

SOLID
air

The Clever Compressor

**Great performance,
fair price.**
SOLIDscrew
screw compressors



Clever is when price and performance match.

When is a compressor a clever compressor? That's easy: when customers can be sure they are getting the best compressor for their money! That's precisely what the name SOLIDair stands for: We manufacture and sell piston compressors up to 7.5 kW, screw compressors up to 75 kW, and also special dental compressors. Our customers range from handymen to skilled tradesmen, and from builders to small industrial users. Every SOLIDair compressor comes with a clear promise: maximum performance and a long service life for the best price. Clever compressors make all the difference: Contact your specialist dealer for more information on SOLIDair!



SOLIDscrew: Look how much performance you get for your money!

Our industrial screw compressors in the SOLIDscrew series offer high-performance compressors for an attractive price. The range extends from 4 to 75 kW – so you will always find the right compressor to match your compressed air requirement. Up to 15 kW, we also offer these compressors as compressed air systems mounted on receivers, or as compressed air stations mounted on receivers and supplied with a dryer. All compressors are available with a standard electronic control for efficient operation and an external oil separator cartridge for easy maintenance. Such good value for money – typical SOLIDair, in fact!

Powerful.

We have extended our range of screw compressors beyond 22 kW, and now offer compressors from 4 to 75 kW, as oil injected versions with a V-belt drive and working pressures of 7.5, 10 and 13 bar. Our SOLIDscrew series is now a clever alternative for more sectors and uses than ever before!

Flexible range.

Enjoy the flexibility of choosing between a standard compressor rated between 4 and 75 kW, a compressed air system, and a compressed air station between 4 and 15 kW. This means you will always find the right solution for your particular needs!

Sound quality.

High-quality components and professional production methods are the hallmark of SOLIDscrew compressors. The space-saving design and maintenance-friendly construction are an added bonus. Good quality for a fair price – that's SOLIDscrew!



SOLIDscrew screw compressors: Powerful range up to 75 kW.

Standard versions of our SOLIDscrew screw compressors are available from **4 to 75 kW**. The particularly effective aftercooler and the SOLIDcommand microprocessor control are standard equipment! The extensive features that SOLIDcommand comes with are ideal for connecting it to a master controller whenever required. The sound design, detachable doors and good accessibility of every component make maintenance child's play.



Type SOLIDscrew	Effective free air delivery in m³/min at maximum pressure			Motor power kW	Dimensions W x D x H (mm)	Weight kg	Compressed air outlet
	7.5 bar	10 bar	13 bar				
SOLIDscrew 4 S	0.60	0.50	0.39	4	950 x 550 x 900	160	G 1/2"
SOLIDscrew 5 S	0.82	0.70	0.60	5.5	950 x 550 x 900	185	G 1/2"
SOLIDscrew 7 S	1.15	1.00	0.85	7.5	1240 x 650 x 950	270	G 3/4"
SOLIDscrew 11 S	1.65	1.45	1.25	11	1240 x 650 x 950	280	G 3/4"
SOLIDscrew 15 S	2.52	2.20	1.85	15	1240 x 650 x 950	325	G 3/4"
SOLIDscrew 18 S	3.00	2.60	2.10	18	1250 x 850 x 1335	400	G 1"
SOLIDscrew 22 S	3.30	3.10	2.60	22	1250 x 850 x 1335	440	G 1"
SOLIDscrew 30 S	4.80	4.30	3.60	30	1350 x 900 x 1585	590	G 1 1/4"
SOLIDscrew 37 S	5.80	5.15	4.50	37	1350 x 900 x 1585	635	G 1 1/4"
SOLIDscrew 55 S	9.05	7.90	6.70	55	1800 x 1200 x 1800	1235	G 1 1/2"
SOLIDscrew 75 S	12.05	10.70	9.30	75	1800 x 1200 x 1800	1470	G 1 1/2"

Emitted sound pressure values in accordance with DIN 2151, 70 – 78 dB(A) / SOLIDscrew 4 S – SOLIDscrew 75 S
Effective free air delivery figures in accordance with ISO 1217, appendix C, at 20°C ambient temperature and maximum pressure

SOLIDscrew compressed air systems: Powerful range up to 15 kW.

Screw compressors in the SOLIDscrew series are available as compressed air systems in the performance class rated between **4 and 15 kW**. The compressor is mounted on a **receiver**. This compact design has a small footprint and saves extra pipework. The effective aftercooler and **electronic control** are also standard equipment for these versions.



Type SOLIDscrew	Effective free air delivery in m³/min at maximum pressure			Motor power	Dimensions	Weight	Compressed air outlet
	7.5 bar	10 bar	13 bar	kW	W x D x H (mm)	kg	
SOLIDscrew 4 R	0.60	0.50	0.39	4	1450 x 550 x 1400	245	G 1/2"
SOLIDscrew 5 R	0.82	0.70	0.60	5,5	1450 x 550 x 1400	270	G 1/2"
SOLIDscrew 7 R	1.15	1.00	0.85	7,5	1915 x 650 x 1640	420	G 3/4"
SOLIDscrew 11 R	1.65	1.45	1.25	11	1915 x 650 x 1640	430	G 3/4"
SOLIDscrew 15 R	2.52	2.20	1.85	15	1915 x 650 x 1640	480	G 3/4"

Emitted sound pressure values in accordance with DIN 2151, 70 – 78 dB(A) / SOLIDscrew 4 S – SOLIDscrew 75 S
Effective free air delivery figures in accordance with ISO 1217, appendix C, at 20°C ambient temperature and maximum pressure

SOLIDscrew compressed air stations: High-quality that comes with a dryer and receiver.

Our SOLIDscrew compressed air stations are the ideal choice for anyone who depends on dry compressed air for their particular application.

Available in versions ranging from **4 to 15 kW**, they comprise a SOLIDscrew **screw compressor** mounted on a **receiver**, and include a powerful **dryer**.



Type SOLIDscrew	Effective free air delivery in m³/min at maximum pressure			Motor power	Dimensions	Weight	Compressed air outlet
	7.5 bar	10 bar	13 bar	kW	W x D x H (mm)	kg	
SOLIDscrew 4 RD	0.60	0.50	0.39	4	1450 x 550 x 1400	290	G 1/2"
SOLIDscrew 5 RD	0.82	0.70	0.60	5.5	1450 x 550 x 1400	335	G 1/2"
SOLIDscrew 7 RD	1.15	1.00	0.85	7.5	1915 x 650 x 1640	500	G 3/4"
SOLIDscrew 11 RD	1.65	1.45	1.25	11	1915 x 650 x 1640	605	G 3/4"
SOLIDscrew 15 RD	2.52	2.20	1.85	15	1915 x 650 x 1640	710	G 3/4"

Emitted sound pressure values in accordance with DIN 2151, 70 – 78 dB(A) / SOLIDscrew S 4 – SOLIDscrew S 75
Effective free air delivery figures in accordance with ISO 1217, appendix C, at 20°C ambient temperature and maximum pressure

1 SOLIDdry refrigerant compressed air dryer

Compressed air which is wet, or contains oil or dirt, impacts on your entire compressed air system. The accumulated condensate will cause premature wear of your compressed air tools and lead to poor work results (e.g. painting or spraying). Refrigerant compressed air dryers in the SOLIDdry series have undergone extensive testing to tailor them to the performance data of our screw compressors. All models can be supplied with an optional bypass and pneumatic level-controlled SOLIDrain condensate drain.

2 SOLIDclean compressed air filter

In addition to drying, optimal compressed air treatment also requires filtering of the air. The compressed air filters of the SOLIDclean range are able to remove the finest oil/water aerosols and dirt up to a particle size of $0.01 \mu\text{m}^3$. They come with a standard automatic float valve for condensate discharge, and can optionally be supplied with a differential pressure indicator for early identification of maintenance intervals. If required, all filters can also be equipped with our SOLIDrain condensate drain.

3 SOLIDrain and SOLIDtronik condensate drains

Most of the condensate which accumulates during the compression process is collected in the compressed air receiver and the compressed air dryer, but some also collects in the filter. Condensate needs to be drained at regular intervals. Otherwise, there is a risk that the condensate could be swept away with the air flow and contaminate your entire compressed air network. There are two different condensate drains to choose from:

1. SOLIDrain. This pneumatic level-controlled system uses electronic level detection to drain the condensate efficiently without any pressure loss.

2. SOLIDtronik. The automatic SOLIDtronik drain valve discharges the accumulated condensate at the manually predefined intervals and timing that you set.

4 SOLIDsep oil/water separation systems

Condensate detected and discharged by the condensate drain is heavily contaminated with dirt and oil. Discharging this condensate directly into the public sewer system would have serious implications for the environment. For this reason, the law states in § 7a of the German Water Resources Act that condensate must be treated. Since disposing of it through an external waste disposal company can be complicated and very expensive, purchasing your own separation system will pay for itself after only a short period of operation.



SOLIDair Type	Flow capacity*	max. operating pressure	Pressure differential, full load	Required power input	installed power input	Compressed air connection	Cooling air requirement	Dimensions	Weight
	m³/min	bar	bar	kW	kW		m³/min	W x D x H (mm)	kg
SOLIDdry 4	0.40	16	0.015	0.13	0.26	G ½	1.50	450 x 210 x 430	19
SOLIDdry 6	0.60	16	0.031	0.17	0.26	G ½	1.50	450 x 210 x 430	19
SOLIDdry 9	0.90	16	0.032	0.25	0.35	G ½	3.67	500 x 210 x 506	24
SOLIDdry 12	1.20	16	0.055	0.25	0.35	G ½	3.67	500 x 210 x 506	24
SOLIDdry 22	2.20	16	0.172	0.57	0.76	G ½	6.33	520 x 225 x 565	31
SOLIDdry 30	3.00	16	0.259	0.78	0.92	G ¾	9.17	520 x 225 x 565	35
SOLIDdry 40	4.00	16	0.137	0.71	0.95	G 1½	9.00	555 x 425 x 600	52

*In relation to the intake state of the compressor (20° C, 1 bar) at a safety compressed air temperature of +35° C, safety operating pressure 7 bar.

SOLIDair Type	Power*	Connection	Dimensions (mm)			Weight
	m³/min		A	B	C	kg
SOLIDclean 5 V/F/A	0.53	1/4	69	168	21	0.6
SOLIDclean 10 V/F/A	1.00	3/8	89	267	24	1.2
SOLIDclean 18 V/F/A	1.80	1/2	89	267	24	1.2
SOLIDclean 30 V/F/A	3.00	3/4	109	367	34	2.4
SOLIDclean 45 V/F/A	4.50	1	109	367	34	2.4

*Applications require a filtration temperature of 20° C and a working pressure of 7 bar.

Correction factor for dimensioning of dryers in case of deviating operating data:												
Ambient/cooling water outlet temperature (°C)	20	25	30	35	40	45	50					
Factor f ₁	1.06	1.00	0.94	0.88	0.82	0.76	0.70					
Inlet temperature (°C)	30	35	40	45	50	55	60					
Factor f ₂	1.21	1.00	0.84	0.70	0.59	0.49	0.41					
Operating overpressure (bar)	3	4	5	6	7	8	9	10	11	12	13	14
Factor f ₃	0.74	0.83	0.90	0.96	1.00	1.03	1.06	1.08	1.10	1.12	1.13	1.14
Operating overpressure (bar)	3	5	7									
Factor f ₃	1.00	1.10	1.40									

SOLIDair Type	Connection	Weight	Dimensions	max. pressure
		kg	W x D x H (mm)	bar
SOLIDdrain	G 1/2	0.8	164 x 65 x 118	0.8–16
SOLIDtronik	G 3/8	0.4	43 x 90 x 108	0.5–16

SOLIDair Type	max. compressor performances	Dimensions
	m³/min	W x D x H (mm)
SOLIDsep 1	1.8	220 x 222 x 528
SOLIDsep 2	3.5	375 x 254 x 595



Our range of clever compressors:

- Piston compressors up to 7.5 kW
- Screw compressors up to 75 kW
- Special dental compressors

SOLIDair compressors as well as accessories and service are available from your qualified specialist dealer!

SOLIDair is a brand of the BOGE Group

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