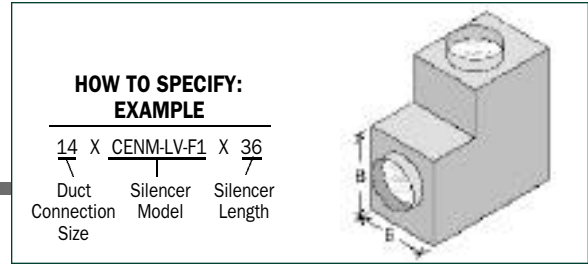


Vibro-Acoustics

CERTIFIED PERFORMANCE DATA

14 CENM-LV-F1 CIRCULAR ELBOW NO-MEDIA LOW VELOCITY SILENCER (<1250 FPM)



Insertion Loss (IL)

- + : "forward flow" where noise & airflow move in same direction (e.g. supply side)
- : "reverse flow" where noise & airflow move in opposite directions (e.g. return side)

LENGTH (inches)	FACE VELOCITY (feet per minute)	OCTAVE BAND - Hz/DYNAMIC INSERTION LOSS (dB)							
		63	125	250	500	1000	2000	4000	8000
36	- 1250	11	21	28	17	17	13	8	7
	0	12	14	24	12	13	11	8	7
	+ 1250	12	20	28	16	17	13	9	8
48	- 1250	12	20	34	19	18	15	10	8
	0	11	14	28	13	13	13	9	9
	+ 1250	13	19	34	18	18	15	11	9
60	- 1250	13	19	40	21	19	16	11	9
	0	11	14	33	15	14	14	11	10
	+ 1250	14	18	40	20	19	16	12	10
72	- 1250	14	19	46	23	20	18	13	10
	0	11	14	37	16	14	15	12	11
	+ 1250	15	17	46	22	20	18	14	11

See pages 4.1 - 4.25 for selection information.

Pressure Drop (PD)

DUCT CONNECT. SIZE (in.)	B x B (in.)	SILENCER LENGTH (in.)	WEIGHT (lbs)	FACE VELOCITY (feet per minute) / Pressure Drop (in.w.g.)						
				250	500	750	1000	1250	1500	1750
14	36x36	36	164	0.01	0.05	0.12	0.21	0.33	0.48	0.65
14	36x36	48	202	0.01	0.05	0.12	0.22	0.34	0.49	0.66
14	36x36	60	241	0.01	0.06	0.12	0.22	0.34	0.50	0.67
14	36x36	72	279	0.01	0.06	0.13	0.22	0.35	0.50	0.68

☐ : Acceptable (0 - 0.35")

▒ : Caution (>0.35") Pressure Drop may be too high for certain applications

Pressure drops are reported in accordance with ASTM E477 methods and are based upon IDEAL flow conditions (5 diameters of straight duct on silencer inlet and 10 on outlet). Less than ideal conditions will result in an increase in pressure drop due to System Effects. See Silencer System Effects Data on page 4.19.

Generated Noise (GN) @ 1.07 sq.ft. face area

LENGTH (inches)	FACE VELOCITY (feet per minute)	OCTAVE BAND - Hz/GENERATED NOISE (dB re 10 ⁻¹² watts)							
		63	125	250	500	1000	2000	4000	8000
ALL	- 1250	55	53	50	47	48	50	49	42
	- 750	53	48	46	42	43	45	39	33
	+ 750	52	49	42	37	41	42	33	24
	+ 1250	58	57	52	45	47	51	49	41