



## PVS 4120 Portable Samplers

*Easy-to-use, Accurate, Durable, Dependable*

Portable sampling has never before been so easy! The PVS 4120 is the lightest sampler ever, weighing in at a mere 23 pounds!\*

 These samplers are compact, yet maintaining the same, reliable, long-lasting vacuum technology as the stationary samplers which SIRCO is renowned for. The vacuum system of sampling results in accurate and dependable results, even with high sediment content or rapid velocities at the sample source. The PVS 4150 portable model features composite sampling and a programmable controller with 16-key intuitive touchpad.

The pump in the PVS 4120 is smaller than the larger models, which also requires a much smaller battery (4 pounds as opposed to 15), lightening the total weight even more. The light-weight pump is able to take samples at over 4.5 ft/sec for horizontal draws of up to 25 feet, and exceeds 3 ft/sec in the first 3 feet of vertical.

A rugged design and precision in construction give these portable samplers the ability to be set up in one location over time, yet they are easily transportable.

The enclosure of the PVS 4120 is a molded medium-density linear polyethylene, designed to handle tough environmental challenges and weathering. The hub has an insulated ring and a cavity for crushed ice, giving more control over the temperature of the samples.

\* Weight does not include 4 Lbs battery.



## THE LIGHTEST AUTOMATIC SAMPLER IN THE WORLD!\*

### Features

- Controller housed in an environmentally sealed enclosure for corrosion protection, and all information is easily controlled and viewable on a 2x16 character backlit LCD.
- Rapid transport velocities of samples (over 4.5 ft/sec for horizontal draw of up to 25 ft and 2.5 ft/sec for vertical sample lifts of up to 15 ft), meaning more accurate samples, even of solids over high lifts.
- Optional hand cart / tilt wheel assembly for easy transport.
- Side handles for easy lifting.
- Three-year warranty.

\* At 23 Lbs. plus 4 Lbs. battery, the PVS 4120 is the lightest automatic sampler than can take discrete samples in a cooled environment over time.



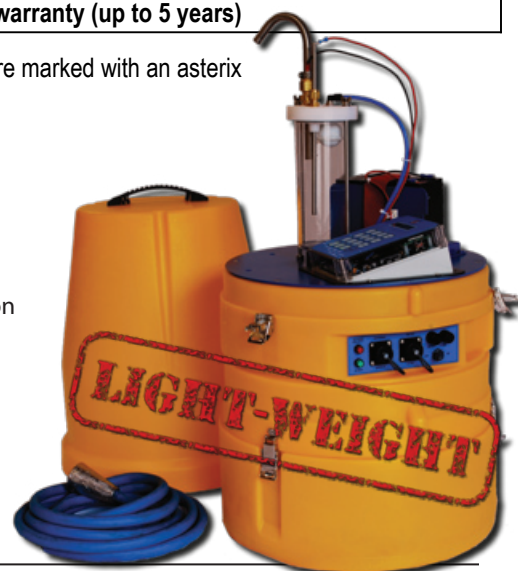
# SIRCO PVS 4120 PORTABLE SAMPLER

Sampler		Vacuum System	
<b>Height</b>	31.875 inches 809 mm	<b>Pinch Valve</b>	Fixed – normally open
<b>Body Case Diameter</b>	16.85 inches 428 mm	<b>Purge Cycle</b>	Adjustable – 5 to 99 seconds
<b>Weight (without battery)</b>	23 lbs 10.4 kg	<b>Suction cycle</b>	Variable – adjusts automatically to double the input value of the purge time setting or until liquid contacts level electrode in metering chamber
<b>Enclosure</b>	Molded medium density linear polyethylene, 3 piece construction and all SS fittings.	<b>Sample Volume</b>	Adjustable, 50cc to 500cc
<b>Supply Voltage</b>	<b>Integral Battery:</b> 12 Vdc 7 AH (4 lbs) <b>External receptacle:</b> 12 Vdc * 120 Vac/12 Vdc with external battery charger and power cable	<b>Sample Transport Velocity</b>	<b>Vertical:</b> Minimum of 2.5ft/s at 20ft of lift (3/8" ID intake) <b>Horizontal:</b> minimum 4.5 ft/sec at 75 ft
<b>Cooling System</b>	Insulated container wall Cavity space for ice	<b>Metering Chamber</b>	Acrylic 500cc, 100cc calibration * Pyrex 500cc, 100cc calibration
Controller		<b>Metering Chamber Cover</b>	Nylon * Reinforced Teflon top
<b>Display</b>	2x16 character backlit LCD	<b>Volume Control Tube</b>	316 stainless steel
<b>Touchpad</b>	16-key, calculator-type with multi-level menus	<b>Metering Chamber Level</b>	316 stainless steel
<b>Start Delay</b>	Disabled; Time/Day; Pulse Count; 4-20mA (0-100 pulses/minute); External Contact; Level Control	<b>Electrode</b>	
<b>Sample Initiation</b>	Disabled; Interval Time; Pulse Count; 4-20mA (0 to 100 pulses/minute); External Contact	<b>Intake Hose</b>	Nylon reinforced PVC (3/8"ID by 25' c/w sinker)
<b>Program Type</b>	Composite; Multi-Composite; Consecutive; Daily Cycle; Timed Step	<b>Discharge Hose</b>	Latex, 3/8" ID * Silicone, 3/8" ID
<b>Clock</b>	Real Time clock & operating system	<b>Sample Containers (composite only)</b>	* 2.3 US gallon (9 litre) high density polyethylene
<b>Direct Function Keys</b>	Manual sample; Manual purge; Manual bottle advance; Restart	<b>Sample Container (discrete only)</b>	24 x 500cc polyethylene
<b>Switches</b>	Controller "on/off" (SPST toggle)	Options	
<b>Available displays</b>	Real time clock; Process timing; Process totals; Pulse counting; Event response; Multi-level descriptions; Flashing prompts; Diagnostics	<b>Extra Battery</b>	12Vdc 7AH (4 lbs)
<b>Automatic displays</b>	Container Full; Fault; Power Interrupt (program resumed); Alternating Time Stamp; Cycle(s) abandoned	<b>External Charger</b>	For charging in two locations
<b>Backup Power Source</b>	Internal Lithium battery to maintain program settings & info in the case of power failure	<b>Tilt Wheel Assembly</b>	For easy wheeled transport
		<b>Optional Side Handles</b>	For easier carrying (increases diameter)
		<b>Other custom options available upon request</b>	
		<b>Optional extended warranty (up to 5 years)</b>	

\* Optional features are marked with an asterix

## Specifications

Effluent/liquid sampling unit is to be of the vacuum-type mode of operation, for the collection of liquids at user-specified criteria. Portable unit will have an enclosure of medium-density linear polyethylene or equivalent. Vacuum system is to include a pressure purge before sampling in order to keep system free from contaminants. Control pad will be able to initiate sampling based on user criteria, including but not limited to 4-20mA, interval time, external contact, and manual override. Sampler to be manufactured in Canada or the United States only, and have a three (3) year warranty. Sampling unit to be a PVS 4120 Sirco Sampler manufactured by Southwell, or approved equivalent.



**SIRCO** SAMPLERS

Manufactured by:

**SouthwellCorp**  
www.southwellcorp.com

Tel: 604-980-3688

Fax: 604-980-6578

Toll Free: 877-984-7788

sales@southwellcorp.com

www.sircosamplers.com

**USA**

4152 Meridian St. Ste 105 #455  
Bellingham, WA 98226

**Canada**

857 West 3rd St.  
North Vancouver, BC V7P 1E3