

# LCS

## Liquid Conditioning Station

Begin filtration and contain contamination before it ever enters your plant to protect your equipment and your bottom line. Built with your convenience in mind and completely customizable for size and fluids, the LCS is a complete contamination solution for hydraulic and lube oil storage and handling.



[hyprofiltration.com/](http://hyprofiltration.com/)

## Everything you need. Within arms reach.

Your day at work is hard enough. That's why we've built the LCS with your convenience in mind. Everything you need, conveniently placed for maximum accessibility. From start-up to clean up, all of your daily activities come without the need for a ladder.



## Say goodbye to cross contamination.

Dedicated pump, filter and plumbing for each tank maintain fluid integrity and allow multiple fluids to be filtered exclusively and simultaneously.



## The best in filtration<sup>3</sup>.

Filter fluids as they are added to and dispensed from the reservoirs. Recirculate fluids inside the reservoirs for a third level of unparalleled fluid cleanliness and unimaginably low ISO Codes. And with DFE rated media options down to  $\beta_{3(C)} \geq 4000$  you can be sure contamination stays exactly where you want it: out of your fluid.



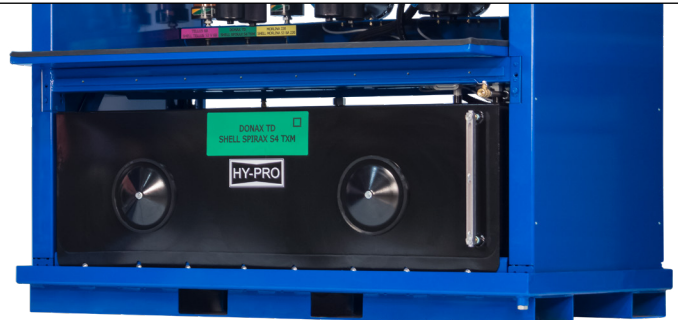
## Take control of your systems.

The definition of brains and brawn, the control panel on the LCS regulates all the system operations so you can filter and dispense your fluids worry-free. Tucked back and out of the way, once you're up and running you might as well forget it's even there.



## Size matters.

Packed with as many reservoirs as your heart desires, the LCS is a behemoth with power that can't be denied. With space for 70 gallons of fluid in each standard reservoir, you can kiss the rows of scattered oil drums goodbye. Or if 70 gallons isn't enough for you, reservoirs can be sized up to 250 gallons so you'll have all your fluids clean, dry, and in one place.



## Perfectly tailored to fit your needs.

Label designs, symbols and colors are tailored for each fluid to fit your existing safety and identification standards. To take it even further, each filtration system is set up specifically for the type and viscosity of its specific fluid, meaning you get the perfect contamination solutions for each and all of your fluids.



## Minimize the mess.

Dual drip pans allow draining spent filters directly within the Workstation, eliminating oily filter transfer and subsequent oil clean-up.



## Setting the new standard.

Sampling and preventative maintenance are no longer optional, they're a necessity. Knowing your fluids are clean is the first step in prolonging the life of your systems and critical components. That's why every LCS comes standard with easy-to-access sample ports in their proper positions so you can always know you're putting clean oils into your systems.



## A breath of fresh air.

With built in check valves (0.1 psi, 0.007 bar) to maximize lifespans, Hy-Dry desiccant breathers on each reservoir help remove water contamination from your oils and prevent cross contamination between fluids.



## Let there be light.

Integrated LED lights illuminate the Workstation for dispensing fluid, changing elements and reading gages even in poorly lit environments.

## Built for industrial use.

Rated to hold 5000 pounds each, the tiered shelves and rock solid frame will handle your plant's filtration needs without breaking a sweat.

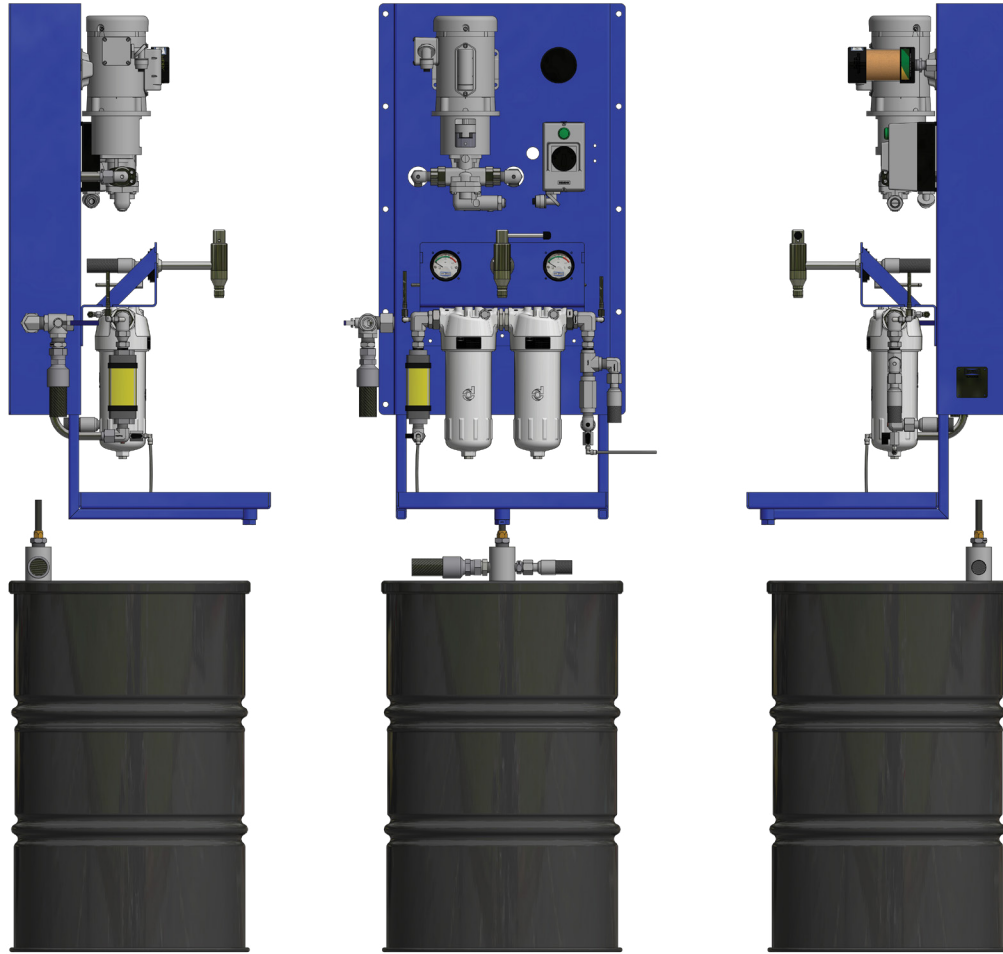


## LCSX Add-on Kit

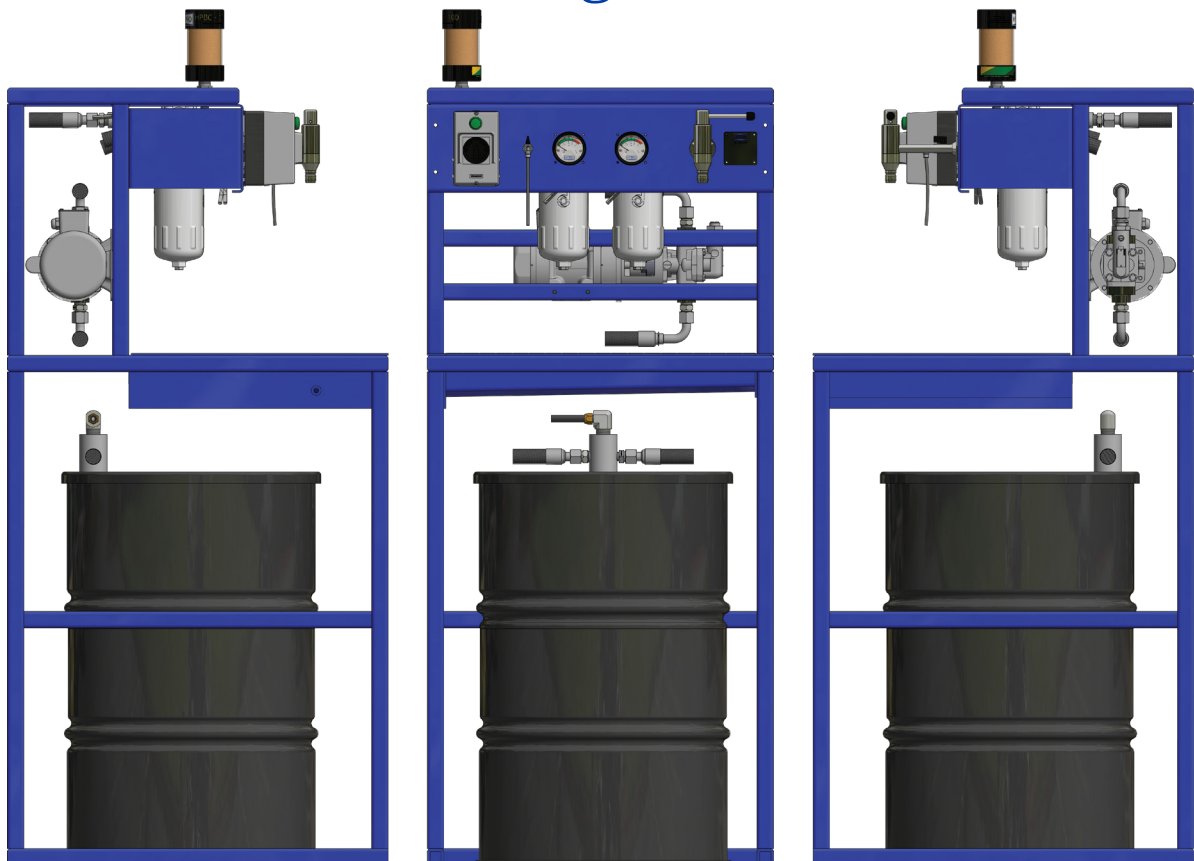
For applications with existing tanks or for building your own lube room, the LCSX Add-on Kit provides all the filtration of the LCS in a self-contained, drop-in platform perfect for as many units as you desire and expanding on your time.



# LCSW Installation Drawings



# LCSB Installation Drawings



# LCS Specifications

## Consult Factory for Part Numbers & Pricing

Model	LCS2	LCS4	LCS6			
Height	96" (244 cm)	96" (244 cm)	96" (244 cm)			
Width	50" (127 cm)	88" (235 cm)	112" (285 cm)			
Depth	60" (152 cm)	60" (152 cm)	60" (152 cm)			
Inlets	1" FNPT	1" FNPT	1" FNPT			
Outlets	Open Nozzle + 3/4" Male QD	Open Nozzle + 3/4" Male QD	Open Nozzle + 3/4" Male QD			
Filter Element Configuration	S75 Spin-On, S75D Spin-On, MF3, MF90, MF110 and optional 2 stage systems available					
Seals	Fluorocarbon or Nitrile (Buna)	Fluorocarbon or Nitrile (Buna)	Fluorocarbon or Nitrile (Buna)			
ΔP Gages	Sliding, Pop-Up, Visual 0-25 psid (1.7 barg) available.					
Operating Pressure	150 psi (10 bar) maximum standard					
Operating Temperature	50°F to 100°F (10°C to 38°C)	50°F to 100°F (10°C to 38°C)	50°F to 100°F (10°C to 38°C)			
Materials of Construction	<b>Reservoirs</b> Industrial coated steel	<b>Facing</b> Industrial coated steel	<b>Frame</b> Powder coated steel	<b>Grate</b> Aluminum	<b>Plumbing</b> Plated steel hydraulic fittings + stainless tubing	<b>Hoses</b> Reinforced synthetic
Reservoir Size	70 gal (265 liter), 150 gal (568 liter), 250 gal (946 liter) available standard. Contact factory for additional sizes.					
Electric	cUL listed industrial control panels. All voltages available.					
Electric Motors	TEFC, 56-184 frame 0.5-1 hp, 1200-1500 RPM		TEFC, 56-184 frame 0.5-1 hp, 1200-1500 RPM		TEFC, 56-184 frame 0.5-1 hp, 1200-1500 RPM	
Motor Starter	MSP (motor starter/protector) with short circuit and overload protection.					
Pumps	Cast iron, positive displacement gear pump with internal relief. Maximum pressure on pump inlet 15 psi (1 bar). Consult factory for higher pressures.					
Pump Bypass	Full bypass at 150 psi (10 bar) <sup>2</sup>					
Media Description	<b>M</b> G8 Dualglass, our latest generation of DFE rated, high performance glass media for all hydraulic & lubrication fluids. $\beta_{x_{10}}$ ≥ 4000		<b>A</b> G8 Dualglass high performance media combined with water removal scrim. $\beta_{x_{10}}$ ≥ 4000		<b>W</b> Stainless steel wire mesh media $\beta_{x_{10}}$ ≥ 2 ( $\beta_x$ ≥ 2)	
Viscosity	10-5000 cSt					
Fluid Compatibility	Petroleum and mineral based fluids (standard). For polyol ester, phosphate ester, and other specified synthetic fluids use fluorocarbon seal option or contact factory.					

For all up to date option details and compatibilities, please reference our Contamination Solutions Price List or contact customer service.



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# LCSB/LCSW Specifications

## Consult Factory for Part Numbers & Pricing

Model	<b>LCSB</b>		<b>LCSW</b>		
Height	70.5" (179 cm)		60" (152 cm)		
Width	32" (81 cm)		27.5" (70 cm)		
Depth	35" (89 cm)		24" (61 cm)		
Inlets	1" FNPT		1" FNPT		
Outlets	Open Nozzle + 3/4" Male QD		Open Nozzle + 3/4" Male QD		
Filter Element Configuration	S75 Spin-On, S75D Spin-On, MF3, MF90, MF110 and optional 2 stage systems available				
Seals	Fluorocarbon or Nitrile (Buna)		Fluorocarbon or Nitrile (Buna)		
ΔP Gages	Sliding, Pop-Up, Visual 0-25 psid (1.7 bard) available.				
Operating Pressure	150 psi (10 bar) maximum standard				
Operating Temperature	50°F to 100°F (10°C to 38°C)		50°F to 100°F (10°C to 38°C)		
Materials of Construction	<b>Facing</b> Industrial coated steel	<b>Frame</b> Powder coated steel	<b>Grate</b> Aluminum	<b>Plumbing</b> Plated steel hydraulic fittings + stainless tubing	<b>Hoses</b> Reinforced synthetic
Electric	cUL listed industrial control panels. All voltages available.				
Electric Motors	TEFC, 56-184 frame 0.5-1 hp, 1200-1500 RPM		TEFC, 56-184 frame 0.5-1 hp, 1200-1500 RPM		
Motor Starter	MSP (motor starter/protector) with short circuit and overload protection.				
Pumps	Cast iron, positive displacement gear pump with internal relief. Maximum pressure on pump inlet 15 psi (1 bar). Consult factory for higher pressures.				
Pump Bypass	Full bypass at 150 psi (10 bar) <sup>2</sup>				
Media Description	<b>M</b> G8 Dualglass, our latest generation of DFE rated, high performance glass media for all hydraulic & lubrication fluids. $\beta_{x_{1Q}} \geq 4000$	<b>A</b> G8 Dualglass high performance media combined with water removal scrim. $\beta_{x_{1Q}} \geq 4000$	<b>W</b> Stainless steel wire mesh media $\beta_{x_{1Q}} \geq 2$ ( $\beta_x \geq 2$ )		
Viscosity	10-5000 cSt				
Fluid Compatibility	Petroleum and mineral based fluids (standard). For polyol ester, phosphate ester, and other specified synthetic fluids use fluorocarbon seal option or contact factory.				

For all up to date option details and compatibilities, please reference our Contamination Solutions Price List or contact customer service.

\*Barrel is not included.



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# Filtration starts with the filter.

**Lower ISO Codes: Lower Total Cost of Ownership** Hy-Pro filter elements deliver lower operating ISO Codes so you know your fluids are always clean, meaning lower total cost of ownership and reducing element consumption, downtime, repairs, and efficiency losses.

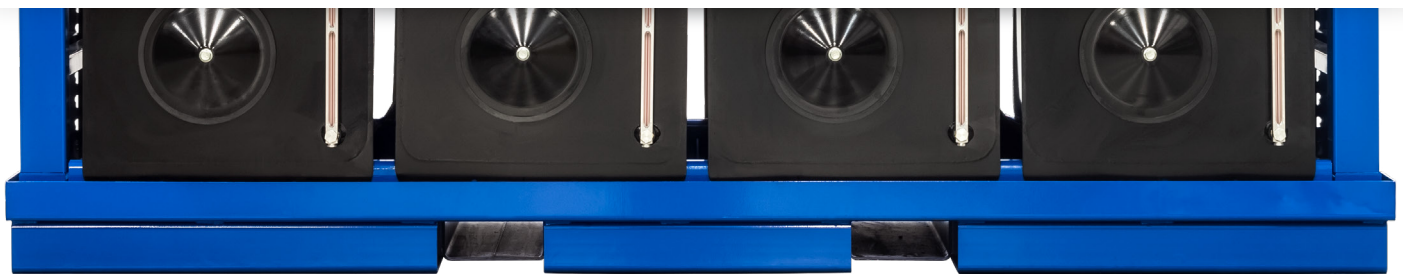
**DFE Rated Filter Elements** DFE is Hy-Pro's proprietary testing process which extends ISO 16889 Multi Pass testing to include real world, dynamic conditions and ensures that our filter elements excel in your most demanding hydraulic and lube applications.

**Upgrade Your Filtration** Keeping fluids clean results in big reliability gains and upgrading to Hy-Pro filter elements is the first step to clean oil and improved efficiency.

**Advanced Media Options** DFE glass media maintaining efficiency to  $\beta_{3\mu} > 4000$ , Dualglass + water removal media to remove free and emulsified water, stainless wire mesh for coarse filtration applications, and Dynafuzz stainless fiber media for EHC and aerospace applications.

**Delivery in days, not weeks** From a massive inventory of ready-to-ship filter elements to flexible manufacturing processes, Hy-Pro is equipped for incredibly fast response time to ensure you get your filter elements and protect your uptime.

**More than just filtration** Purchasing Hy-Pro filter elements means you not only get the best filters, you also get the unrivaled support, training, knowledge and expertise of the Hy-Pro team working shoulder-to-shoulder with you to eliminate fluid contamination.



**Want to find out more? Get in touch.**

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