

## Coalescing Mufflers

XMC Series

*Keeping your air system clean, quiet, and safe*

**Protect Your People!**





### Coalescing Mufflers

Wilkerson will help you keep your plant clean, quiet and safe. Whether your pneumatic system is lubricated or not, exhaust from compressed air systems can be noisy and contain particulate and aerosol contaminants that, if left uncaptured, can potentially cause issues in the workplace.

The federal Government provides standards for exposure to oil mist and noise, through both OSHA (Occupational Health & Safety Administration) and NIOSH (National Institute for Occupational Safety and Health). See below for more details on the standards.

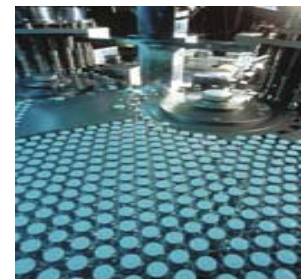
**Wilkerson's coalescing mufflers can ensure you are in compliance with these standards, and keep you, and your employees, safe.**

Governing Body	Government Standard	Wilkerson Exhaust Silencer – Mist Eliminator	Standard Muffler
OSHA	The Occupational Safety and Health Administration (OSHA) Air Contaminants Standard 29 CFR 1910.10 governs employees exposure to toxic and hazardous substances. This standard states that a worker's cumulative exposure to oil mist must not exceed 5 mb/m <sup>3</sup> or 4.32 PPM (particles per million) in an 8 hour shift of a 40 hour work week.	YES	
	The Occupational Safety and Health Administration (OSHA) Noise Standard 29 CFR 1910.25 limits a worker's average noise exposure in an 8 hour day to 90 dB, and less than 15 minutes at 115 db.	YES	Maybe
NIOSH	The National Institute for Occupational Safety and Health recommends limits of exposure to oil mist to not exceed 10 mg/m <sup>3</sup> – about 8.6 PPM over a 15 minute periods during an 8 hour shift.	YES	

### XMC Coalescing Muffler

Exhausting noisy and oily compressed air into a plant is problematic at best. Standard mufflers can do a good job of keeping the noise under control, but they do nothing to control the smaller particulate and aerosol matter expelled in the exhaust.

The Wilkerson coalescing muffler quiets the exhaust as it exits the system and traps particulate matter and oil & water aerosols greater than .01 micron. This dual action muffler provides reliable performance to trap 99.97% of the oil discharge from your system, to help you comply with OSHA and NIOSH standards.



## How it Works

Air laden with compressor & lubricating oils and water, as well as contaminated moisture, is exhausted from valves, cylinders and air motors into the coalescing muffler. Oil and contaminated moisture aerosols are trapped and coalesced into larger droplets, while gravity pulls them into the attached drain sump. The sump can then be drained manually or by using an 1/4" ID plastic tube drain. The air flowing into the coalescing muffler is also muffled as it enters the unit and passes throughout the filter media, into the atmosphere.

## Ordering Information

Specifications	XMC-04-000	XMC-08-000	XMC-0B-000
Port Size	1/2 NPT	1 NPT	1 1/2 NPT
Maximum Operating Pressure	36°F - 122°F (2°C - 50°C)		
Bowl Capacity	2.2 fl. Oz	5 fl. Oz.	5 fl. Oz.
Noise Reduction	25 dBA		
Oil Removal	99.9%		
Media	Air		
C <sub>v</sub>	5.5	9.3	15.9
Air Flow @ 12 psig (0.8) bar Back Pressure	65 scfm (30,7 dm <sup>3</sup> /s)	110 scfm (51,9 dm <sup>3</sup> /s)	200 scfm (94,4 dm <sup>3</sup> /s)

## Installation

Wilkerson's XMC Exhaust Silencer/Mist Eliminators can be easily and quickly installed in the exhaust ports of pneumatic valves, air motors, and other air operated devices, to reduce work area noise and eliminate oil mist from exhaust air. Use of collective piping or manifold where multiple air devices are used, makes for easy maintenance and control of oil mist collection and disposal. For manual draining, attach plastic tubing with an inside diameter of 9.25" (6.35 mm) and run tubing from the drain to the collecting container. When installed without plastic tubing, periodically remove rubber drain plug cap and manually drain unit into a proper disposable container.

## Exhaust Silencer/Mist Eliminator XMC

The XMC Series High Performance Exhaust Silencer/Mist Eliminator is an efficient solution to exhaust air oil mist contamination and excessive noise levels generated by exhaust air at levels generally above acceptable safety standards. The Wilkerson XMC Series Exhaust Silencer/Mist Eliminator solves the following two problems:

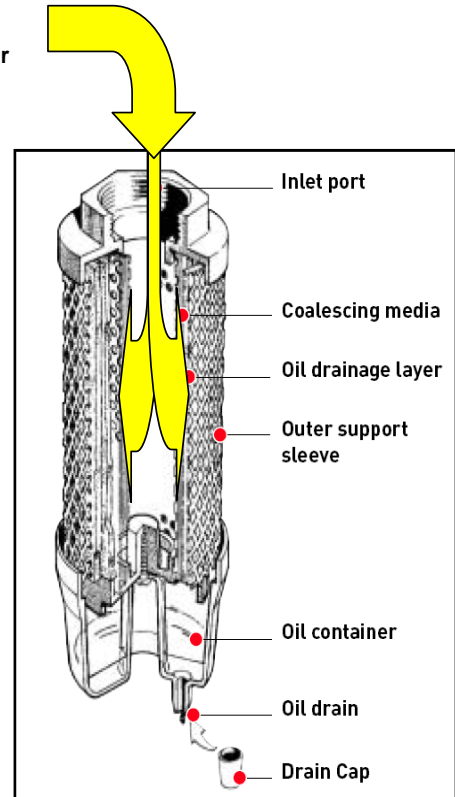
### Oil and Mist Contamination

Exhaust air from various in-plant pneumatic components, such as valves and cylinders, generally contain a significant amount of oil mists, as well as solid particles and other lubricant additives. This will pollute the working environment, affect worker's health, and the quality of the final product.

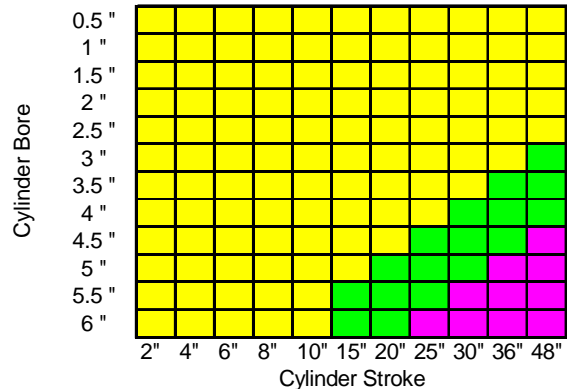
## Contact Information

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Exhaust from  
 - Valve  
 - Cylinder  
 - Air Motor



## Sizing Chart



Yellow 1/2" XMC-04-000  
 Green 3/4" XMC-08-000  
 Pink 1-1/2" XMC-0B-000