



## **CVS Central Vacuum Stations**

Modular, ready-to-operate systems for varying vacuum demands with BASIC or PLC control



# Vacuum expertise for your vacuum requirements in industrial processes

**SOGEVAC Central Vacuum Stations** cover the demands of numerous small vacuum consumers, increasing the availability of the vacuum service. CVS Central Vacuum Stations provide the essential performance and reliability to succeed under challenging production conditions.



**CVS 60**  
with 1 x SOGEVAC SV 40 B



**CVS 160**  
with 2 x SOGEVAC SV 100 B



**CVS 300**  
with 2 x SOGEVAC SV 100 B



**CVS 500**  
with 3 x SOGEVAC SV 100 B



**CVS 1000**  
with 2 x SOGEVAC SV 100 B

## Modular turn-key solutions **Central Vacuum Stations**

### Technical Features

- Typically consisting of
  - up to 3 **SOGEVAC** pumps (from 25 to 300 m<sup>3</sup>/h)
  - buffer vessel
  - manual valve (basic control) or electropneumatic valve (PLC control)
  - dust filter at the pump inlet
  - pressure gauge/sensor
  - two-stage pressure controller
  - electrical cabinet with controller
  - all connecting components
- Pumping speed 25 to 840 m<sup>3</sup>/h
- Ultimate pressure ≤ 0.5 mbar
- Vessel volume 60, 160, 300, 500 or 1000 liters
- Electric power from 0.8 to 18.9 kW
- Control type BASIC or PLC

### Benefits

- Industrial grade vacuum generator consisting of proven SOGEVAC single-stage rotary vane vacuum pumps
- Covers the demands of numerous small vacuum consumers
- Modular design, customized to customer specific processes
- Simple to operate
- Space-saving system solution
- High return on investment, excellent price-to-performance ratio
- Energy saving capabilities
- Low cost of ownership
- Cycle time reduction due to the buffer volume (infinite pumping speed effect)
- Plug and Go

### SOGEVAC Vacuum Pumps

#### The core piece of every CVS Central Vacuum Station

- Proven industrial vacuum pumps
- High pumping speed to footprint ratio by compact design
- No oil emissions
- Low cost of ownership due to easy maintenance and minimized after-sales costs
- Low noise level for rotary vane pumps available on the market
- 400 V, 50 Hz / 460 V, 60 Hz versions available
- Proven SOGEVAC design with manual gas ballast

Vacuum pumps and system solutions provided by Leybold always deliver first rate performance, thus ensuring the optimum operating pressure, cycle time and system availability in harsh industrial applications.

### Controller Options

#### Basic

- Switching of the vacuum pumps simultaneously
- Two setpoints (on / off)
- Pressure sensor
- Inlet filter at each pump
- Manual valve at each pump

#### Full-featured

- 4 freely selectable switching thresholds
- Pressure sensor
- Inlet filter at each pump
- Independent pump control
- Master pump / spare pump mode
- Equal wear, sharing of operating hours among the pumps
- Automatic changeover to the spare pump in case of a pump failure or failure signal output
- Automatic start of the spare pump in case of pressure increase up to S3
- Delayed shutdown option to restrict the number of switching cycles to 6 per hour (10 minutes each)
- Electropneumatic valve
- Vacuum management via PLC

#### Options for full-featured

- Remote control
- Computer interface
- SOGEVAC** exhaust filter over-pressure switch or indicator
- SOGEVAC** service switch
- Traffic light status

### Typical Applications

#### General applications demanding vacuum:

- Transportation
- Handling / lifting
- Degassing
- Automation (pick and place)
- Vacuum pressing** (rubber, gaskets)

#### Automotive industry

- Thermoforming
- Break filling, degassing

#### Composites manufacturing

- Resin Transfer Moulding (RTM)

#### Hospitals/Medical engineering

- Bacteriological filters

#### Food packaging/food processing

- Vacuum filling
- Thermoforming
- Vacuum transportation, handling, lifting
- Tray sealing / MAP packaging
- Degassing



## The full range for any vacuum demand

CVS Model *	No. x type of pumps	Nom. pumping speed 50 Hz (m <sup>3</sup> /h)	Weight (kg)	Flange intake/ pressure side	Installed power <sup>1)</sup> (KW)	Noise level <sup>2)</sup> dB(A)	Part-No.
Basic control							
CVS 60	1x SV 25 B	26	145	1¼" / ¾"	0.9 / 1.1	64	504309V001
CVS 60	1x SV 40 B	44	165	1¼" / 1¼"	1.1 / 1.5	58	504309V002
CVS 160	1x SV 65 B	59	255	1¼" / 1¼"	1.5 / 1.8	60	504310V001
CVS 160	1x SV 100 B	97.5	295	1¼" / 1¼"	2.2 / 3.5	61	504310V004
CVS 300	1x SV 65 B	59	340	2" / 1¼"	1.5 / 1.8	60	504311V001
CVS 300	1x SV 100 B	97.5	335	2" / 1¼"	2.2 / 2.7	61	504311V004
CVS 500	1x SV 100 B	97.5	415	2" / 1¼"	2.2 / 2.7	61	504312V006
CVS 500	2x SV 100 B	195	550	2" / 1¼"	4.4 / 5.4	64	504312V007
CVS 500	1x SV 220 B	180	460	2" / 2"	4.0 / 4.6	69	504312V016
CVS 500	2x SV 220 B	360	630	2" / 2"	8.0 / 9.2	72	504312V019
CVS 500	1x SV 300 B	280	500	2" / 2"	5.5 / 6.6	72	504312V014
CVS 500	2x SV 300 B	560	725	2" / 2"	11.0 / 13.2	75	504312V015
CVS 1000	1x SV 220 B	180	600	2" / 2"	4.0 / 4.6	69	504313V013
CVS 1000	2x SV 220 B	360	775	2" / 2"	8.0 / 9.2	72	504313V015
CVS 1000	1x SV 300 B	280	640	2" / 2"	5.5 / 6.6	72	504313V016
CVS 1000	2x SV 300 B	560	860	2" / 2"	11.0 / 13.2	75	504313V017

### Full-featured control

CVS 160	2x SV 65 B	118	293	1¼" / 1¼"	3.0 / 3.6	63	504310V050
CVS 160	2x SV 100 B	195	373	1¼" / 1¼"	4.4 / 5.2	64	504310V051
CVS 300	2x SV 65 B	118	343	2" / 1¼"	3.0 / 3.6	63	504311V050
CVS 300	2x SV 100 B	195	424	2" / 1¼"	4.4 / 5.2	64	504311V051
CVS 500	3x SV 65 B	177	488	2" / 1¼"	4.5 / 5.4	65	504312V050
CVS 500	2x SV 100 B	195	510	2" / 1¼"	4.4 / 5.2	64	504312V051
CVS 500	3x SV 100 B	293	607	2" / 1¼"	6.6 / 7.8	66	504312V052
CVS 500	2x SV 220 B	360	658	2" / 2"	8.0 / 9.2	72	504312V057
CVS 500	2x SV 300 B	560	747	2" / 2"	11.0 / 12.6	75	504312V054
CVS 1000	3x SV 65 B	177	630	2" / 1¼"	4.5 / 5.4	65	504313V050
CVS 1000	2x SV 100 B	195	649	2" / 1¼"	4.4 / 5.2	64	504313V051
CVS 1000	3x SV 100 B	293	751	2" / 1¼"	6.6 / 7.8	66	504313V052
CVS 1000	2x SV 220 B	360	801	2" / 2"	8.0 / 9.2	72	504313V057
CVS 1000	3x SV 220 B	540	979	2" / 2"	12.0 / 13.8	74	504313V058
CVS 1000	2x SV 300 B	560	890	2" / 2"	11.0 / 12.6	75	504313V055
CVS 1000	3x SV 300 B	840	1111	2" / 2"	16.5 / 18.9	77	504313V056

\* The number in the CVS model name indicates the volume of the pump vessel

<sup>1)</sup> mains connection 400V, 50Hz / 460V, 60Hz

<sup>2)</sup> final pressure without gas ballast, open air measurement at 1 m distance

For detailed information, please refer to our general catalog or contact us.  
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