

# PEPPERTREE AIR SOLUTIONS INC.

## ELITE FLEXIBLE DUCTING COMMERCIAL - TYPE HP AND HM SOUND DATA\*

STRAIGHT DUCT INSERTION LOSS PER 10FT. LENGTH IN dB						
OCTAVE BAND NO. CENTRE FREQ. Hz	2 125	3 250	4 500	5 1000	6 2000	7 4000
6" DIA. @ ZERO FLOW FAB HP @ 2500 FPM	8	32	40	37	39	25
6" DIA. @ ZERO FLOW FAB HM @ 2500 FPM	8	32	42	39	41	26
8" DIA. @ ZERO FLOW FAB HP @ 2500 FPM	14	33	36	35	36	21
8" DIA. @ ZERO FLOW FAB HM @ 2500 FPM	13	31	36	35	38	21
12" DIA. @ ZERO FLOW FAB HP @ 2500 FPM	16	30	28	32	26	15
12" DIA. @ ZERO FLOW FAB HM @ 2500 FPM	23	28	29	32	26	13

RADIATED NOISE REDUCTION PER 10FT. LENGTH IN dB						
OCTAVE BAND NO. CENTRE FREQ. Hz	2 125	3 250	4 500	5 1000	6 2000	7 4000
6" DIA. @ ZERO FLOW FAB HP @ 2500 FPM	7	8	7	8	10	13
6" DIA. @ ZERO FLOW FAB HM @ 2500 FPM	6	8	7	8	11	16
8" DIA. @ ZERO FLOW FAB HP @ 2500 FPM	10	6	6	7	8	11
8" DIA. @ ZERO FLOW FAB HM @ 2500 FPM	9	7	7	8	11	14
12" DIA. @ ZERO FLOW FAB HP @ 2500 FPM	9	7	6	6	9	11
12" DIA. @ ZERO FLOW FAB HM @ 2500 FPM	9	6	6	6	10	14

90° ELBOW INSERTION LOSS PER 10FT. LENGTH IN dB						
OCTAVE BAND NO. CENTRE FREQ. Hz	2 125	3 250	4 500	5 1000	6 2000	7 4000
6" DIA. @ ZERO FLOW FAB HP @ 2500 FPM	5	25	45	45	42	32
6" DIA. @ ZERO FLOW FAB HM @ 2500 FPM	6	26	41	40	41	31
8" DIA. @ ZERO FLOW FAB HP @ 2500 FPM	8	32	44	45	43	30
8" DIA. @ ZERO FLOW FAB HM @ 2500 FPM	7	30	41	42	42	30
12" DIA. @ ZERO FLOW FAB HP @ 2500 FPM	13	37	41	40	37	22
12" DIA. @ ZERO FLOW FAB HM @ 2500 FPM	12	31	39	37	36	22
18" DIA. @ ZERO FLOW FAB HP @ 2500 FPM	14	37	42	42	39	23
18" DIA. @ ZERO FLOW FAB HM @ 2500 FPM	12	31	40	38	38	23
24" DIA. @ ZERO FLOW FAB HP @ 2500 FPM	14	37	34	34	31	16
24" DIA. @ ZERO FLOW FAB HM @ 2500 FPM	13	34	33	32	31	14
30" DIA. @ ZERO FLOW FAB HP @ 2500 FPM	18	37	32	32	29	14
30" DIA. @ ZERO FLOW FAB HM @ 2500 FPM	17	35	31	31	28	13

SOUND GENERATION PER 10 FT. LENGTH IN dB re 10 <sup>-12</sup> WATTS						
OCTAVE BAND NO. CENTRE FREQ. Hz	2 125	3 250	4 500	5 1000	6 2000	7 4000
6" DIA. FAB HP @ 1000 FPM	44	32	29	20	19	23
6" DIA. FAB HM @ 1000 FPM	44	33	24	18	18	21
8" DIA. FAB HP @ 1000 FPM	38	29	27	22	18	26
8" DIA. FAB HM @ 1000 FPM	40	31	29	22	18	21
12" DIA. FAB HP @ 1000 FPM	47	39	34	28	23	22
12" DIA. FAB HM @ 1000 FPM	47	36	31	24	19	22

\* Tested in accordance with Air Diffusion Council's "Flexible Air Duct Test Code FD-72-R1" Section 3.0 "Sound Properties".  
Results provided by ETL Testing Laboratories Inc. Report #526039 is available upon request.