SilentFlo™ Conditioning Unit

Easily and efficiently remove entrained air

Benefits

- Small footprint
- Low fluid volume requirement
- Minimum energy consumption
- Low-maintenance
- Easy to use
- OSHA & CE compliant

Removing entrained air from hydraulic fluid is not easy, and prematurely replacing fluid can be costly. Entrained air in hydraulic fluid can damage everything from servovalves to larger system components. The air creates varnish-like nitrogen-oil compounds that contaminate the fluid and lead to accelerated fluid breakdown, poor equipment performance, system damage and a potentially unhealthy work environment.

Typically, a passive settling tank with baffles has been used to remove air from the hydraulic fluid. While effective, this method is time-consuming and requires a large reservoir.

The MTS SilentFlo Conditioning Unit offers a faster and more efficient solution for minimizing entrained air in the hydraulic fluid. Rather than waiting for the fluid to settle and the air to rise, the conditioning unit uses a semi-active component to remove the air.

This low-maintenance conditioning unit has clear hoses leading into and out of it so you can easily monitor fluid quality. The plug-and-play design allows for fully-automated operation that requires minimal user interaction.

The self-contained unit is small and energy efficient. It is only 155 cm x 86.4 cm (61 in x 34 in) which allows it to be positioned near the hydraulic pump. This small footprint saves valuable floor space. The conditioning unit and hydraulic power unit (HPU) together take up less floor space than a traditional HPU with an integrated settling tank. In addition, the small reservoir requires less fluid to be conditioned at one time, allowing for lower overall hydraulic fluid use. The conditioning unit also minimizes energy consumption because it does not require high-voltage, three-phase electric power.

The MTS SilentFlo conditioning unit is TÜV certified with fail-safe redundancies to meet international safety compliance requirements. The system is equipped with on/off electrical control for ease-of-use and energy conservation when not in use. The system also comes equipped with electrical power interrupt and high-level interlock circuits to protect against reservoir overflow. And in the unusual event that service is required, the system has a manual override function to evacuate the reservoir.

Protect your test system from contaminated fluid and the resulting wear and damage with this easy and efficient way to remove entrained air from hydraulic fluid. You'll experience increased productivity and longer equipment life.

Specifications

Facility Requirements	
100 – 240 VAC 50/60 Hz single phase power	
Required Input Flow Rate:	8 GPM (30 LPM) maximum at 3,000 psi
Reservoir Capacity:	90 gallons (340 litres)
Reservoir Working Volume:	45 gallons (170 litres)

Capacities	
Input - Drain Flow Rate (From System):	Maximum 24 GPM (90 LPM)
Input - Drain Pressure (From System):	5-100 PSI (0.5-7 Bar)
Input - Drain Oil Temperature (From System):	100-140°F (38-60°C)
Output - Flow Rate (From Conditioning Unit to HPU):	Maximum 32 GPM (121 LPM)

Unit Measurement	
Dimensions:	
Width:	34.0 in (86.4 cm)
Height:	56.3 in (143.0 cm)
Length:	61.0 in (155.0 cm)
Sound Levels:	70 db(A)

MTS Systems Corporation
14000 Technology Drive
Eden Prairie, MN 55344-2290 USA

Toll Free: 1.800.328.2255
Fax: 1.952.937.4515

E-mail: info@mts.com
www.mts.com

ISO 9001 Certified QMS

100-219-764a SilentFloCondUnit Printed in U.S.A. 12/11