

Oil-free Reciprocating Compressors Dental Series

Delivery 65 to 1190 l/min – Pressure 7 bar

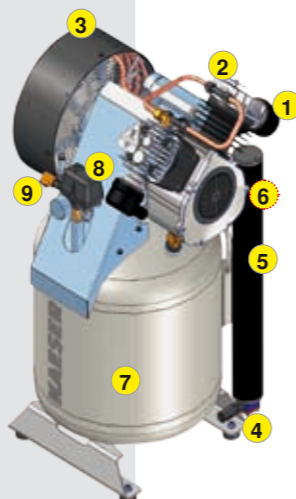


Why choose a KAESER dental compressor?

Because you expect your dental compressor to provide oil-free, dry and hygienic compressed air, especially in times of significantly increased air demand. This is one of the most important requirements for satisfied patients, dental laboratory partners and successful clinical work.

KAESER dental compressors provide the perfect technical solution and offer the following benefits:

- A dependable compressed air supply that complies with EN ISO 7494-2:2003, Dentistry - Dental Units Part 2: Water and Air Supply (ISO 7494-2:2003)
- Reliable compliance with the requirements and recommendations of dental material manufacturers
- Significant contribution to the high quality-assurance standards of dentists and dental technicians
- Protect patients from increased risk of infection
- Increased reliability of integrated components in dental equipment such as air motors, multi-function syringes, air scalers, air abrasion systems, micro air-dryers etc.
- Dependable air supplies for dental laboratories which use a wide variety of equipment ranging from simple air nozzles to modern CAD/CAM systems that require large volumes of compressed air
- A reliable compressed air supply enables professors and students alike to focus on research and learning
- Effective prevention of premature wear in dental equipment

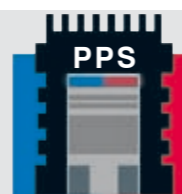


- 1 Inlet filter
- 2 Air end
- 3 After-cooler
- 4 Pre-separator
- 5 Desiccant dryer (SECCOMAT)
- 6 Fine filter (integrated)
- 7 Air receiver
- 8 Pressure switch
- 9 Compressed air take-off point

KAESER – Quality Guaranteed

Advantages through innovation

- The KAESER "Permanent Power System" ensures exceptional performance
- Each system is designed to meet the growing compressed air demands of dental practices and laboratories
- Highly efficient and reliable air treatment with SECCOMAT dryers
- User-friendly design and easy to operate
- Simple installation
- Unrivalled energy efficiency
- Long service life



Exceptional performance: Permanent-Power-System

Providing unrivalled performance, KAESER's "Permanent Power System" (PPS) enables up to 90 percent compressed air availability. To regenerate the desiccant in the SECCOMAT dryer, the PPS uses a highly efficient process whereby fresh ambient air is drawn in and warmed via the compressor and then passed through the dryer. This technique has several key advantages: Firstly, the resulting internal cooling of the compressor block increases efficiency and service life. Secondly, the warmed air is perfect for purge air as it can carry far more moisture than cool air. This process is also much faster than conventional regeneration methods which use diverted compressed air that is cooled as a result of subsequent expansion. Consequently, the KAESER "Permanent Power System" significantly extends the compressed air system's power phases and enables unprecedented compressed air availability.



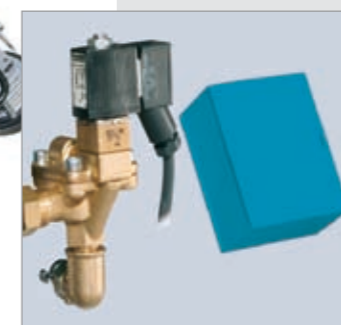
Durable KAESER compressor block

KAESER compressor blocks are made from materials of the highest quality. Produced in Coburg, Germany, each component is manufactured, inspected and assembled with meticulous care and precision. Together with KAESER's innovative "Permanent Power System", these durable compressors provide outstanding performance and unrivalled energy efficiency.



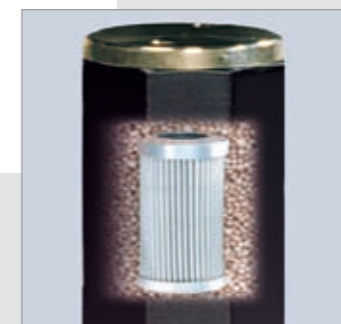
Replaceable Teflon seals

Both piston rings and the guide ring for each piston are Teflon-coated to ensure maximum durability. Moreover, they are easy and inexpensive to replace should the need arise and, as a result, further extend the exceptionally long service life of KAESER Dental compressed air systems.



Compact PPS control unit

The "Permanent Power System" controls switching via a 4/2-way solenoid valve.



Dependable: SECCOMAT dental dryers

Dryer power is significantly increased if condensate droplets are pre-separated from the air before it reaches the dryer. By using warm air, the "Permanent Power System" is able to regenerate the desiccant faster and more reliably.

DENTAL - Air for every application

**KAESER
DENTAL**

Reciprocating compressor Air filters Compressor block Cooling Condensate separation Drying Filters Air receiver Air treatment Dental clinics Dental practices Dental Laboratories

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Rotary screw compressor Air filters Airend Cooling Condensate separation Drying Filters Air receiver Air treatment Dental laboratories University hospitals



1T, 3T and 5T Dental Series

These proven dental compressors combine high performance with compact design. Highly durable and reliable, each unit is virtually maintenance-free and provides oil-free air with minimal power consumption. They are the perfect choice for dental practices with up to five treatment units and for medical and dental laboratory uses.



5/2T Dental Series

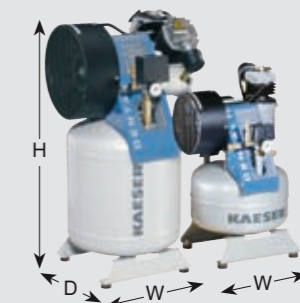
This dependable range of dual compressor block dental compressors enables quiet and efficient production of large volumes of oil-free dental air with minimal maintenance requirement. They provide sufficient air for a larger dental practice equipped with an additional prophylaxis treatment unit or integrated dental facilities with a CAD/CAM system.

Cost-effective and hygienic compressed air for every dental need

Whether in a dental practice, laboratory or a hospital clinic, the demands on compressed air supply systems are becoming ever greater. Not only are larger air delivery volumes required, but best possible compressed air quality is also needed. This is essential to ensure that the very latest treatment methods are carried out correctly with maximum hygiene and that the advanced materials involved are able to perform effectively.

With an extensive range of powerful energy-saving compressors and highly efficient compressed air treatment and filter systems, KAESER KOMPRESSOREN is able to provide comprehensive compressed air solutions that meet the needs of any application.

Dental 1T - 5T



Dental 5/2T



Airbox Series



SK and ASK Series



Technical Specifications - Dental Compressors

Model	For treatment units		Permanent Power System PPS	Max. Duty cycle %	Max. Delivery volume at 5 bar l/min	Delivery with continuous operation at 5 bar l/min	Maximum pressure (g) bar	Pressure dew point	Number of cylinders	Air receiver capacity l	Motor power 230 VAC kW	Motor power 400 V 3-phase kW	Dimensions W x D x H mm	Weight kg	Sound level dB(A)
	max.	in continuous operation													
Dental 1T**	1	1	•	Continuous operation possible	65	52	7	Reduction Δ10° C	1	24	0,75	—	480 x 430 x 720	47	65
Dental 3T**	3	2	•		158	135	7	Reduction Δ10° C	2	24	1.4 (2.2)*	1.4 (2.2)*	500 x 490 x 710	65	71
Dental 5T**	5	3	•		262	225	7	Reduction Δ10° C	2	65	2.2	2.2	510 x 510 x 950	87	74
Dental 5/2T	10-12	7	•		524	472	7	Reduction Δ10° C	2 x 2	90	—	2 x 2.2	1200 x 550 x 830	150	77

*) Installed power; **) Appropriate sound-enclosures are available for compressors equipped with an integrated compressed air dryer

Models without dryer

Dental 1	1	—	—	70	65	—	7	—	1	24	0,75	—	430 x 430 x 720	41	65
Dental 3	3	—	—	70	158	—	7	—	2	24	1.4 (2.2)*	1.4 (2.2)*	500 x 490 x 710	60	71
Dental 5	5	—	—	70	262	—	7	—	2	65	2,2	2.2	510 x 510 x 950	79	74
Dental 5/2	10-12	—	—	70	524	—	7	—	2 x 2	90	—	2 x 2.2	1200 x 510 x 830	130	77

For compressors without an integrated compressed air dryer, we recommend on-site installation of a KAESER refrigeration dryer.

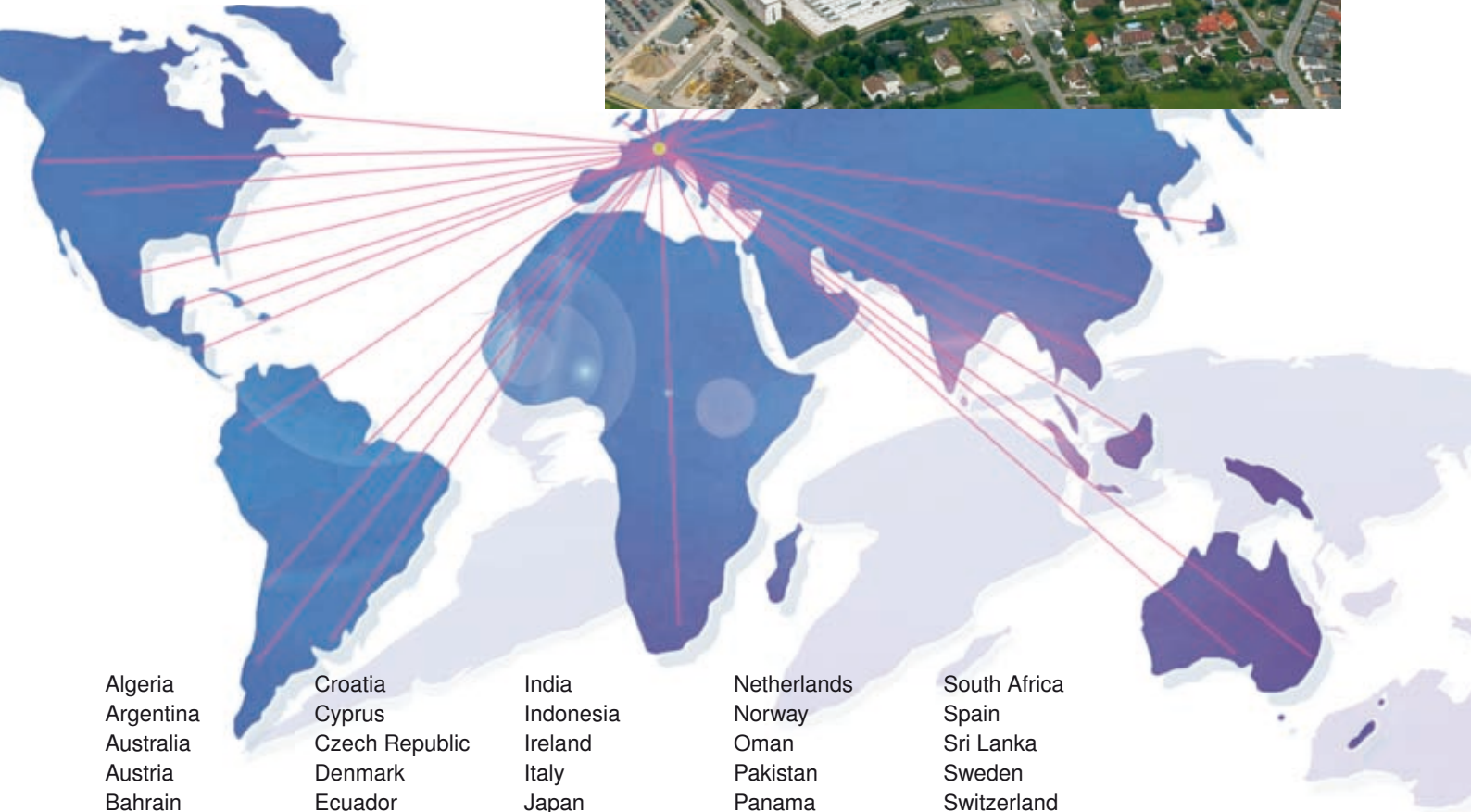
					at 6 bar											
AIRBOX 850T	12 - 14	—	—	60	590	—	7	—	2	—	—	5.5	680 x 670 x 1005	260	68	
AIRBOX 1200T	16 - 18	—	—	60	855	—	7	—	2	—	—	7.5	895 x 905 x 1225	450	68	
AIRBOX 1700T	23 - 25	—	—	60	1190	—	7	—	2	—	—	11	895 x 9050 x 1225	515	69	

Rotary screw compressors

					at 8 bar		at 8 bar									
SK 21T	35-40	28	—	100	1800	1800	8	3°C	—	—	—	11	1335 x 704 x 1200	380	64	
SK 24T	45-50	34	—	100	2200	2200	8	3°C	—	—	—	15	1335 x 704 x 1200	380	65	
ASK 27T	55-60	40	—	100	2600	2600	8	3°C	—	—	—	15	1480 x 780 x 1215	465	66	
ASK 32T	65-70	48	—	100	3150	3150	8	3°C	—	—	—	18.5	1480 x 780 x 1215	480	68	

Worldwide sales and service network:

KAESER – Always there



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