

# Tubular Duct Mute

*Cylindrical  
Silencers*



## AAF TUBULAR DUCT MUTES DESIGNED FOR INDUSTRIAL SILENCING

The AAF Tubular Duct Mute, Type TDM or TDM-P, is an acoustically effective cylindrical silencer using an absorptive annular flow design to provide high attenuation with minimum associated pressure loss.

The Tubular Duct Mute Type TDM-8L is an acoustically effective cylinder silencer using an absorptive, straight-through design providing high-frequency silencing at minimum pressure loss.

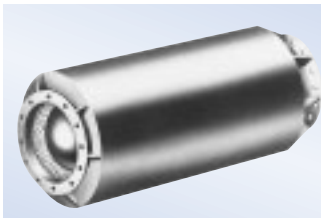
Our Tubular Duct Mutes are most effective in mid-to-high frequencies, especially for silencing noise generated by:

- ✓ Fans
- ✓ Blowers
- ✓ Compressors
- ✓ Turbochargers

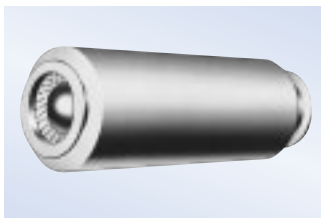
## WORLD CLASS QUALITY

During the entire production process, our operations are governed by our ISO 9001 certified system.

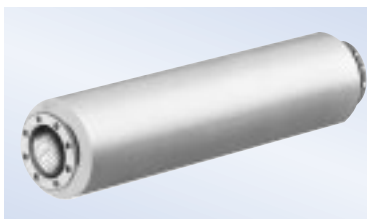
## THREE STANDARD DESIGNS



**TDM**, for standard applications, is available in two standard length-to-diameter ratios and two pressure drop categories.



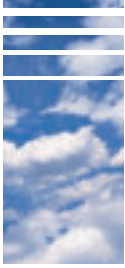
**TDM-P**, for pressure applications less than 10 PSIG, is available in two standard length-to-diameter ratios and two pressure drop categories.



**TDM-8L**, for lines 8" and less, is available in six standard line sizes with specific lengths.

## FEATURES

- **Shell Material**  
All models up to 26" are constructed of 14 gauge hot rolled carbon steel. Models 26" and above are constructed of 11 gauge hot rolled carbon steel.
- **Internal Plate Material**  
The internal plate is made of 14 gauge perforated carbon steel.
- **Acoustical Packing**  
The acoustical packing consists of 4 lbs./cu. ft. mineral fiber.
- **External Finish**  
All Tubular Duct Mutes are finished with red primer.
- **Flange**  
Flanges are drilled to match 125 lb. ANSI Standard (except TDM-2-8L and TDM-3-8L which have male NPT connectors.)
- **High Temperature**  
High temperature designs, TDM-X, are available for applications such as gas turbine exhaust systems. The TDM-X is custom designed to meet the temperature requirements of your applications.



# Tubular Duct Mute Cylindrical Silencers

## DESIGNATIONS

Tubular Duct Mute (TDM)

**TDM 12 - 2 R**

Tubular Duct Mute

Inside Pipe Nozzle Diameter

Dash No. Indicates Length-to-Diameter Ratio

Pressure Drop Category: N-Normal R-Reduced S-Special Design

Tubular Duct Mute (TDM-P)

**TDM-P 12 2 R**

Tubular Duct Mute

Pressure Inside Pipe Nozzle Diameter

Dash No. Indicates Length-to-Diameter Ratio

Pressure Drop Category: N-Normal R-Reduced S-Special Design

Tubular Duct Mute (TDM-8L)

**TDM - 2 - 8L**

Tubular Duct Mute

Dash No. Indicates Length-to-Diameter Ratio

Pressure Drop

## INSERTION LOSS VALUES OF AAF TUBULAR DUCT MUTES INLET APPLICATIONS (TDM, TDM-P)

Octave Band Center Frequency - Hertz	63	125	250	500	1000	2000	4000	8000
<b>Model No.</b>	<b>Reduced Pressure Drop Model R</b>							
-2R	4	9	17	24	30	30	26	19
-4R	8	17	28	38	50	50	43	33
	<b>Reduced Pressure Drop Model N</b>							
-2N	5	11	20	28	38	38	34	27
-4N	11	23	37	51	60	60	54	50

## DISCHARGE APPLICATIONS (TDM, TDM-P)

Octave Band Center Frequency - Hertz		63	125	250	500	1000	2000	4000	8000
<b>Model No.</b>	<b>Face Velocity FPM</b>	<b>Reduced Pressure Drop Model R</b>							
-2R	2000	4	9	16	23	29	29	25	18
	6000	4	8	15	21	27	27	23	17
-4R	2000	8	16	27	37	48	48	41	32
	6000	7	15	25	34	46	46	39	30
		<b>Normal Pressure Drop Model N</b>							
-2N	2000	5	10	19	27	36	36	32	26
	4000	4	9	18	26	34	34	30	24
-4N	2000	11	22	35	48	57	57	51	48
	4000	10	21	33	46	54	54	48	45

## INSIDE PIPE NOZZLE DIAMETERS (INCHES)

10	24
12	26
14	28
16	30
18	36
20	42
22	48



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