CVS 4200
Indoor Stationary Samplers
Easy-to-use, Accurate, Durable, Dependable

The CVS 4200 Indoor Stationary Sampler is designed to take samples reliably for years and years with little to no maintenance cost. The upper control section is built of a durable steel enclosure and 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. High transport velocities, larger tube size options, and accurate metering chambers are all benefits of the vacuum system of sampling. Vacuum sampling results in accurate and dependable results, even with high sediment content or rapid velocities at the sample source.

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.

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	STANDARD HOOD	1
9	SPECIAL	9

CODE	OPTIONS	
B	PRESSURE/VACUUM GAUGE	B
D	OVERFLOW PROTECTION PROBES	D
F	COMMON SAMPLER FAULT OUTPUT	F
N	S.S. INTAKE HOSE 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.

Features

- Easy-to-use controller constructed to last dependably for decades through most conditions.
- Rapid transport velocities of samples (over 3 ft/sec for sample lifts of up to 20 ft), meaning more accurate samples, even of suspended solids over high lifts.
- All parts are designed to retro-fit previous models for easy upgrading of old samplers!
- Composite or discrete sampling (into one to twenty-four containers), or without the fridge, allowing whatever container suits the user's environment.
- Built to last, in our CSA-certified shop.
- Two-year warranty.

SIRCO CVS 4200 INDOOR STATIONARY SAMPLER

Sampler

	Composite / Discrete / Without Fridge	
Height	55 / 57 / 33 inches	1.39 / 1.45 / 0.59 m
Width	21 / 24 / 17 inches	0.53 / 0.61 / 0.43 m
Depth	22 / 24 / 18.75 in	0.56 / 0.61 / 0.48 m
Weight: refrigerated	150 / 200 lbs	68 / 91 kg
Weight: non-refrigerated	70 lbs	32 kg
Enclosure	Nema 1 general purpose, 14 gauge steel enclosure (upper control section only) with polyester-based powder paint for corrosion resistance.	
Supply Voltage	**Sampling system:** 115 Vac / 60Hz or 12 Vdc **Refrigeration and heating units:** 115 Vac / 60Hz	

Controller

Display	2x16 character backlit LCD
Touchpad	16-key, calculator-type with multi-level menus
Start Delay	Disabled; Time/Day; Pulse Count; 4-20mA (0-100 pulses/minute); External Contact; Level Control
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; Manual bottle advance; Restart
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 descriptions; Flashing prompts; Diagnostics
Automatic displays	Container Full; Fault; Interrupt; Alternating Time Stamp; Cycle(s) abandoned

Vacuum System

Pinch Valve	Fixed – normally open
Purge Cycle	Adjustable – 1 to 99 seconds
Suction cycle	Variable – adjusts automatically to double the input value of the purge time setting or until liquid contacts level electrode in metering chamber
Sample Volume	Adjustable, 50cc to 500cc * Adjustable, 500cc to 1000cc
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)
Metering Chamber	Acrylic 500cc, 100cc calibration * Acrylic 1000cc, 100cc calibration * Pyrex 500cc, 100cc calibration * Pyrex 1000cc, 100cc calibration
Metering Chamber Cover	Nylon * Teflon reinforced top
Volume Control Tube	316 stainless steel
Metering Chamber Level Electrode	316 stainless steel
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)
Discharge Hose	Latex, 3/8" ID * Latex, 5/8" ID * Silicone, 3/8" ID * Silicone, 5/8" ID
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
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
Refrigerator	* 5 cu.ft., adjustable to maintain 4° C * 7 cu.ft. (discrete)

* 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. Upper control section will have a protective enclosure of 14 gauge steel 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 CVS 4200 Southwell (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