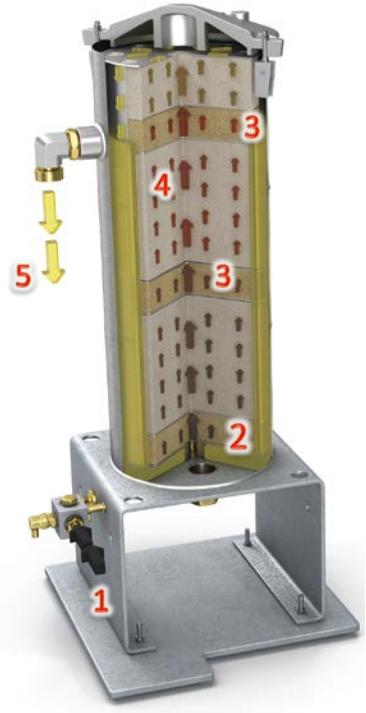
puraDYN MTS 240

The MTS240 is a multi-stage, highly efficient bypass oil filtration system designed to continuously clean lubricants used in engine, hydraulic, and transmission applications.

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 patented solution, the filter continuously and safely cleans lubricant of impurities and replenishes key additives before feeding the now-cleaned oil back to the engine.

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



1. Oil enters system at slow rate of 6-8 GPH / 22-40 LPH (engine) and into the inner disposable element where the following processes occur:
2. Water removal via Polydry® technology
3. Oil flows through time-released additive, replenishing base additive levels in engine oil.
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.
5. Oil is gravity-fed back to engine.

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
- ISO 9001:2015 certified

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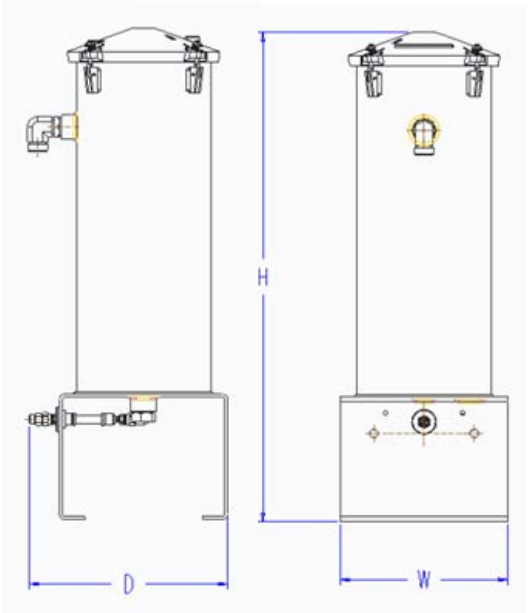
puraDYN MTS 240

Weight	
Unit w/Dry Filter	44 LBS / 20 KGS
Boxed	52 LBS / 23.6 KGS
Vertical Clearance Requirements	20 IN / 51 CM
Dimensions - Overall	
Height (H)	29.4 IN / 75 CM
Width (W)	10 IN / 25 CM
Depth (D)	11.8 IN / 30 CM
Capacity	
Max Lube Oil Sump Capacity	85 GAL / 322 L
Make-up Oil	3 GAL / 11.4 L
Particulate removal	3.9 LBS / 1785 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 / 22-40 LPH
Flow Rate Range Filtration (hydraulics)	12-16 GPH / 45-60 LPH
Approximate Operating Temperature	220 °F / 104 °C

*All MTS240 model specifications are approximate and will vary with options. Specs are based on single unit use and will vary with multiples configuration.



Double and Triple Unit configurations available

Popular MTS 240 Applications (additional kits available in 1-, 2-, or 3-Unit configurations):

Part Number:	Application	Manufacturer	Make	Max Sump Capacity	Max psi / kPa**
01-70002MTS-DL	Genset	Caterpillar	C3512	85 gal / 322 L	100 psi / 690 kPa
01-71002MTS-DL6	Frac Truck	Caterpillar	C3512	85 gal / 322 L	100 psi / 690 kPa
01-70002MTS-DL4	Genset	Cummins	QSK50	85 gal / 322 L	100 psi / 690 kPa
01-70003MTS-DL (2-Unit)	Genset (Deep Sump)	Caterpillar	C3512	170 gal / 644 L	100 psi / 690 kPa
01-71003MTS-DL8 (2-Unit)	Genset (Deep Sump | SNG)	Jenbacher	J320	170 gal / 644 L	100 psi / 690 kPa
01-70006MTS-DL7 (3-Unit)	Genset (Deep Sump | Marine)	Caterpillar	C3516	255 gal / 965 L	100 psi / 690 kPa
01-70006MTS-DL9(3-Unit)	Compressor	Ingersoll Rand	KVG-123	255 gal / 965 L	100 psi / 690 kPa

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

Larger MTS models can be used in multiple configurations to effectively filter large sump capacity engines. 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.