237 ,356	,150 ,170 ,258	,130 ,148 ,230
6000	neck velocity/N.C.			1850 /55	1650 /53	1400 /49	1300 /46
	throw in feet			136 110 68	137 110 69	140 112 70	140 113 70
	total pressure			,351 ,400 ,605	,280 ,320 ,484	,211 ,237 ,356	,180 ,201 ,315
7000	neck velocity/N.C.				1850 /56	1580 /54	1500 /51
	throw in feet				146 117 73	149 119 75	151 121 75
	total pressure				,355 ,401 ,605	,280 ,310 ,468	,240 ,275 ,405
8000	neck velocity/N.C.					1850 /52	1720 /55
	throw in feet					158 126 79	160 128 80
	total pressure					,350 ,402 ,601	,315 ,350 ,520

L-VH SERIES PERFORMANCE DATA

CFM		36x24 48x18 60x14 72x12 Ac=5,58 ft² deflection 0º	20º	45º	30x30 48x20 60x16 72x14 Ac=6,25 ft² deflection 0º	20º	45º
1600	neck velocity/N.C.	280 /-					
	throw in feet	71	58	35			
	total pressure	,009	,010	,015			
1800	neck velocity/N.C.	320 /-			290 /-		
	throw in feet	72	59	36	77	61	38
	total pressure	,011	,012	,017	,010	,011	,016
2000	neck velocity/N.C.	340 /-			320 /-		
	throw in feet	76	62	40	78	62	39
	total pressure	,013	,015	,022	,012	,014	,020
2200	neck velocity/N.C.	400 /-			350 /-		
	throw in feet	84	67	42	81	66	41
	total pressure	,017	,019	,029	,014	,016	,024
2500	neck velocity/N.C.	450 /-			400 /-		
	throw in feet	90	72	45	89	71	44
	total pressure	,022	,026	,039	,017	,019	,029
3000	neck velocity/N.C.	540 /21			480 /-		
	throw in feet	98	79	50	98	79	48
	total pressure	,033	,036	,056	,028	,031	,046
3500	neck velocity/N.C.	625 /26			570 /23		
	throw in feet	107	85	54	102	81	50
	total pressure	,042	,049	,074	,037	,042	,063
4000	neck velocity/N.C.	710 /30			650 /28		
	throw in feet	113	90	57	110	88	55
	total pressure	,053	,059	,090	,043	,049	,064
4500	neck velocity/N.C.	800 /33			715 /-		
	throw in feet	122	98	61	119	95	60
	total pressure	,069	,078	,117	,055	,063	,099
5000	neck velocity/N.C.	900 /36			800 /31		
	throw in feet	128	103	64	127	101	63
	total pressure	,095	,105	,150	,069	,078	,116
6000	neck velocity/N.C.	1080 /39			980 /38		
	throw in feet	140	112	70	140	111	70
	total pressure	,130	,145	,225	,106	,120	,180
7000	neck velocity/N.C.	1240 /47			1120 /38		
	throw in feet	151	121	76	146	118	76
	total pressure	,170	,195	,305	,135	,148	,235

CFM		36x24 48x18 60x14 72x12 Ac=5,58 ft² deflection 0º	20º	45º	30x30 48x20 60x16 72x14 Ac=6,25 ft² deflection 0º	20º	45º
8000	neck velocity/N.C.	1430 /51			1300 /48		
	throw in feet	160	130	35	160	128	82
	total pressure	,215	,240	,360	,185	,210	,315
9000	neck velocity/N.C.	1600 /54			1430 /52		
	throw in feet	171	137	36	169	135	85
	total pressure	,278	,310	,468	,215	,240	,360
10000	neck velocity/N.C.	1800 /57			1600 /55		
	throw in feet	179	139	40	180	140	90
	total pressure	,350	,398	,600	,276	,310	,470
11000	neck velocity/N.C.				1800 /58		
	throw in feet				190	150	95
	total pressure				,350	,395	,600