



AMR-25 R4.2, R6 & R8 Acoustic Flexible Air Duct

PRODUCT DATA & SUBMITTAL

PHYSICAL DESCRIPTION

AMR-25 (25' length) acoustic flexible duct constructed with a galvanized wire helix and a unique sound transparent, spun-bonded, non-woven inner core. Fiberglass insulation choices of R4.2, R6 & R8 encompass the core and a unique metalized, reinforced vapor barrier surrounds the entire duct.

PRODUCT DATA

Diameters: 4", 5", 6", 7", 8", 9", 10", 12", 14", 16", 18", 20"

Length: 25 feet

Packaging: 1 section per carton

Vapor Barrier: Metalized, Reinforced Polyester

End Treatments: Raw Ended

Inner Core: Acoustically designed utilizing a spun-bonded, non-woven fabric for maximum insertion loss and shielding the air stream from fiberglass erosion.

PERFORMANCE DATA

Thermal Value: R4.2, R6 & R8 Classified by Underwriters Laboratories, Inc. and bears the ADC Thermal Certification Mark.

Maximum Positive Pressure: 3" W.G. (4"-12")
2" W.G. (14"-20") determined by ADC Test FD-72R1 at elevated temperatures with a 90° elbow.

Maximum Negative Pressure: 1" W.G. (4"-10")
1/2" W.G. (12"-20")

Vapor Barrier: Flexible air ducts are for indoor applications and should not be exposed to direct ultraviolet light.

Maximum Velocity: 4,000 FPM

Operating Temperature: 0° F to 200° F

Permeance: (Vapor - Barrier) 0.01 US Perms per ASTM E96A-94.

Acoustical Data: See reverse side for acoustical properties.

FEATURES & BENEFITS

UL Listed & Labeled

Superior insertion loss characteristics

10 Year limited warranty

GREENGUARD Gold Certification

Formaldehyde free (see www.jpflex.com for more info)

Unique reinforced, metalized jacket

Certified R-Values

Airport Residential Noise Reduction Remedy

Code Compliance: Listed & Labeled Underwriters Laboratories, Inc. File #MH11637 UL-181 Class 1 Air Duct, Flame Spread 25 or less / Smoke Developed 50 or Less. Meets the requirements of NFPA 90A & 90B, UMC & IMC and most model codes. California Insulation Manufacturer #TD-1092



ACOUSTIC PROPERTIES FOR DUCTS WITH TYPE AMF & AMR CORE

INSERTION LOSS (dB) IN FORWARD FLOW CONDITIONS FOR 10 FT LENGTH

Dia	Center Frequency HZ	125	250	500	1000	2000	4000
6"	1000 FPM	33	39	38	42	48	>48
	1500 FPM	30	37	38	42	48	>48
	2000 FPM	28	32	35	39	44	>47
	3000 FPM	17	26	36	37	36	33
8"	1000 FPM	36	37	36	41	49	35
	1500 FPM	33	37	36	41	49	37
	2000 FPM	26	33	36	40	48	38
	3000 FPM	17	24	36	39	42	36
12"	1000 FPM	33	31	28	35	39	24
	1500 FPM	32	30	28	35	39	25
	2000 FPM	28	30	28	35	40	25
	3000 FPM	21	25	29	34	37	26

Note: If data preceded by the ">" symbol, the actual insertion loss is greater or equal to the data shown. Calculation of insertion loss has been limited by the airflow generated sound pressure level of the duct noise, background noise, or instrumentation.

RADIATED NOISE REDUCTION FOR 10 FT LENGTH

Dia	Center Frequency HZ	125	250	500	1000	2000	4000
6"	0 FPM	4	4	6	9	11	15
	2500 FPM	6	5	7	9	11	15
8"	0 FPM	4	4	6	9	10	13
	2500 FPM	6	5	6	9	10	13
12"	0 FPM	5	5	5	6	7	9
	2500 FPM	7	6	6	6	7	8

AIRFLOW GENERATED SOUND POWER LEVEL (dB) FWD FLOW CONDITIONS FOR 10 FT LENGTH

Dia	Center Frequency HZ	125	250	500	1000	2000	4000
6"	1000 FPM	<41	<33	<29	<24	<22	<25
	1500 FPM	<43	<39	<37	<31	<26	<25
	2000 FPM	<45	<45	44	<38	<35	<28
	3000 FPM	<52	54	53	<48	<45	<39
8"	1000 FPM	34	26	<23	<17	<17	<21
	1500 FPM	<37	33	<30	<23	<18	<21
	2000 FPM	43	43	39	33	<27	<24
	3000 FPM	52	53	49	<43	<40	<37
12"	1000 FPM	<38	<31	<26	22	19	<22
	1500 FPM	<40	<37	<34	<31	<24	<22
	2000 FPM	<43	<43	<41	<39	<33	<26
	3000 FPM	<52	<52	52	<51	<47	<40

Note: If data is preceded by the "<" symbol, the actual generated sound power level is less than or equal to the data shown. Calculation of generated sound power level has been limited by background noise, or instrumentation.

This data was derived by testing in accordance with ASTM E477 and ADC test Code FD 72-R1 by a 3rd party NVLAP® accredited testing laboratory. Full report includes 1/3 octave band data and is available upon request. Report # A030092 (12/3/03)

This information is based on controlled laboratory conditions. JP Lamborn Co makes no warranty that the data is representative of actual use conditions.

AMF & AMR has been a solution in meeting the minimum requirements for Airport Residential Noise Reduction.



★ Specifications subject to change without notice. ★

Proper use and installation of these products shall be in accordance with UL-181 and ADC recommended installation instructions in each package.