

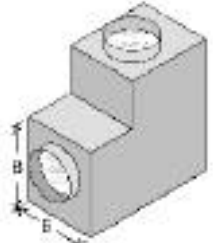
Vibro-Acoustics[®]

CERTIFIED PERFORMANCE DATA

10 CENM-HV-F1 CIRCULAR ELBOW NO-MEDIA HIGH VELOCITY SILENCER (<2250 FPM)

**HOW TO SPECIFY:
EXAMPLE**

$\frac{10}{\text{Duct Connection Size}} \times \frac{\text{CENM-HV-F1}}{\text{Silencer Model}} \times \frac{42}{\text{Silencer Length}}$



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
42	- 2250	14	20	32	15	14	12	9	9
	0	13	13	28	11	10	11	9	8
	+ 2250	11	17	33	17	14	13	10	9
54	- 2250	15	20	37	18	16	14	11	10
	0	14	14	31	12	11	13	12	10
	+ 2250	13	18	36	19	16	15	13	11
66	- 2250	16	20	42	20	18	16	13	11
	0	16	15	34	13	12	15	14	11
	+ 2250	14	19	39	20	19	18	16	14
78	- 2250	16	20	47	22	21	18	15	12
	0	17	15	37	14	13	17	17	13
	+ 2250	16	20	42	22	21	20	19	16

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.)						
				1250	1500	1750	2000	2250	2500	2750
10	30x30	42	125	0.09	0.13	0.17	0.23	0.28	0.35	0.43
10	30x30	54	156	0.09	0.14	0.18	0.24	0.30	0.38	0.45
10	30x30	66	185	0.10	0.14	0.20	0.26	0.32	0.40	0.48
10	30x30	78	215	0.11	0.15	0.21	0.27	0.34	0.42	0.51

: 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) @ 0.55 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	- 2250	56	53	51	49	51	52	50	39
	- 1750	55	51	46	45	45	44	39	35
	+ 1750	56	55	53	45	45	45	40	34
	+ 2250	59	60	59	51	50	53	52	40