

CVS Central Vacuum Stations

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



Vacuum Expertise for

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.



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.

Modular turn-key solutions

Central Vacuum Stations

Technical Features

- Typically consisting of
 - up to 3 SOGEVAC pumps (from 25 to 300 m³/h)
 - buffer vessel
 - manual valve
 - 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 m³/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

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)
- Complete turn-key systems, ready for operation

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
- Lowest cost of ownership due to easy maintenance and minimized after-sales costs
- Lowest 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 and oil filter

your vacuum requirements in **Industrial Processes**



CVS 300
with 2 x SOGEVAC SV 100 B



CVS 500
with 3 x SOGEVAC SV 100 B



CVS 1000
with 3 x SOGEVAC SV 100 B



CVS 500
with 3 x SOGEVAC SV 100 B

Typical Applications

- General applications demanding vacuum:
 - Transportation
 - Handling / lifting
 - Degassing
 - Automation (pick and place)
- Automotive industry
 - Thermoforming
 - Break filling, degassing
- Composites manufacturing
 - Resin Transfer Moulding (RTM)
- Vacuum pressing, like rubber, plastics, gaskets
- Food packaging/food processing
 - Vacuum filling
 - Thermoforming
 - Vacuum transportation, handling, lifting
 - Tray sealing / MAP packaging
 - Degassing
- Hospitals/Medical engineering
 - Bacteriological filters

Application Example RTM

For some processes in the manufacture of composite materials it is necessary to have two different pressure levels, Resin Transfer Moulding (RTM) require a vacuum to close the mould while an adjustable vacuum level is used for the resin impregnation step. SOGEVAC Central Vacuum Stations provide the performance and reliability essential to success under challenging production conditions.

Composites industry



Plastics manufacturing



Food packaging



CVS Central Vacuum Stations

The full range for any vacuum demand

Designation No. and type of SOGEVAC rotary vane vacuum pump(s):

CVS 60 Ref. No.*	 1x SV 25B 504309V001	 1x SV 40B 504309V002				
CVS 160 Ref. No.*	 1x SV 65B 504310V001	 2x SV 65B 504310V002	 1x SV 100B 504310V004	 2x SV 100B 504310V005	 1x SV 200 504310V007	 1x SV 300B 504310V008
CVS 300 Ref. No.*	 1x SV 65B 504311V001	 2x SV 65B 504311V002	 1x SV 100B 504311V004	 2x SV 100B 504311V005	 1x SV 200 504311V007	 1x SV 300B 504311V008
CVS 500 Ref. No.*	 1x SV 65B 504312V001	 2x SV 65B 504312V002	 3x SV 65B 504312V004	 1x SV 100B 504312V006	 2x SV 100B 504312V007	 3x SV 100B 504312V009
CVS 500 Ref. No.*	 1x SV 200 504312V011	 2x SV 200 504312V012	 1x SV 300B 504312V014	 2x SV 300B 504312V015		
CVS 1000 Ref. No.*	 1x SV 65B 504313V001	 2x SV 65B 504313V002	 3x SV 65B 504313V004	 1x SV 100B 504313V006	 2x SV 100B 504313V007	 3x SV 100B 504313V009
CVS 1000 Ref. No.*	 1x SV 200 504313V011	 2x SV 200 504313V012	 3x SV 200 504313V014	 1x SV 300B 504313V016	 2x SV 300B 504313V017	 3x SV 300B 504313V019

* with basic control. Further versions with full-featured control are available on request.

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