

Control- and working-air

For control and working air applications Sauer can delivered special screw- and piston compressors in naval design. Sauer low pressure air compressors can be delivered according to several shock and vibration standards from simple LROs rules to highest Navy standards like US Mil Std 901 or German BV0432 and 044.

Cooling is available for both screw- and piston compressors by seawater, fresh- or chilled water as well as by air. If required special air treatment can be included in the scope of supply either to be delivered separately or attached to the compressor in a module.

As an alternative to the screw compressors of the SC range Sauer offers direct driven and frequency controlled screw compressors of the SD range. This alternative offers lower maintenance and higher reliability due to missing V-belts. It also allows smaller air receivers due to soft capacity adaption as per the actual demand.

The highly reliable Sauer piston compressors offer same advantages and technology as the well-known 30 bar starting-air compressors.

Technical Data

Screw type compressor V-belt driven				Technical Data for a final pressure of 8 bar				Dimensions			
Type	Version	Final pressure max. bar	Motor speed rpm	Charging* Capacity m ³ /h	Power consumption kW	Heat Dissipation kJ/sec	Weight kg	Length mm	Width mm	Height mm	
SC 26	50 Hz	10	2930	148	16,0	17,6	450	1270	795	1070	
	60 Hz		3530	177	19,2	21,1					
SC 42	50 Hz	10	2960	234	28,6	31,5	580	1270	795	1170	
	60 Hz		3550	280	34,3	37,8					
SC 52	50 Hz	10	2980	278	33,4	36,7	595	1270	795	1170	
	60 Hz		3555	334	40,0	44,0					
Screw type compressor direct driven				Technical Data for a final pressure of 8 bar				Dimensions			
Type	Version	Final pressure max. bar	Motor speed rpm	Charging* Capacity m ³ /h	Power consumption kW	Heat Dissipation kJ/sec	Weight kg	Length mm	Width mm	Height mm	
SD 22	50/60 Hz	10	frequency controlled	200	21,0	23,0	310	1050	795	1240	
SD 30	50/60 Hz	10	frequency controlled	245	28,5	31,0	370	1050	795	1240	
SD 38	50/60 Hz	10	frequency controlled	325	36,0	40,0	560	1550	810	1170	
Piston compressor				Technical Data for a final pressure of 8 bar				Dimensions			
Type	Final pressure max. bar	Stages	Cylinder	Speed rpm	Charging Capacity m ³ /h	Power consumption kW	Heat Dissipation kJ/sec	Weight kg	Length mm	Width mm	Height mm
WP 146 L air-cooled	10	2	2	1170	116	17	19	850	1420	870	880
				1470	150	21	23	850			
				1770	175	25	28	850			
WP 226 L air-cooled	10	2	2	1170	220	30	33	880	1735	1030	1020
				1470	280	36	40	880			
				1770	330	42	46	880			
WP 200 water-cooled	15	2	2	1170	144	23	30**	770	1500	1000	890
				1470	177	28	37**	800			
				1770	214	34	45**	800			

Performance data with 5% tolerance, referred to 20° C and an air pressure of 1013 mbar.

Capacity of screw-type compressors according to DIN-ISO 1945.

Weights and dimensions for standard units with three-phase A. C. motor, IP 54, and flexible mounting. Water-cooled screw-type compressors upon request.

* Larger capacity up to 2000 m³/h or capacity for other final pressures upon request.

** Cooling water demand for delta $\Delta t = 10^\circ\text{C}$

Modules with integrated desiccant dryer and air receiver upon request.

Filtration for oilfree air; if required.

Cooling by air, chilled-, fresh- or seawater.



High performance screw compressor.

Sauer screw compressors can be delivered according to all shock standards.

- LP Compressor station SC 26 with integrated desiccant dryer. Shockproof, sea-water cooled version.