



Availability

Diameter of 8 inches. Length equal to 36 inches.
Custom lengths also available. Width and height are
both 30 inches.

Table 1: Insertion Loss

ID (in)	Length (in)	W x H (in)	Face Velocity (fpm)	Insertion Loss (dB)							
				63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz
8	36	21 x 21	-4000	18	16	24	21	12	8	7	6
			0	16	15	18	13	8	6	6	4
			+4000	16	15	22	23	13	8	5	5

Note that ASTM inter-laboratory testing has shown insertion loss may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies. Data in parenthesis () may be greater than shown due to limitations in laboratory equipment and/or facilities.

Table 2: Airflow Generated Sound Power

ID (in)	Face Velocity (fpm)	Airflow Generated Sound Power Level (dB)							
		63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz
8	-4000	(54)	(50)	(52)	(49)	52	58	54	(40)
	-3000	(54)	(46)	46	45	50	52	44	(30)
	-2000	(53)	42	41	42	42	38	(25)	(26)
	2000	(55)	(44)	(43)	45	47	46	36	(29)
	3000	(59)	(50)	(49)	(49)	(51)	57	52	38
	4000	(62)	(57)	(55)	(53)	(55)	60	61	50

Note that ASTM inter-laboratory testing has shown that generated noise may vary as much as 6 dB in the 63hz band, and 3 dB for all other frequencies. Data in parenthesis () may be less than shown due to limitations in laboratory equipment.

Table 3: Pressure Loss

ID (in)	Weight (lbs)	Loss Coefficient	Dynamic Pressure Loss (in wg)					
			Face Velocity (fpm)					
			1000	2000	3000	4000	5000	6000
8	35	0.33	0.02	0.08	0.19	0.33	0.51	0.74

Notes: Weights rounded up to nearest 5 lbs. Shaded regions represent a design condition that may have negative consequences for acoustically sensitive applications.

Silencer is connected to ROUND duct even though outer shell of silencer is rectangular.