

CVS 4200 Indoor Stationary Samplers

"Durable, Easy-to-use, Accurate, 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		
С		COMPOSITE						С		
D	DISCRETE						D			
	CODE MICROPROCESSOR									
	M MULTI-FUNCTION INPUT					CONT	M X			
	X SPECIAL SOFTWARE						AFD ACCEMBLY (ACDVILIC OTANDADD)			
CODE METERING CHAMBER ASSEMBLY - (ACRYLIC STAN								4		
1 3/8 ID. X 500CC. (S 2 5/8 ID. X 500CC. (C							1 2			
2 5/8 ID. X 500CC. (C 3 3/8 ID. X 1000CC.						COMPC	OWPOSITE ONLY)			
3 3/8 ID. X 1000CC. 4 5/8 ID. X 1000CC. (0						COMP	COMPOSITE ONLY)			
9 SPECIAL					.000. (OOWII	JOINT OSTIL ONLI)			
CODEL REFRIGERATO						TOR		9		
N NON - REF			- REFF	RIGERA	N					
				REFRIGERATED: COMPOSITE — (SMALL)						
R REF			REFF	FRIGERATED: DISCRETE & DUAL STATION — (LARGE)			R			
				FRIDGE CIRCUIT READY)		W				
CODE SAMP							A			
				NONE (STANDARD)						
			B	8 LITRE (2 U.S. GALLONS)			B C			
			~	20 LITRE (5 U.S. GALLONS)						
		D	24 X 500CC. (1 U.S PINT) SPECIAL		D					
				El ENCLOSURE		X				
					1	STANDARD HOOD		1		
					9	SPECIAL		9		
						CODE OPTIONS				
Partial nomograph. For a complete listing contact						В	PRESSURE/VACUUM GAUGE	В		
						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		
Southwell.							V EXTERNAL VALVE CONTROL OUTPUT			
						W DUAL STATION X SPECIAL		W		
						X	SPECIAL	Х		



- 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.

Southwell CVS 4200 Indoor Stationary Sampler

Sampler		Vacuum System	
	Composite / Discrete / Without Fridge	Pinch Valve	Fixed – normally open
Height	55 / 57 / 33 inches 1.39 / 1.45 / 0.59 m	Purge Cycle	Adjustable – 1 to 99 seconds
Width	21 / 24 / 17 inches 0.53 / 0.61 / 0.43 m	Suction cycle	Variable – adjusts automatically to
Depth	22 / 24 / 18.75 in 0.56 / 0.61 / 0.48 m		double the input value of the purge time
Weight: refrigerated	150 / 200 lbs 68 / 91 kg		setting or until liquid contacts level
Weight: non-refrigerated	70 lbs 32 kg		electrode in metering chamber
Enclosure	Nema 1 general purpose, 14 gauge	Sample Volume	Adjustable, 50cc to 500cc
	steel enclosure (upper control section		* Adjustable, 500cc to 1000cc
	only) with polyester-based powder paint	Sample Transport Velocity	Minimum of 3 ft/s at 20 ft of lift
	for corrosion resistance.		(3/8" ID intake)
Supply Voltage	Sampling system:		Minimum of 3 ft/s at 16 ft of lift
ouble.) counties	115 Vac / 60Hz or 12 Vdc		(5/8" ID intake)
	Refrigeration and heating units:	Metering Chamber	Acrylic 500cc, 100cc calibration
	115 Vac / 60Hz		* Acrylic 1000cc, 100cc calibration
Controller	TTO VOOT COTTE		* Pyrex 500cc, 100cc calibration
	0.40.1		* Pyrex 1000cc, 100cc calibration
Display	2x16 character backlit LCD	Metering Chamber Cover	Nylon
Touchpad	16-key, calculator-type with multi-level		* Teflon reinforced top
<u> </u>	menus	Volume Control Tube	316 stainless steel
Start Delay	Disabled; Time/Day; Pulse Count;	Metering Chamber Level	316 stainless steel
	4-20mA (0-100 pulses/minute); External	Electrode	
	Contact; Level Control	Intake Hose	Nylon reinforced PVC
Sample Initiation	Disabled; Interval Time; Pulse Count;		(3/8"ID by 25' c/w sinker)
	4-20mA (0 to 100 pulses/minute);		* Nylon reinforced PVC
	External Contact		(5/8"ID by 25' c/w sinker)
Program Type	Composite; Multi-Composite;		* Teflon lined PVC
	Consecutive; Daily Cycle; Timed Step		(1/2"ID by 25' c/w SS sinker)
Clock	Real Time clock & operating system	Discharge Hose	Latex, 3/8" ID
Direct Function Keys	Manual sample; Manual purge; Manual		* Latex, 5/8" ID
	bottle advance; Restart		* Silicone, 3/8" ID
Alarm Outputs	Cycle abandoned [pulse output];		* Silicone, 5/8" ID
(Independent)	Sample Fault; Container Full	Sample Containers	* 2 US gallon (8 litre) high density
Status Outputs	Sample taken [pulse output]	(composite only)	polyethylene
Switches	Run/off (SPST toggle)		* 5 US gallon (20 litre) high density
	On/off (5 amp lighted breaker)		polyethylene
	* Refrigerator on/off		* 2.5 US gallon (10 litre) glass
A '1 1 1 1' 1	* Heater on/off	Sample Containers	24 x 500cc polyethylene
Available displays	Real time clock; Process timing;	(discrete only)	* 3 x 1 litre glass
	Process controls; Pulse counting; Event		* 4 x 1 litre glass
	response; Multi-level descriptions;		* 6 x 1 litre glass
	Flashing prompts; Diagnostics		* 8 x 1 litre glass
Automatic displays	Container Full; Fault; Interrupt;		* 12 x 1/2 litre glass
	Alternating Time Stamp; Cycle(s)	Refrigerator	* 5 cu.ft., adjustable to maintain 4° C
	abandoned		* 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.



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