


Rotary Screw Vacuum Pumps ASV/BSV/CSV Series

With the world-renowned SIGMA PROFILE 

Capacities from 4.75 to 15.7 m³/min – 99% final vacuum, 10 mbar (a)



Vacuum airoend

KAESER vacuum airoend with high performance SIGMA PROFILE rotors; V-belt drive with automatic tensioning; integrated block and coolant circulating pump; inlet valve controlled by a solenoid valve; adjustable switching from evacuation to idling operation; permissible inlet air temperature up to +45 °C.

Electric motor

IP 54 enclosure protection; class F insulation; 380 – 420 V/50 Hz

Cooling

Air-cooled aluminium fluid cooler designed for ambient temperatures up to 40 °C; fan-assisted airflow for intensive cooling.

Cooling fluid circuit

Combination valve comprising thermostatic element, bypass and full-flow micro-filter with standard replaceable insert designed as an enclosed unit; combined fluid reservoir and separator tank with pressure

relief valve, multi-stage high-capacity separator cartridge; fluid level sight glass; drain valve and hose; two quick-release couplings for measuring pressure drop across the separator cartridge; first fill of coolant included within scope of delivery.

Design and construction

Compact enclosure mounted on a solid base frame equipped with anti-vibration mounts; high quality powder-coated panels; mineral wool soundproof lining protected by fibreglass; access doors and lift-upcover; replaceable cooling air filter mats; airoend and motor on anti-vibration mounts; anti-vibration pipe connections; fully guarded belt drive and fan; externally-mounted vacuum filter with pressure transducer to indicate clogging; infinite control of inlet valve opening via partial-load controller; changeover to Dual control mode possible; gas ballast unit for enhanced water vapour tolerance.

Control cabinet

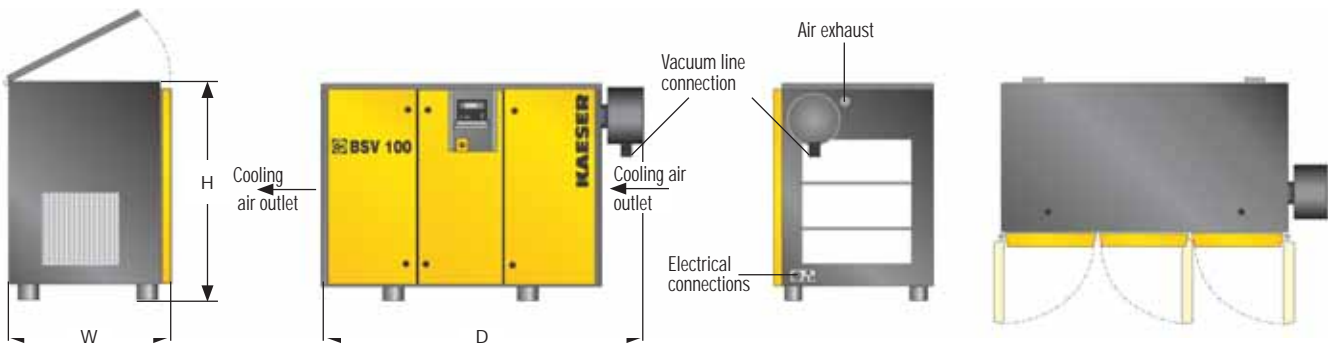
IP 54 enclosure protection; 230 V control voltage; direct motor start-up; motor overload protection relay. The user must provide a suitable main switch / fuse unit.

SIGMA CONTROL

PC-based controller with real time operating system and update capability. Red, yellow and green 'traffic-light' style LEDs show operational status at a glance. User-friendly operation: four line plain text display, touch keys and icons, 30 selectable languages. The SIGMA controller automatically controls and monitors the vacuum system. Should an alarm occur, the unit is immediately shutdown via the safety shutdown system. Interfaces are provided as standard for connecting a modem, data network and a second vacuum pump in base-load sequencing mode.

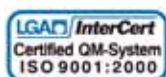
Standards and regulations

Conforms to EU directives, EN 1012-2 for vacuum pumps and the German safety equipment act.



Technical specifications

Model	Capacity in m ³ /min at inlet pressure of 700 mbar (a)	Max. vacuum mbar % (a)		Rated motor power kW	Motor speed	Inlet port	Discharge port	Dimensions W x D x H	Weight kg
ASV 40	4.75	99	10	7.5	3000	DN 65/PN16	G 1½	1695×861×1075	460
ASV 60	6.85	99	10	11	3000	DN 65/PN16	G 1½	1695×861×1075	470
BSV 80	8.4	99	10	15	3000	G 4	G 2	2065×986×1382	640
BSV 100	10.4	99	10	18.5	3000	G 4	G 2	2065×986×1382	720
CSV 125	13.1	99	10	22	1500	DN 100/PN16	G 3	2310×1216×1450	1375
CSV 150	15.7	99	10	30	1500	DN 100/PN16	G 3	2310×1216×1450	1550



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