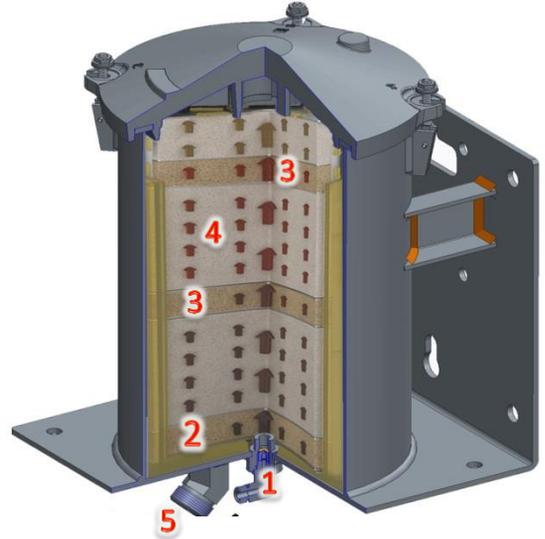


# puradYN M25



The M25 (previously MTS-40) is a multi-stage, highly efficient bypass oil filtration system for engine, hydraulic, or transmission applications with an oil sump capacity up to 25 gallons.

Working much the same way as a kidney dialysis machine, the puradYN® System diverts a small amount of engine oil at a slow rate of flow. Leveraging a proprietary solution, the filter continuously and safely cleans lubricant of impurities down to one micron, removes water, and replenishes key additives to keep oil like new.



- STEP 1.** OIL ENTERS SYSTEM AT SLOW RATE OF 6-8 GPH / 22-30 LPH (ENGINE) OR 12-16 GPH / 45-60 LPH (HYDRAULICS) AND INTO THE INNER DISPOSABLE ELEMENT WHERE THE FOLLOWING PROCESSES OCCUR:
- STEP 2.** WATER REMOVAL VIA POLYDRY TECHNOLOGY
- STEP 3.** OIL FLOWS THROUGH TIME-RELEASED ADDITIVE, REPLENISHING BASE ADDITIVE LEVELS IN ENGINE OIL.
- STEP 4.** OIL CONTINUES FILTERING THROUGH THE DISPOSABLE ELEMENT COMPRISED OF LONG-STRAND COTTON MEDIA TREATED WITH CGP, A PROCESS FOR CHEMICAL GRAFTING, AND THEN SLOWLY EXITS THE ELEMENT.
- STEP 5.** OIL IS GRAVITY-FED BACK TO ENGINE.

Common contaminates :	Effects of Contamination
<b>Engines:</b>	
<b>Solid particulate</b>	Accelerated component failure
<b>Water Particulate</b>	Reduction in viscosity
<b>Wear Metals</b>	Shorter engine life, filter plugging
<b>Transmissions:</b>	
<b>Sealing material</b>	Accelerated bearing wear or failure
<b>Oil oxidation products</b>	Accelerated clutch wear
<b>Dirt</b>	Accelerated gear wear
<b>Metals</b>	Shifting issues due to plugged control valves
<b>Water</b>	Accelerated component wear
<b>Hydraulics:</b>	
<b>Water</b>	Reduction in viscosity, load-carrying ability, and hydrodynamic-film thickness, corrosion, rust
<b>Silt caused by small-sized particulate</b>	Valves function improperly due to gradual erosion of surfaces
<b>Larger-sized particulate</b>	Blockage of orifices, component jamming, improper seating of relief valves
<b>Slime / Sludge</b>	Increased strain on components (i.e. pumps); clogged nozzles, jets, and orifices

## puradYN filtration systems

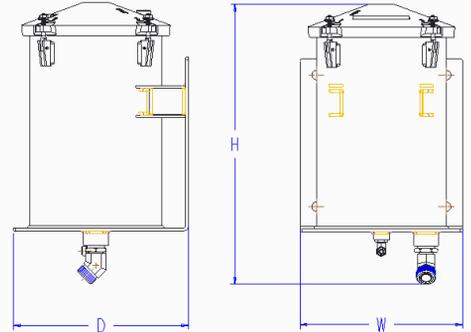
- Proudly manufactured in Boynton Beach, FL for over 30 years
- Will not void manufacturer's warranty
- Carries a \$5m per occurrence liability coverage
- Five-Year unlimited miles/hours warranty on unit



# puradYN M25



Weight	
System w/Dry Filter	24.7 LBS / 11.2 KGS
Boxed	31.05 LBS / 14.1 KGS
Vertical Clearance Requirements	
	8 IN / 21 CM
Dimensions - Overall	
Height (H)	12.9 IN / 33 CM
Width (W)	10 IN / 25 CM
Depth (D)	10.6 IN / 27 CM
Capacity	
Max Lube Oil Sump Capacity	25 GAL / 95 L
Make-up Oil	1 GAL / 3.8 L
Particulate removal	1.45 LBS / 656 G
Water removal	27.05 OZ / 800 ML
Fluid Specs	
Pressure- Maximum Input	100 PSI / 690 kPA
Flow Rate Range Filtration (engine)	6-8 GPH / 22-30 LPH
Flow Rate Range Filtration (hydraulics)	12-16 GPH / 45-60 LPH
Approximate Operating Temperature	220 °F / 104 °C



Double System configurations available



\*All M25 model specifications are approximate and will vary with options

## Specific M25 Applications:

Part Number:	Typical Application	Equipment Example	Max Sump Capacity	Max psi / kPa**
01-A1M25X-K (prev. 01-70008MTS-DL)	Engine	Detroit Diesel Series 60	25 gal / 95 L	100 psi / 690 kPa
01-A1M25X-K2 (prev. 01-70401MTS-DL)	Compressor	Caterpillar C18	25 gal / 95 L	100 psi / 690 kPa
01-A1M25X-AT (prev. 01-70401MTS-DLT)	Transmission	Allison 9800 Series	25 gal / 95 L	3,000 psi / 20,685 kPa
01-A1M25X-TD (prev. 01-71401MTS-DLT)	Transmission	Twin Disc 8500 Series	25 gal / 95 L	100 psi / 690 kPa
01-A1M25X-K3 (prev. 01-72401MTS-DLT)	Transmission	Caterpillar TH55 Series	25 gal / 95 L	3,000 psi / 20,685 kPa
01-A2M25N-H (prev. 01-70402MTS-DLH)   2-Unit ***	Hydraulic		800 gal / 3,028 L	5,000 psi / 34,474 kPa

\*\* Listed maximum "psi/ kPa" values based upon bypass filter systems with pressure reducing valve kit employed, as part of included kit materials.

\*\*\* Hydraulic applications generally operate under high-pressure conditions, and therefore should be handled with extreme caution when servicing or carrying out installation. All hydraulic applications must be "customer engineered" and approved by Puradyn Engineering prior to any sale of Puradyn product for use in hydraulic applications. Contact Puradyn technical support for specifics.

This document is for informational purposes only and should not be the deciding factor when selecting a puradYN System. Severe applications and operating environments may require model size adjustment from that shown on the standard sizing chart above. Please contact your local distributor or Puradyn directly with questions about specifics for your application or environment.