

The Turn-Key Oil Room

Machine Reliability, Best Practices & Inventory Control

The oil room can be like **a black hole**, a collection of old oil no longer used, and new oil in unknown quantities and unrecorded condition. Unfortunately, these are often the same unknowns used to justify disposing of oil thought to be unreliable, and reordering new oil. **OILMISER™ Technology**, with our unique Oil Management Systems, can **change that black hole** into a fully functioning work area: efficient, productive, and a powerful stimulus for re-energizing a waning RCM program.

It all starts with the **OILMISER™ Oil Storage & Dispensing Station (SDS)**. Designed as a **stand alone** service module, the **SDS** is equally effective in a dedicated oil room; on the operating floor as a satellite oiling station; in an underground mining operation; or in any MRO facility. The **OILMISER™ SDS** requires only an oil free, pressure regulated air supply to start paying dividends immediately.

The **SDS** covers all the basics for **best practices** in oil maintenance; **fluid handling, air quality, oil sampling, oil cleanliness**. A translucent poly tank gives an instant reading of the remaining quantity of oil in inventory, and comes in three oil storage sizes, 460 L (120 gal), 550 L (145 gal), and 850 L (225 gal).



The Turn-Key Oil Room

OILMISER™ Oil Storage & Dispensing Station - General Design Criteria

1. The **OILMISER™ Oil Storage & Dispensing Station** (SDS) is a **stand alone** oil room management system
2. The **OILMISER™** SDS requires only an **oil free, pressure regulated** air supply for indoor operation . Maximum recommended air pressure is 80 psi
3. Each SDS is a single ULC® listed, translucent poly tank on an 18" high steel stand with removable drip trays
4. Poly tank capacities are 460 liters (122 gal.), 550 liters (145 gal) and 850 liters (225 gal.)
5. Each SDS has a dedicated air operated diaphragm pump with an inline (non-bypass) oil filter on the outlet port
6. Each SDS will facilitate: **(1)** transferring oil from the oil drum to the poly tank, **(2)** dispensing oil in the poly tank to a portable secondary container, **(3)** Kidney-loop filtration for oil in the poly tank, and **(4)** oil sampling
7. All of the above functions, from 1 to 4, require the air pump to be in operation
8. Each SDS includes two hoses. One end of each is attached to the SDS module
9. The free end of each hose has one half of a Quick Disconnect
10. Hose **H1** (LH side) has the female coupling half **CH1**. The other hose **H2** (RH side) has the male nipple half **NH2**. This prevents any misconnection
11. The correct connection of these hoses will determine the resulting task, i.e. **transferring; dispensing; kidney-loop filtration; oil sampling**
12. Oil samples are taken downstream of the inline filter (**SV**) with the diaphragm pump operating and oil flowing, preferably during kidney loop filtration
13. Each SDS includes the **OILMISER™** 5 micron air filter or, an **OILMISER™ Top End Coupler TEC-4100** (1" NPT) for an alternative air breather supplied by the customer.
14. Each SDS includes a non-metered control handle (**NMCH**) with a Quick Disconnect coupling half (**QC**) for dispensing oil when the air pump is operating
15. Pump flow rate and dispensing time are all a function of oil viscosity, room temperature, and air supply (pressure & scfm). An air flow shut-off valve is included
16. Oil grades up to ISO VG 460 are within normal operating parameters
17. Each SDS requires some on site assembly



USA List Price 01-June-2010	General Description
SDS-460-AF5M-AP100-ILF7512M-QD751-NMCH \$4,890.00	OILMISER™ Oil Storage & Dispensing Station c/w translucent poly tank, 18" Steel stand, drip tray, OILMISER™ 5 micron air filter, 1" diaphragm air pump, a non-bypass oil Filter (3, 6 or 12µ), 3/4" hoses & Quick Disconnects and a Non Metered Control Handel. Accepts all OILMISER™ Color Coded Oil Filters . Not included: air supply controls. On-site assembly required. FOB Richmond, BC Canada
SDS-550-AF5M-AP100-ILF7512M-QD751-NMCH \$4,980.00	
SDS-460-4100-AP100-ILF7512M-QD751-NMCH \$4,965.00	OILMISER™ Oil Storage & Dispensing Station c/w translucent poly tank, 18" Steel stand, drip tray, OILMISER™ 1" NPT TEC, 1" diaphragm air pump, a non-bypass oil Filter (3, 6 or 12µ), 3/4" hoses & Quick Disconnects and a Non Metered Control Handel. Accepts all OILMISER™ Color Coded Oil Filters . Not included: air supply controls. On-site assembly required. FOB Richmond, BC Canada
SDS-550-4100-AP100-ILF7512M-QD751-NMCH \$5,055.00	
SDS-850-AF5M-AP100-ILF7512M-QD751-NMCH \$5,100.00	OILMISER™ Oil Storage & Dispensing Station c/w 850L translucent poly tank, 18" Steel stand, drip tray, OILMISER™ 5 µ air filter (or 1" TEC), 1" diaphragm air pump, a non-bypass oil Filter (3, 6 or 12µ), 3/4" hoses & Quick Disconnects and a Non Metered Control Handel. Accepts all OILMISER™ Color Coded Oil Filters . Not included: air supply controls. On-site assembly required. FOB Richmond, BC Canada
SDS-850-4100-AP100-ILF7512M-QD751-NMCH \$5,180.00	
FDD-1100-5533-QN751 \$195.00	OILMISER™ Drum Dispensing Wand, includes 3/4" QD Nipple & Dust Cove
DWS-1135 \$190.75	OILMISER™ (Drum) Dispensing Wand Stand

The Turn-Key Oil Room

OILMISER™ Oil Storage & Dispensing Station - On-Site Assembly Procedure

(Fig.1) Stand Base with down side facing up



The poly tank is shipped sealed with shipping plugs, strapped to the steel stand base (Fig.1), and shrink wrapped. Four steel shipping legs 4 inches long give fork lift clearance.

All other components are boxed and shrink wrapped on a single pallet.

SDS Fully Assembled less the LH and RH Hoses



(Fig.2) Stand Base with pump hanger installed



The 10 gauge steel pump hanger is pre-formed, and drilled to accept the air pump.

Mounting brackets are welded to the underside of the base. All mounting hardware is included.

Four 18" steel legs replace the 4" shipping legs.

(Fig.3) Stand Base with 18" legs installed



The air pump and inline oil filter are shipped loose for mounting on-site. All fittings and hose adapters are pre-installed. Hose assemblies are shipped loose for mounting on-site. All mounting hardware is included.

The poly tank is captive within the tank stand framework (Fig.4), however steel strapping to the base framework is recommended when in operation in the working location.

SDS Stand with Pump & Inline Filter Installed



(Fig.4) Assembled Tank Stand Upright



With the poly tank in position on the stand, the **LH QN-FD1 FILLorDRAIN™** with an air breather and the **RH QC-FD2 FILLorDRAIN™** with a cap can be positioned and screwed into place using the mounting kits supplied.

The two 3/4" hose assemblies H1-CH1 and H2-NH2 can now be attached to the fixed hose adapters on the SDS frame.

Confirm that the **LH** and **RH** hoses are correctly oriented to the corresponding FILLorDRAIN™.

SDS Stand with Diaphragm Pump Installed



The OILMISER™ Filter Color Code System

Know Your Filter at a Glance

OILMISER™
The OILMISER™ Color Coding System

	25 Micron		3 Micron
	12 Micron		Beta _(x) =75 Microglass Absolute
	6 Micron		Water Absorbing

Filter Replacement Directions

- Turn off all associated machinery
- Depressurize all associated lines
- Apply suitable oil film to top gasket
- Hand tighten until gasket contacts head
- Hand tighten additional half turn

JLM Systems Limited
23091 Westminster Highway
Richmond, BC V6V 1B9

Toll Free: 1-888-RENU-OIL (736-8645)
Internet: www.oilmiser.com



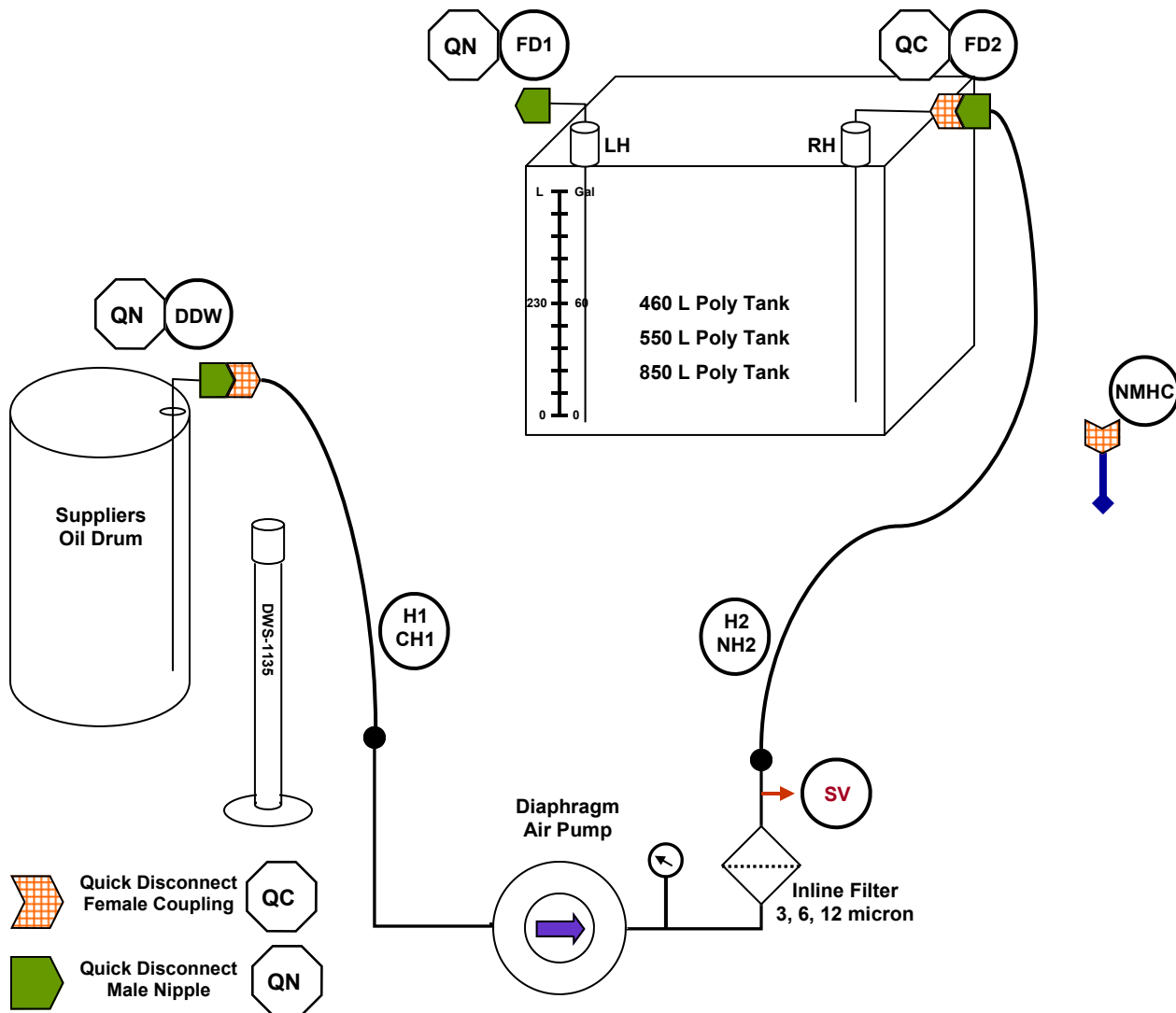
Part No.		Color Code
SFE-3403M	3 Micron Microglass Beta ₍₃₎ = 75	Yellow - Red
SFE-3406M	6 Micron Microglass Beta ₍₆₎ = 75	Orange - Red
SFE-3412M	12 Micron Microglass Beta ₍₁₂₎ = 75	Green - Red
SFE-3403AQ	3 Micron Cellulose Water Absorbing	Yellow - Blue
SFE-3410AQ	10 Micron Cellulose Water Absorbing	Green - Blue



The Turn-Key Oil Room

Transferring from Suppliers Oil Drum to the Poly Tank - Operating Procedures

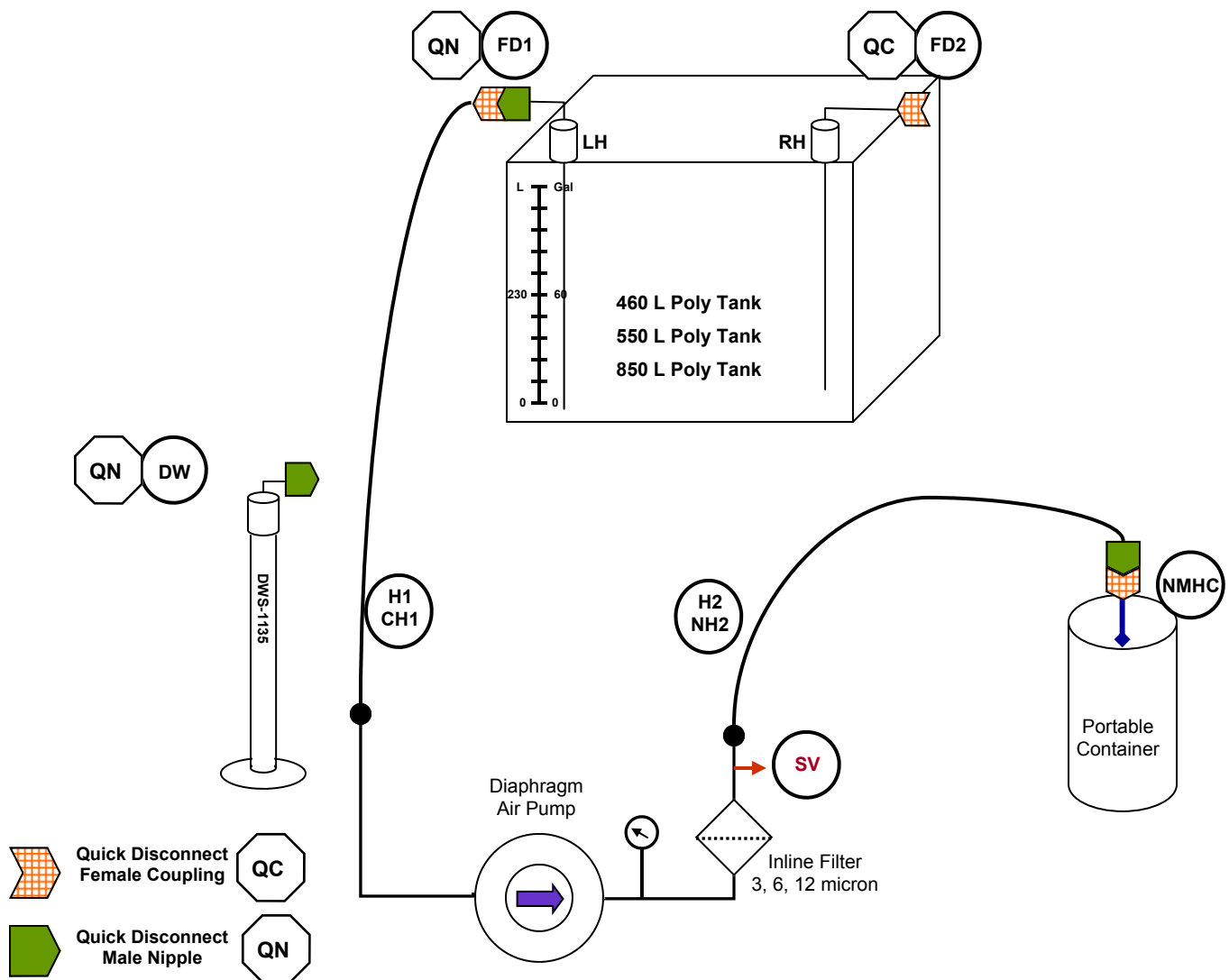
1. Connect the free end of hose H1-CH1 to the **OILMISER™** (Drum) Dispensing Wand QN-DDW
2. Connect the free end of hose H2-NH2 to the **OILMISER™** FILLorDRAIN™ QC-FD2 on the **RH** side
3. Slowly start (control) the air supply (oil free) to the Diaphragm Air Pump with the ball valve supplied
4. Maximum recommended air pressure is 80 psi
5. Confirm that the filter condition indicator is in the operating zone when oil is flowing
6. As oil is transferred from the drum, the rising oil level will be visible in the translucent poly tank
7. This gives a visual reading of the quantity of oil in the tank, and when it can accept the next full oil drum
8. When the oil drum is fully evacuated turn off the air supply
9. Reconnect hose H1-CH1 to the **OILMISER™** FILLorDRAIN™ QN-FD1 on LH side
10. For best practices and good housekeeping, this is the recommended stand-by hose arrangement
11. Store the **OILMISER™** (Drum) Dispensing Wand DDW in the Dispensing Wand Stand DWS-1135
12. Remove the empty drum from the oil room and return to the supplier
13. **Do Not Leave Air Supply On** when oil is not being pumped



The Turn-Key Oil Room

Dispensing from the Poly Tank to a Portable Container - Operating Procedures

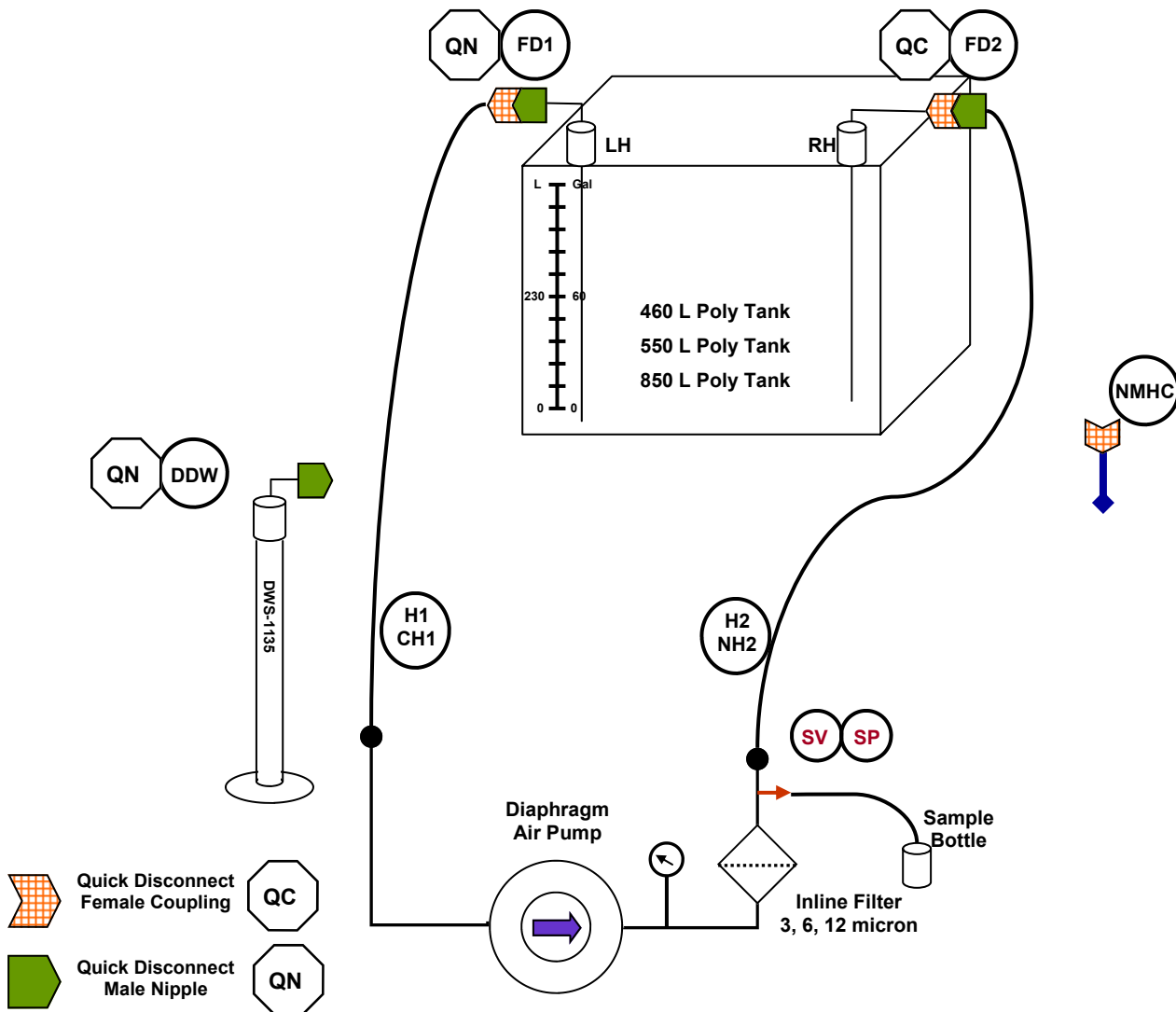
1. Connect the free end of hose H1-CH1 to the FILLorDRAIN™ QN-FD1 on the LH side
2. Connect the dispensing control handle NMHC to the free end of hose H2-NH2
3. Slowly start (control) the air supply (oil free) to the Diaphragm Air Pump with the ball valve supplied
4. Maximum recommended air pressure is 80 psi
5. Squeeze the trigger on the Control Handle NMHC and dispense oil into a portable container
6. Confirm that the filter condition indicator is in the operating zone when oil is flowing
7. Release the trigger on the Hand Held Control Handle MNHC when dispensing is complete
8. Turn off the air supply and stow the dispensing Control Handle in a safe & clean location
9. Reconnect hose H2-NH2 to the FILLorDRAIN™ QC-FD2 on RH side
10. For best practices and good housekeeping, this is the recommended stand-by hose arrangement
11. **Do Not Leave Air Supply On** when oil is not being pumped



The Turn-Key Oil Room

Kidney-Loop Filtration for Oil in the Poly Tank Operating Procedures

1. The recommended *normal stand-by hose connections* are: H1-CH1 to QN-FD1 on the LH side of the poly tank, and H2-NH2 to QC-FD2 for the RH side of the tank
2. Confirm this configuration for kidney-loop filtration and for taking oil samples
3. Slowly start (control) the air supply (oil free) to the Diaphragm Air Pump with the ball valve supplied
4. Maximum recommended air pressure is 80 psi
5. Confirm that the filter condition indicator is in the operating zone when oil is flowing
6. Since the flow rate is dependent on a number of variables: oil viscosity and ambient temperature; air pressure and air flow (scfm), kidney-loop run times will have to be established in-house
7. Oil samples can be collected via the Minimesstest point **SV** with the air pump operating and using the appropriate Sampling Probe **SP-MB25**. Caution: the oil is under some degree of pressure when sampling
8. **Do Not Leave Air Supply On** when oil is not being pumped



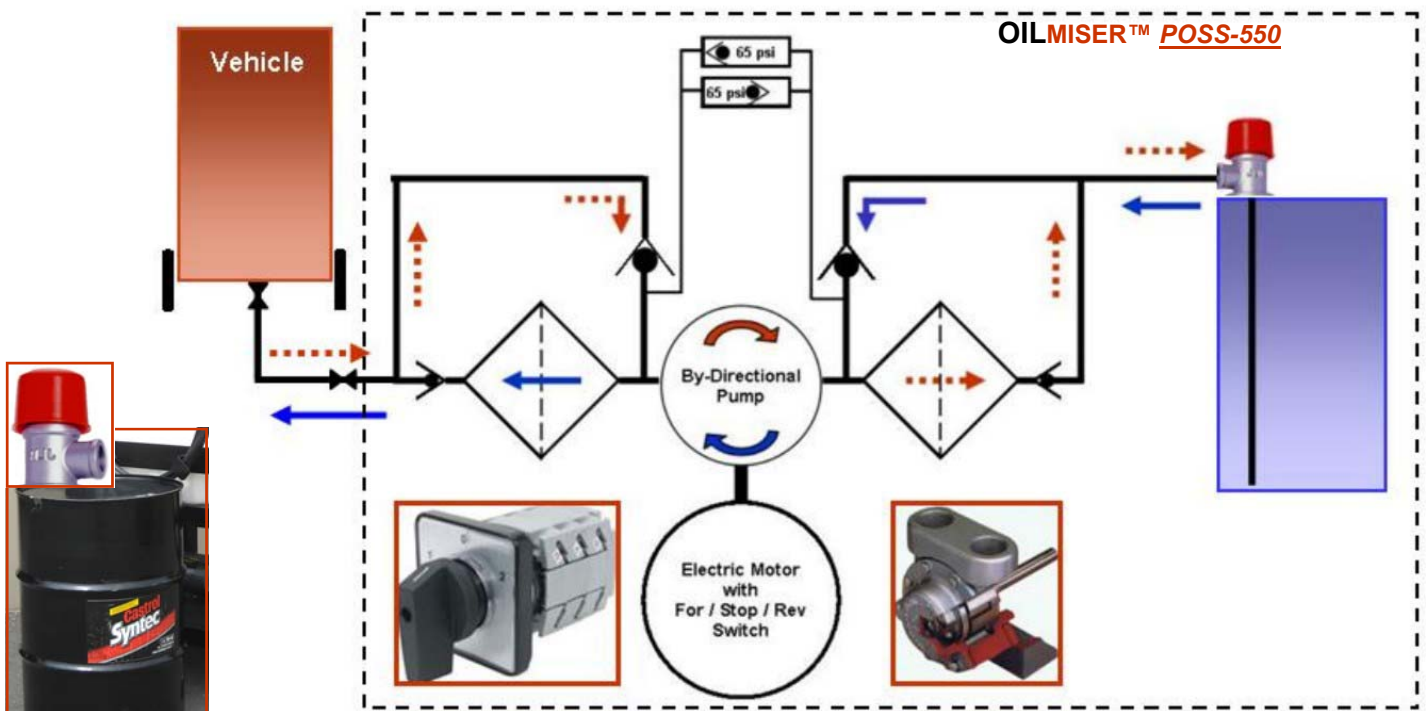
The OILMISER™ Portable Oil Service Station

The OILMISER™ Portable Oil Service Station was designed for the most demanding work place you can find, the service shop for Haul Trucks and Off-Road Equipment, in an operating mine. Purpose built to maximize both efficiency and effectiveness in servicing hydraulic reservoirs, the OILMISER™ Portable Oil Service Station delivers better control, less confusion, more confidence and higher profitability.

A typical scheduled overhaul, generally requires that the oil in the hydraulic reservoir be pumped into a drum or holding tank using the shop transfer buggy or filter cart. When the overhaul is done, the transfer buggy or filter cart is reconnected and the used oil or new oil is pumped back into the reservoir. In these working conditions, connecting, disconnecting, reconnecting and sometimes misconnecting hydraulic hoses can be time consuming, and far too often, the source of more contamination. The OILMISER™ Portable Oil Service Station focuses on both the productivity and the reliability of this procedure, from start to finish.

The heart of our Portable Oil Service Station is the OILMISER™ bi-directional filtration system. Non-bypass, microglass oil filters insure that only filtered oil will be transferred in both directions. The bi-directional filtration system, like kidney-loop filtration, adds confidence to the decision to replace or recycle the used oil. And with the OILMISER™ bi-directional filtration system, only one and the same hose is ever connected to the hydraulic reservoir, saving time and eliminating uncertainty.

The OILMISER™ Portable Oil Service Station, was designed for the work place. The translucent poly tank, the electric motor & pump, hydraulic components, hoses and oil filters are all safely contained within the envelope of a heavy duty steel framework. Include the special features for safe and secure portability, on the shop floor, by fork lift truck, and by overhead crane, and the OILMISER™ Portable Oil Service Station stands alone. Add in OILMISER™ Drum Dispensing technology, and the OILMISER™ (Severe Duty) Plug & Sampling Valve for off-road machinery, and you can close the loop on contamination in the Mining Industry.

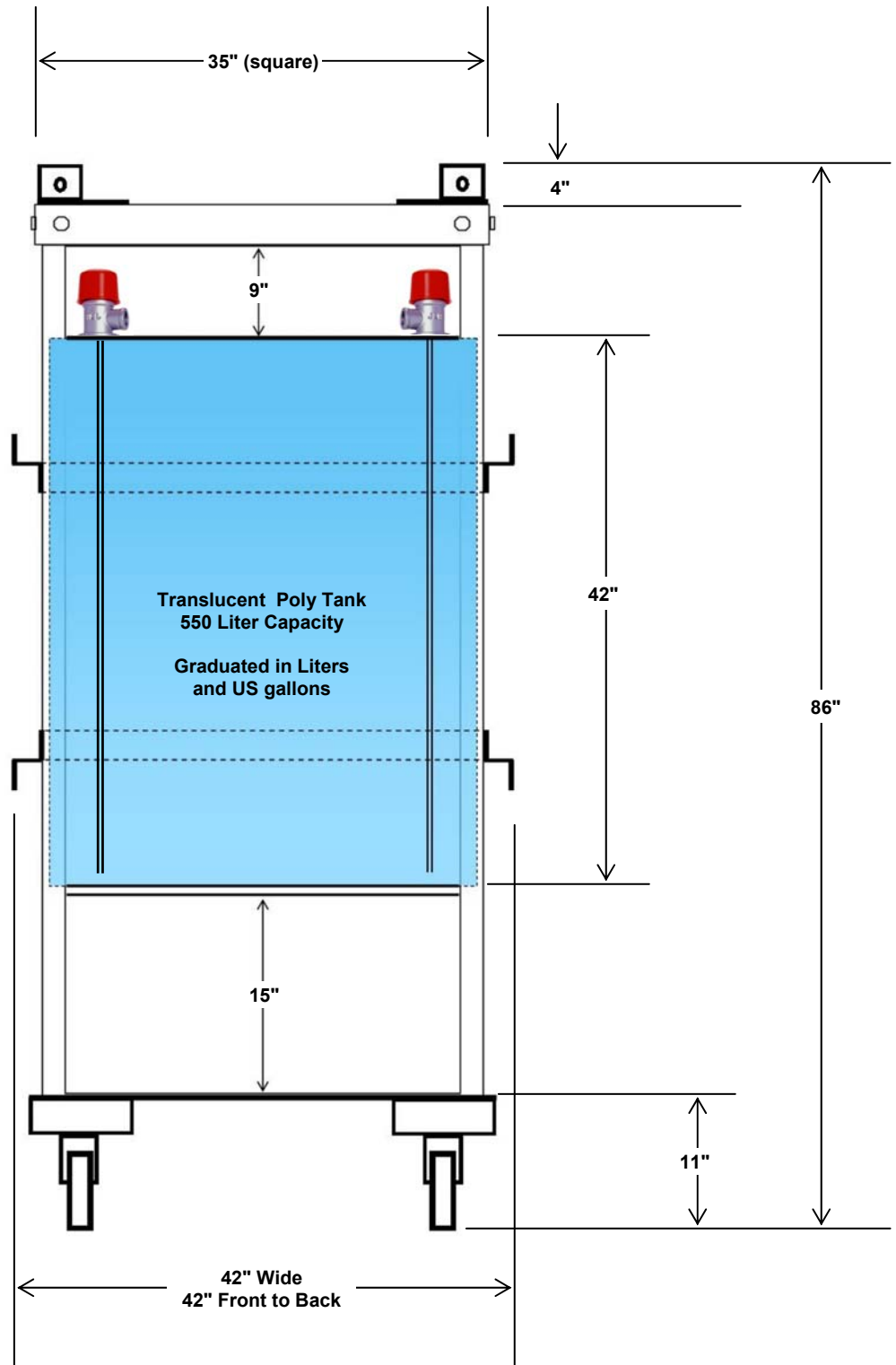


OILMISER™ Portable Oil Service Station

Part Number: POSS-550-(xxxxxx)

POSS-550 Design Features

- An OILMISER™ FILLorDRAIN™, Down Pipe & Quick Disconnect can be included on the LH side for Kidney-Loop Filtration in the Poly Tank. (optional)
- Electric motor reversing switch is pre-wired to the electric motor.
- All (power) cabling and electrical connections from the reversing switch enclosure to a shop (power) receptacle is supplied by the customer unless otherwise specified.
- Includes 25 foot long Vehicle Service Hose with 3/4" (shut-off) Quick Disconnects on each end. (P/N H1W-7575-300-QD751)
- Includes heavy duty steel brackets for coiling the Vehicle Service Hose on the LH side, and the electric power cable on the RH side.
- Includes Steel Lifting Eyes on all 4 corners of removable steel top for safe and secure transport by Over Head Crane
- Includes full length Fork Tunnels for safe and secure transport by lift truck. Accessible from front or back
- Includes 6" High Density (900 Lb.) Poly-on-Steel wheels: 2 solid at back, 2 swivel/locking on front
- Dry Weight - 1100 Lb



OILMISER™ Portable Oil Service Station

Part Number: POSS-550-(xxxxxx)

LH Side Details

RH Side Details

