



# Advanced Fluid Systems, Inc

Fluid Power & Motion Control Solutions

## The Hy-Pro VAC-U-DRY Process

Contaminated oil is drawn into the VAC-U-DRY system by a high output vacuum pump. The oil passes through the low watt density heater where it is heated to an optimum temperature for the dehydration process (150°F, 66°C). The oil enters the vacuum chamber passing through specially designed dispersal elements which create a thin film of oil that is exposed to the vacuum. The water is vaporized and then drawn into the condenser where it becomes liquid and drains into the condensate tank. The dehydrated oil flows to the bottom of the vacuum chamber and is pumped through the high efficiency particulate filter and returned to the system.

**Water Removal:** 100% Free  
90% Dissolved (20ppm / .0020%)

**Air and Gas Removal:** 100% Free  
90% Dissolved

**Particulate Removal:** 1 Micron Absolute Available  
(ISO 14/12/9, 1 micron @ β200)

**Worry-Free Operation:** Real-time digital display of dissolved water. Dual condensate water tanks with automatic drain for 24/7 unattended operation.

**Easy Setup:** Automatic electric phase reversal; programmable thermostat; and smart relays with controlled start-up and shut-down.

**Free Support:** On site start-up support included free of charge on rentals in the Mid-Atlantic and New England regions.









## Contact Us:

**By Phone: 717-757-1068**

**sales@advancedfluidsystems.com**

# Hydraulic Filtration System Rental

*...Quickly and safely remove water, gases and particulate.*

Model	FC2	V1	V10	V20
Full Model Code	FC212M1MVWB	V1P12D3MV1A-LTV	V10C46D3MV24A-ADFJLMRTUVW	V20C46D6MV36A-ADFJKLRTUVW
<b>HY-PRO</b>				
				
<b>Reservoir Volume</b> <sup>1</sup>	Up to 1000 Gallons	Up to 200 Gallons <sup>2</sup>	100 to 4000 Gallons	100 to 6000 Gallons
<b>Flow Rate</b>	11.2 GPM	.5 to 1.8 GPM	2 to 10 GPM	5 to 20 GPM
<b>Water Removal</b>	Free Water (w/special element)	100% Free, 90%+ Dissolved (20 ppm)	100% Free, 90%+ Dissolved (20 ppm)	100% Free, 90%+ Dissolved (20 ppm)
<b>Air / Gas Removal</b>	None	100% Free, 90%+ Dissolved	100% Free, 90%+ Dissolved	100% Free, 90%+ Dissolved
<b>Particulate Removal</b> <sup>3</sup>	1 Micron Absolute Standard	1 Micron Absolute Standard	6 Micron Absolute Standard	6 Micron Absolute Standard
<b>Seal Material</b> <sup>4</sup>	Viton	Viton	Viton	Viton
<b>Weight (crated)</b>	175 lbs.	425 lbs.	1900 lbs.	2,100 lbs.
<b>Dimensions</b>	57" x 21" x 19"	48" x 28" x 32"	56" x 32" x 60"	72" x 36" x 60"
<b>Electrical Req.</b>	110/120 VAC, 50/60 Hz	120VAC, 60Hz	460VAC, 3PH, 60Hz	460VAC, 3PH, 60Hz

<sup>1</sup> Reservoir volume is recommended for timely cleaning.

<sup>2</sup> The Hy-Pro V1 VAC-U-DRY is not recommended for larger fluid volumes that are less than 140° F.

<sup>3</sup> Micron sizes are based on a Beta (β) ratio of 200. Beta ration 1000 values are available.

<sup>4</sup> An Advanced Fluid Systems' representative will contact you regarding your fluid type, viscosity and operating conditions.

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## Filtration Rental F.A.Q

**Can the VAC-U-DRY ("V") units be used on lubrication fluids?** Yes. Hy-Pro vacuum dehydrators are effective with most non-water based hydraulic, lubrication and transformer fluids. We will verify that your fluid type and viscosity is suitable prior to your rental.

**Can I use the filtration system on multiple systems during the rental period?** Yes. All of our filtration rentals are mounted on wheels for portability. If you are filtering different oil types, all of the elements must be replaced.

**How is the rental period calculated?** The rental period begins the day after the unit leaves our facility and ends the day we receive it back.

**Can I purchase my rental unit?** Most rental units are available for purchase at a significant discount. Ask us for additional information.

## AFS Hydraulic Filtration Rental Pricing Chart

Model	FC2	V1	V10	V20
<b>Full Model Code</b>	FC212M1MVWB	V1P12D3MV1A-LTV	V10C46D3MV24A-ADFJLMRTUVW	V20C46D6MV36A-ADFJKLRTUVW
<b>Per Month</b>	Call	\$ 1,690	\$ 3,430	\$ 5,450
<b>Per Week</b>	\$ 760	\$ 445	\$ 1,100	\$ 1,435
<b>Per Day</b>	\$ 140	\$ 70	\$ 195	\$ 220
<b>Min. Rental Period</b>	None	3 Days	3 Days	3 Days
<b>Element #1 (Particulate)</b>	HP75L8-12MV <i>(call for current pricing)</i>	HP76L8-3MV <i>(call for current pricing)</i>	HP107L36-6MV <i>(call for current pricing)</i>	HP107L36-6MV <i>(call for current pricing)</i>
<b>Element #2 (Dispersal)</b>	HP75L8-1MV <i>(call for current pricing)</i>	HPDEL11 <i>(call for current pricing)</i>	HPDEL22 (Set of 3) <i>(call for current pricing)</i>	HPDEL22 (Set of 4) <i>(call for current pricing)</i>
<b>Own your own</b>	Ask about "rent-to-own" rentals or price and availability on a new unit custom to your needs.			

### Example Scenario: Renting a V10 Hy-Pro VAC-U-DRY Vacuum Dehydrator

The cost of a filtration system rental includes the cost of the rental period and any consumable elements used during the rental period. Each rental requires a new set of particulate and dispersal(set) elements. Additional elements may be required depending on the fluid condition and length of rental/operation. The system will indicate when an element change is required.



The example (right), supposes you rented a V10 VAC-U-DRY system for a total of 18 calendar days (2 weeks and 4 days). During that period the system did not require you to change the dispersal elements (Total: 1 set of (3) elements), however the particulate element was replaced once (a total of 2 used). Using the table above we can calculate the total rental cost of \$4,560.00.

Additional costs would include freight to and from York, PA and a \$500 security deposit fee for loss or damage of the shipping container.

### Example: V10 Filtration Rental Pricing

	Unit Price	Ext. Price	
Rental	(2) weeks :	\$ 1,100	\$ 2,200
	(4) days :	\$ 195	\$ 780
	<b>Rental Total :</b>		\$ 2,980
Consumables	(2) HP107L36-6MV:	\$ 450.00*	\$ 900.00
	1 Set of (3) HPDEL22 :	\$ 680.00*	\$ 680.00
	<i>* Example Element Pricing Only Call for current pricing</i>		\$ 1,580.00
<b>Total Rental Cost</b>			<b>\$ 4,560.00</b>
Security Deposit **			\$500
+ Freight		Shipping costs to and from York, PA	

\*\* Security deposit applies to the loss or damage of the original shipping container.

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