



BVS 4300 Outdoor Stationary Samplers

Easy-to-use, Accurate, Durable, Dependable

The BVS 4300 Outdoor Stationary Sampler is designed to handle extreme conditions in the toughest of environments and take samples reliably for years and years with little to no maintenance cost. Simply put, they are built tough.

The enclosure is made with durable, heavy-gauge steel or stainless steel, coated with heat-cured polyester-based powder paint for added corrosion resistance.

The sampler uses Southwell's patented vacuum sampling method of collection, the most accurate and reliable system for collecting liquid samples to date. While EPA requirements are for a minimum speed of 2.5 ft/sec, SIRCO samplers can pull at over 4 ft/sec for sample lifts of 20 ft and over 5 ft/sec for horizontal draws at 100 feet!

With a multitude of options, samplers can be made to handle the toughest of applications, including a strong pyrex metering chamber, a teflon-lined hose, a teflon reinforced cover, or a stainless steel sinker strainer.

Available in 3/8" ID intake hose, or 5/8" ID intake hose for more difficult sampling situations.



Features

- Easy-to-use controller constructed to last dependably for decades through most conditions.
- Locking door & bolted down instrument panel, for added security and safety.
- Pull-out tray, useful for maintenance technicians who can easily inspect the modular components of the sampler system.
- Optional cabinet insulation and a thermostatically-controlled forced-air heater, for colder weather climates.
- Dual-system options: two metering chambers and sample containers with either single or dual controllers.
- Nearly all parts & upgrades have been designed to retro-fit previous models for easy upgrading of old samplers!
- Three-year warranty (one-year for the refrigerator).

CODE	TYPE	CODE
C	COMPOSITE	C
D	DISCRETE	D
CODE	MICROPROCESSOR	
M	MULTI-FUNCTION INPUT CONTROLLER (STANDARD)	M
X	SPECIAL SOFTWARE	X
CODE	METERING CHAMBER ASSEMBLY - (ACRYLIC STANDARD)	
1	3/8 ID. X 500CC. (STANDARD)	1
2	5/8 ID. X 500CC. (COMPOSITE ONLY)	2
3	3/8 ID. X 1000CC.	3
4	5/8 ID. X 1000CC. (COMPOSITE ONLY)	4
9	SPECIAL	9
CODE	REFRIGERATOR	
N	NON - REFRIGERATED — (STANDARD)	N
R	REFRIGERATED: COMPOSITE — (SMALL)	R
R	REFRIGERATED: DISCRETE & DUAL STATION — (LARGE)	R
W	WIRED — (FRIDGE CIRCUIT READY)	W
CODE	SAMPLE CONTAINER - (NALGENE STANDARD)	
A	NONE (STANDARD)	A
B	8 LITRE (2 U.S. GALLONS)	B
C	20 LITRE (5 U.S. GALLONS)	C
D	24 X 500CC (1 U.S. PINT)	D
X	SPECIAL	X
CODE	ENCLOSURE	
1	NEMA 4 (STANDARD)	1
3	NEMA 4 - INSULATED	3
5	OPEN CHASSIS - NO CABINET	5
9	SPECIAL	9
CODE	OPTIONS	
B	PRESSURE/VACUUM GAUGE	B
C	HEATER C/W THERMOSTAT	C
D	OVERFLOW PROTECTION PROBES (MAX 2)	D
F	COMMON SAMPLER FAULT OUTPUT	F
G	CABINET CIRCULATION FAN	G
N	S.S. SINKER STRAINER	N
S	INTEGRAL BATTERY C/W CHARGER	S
V	EXTERNAL VALVE CONTROL OUTPUT	V
W	DUAL STATION	W
E	EXTENDED WARRANTY (5 YEARS)	E
X	SPECIAL	X

Partial nomograph.
For a complete
listing contact
Southwell.

NOTES: SPECIAL FEATURE ("X" OR "9")

SIRCO BVS 4300 OUTDOOR STATIONARY SAMPLER

Sampler		Vacuum System	
Height	63 inches 1.6 m	Pinch Valve	Fixed – normally open
Width	26 inches 0.66 m	Purge Cycle	Adjustable – 1 to 99 seconds
Depth	26 inches 0.66 m	Suction cycle	Variable – adjusts automatically to double the input value of the purge time setting or until liquid contacts level electrode in metering chamber
Weight: refrigerated	310 lbs 141 kg	Sample Volume	Adjustable, 50cc to 500cc * Adjustable, 500cc to 1000cc
Weight: non-refrigerated	240 lbs 109 kg	Sample Transport Velocity	Vertical: 5 ft/s at 15 ft of lift Max vertical 28 ft (8.5m) Horizontal: Minimum of 5 ft/s at 100 ft Max horizontal > 2.5 ft/s: 250 ft (76.2m)
Enclosure	Nema 4 weatherproof 14 gauge steel enclosure with heat cured polyester-based powder paint for corrosion resistance & lockable door * Stainless Steel * Insulation with thermostatically controlled forced-air heater	Metering Chamber	Acrylic 500cc, 100cc calibration * Acrylic 1000cc, 100cc calibration * Pyrex 500cc, 100cc calibration * Pyrex 1000cc, 100cc calibration
Supply Voltage	Sampling system: 115 Vac / 60Hz or 12 Vdc Refrigeration and heating units: 115 Vac / 60Hz	Metering Chamber Cover	Nylon * Reinforced Teflon top
Controller		Volume Control Tube	316 stainless steel
Display	2x16 character backlit LCD	Metering Chamber Liquid	316 stainless steel
Touchpad	16-key, calculator-type with multi-level menus	Sensing Rod	
Start Delay	Disabled; Time/Day; Pulse Count; 4-20mA (0-100 pulses/minute); External Contact; Level Control	Intake Hose	Nylon reinforced PVC (3/8" ID by 25' c/w sinker) * Nylon reinforced PVC (5/8" ID by 25' c/w sinker) * Teflon lined PVC (1/2" ID by 25' c/w SS sinker)
Sample Initiation	Disabled; Interval Time; Pulse Count; 4-20mA (0 to 100 pulses/minute); External Contact	Discharge Hose	Latex, 3/8" ID * Latex, 5/8" ID * Silicone, 3/8" ID * Silicone, 5/8" ID
Program Type	Composite; Multi-Composite; Consecutive; Daily Cycle; Timed Step	Sample Containers (Composite)	* 2.3 US Gallon (9 L) HDPE * 2.3 US Gallon (9 L) PP * 5 US Gallon (20 L) HDPE * 5 US Gallon (20 L) PP * 2.5 US Gallon (10 L) glass
Clock	Real Time clock & operating system	Sample Containers (Discrete)	* 500cc PP Wedges (24 bottles) * 1/2 L glass (12 bottles) * 1 L glass (8 or 12 bottles) * 2 L glass (2, 3, 4, 6 or 8 bottles) * 4 L glass (2, 3 or 4 bottles) • 1 L HDPE (8 or 12 bottles) * 2.3 Gal (9 L) HDPE or PP (2 bottles) * 5 Gal (20 L) HDPE or PP (2 bottles)
Direct Function Keys	Manual sample; Manual purge; Manual bottle advance; Restart	Refrigerator	* 5 cu.ft., adjustable to maintain 4° C * 7 cu.ft. (discrete)
Alarm Outputs (Independent)	Cycle abandoned [pulse output]; Sample Fault; Container Full	* Optional features are marked with an asterix	
Status Outputs	Sample taken [pulse output]		
Switches	Run/off (SPST toggle) On/off (5 amp lighted breaker) * Refrigerator on/off * Heater on/off		
Available displays	Real time clock; Process timing; Process controls; Pulse counting; Event response; Multi-level desc.; Flashing prompts; Diagnostics		
Automatic displays	Container full; Fault; Interrupt; Alternating Time Stamp; Cycle(s) abandoned		
Options			
Other custom options available upon request			
Optional extended warranty (up to 5 years)			

Specifications

Effluent/liquid sampling unit is to be of the vacuum-type mode of operation, for the collection of liquids at user-specified criteria. Unit will have a protective enclosure of steel or stainless construction with a heat-cured polyester-based powder paint. 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, excluding refrigerator, which has a one (1) year warranty. Sampling unit to be a BVS 4300 SIRCO Sampler manufactured by Southwell, or approved equivalent.