



AMF-07R8

Insulated Class 1 Flexible Air Duct

PRODUCT DATA & SUBMITTAL

PHYSICAL DESCRIPTION

AMF-07R8 (7' length) is an acoustic flexible duct constructed with a unique sound-transparent, spun-bonded, non-woven inner core. R8 insulation encompasses the core and a metalized, reinforced vapor barrier surrounds the entire duct. Sheet metal collars are attached to each end.

PRODUCT DATA

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

Length: 7 ft.

Packaging: 2 sections (14') per carton

Vapor Barrier: Metalized, Reinforced Polyester

End Treatments: Sheet metal collars secured with UL-181 FX Tape

Inner Core: Acoustically designed utilizing a spun-bonded, non-woven fabric for maximum insertion loss.

PERFORMANCE DATA

Thermal Value: R8 Classified by Underwriters Laboratories, Inc. and bears the ADC Thermal Certification Mark. Owens Corning Fiberglass with Green Guard Certification.

Maximum Positive Pressure: 3" W.G. (5"-12")
2" W.G. (14"-20") determined per ADC Test FD-72R1 at elevated temperatures with a 90° elbow.

Maximum Negative Pressure: 1" W.G. (5"-10")
1/2" W.G. (12"-20")

Vapor Barrier Permeance: (Vapor Barrier) 0.006 US Perms Per ASTM E96A-94. Flexible air ducts are for indoor application only and should not be exposed to direct ultraviolet light.

Maximum Velocity: 4,000 FPM

Operating Temperature: 0-200° F

Acoustical Data: See reverse side for acoustical properties.

FEATURES & BENEFITS

Superior insertion loss characteristics

10 Year limited warranty

Unique reinforced, metalized vapor-barrier

Collars sealed with UL-181 FX Tape

Certified R8 insulation



CODE COMPLIANCE & APPROVALS

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 6-1. Licensed as a California Insulation Manufacturer # TD-1092.

ACOUSTIC PROPERTIES FOR DUCTS WITH TYPE AMF CORE

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

Dia	Center Frequency HZ	63	125	250	500	1000	2000	4000	8000
6"	1000 FPM	>16	33	39	38	42	48	>48	>33
	1500 FPM	>16	30	37	38	42	48	>48	>33
	2000 FPM	24	28	32	35	39	44	>47	>39
	3000 FPM	15	17	26	36	37	36	33	>32
8"	1000 FPM	9	36	37	36	41	49	35	26
	1500 FPM	21	33	37	36	41	49	37	28
	2000 FPM	18	26	33	36	40	48	38	32
	3000 FPM	13	17	24	36	39	42	36	34
12"	1000 FPM	>16	33	31	28	35	39	24	21
	1500 FPM	>18	32	30	28	35	39	25	22
	2000 FPM	15	28	30	28	35	40	25	22
	3000 FPM	8	21	25	29	34	37	26	26

Note: If data is 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	63	125	250	500	1000	2000	4000	8000
6"	0 FPM	4	4	4	6	9	11	15	19
	2500 FPM	7	6	5	7	9	11	15	18
8"	0 FPM	4	4	4	6	9	10	13	18
	2500 FPM	3	6	5	6	9	10	13	19
12"	0 FPM	4	5	5	5	6	7	9	11
	2500 FPM	5	7	6	6	6	7	8	11

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

Dia	Center Frequency HZ	63	125	250	500	1000	2000	4000	8000
6"	1000 FPM	<51	<41	<33	<29	<24	<22	<25	<29
	1500 FPM	<52	<43	<39	<37	<31	<26	<25	<29
	2000 FPM	<52	<45	<45	44	<38	<35	<28	<29
	3000 FPM	<55	<52	54	53	<48	<45	<39	<32
8"	1000 FPM	<45	34	26	<23	<17	<17	<21	<27
	1500 FPM	<46	<37	33	<30	<23	<18	<21	<27
	2000 FPM	<48	43	43	39	33	<27	<24	<27
	3000 FPM	<53	52	53	49	<43	<40	<37	<29
12"	1000 FPM	<46	<38	<31	<26	22	19	<22	<27
	1500 FPM	<47	<40	<37	<34	<31	<24	<22	<27
	2000 FPM	<49	<43	<43	<41	<39	<33	<26	<27
	3000 FPM	<56	<52	<52	52	<51	<47	<40	<32

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.



★ 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.