



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.

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.

Also available in 3/8" or 5/8" line size, 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.
- All parts & upgrades have been designed to retro-fit previous models for easy upgrading of old samplers!
- Built to last, in our CSA-certified shop.
- Two-year warranty.

| 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 3 (STANDARD) | 1 |
| 3 | NEMA 3 - 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 | D |
| F | COMMON SAMPLER FAULT OUTPUT | F |
| N | S.S. SINKER STRAINER | N |
| S | INTEGRAL BATTERY C/W CHARGER | S |
| V | EXTERNAL VALVE CONTROL OUTPUT | V |
| W | DUAL STATION | W |
| 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 | Minimum of 3 ft/s at 20 ft of lift (3/8" ID intake) Minimum of 3 ft/s at 16 ft of lift (5/8" ID intake) |
| Enclosure | Nema 3 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 * Teflon reinforced top |
| Controller | | Volume Control Tube | 316 stainless steel |
| Display | 2x16 character backlit LCD | Metering Chamber Level | 316 stainless steel |
| Touchpad | 16-key, calculator-type with multi-level menus | Electrode 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) |
| Start Delay | Disabled; Time/Day; Pulse Count; 4-20mA (0-100 pulses/minute); External Contact; Level Control | Discharge Hose | Latex, 3/8" ID * Latex, 5/8" ID * Silicone, 3/8" ID * Silicone, 5/8" ID |
| Sample Initiation | Disabled; Interval Time; Pulse Count; 4-20mA (0 to 100 pulses/minute); External Contact | Sample Containers (composite only) | * 2 US gallon (8 litre) high density polyethylene * 5 US gallon (20 litre) high density polyethylene * 2.5 US gallon (10 litre) glass |
| Program Type | Composite; Multi-Composite; Consecutive; Daily Cycle; Timed Step | Sample Containers (discrete only) | 24 x 500cc polyethylene * 3 x 1 litre glass * 4 x 1 litre glass * 6 x 1 litre glass * 8 x 1 litre glass * 12 x 1/2 litre glass |
| Clock | Real Time clock & operating system | Refrigerator | * 5 cu.ft., adjustable to maintain 4° C * 7 cu.ft. (discrete) |
| Direct Function Keys | Manual sample; Manual purge; Manual bottle advance; Restart | * Optional features are marked with an asterix | |
| Alarm Outputs (Independent) | Cycle abandoned [pulse output]; Sample Fault; Container Full | | |
| 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 | | |

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, in a CSA-certified shop, and have a two (2) year warranty. Sampling unit to be a BVS 4300 Southwell (Sirco) Sampler manufactured by Southwell, or approved equivalent.

SIRCO SAMPLERS

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