



SCHÄFER & URBACH

System and High Pressure Technology

Pump Units

Duplex vapour pumps



Pump Units ◀

High- pressure technology ▶

Water hydraulics ▶

Service / After Sales ▶



SCHÄFER & URBACH
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Tradition as basis – high-pressure as motivation

As specialists for sophisticated solutions SCHÄFER & URBACH have become renowned in the following areas.

▶ Pump Units

- High-pressure pumps HDP
- Process pumps PPK
- Mud pumps BT
- Slurry-Pumps SPL
- Steam- and Duplex pumps
- Special pumps

▶ High-pressure technology

- Tank- and industrial cleaning systems
- HP Cleaning systems
- HP Cleaning accessories

▶ Water hydraulics

- Descaling systems
- Drive systems for presses

▶ Service / After Sales

- Engineering
- Welding technology
- Commissioning



For more than 80 years SCHÄFER & URBACH have developed and supplied equipment and components for systems and high-pressure plants to customers throughout the world. All of the supplied equipment is manufactured at the SCHÄFER & URBACH workshop. The company assumes responsibility, as it supplies complete high-pressure and systems solutions made up of components which all fit together seamlessly – forming a perfect match and being ... **all from one source.**



▶ Design ▶ Manufacture ▶ Commissioning ▶ After sales service

Industrial pumps – The right solution for any requirement

Reliability, robustness and high quality – these are the features on which SCHÄFER & URBACH has built the international success of its range of industrial pumps. The maintenance-friendly design, flexibility in combination and high manufacturing quality of the plunger and piston pumps make these industrial pumping units optimal conveying means for a broad bandwidth of applications.

All industrial pumps are tested for tightness, proper functioning and performance in a practice-oriented procedure. All data are digitally logged and evaluated.



S&U duplex vapour pumps

The duplex vapour pumps are designed as quadruple acting vapour or compressed air driven piston pumps without flywheel. Equipped with a disc valve, these pumps are above all used for feeding land and marine boilers, as loading pumps in the oil industry and as product pumps (oil, petrol, solvents etc) in the chemical industry. If equipped with a ball check valve, the pumps are used for conveying contaminated media without solids content and viscous and pulpy fluids. In mining (driven by compressed air) they are used for pit dewatering applications.

SCHÄFER & URBACH manufactures and maintains vapour pumps.

Specifications and standards

- ▶ The housing components are made of grey cast iron. Interior parts are made of grey cast iron, bronze or chromium steel depending on the application. The connecting flanges at the housing on both the pump side and the vapour side are DIN-compliant. Secondary connections are designed as tapered pipe threads.

Accessory equipment

▶ **Resonators – Pulsation dampening for piston and plunger pumps**

Pump speed: >100 1/min/h

Pressure range: up to 500 bar

Pumping rate: < 3000 l/min

Temperature: -10 up to 200 °C

▶ **New liner tensioning device – Replacement of wear parts in a matter of seconds**

As liners in mud pumps are wear parts, they must be replaced from time to time.

For faster and simpler replacement of the liners, SCHÄFER & URBACH has developed an innovative, fully hydraulic tensioning device.

▶ **Valve cap tensioning device – Re-tensioning of valve cap in a matter of seconds**

Valve caps must be re-tensioned from time to time. An innovative tensioning device developed by SCHÄFER & URBACH now speeds up and facilitates this operation.



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S&U duplex vapour pumps

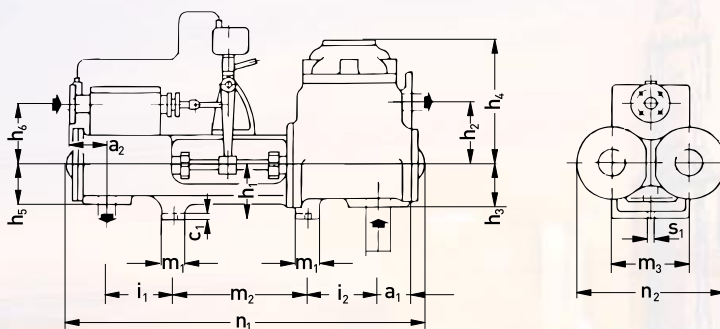
Compact duplex vapour pump with operating pressures up to 32 bar and pumping rates up to 22 m³/h



Size	Weight	Double stroke no.	mx. Pumping press.	mx. Pumping rate
2007	180	78 min ⁻¹	20 bar	7.5 m ³ /h
2012	330	48 min ⁻¹	20 bar	12.2 m ³ /h
2018	455	44 min ⁻¹	20 bar	17.8 m ³ /h
2032	665	42 min ⁻¹	20 bar	32.3 m ³ /h
3205	200	62 min ⁻¹	32 bar	5.2 m ³ /h
3208	320	51 min ⁻¹	32 bar	8.0 m ³ /h
3222	645	42 min ⁻¹	32 bar	22.0 m ³ /h

Pumping rates at 100% vol. efficiency. Other speeds and capacities on request.

Dimensions and weight



	a ₁	a ₂	i ₁	i ₂	h ₁	h ₂	h ₃	h ₄	h ₅	h ₆	n ₁	n ₂
2007	122	92	140	134	130	161	69	220	80	140	905. 983	410
2012	105	80	125	170	235	173	125	260	125	175	1123. 1215	500
2018	110	72	140	210	230	175	120	300	120	210	1410. 1505	575
2032	145	120	110	205	260	115	135	350	150	235	1475. 1645	630
3205	92	92	140	160	130	135	75	305	80	140	917	410
3208	90	80	125	130	235	180	80	320	125	175	1096	495
3222	125	120	110	190	240	270	100	465	150	235	1500	625

Units: Millimeters



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DIN EN ISO 9001:2008 ◀

EU Guidelines: 97/23/EG pressure equipment ◀

EU Guidelines: 94/9/EG ATEX for
cleaning lances and high-pressure equipment ◀

EU Guidelines: ZH 1/406 for
liquid jets ◀

Qualification according
to DIN 18800 Part 7 ◀

Certificate according to
DIN EN 3834-2 for welded structures ◀

Certificate according to
AD Guidelines HP 0 (TRB 200), TRD and TRR 100 ◀

Specialist firm according to §19 WHG ◀