

# Air Preparation Equipment

Y A M A D A

Moisture and contamination in air lines are two major causes of Air-Operated Double Diaphragm Pump reliability issues. Protecting your valuable investment at the end of your air lines has never been so easy. Save money and reduce downtime with Yamada's full line of air preparation equipment.



**FILTERS**

**REGULATORS**

**MUFFLERS**

**COALESCERS**

**FRL/COMBO UNIT**

**HIGH PERFORMANCE  
MUFFLERS**

**SPEED CONTROL  
MUFFLERS**

- Protection for your down line investment
- Large flow from compact units
- Easy installation
- Low cost of ownership
- Modular units

Industry flows through **Yamada** pumps.

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# Filters, Regulators, Lubricators & FRL Combo Units

To help eliminate the guesswork often associated with pump installation, Yamada offers a wide selection of “performance matched” filter/regulators and coalescers. Specially selected to optimize pump performance, these high quality accessories are designed to provide years of trouble-free use and operation.

## Filters/Regulators

These modular filter/regulators provide the precise pressure control you need to optimize pump performance and efficiency. They feature built-in moisture and particulate removal to 5 micron, analog pressure gauge, “locking” pressure control, standard manual drain, with optional automatic drain available, and a variety of mounting systems for increased ease in removal and installation.

- **Broad Operating Parameters-** *Handles operating pressures to 150 psig and temperatures from 40° to 140°F. Regulator adjustment range from 7 to 125 psig.*
- **Precise Pressure Adjustment-** *Locking adjustment knob provides precise and secure pressure control. Allows for infinitely variable flow rates.*
- **Quick Release Bayonet Bowl-** *Allows access to filter element with a quick 1/4-turn of the bowl.*
- **High Visibility Bowl Guard-** *Unique liquid level indicator allows monitoring up to 30 ft away and 20° angles.*
- **Optional Modular Mounting-** *Port flanges allow for conventional or modular installation/removal.*



Polycarbonate Bowl with Bowl Guard, Manual Drain; optional Metal Bowl w/ auto drain.

MODEL	FR-1	FRL-2*	FR-3	FR-4	FR-5
Pump Type	NDP-5, 15 & 20	DP-10	NDP-25	NDP-40	NDP-50 & 80
Air Inlet	1/4"	1/4"	3/8"	1/2"	3/4"
Filter (µm)	5	5	5	5	5
Bowl Material	Poly Bowl	Poly Bowl	Poly Bowl	Poly Bowl	Poly Bowl
Bowl Capacity	.9 OZ	1.9 OZ	2.0 OZ	6.0 OZ	6.0 OZ
Dimensions (IN.)	6.48 x 1.57 x 1.34	6.48 x 3.54 x 1.57	8.31 x 2.09 x 1.57	10.33 x 2.76 x 2.13	10.51 x 2.95 x 2.13
Net Weight (LBS)	0.79	1.46	1.23	2.54	2.67
Max Flow Rate (SCFM)	20	65	90	120	225
Auto Drain Option	FR-1A	FRL-2A	FR-3A	FR-4A	FR-5A

\*Airline lubricators are recommended for the DP-10 series pumps only.

# Coalescing Filters

## Coalescers

These high flow coalescers provide the high-efficiency filtration your system needs to optimize pump performance. They feature moisture and particulate removal down to 0.3µm, standard manual drain, with optional automatic drain available.

- **Broad Operating Parameters-** *Handles operating pressures to 150 psig and temperatures from 40° to 140°F.*
- **High-Efficiency Moisture and Particulate Removal-** *Particulate & Oil Removal within 99.9%.*
- **Quick Release Bayonet Bowl-** *Allows access to filter element with a quick 1/4-turn of the bowl.*
- **High Visibility Bowl Guard-** *Allows monitoring up to 30 ft away and 20° angles.*
- **Optional Modular Mounting-** *Port flanges allow for conventional or modular installation/removal.*



Polycarbonate Bowl with Bowl Guard, Manual Drain; optional Metal Bowl w/ auto drain.

MODEL	CF-1	CF-3	CF-4	CF-5
Pump Type	NDP-5, 15 & 20	NDP-25	NDP-40	NDP-50 & 80
Air Inlet	1/4"	3/8"	1/2"	3/4"
Filter (µm)	.3	.3	.3	.3
Bowl Material	Poly Bowl	Poly Bowl	Poly Bowl	Poly Bowl
Bowl Capacity	.9 OZ	1.9 OZ	2.0 OZ	6.0 OZ
Dimensions (IN.)	1.57 x 3.84 x 1.57	2.09 x 5.22 x 2.20	2.76 x 6.63 x 2.87	2.95 x 6.79 x 2.87
Net Weight (LBS)	0.42	0.64	1.19	1.28
Max Flow Rate (SCFM)	7	16	40	40
Auto Drain Option	CF-1A	CF-3A	CF-4A	CF-5A

# Speed Control Mufflers

## Speed Control Mufflers

Speed control mufflers are recommended when excessive fluid inlet pressure on the pump is present. By throttling the air exhaust, compressed air cushioning occurs, potentially over-coming damage to the pump's diaphragms. In addition, a speed control muffler can be utilized to control pump over speeding during "run dry" conditions.

- **Broad Operating Parameters-** *Handles operating temperatures from 0° to 150°F*
- **Fully Functional Adjustment Screw-** *Facilitates a smooth, steady change and control of exhaust flow.*
- **Retainer Prevents Accidental Loss of Needle**
- **Over 20 db Sound Reduction-** *From open exhaust.*



MODEL	YSCM-13	YSCM-15	YSCM-16
Pump Type	NDP-5,15;DP-10	NDP-20 & 25	NDP-40, 50, & 80
Port Size	3/8"	3/4"	1"
Material of Construction	Brass	Brass	Brass
Height (mm)	20 x 34.2 x 17	25 x 37 x 19	30 x 49 x 24
Max Flow Rate (SCFM)	50	90	120

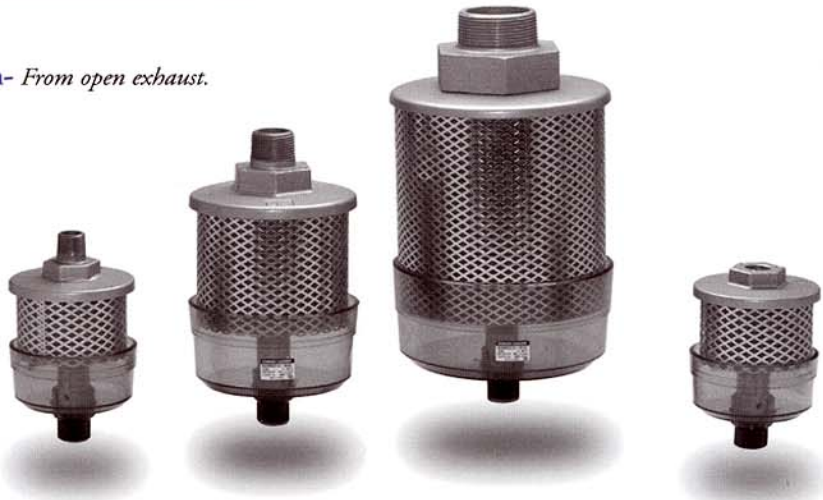
# High Performance Mufflers

## High Performance Mufflers

These high-performance mufflers reduce environmental contamination, ensure cleaner plant air, quieter, healthier work environments and complete corrosion resistance. Available for all sizes and styles of Yamada Pumps, these rugged devices feature a convenient drain for removal of captured compressor waste oil.

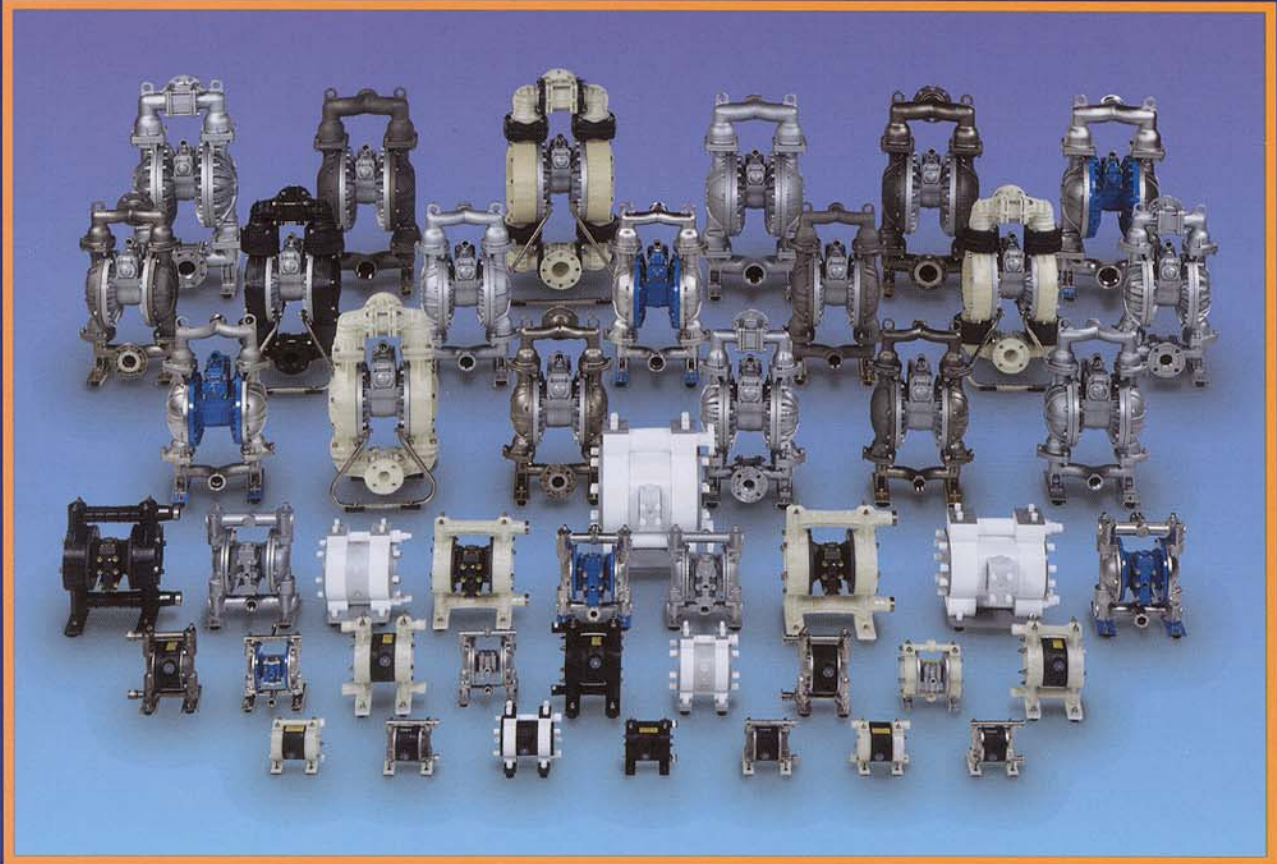
**Please note: Yamada NDP Series pumps DO NOT require lubrication.**

- **Broad Operating Parameters-**  
*Maximum temperatures to 140°F*
- **High-Efficiency Moisture and Particulate Removal-**  
*Easy to replace cartridge element, filters up to 99.9% of particulate & oil contamination.*
- **Snap-on Liquid Sump-** *Features a manual drain to collect coalesced oil.*
- **Over 35 db Noise Reduction-** *From open exhaust.*



MODEL	YAMC-310	YAMC-510	YAMC-610
Pump Type	NDP-5, 15; DP-10	NDP-20 & 25	NDP-40, 50, & 80
Port Size	3/8"	3/4"	1"
Height (inches)	5.93	8.01	9.04
Diameter (inches)	2.95	4.02	4.05
Max Flow Rate (SCFM)	17	35	120

# Yamada



Industry flows through **Yamada** pumps.

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