Southwell Samplers

PVS 4150 SIRCO Portable Samplers

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

The SIRCO PVS 4150 is Southwell's lightweight portable solution for sampling, built with the same, reliable, long-lasting vacuum technology as the stationary samplers. 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 PVS 4150 samplers are designed to fit a variety of different locational challenges. A rugged design and precision in construction give these samplers the ability to be set up in one location over time, yet they are easily transportable.

The PVS 4150 portable samplers are enclosed in a heavy duty Hardigg Storm Case complete with telescoping handle and wheels for ease of transport.

The enclosure is manufactured with Hardigg HPX® high performance resin, easy Press & Pull latches and durable soft-grip handles, They are the most comfortable, toughest transport cases available designed to handle tough environmental challenges and weathering.

Code	Type
C	Composite
M	Multi Function Input Controller
1	3/8" ID x 500cc Metering Chamber
B	8 Litre (2 US Gallons) Nalgene Container
1	iM2750 Enclosure
B	Vacuum Pressure Gauge
J	12 VDC Battery with Charger

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 lifts of up to 25 and 2.5 ft/sec for vertical sample lifts of up to 15 ft), meaning more accurate samples, even of solids over high lifts.
- Housing benefits include: Four Press & Pull Latches, Three Double-layered, Soft-grip Handles, Two Padlockable Hasps, In-line Wheels, Telescoping Handle, Vortex® Valve, Flush Powerful Hinges, Lightweight Strong HPX® Resin, Watertight
- Two-year warranty.

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Sampler		
Height	24.6 inches	625mm
Width	19.7 inches	500mm
Depth	14.4 inches	366mm
Weight (incl battery)	39.5 lbs	19.3 kg
Enclosure	HPX high performance resin. Press & pull latches and soft-grip handles	
Supply Voltage	Integral battery: 12 VDC with charger and cable	
Cooling System	Cavity space for two Zero-Pak (#12396)	

Controller	
Display	2x16 character backlit LCD
Touchpad	16-key, calculator-type with multi-level menus
Start Delay	Disabled; Time/Day; Pulse Count; 4-20mA (0 to 100 pulses/minute); External Contact
Sample Initiation	Disabled; Interval Time; Pulse Count; 4-20mA (0 to 100 pulses/minute); External Contact
Program Type	Composite; Multi-Composite; Consecutive; Daily Cycle; Timed Step
Clock	Real time clock & operating system
Direct Function Keys	Manual Sample; Manual purge; Restart
Switches	Controller “on/off” (SPST toggle)
Available Displays	Real time clock: Process timing; Process totals; Pulse counting; Event response; Multi-level descriptions; Flashing prompts; Diagnostics
Automatic Displays	Fault; Power interupt (program resumed); Alternating time stamp; Cycle(s) abandoned
Backup Power Source	Internal lithium battery to maintain program settings & info in case of power failure

Vacuum System	
Pinch Valve	Fixed: normally open
Purge Cycle	Adjustable: 5 - 99 seconds
Suction Cycle	Variable: adjusts automatically
Sample Volume	Adjustable: 50cc to 200cc
Sample Transport Velocity	Horizontal: minimum 4.5 ft/sec @ 20 ft Vertical: minimum 2.5 ft/sec @ 15 ft (max 22 ft lift)
Metering Chamber	Acrylic 250 cc w/Teflon reinforced top 50/100/200 cc calibration
Volume Control Tube	316 Stainless Steel
Metering Chamber Level Electrode	316 Stainless Steel
Intake Hose	Nylon reinforced PVC (3/8” ID by 20’ c/w sinker
Discharge Hose	Latex, 3/8” ID
Sample Container	2 US Gallon (8 liter) high density polyethylene (Nalgene)
Pressure Gauge	WIKA vacuum/pressure gauge

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 high performance resin 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 two (2) year warranty. Sampling unit to be a PVS 4150 Southwell (Sirco) Sampler manufactured by Southwell, or approved equivalent.

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