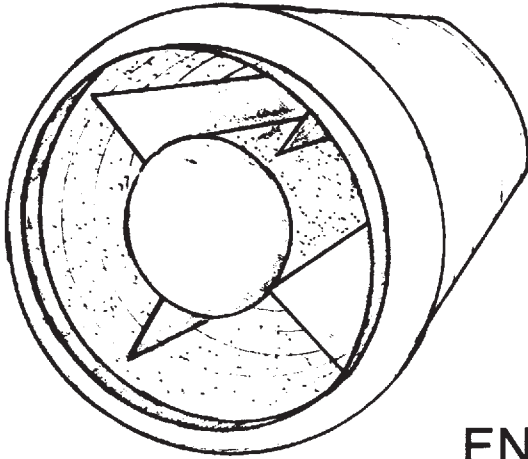


ROUND SOUND ATTENUATORS

S.P.O.T.

SPIRAL PIPE OF TEXAS, INC.
600 N. HAYS
FORT WORTH, TEXAS 76102



ENGINEERING DATA

DYNAMIC INSERTION LOSS

SILENCER MODEL No.	OCTAVE BANDS	2	3	4	5	6	7	8
	CENTER FREQ.	125	250	500	1000	2000	4000	8000
	FACE VELOCITY F.P.M.	NET INSERTION LOSS IN DECIBELS						
SC-C	-2000	9	13	22	33	35	22	17
	-1000	9	12	22	32	34	21	16
	0	7	11	21	32	34	22	18
	+1000	7	11	20	31	34	22	18
	+2000	7	10	19	30	33	21	18

DESCRIPTION:

SPOT ROUND ATTENUATORS ARE DOUBLE WALL CONSTRUCTION WITH THE OUTER SHELL OF GALVANIZED SPIRAL PIPE 8" LARGER THAN THE INSIDE PERFORATED LINER. THE CENTER ABSORBER IS DESIGNED WITH A SPUN METAL HEAD AND CONE SHAPED TAIL FOR MAXIMUM ATTENUATION AND OPTIMUM PRESSURE DROP. THE ATTENUATOR IS FILLED WITH 4#/FT³ MINERAL FIBER INSULATION.

STANDARD MODELS ARE AVAILABLE IN 12" THRU 60" DIAMETERS. SPOT ROUND ATTENUATORS ARE SIZED TO FIT DUCTWORK WITHOUT OTHER TRANSITIONS. OTHER MATERIALS AND FLANGED ENDS ARE AVAILABLE AS AN OPTION. CONTACT FACTORY FOR MORE INFORMATION.

ORDERING INFORMATION

GIVE MODEL NO. AND INSIDE DIAMETER (IN INCHES). STANDARD LENGTH IS 2 X DIAMETER UNLESS OTHERWISE STATED. OVERALL LENGTH OF THE UNIT IS 4" LONGER WHICH IS A 2" SLIP CONNECTION AT EACH END. IF FLANGED ENDS ARE ADDED AS AN OPTION, THE OVERALL MAKE UP IS 2 X D + 4".

AIR FLOW PERFORMANCE DATA

MODEL	STATIC PRESSURE LOSS (INCHES W.G.)						
SC-C	.027	.04	.11	.17	.245	.33	
FACE VELOCITY F.P.M.	1000	1500	2000	2500	3000	3500	

TO OBTAIN APPLICABLE STATIC PRESSURE LOSS WITH ACTUAL C.F.M. KNOWN:

$$\text{FACE VELOCITY} = \frac{\text{C.F.M.}}{\text{AREA (sq. ft.)}}$$

$$P_d = \left(\frac{\text{FACE VELOCITY}}{\text{TABLE VELOCITY}} \right)^2 \times$$

TABLE PRESSURE DROP

**SELF NOISE SOUND POWER RATINGS (P.W.L.)
(db re 10⁻¹² WATTS)**

SILENCER MODEL No.	OCTAVE BANDS	2	3	4	5	6	7	8
	CENTER FREQ.	125	250	500	1000	2000	4000	8000
SC-C	FACE VELOCITY F.P.M.	SELF NOISE SOUND POWER LEVELS IN DECIBELS						
		-2500	60	57	59	59	62	55
	-2000	56	52	55	56	56	46	39
	+2000	53	49	45	44	42	34	30
	+3000	61	58	55	53	53	50	44

FACE AREA ADJUSTMENTS	Diameter	12"	18"	24"	36"	48"	60"
		Adjustment (db)	-6	-3	0	+3	+6

ACOUSTIC AND AERODYNAMIC DATA ARE BASED ON COMPARATIVE TEST RESULTS OBTAINED IN AN INDEPENDENT TESTING LABORATORY.

IN AN ONGOING EFFORT TO IMPROVE OUR PRODUCTS, SPIRAL PIPE OF TEXAS RESERVES THE RIGHT TO REVISE THE DESIGN & SPECIFICATIONS AT ANY TIME.