

KAESER
COMPRESSORS®



Compressed air for dental technology

Compressors, refrigeration dryers, filters, controllers

Demand-oriented compressed air production, drying and filtration.

All pressures and flow rates available.

www.kaeser.com

Compressed air supply

As a user, what you expect above all from your compressor and compressed air treatment system is a dependable supply of oil-free, dry and hygienic compressed air, 24 hours a day, 7 days a week. No matter whether for a dental laboratory or preclinical university training, reliable compressed air is the most important requirement to ensure satisfied customers and successful studies.

KAESER KOMPRESSOREN provides the perfect technical solutions for your dental compressed air needs, together with a number of significant advantages:

- Reliable compliance with the requirements and recommendations of dental material manufacturers.
- Effective contribution to the assurance of high-quality dental work.
- Long, dependable service life for your technical equipment.

Dental technology

A dental facility cannot operate without a dependable supply of quality compressed air. No matter whether using simple hand-held air nozzles, or modern CAD/CAM systems with high compressed air demand, compressed air is essential to ensure a dental facility's success. KAESER has the ideal custom solution for every compressed air need and work requirement. It is also possible to retrofit an existing compressed air system with a refrigeration dryer and filters – with no loss of compressed air output in the form of purge air. This allows compressed air quality to be adjusted according to requirement.

CAD/CAM

Modern CAD/CAM milling and grinding machines require large volumes of oil-free, dry and clean compressed air. For rapid amortisation of investments, the systems need to run around the clock, even at weekends if possible. This imposes heavy demands on the compressed air supply. Needless to say, KAESER compressors and compressed air treatment components are more than up to the challenge.

Universities

At universities, a reliable compressed air supply enables professors and students alike to focus on research and learning. A central compressor station ensures a cost-effective and dependable compressed air supply. A well-designed station like this can deliver a reliable supply of quality compressed air to hundreds of student training chairs and large dental technology laboratories.



Made in Germany

Made in Germany: these words are no mere slogan, but represent a continued commitment from KAESER. At our main plant in Coburg, Germany, we apply state-of-the-art manufacturing standards. For all components, such as pressure switches, solenoid valves and air receivers, we select only specialist manufacturers that meet our uncompromising quality standards. Logical, modular designs and clever details enable us to offer an individual, customised and cost-effective solution for every compressed air application. KAESER is dedicated to assuring unrivalled customer satisfaction.

We all need compressed air



Dental laboratories



CAD / CAM



Universities



Image: KCT blue 230-24 T

Image: KCT blue with sound enclosure

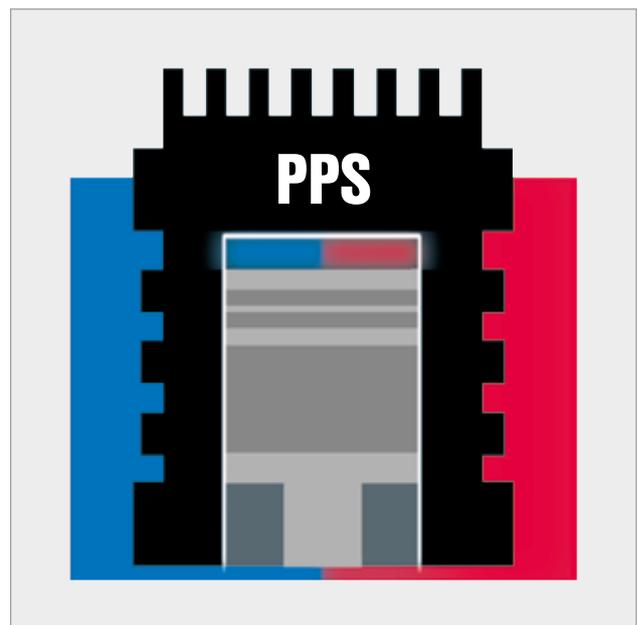


Image: KCT blue 420-90 T

Exceptional performance: Permanent Power System (PPS)

The KAESER “**Permanent Power System**” provides a continuous, on-tap supply of quality compressed air.

To regenerate the desiccant in the SECCOMAT dryer, the PPS uses a highly efficient process, whereby ambient air is drawn in and warmed via the compressor and then passes through the dryer. Heat exchange takes place in the compressor. The ambient air flowing through the system cools the cylinder, the valve plate, and even the Teflon-insulated piston, and is therefore heated as a result. This has important benefits: the warmed air is ideal for use as regeneration air, since it can carry far more moisture than cool air. This technique is also much faster than conventional regeneration methods, which use diverted compressed air that is cooled as a result of subsequent expansion. The usable power phases of the compressed air system are therefore significantly extended, hence: “Permanent Power”.





KCT blue series

KCT blue series reciprocating compressors

KCT blue series reciprocating compressors combine proven technology and impressive performance with exceptionally compact design. With their numerous advantages – oil-free compression, low maintenance requirement, durability, reliability and outstanding energy efficiency – they are the ideal choice for dental laboratory compressed air supplies.

Turn to page 22 for technical specifications

The benefits:

- KAESER “Permanent Power System” offers huge gains in performance.
- Model sizes are matched to the compressed air demand of the individual dental laboratory.
- SECCOMAT for efficient and dependable compressed air treatment.
- Attractive, user-friendly design.
- Simple installation.
- Outstanding energy efficiency.
- Long service life.

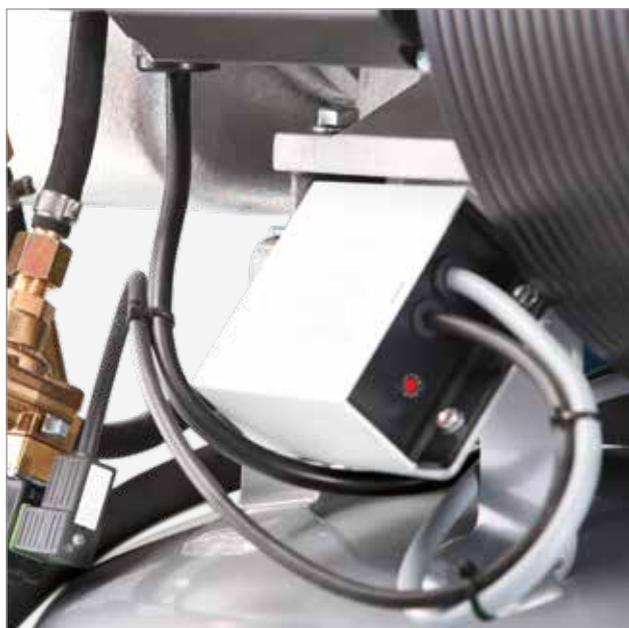


Image: PPS control unit

Another highly beneficial side effect is that the compressors can run continuously if needed. Together with the internal cooling for the compressor components, the entire system cools down during the regeneration phase, which can be seen as an idle state. Although no heat is produced in this phase, the fan keeps running and accelerates the cooling process.

The “brain” of the **Permanent Power System** controls switching behaviour via a 4/2-way solenoid valve. This allows the most economical ratio of Full Load to Idle operation to be adjusted for each model.



'KCT blue' compressor design

- 1) Inlet filter
- 2) Compressor block
- 3) Aftercooler
- 4) Pre-separator
- 5) Desiccant dryer (SECCOMAT)
- 6) Fine filter (integrated)
- 7) Air receiver
- 8) Pressure switch
- 9) Compressed air outlet

Image: KCT blue 420-65 T



KCT blue series

KCT blue systems in detail



Sound enclosure

A retrofit sound enclosure is available for the compressor models KCT blue 110-24 T, KCT blue 230-24 T and KCT blue 420-65 T. The resulting reduction in sound levels makes selection of a suitable installation location far simpler: the nearer a compressor is installed to its point of use, the lower the installation effort and the higher the compressor's efficiency, thanks to shorter compressed air piping.

Fully enclosed installation is also possible, as the compressors are virtually maintenance-free. An opening is provided for access to the pressure switch. The compressors are not physically attached to the enclosure and stand on solid ground. This means that the enclosure remains completely vibration-free. Furthermore, because it is made from steel and features highly durable powder-coating, the enclosure is exceptionally easy to clean.



KAESER compressor block

KAESER compressor blocks are made from the highest-quality materials available. 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 long service life.



Low-maintenance and clean

A KAESER compressor with an add-on dryer needs to be handled only once a year to change the filter. There is no need for manual or automatic condensate drains, collection tanks or connection to a wastewater line.



Image: TAH 10 KRYOSEC



Image: TAH 7 KRYOSEC

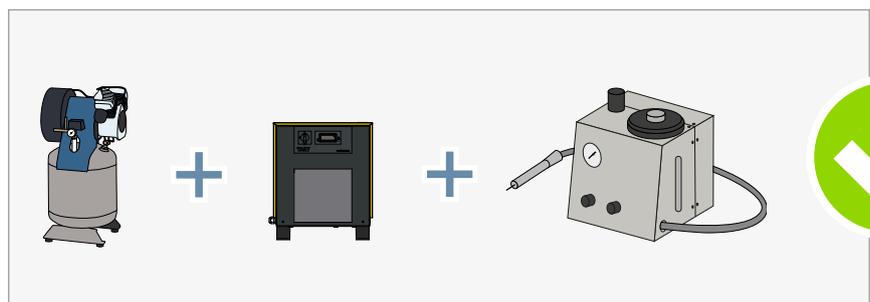
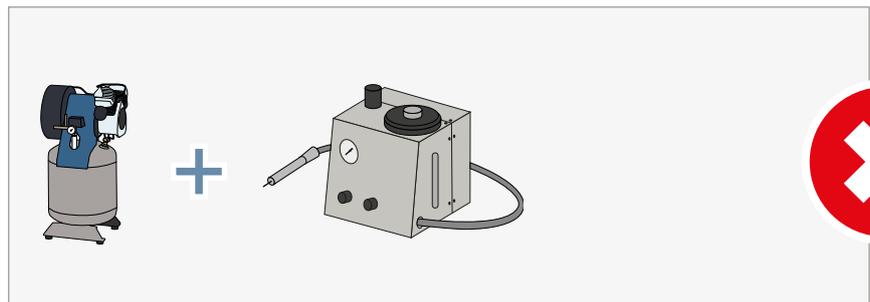


Image: TAH 5 KRYOSEC

Standard-compliant compressed air

Damp compressed air not only affects high quality dental work, but also leads to the premature need for repairs to expensive equipment. This in turn results in downtime and extra costs.

The achievable pressure dew point of +3 °C corresponds to Class 4 as per ISO 8573-1: 2010, which is the class required by most CAD/CAM manufacturers. The terms of the warranty are also linked to this.





KRYOSEC refrigeration dryers – TAH series

Exceptional reliability in a highly compact package

KRYOSEC refrigeration dryers deliver outstanding Made in Germany levels of quality. They provide dependable drying at ambient temperatures up to +50 °C. That is 10 °C better than is generally required for compressed air in dental applications. Low pressure loss in the heat exchanger system and a low-maintenance design ensure economical operation. Their small footprint makes KRYOSEC series machines an excellent choice for laboratory facilities, where space is often at a premium.

[Turn to page 22 for technical specifications](#)

The benefits:

- Easy replacement of the add-on dryer, if necessary.
- No compressed air required for drying.
- Following dryer installation, compressed air flow remains unchanged or increases.
- The pressure dew point of your existing compressed air supply can be adapted to meet the latest dental technology requirements.
- Material adhesion is not affected by moisture.
- Dependable moisture protection for instruments and equipment.
- Longer instrument service life.
- Future-proof compressed air quality.

Why is dry compressed air needed for dental applications?

Compressed air is a key energy source and work medium in dental practices and laboratories. Years of experience from dental technicians has shown that quality dental work requires dependably dry compressed air.

Example: Before the framework can be fitted with veneers, it must first be carefully cleaned. If condensed water suddenly shoots out of the air-jet nozzle during this step, then the work has to be restarted from the beginning – an all-too familiar inconvenience for many dental technicians.

Moreover, operation of dental equipment requires dry air at all times, since the equipment contains numerous components whose perfect performance depends – amongst other aspects – on the quality of the compressed air. If moisture causes failure of a sandblasting unit, it may need to be partially disassembled. This not only results in down-time, but also leads to significant costs.



KRYOSEC refrigeration dryers – TAH series

Efficient in every detail



Special cooling air flow

The cleverly designed cooling air flow in KRYOSEC dryers is a decisive factor in their reliability. Placement of the fan in a separate enclosure immediately adjacent to the refrigerant condenser avoids reduced performance through bypass flows.



Optimal performance adjustment

The hot gas bypass control ensures optimised compressed air cooling and prevents harmful ice formation. Moreover, KRYOSEC dryers can automatically adapt to the influence of ambient pressure.



Dependable condensate drainage

With the ECO-DRAIN electronic condensate drain, condensate is reliably drained away as required, without pressure loss. To protect against condensation and corrosion inside the system, cold surfaces are insulated. A ball valve installed at the condensate inlet enables quick and easy maintenance.



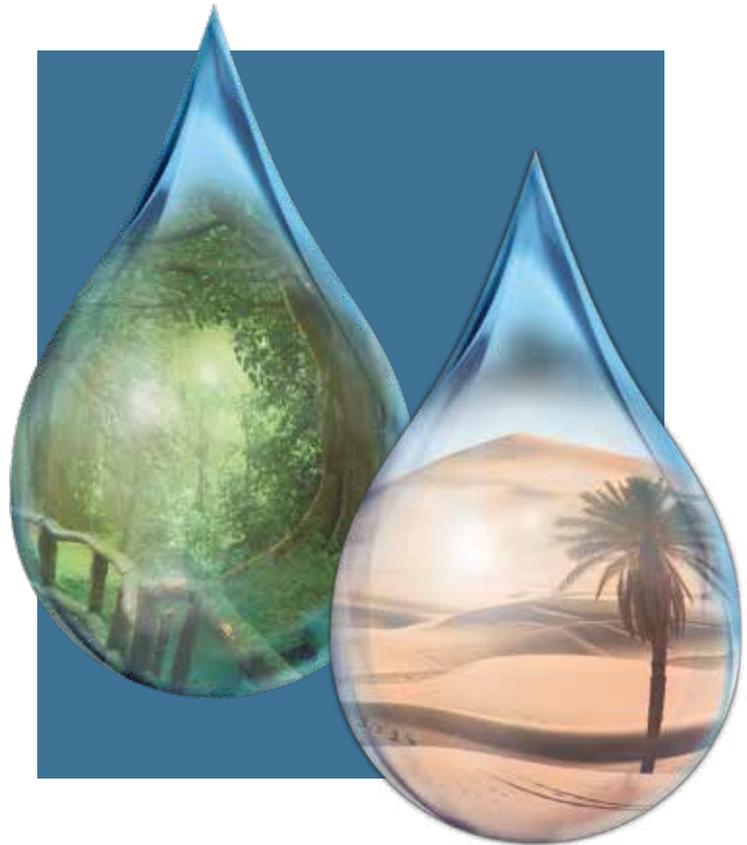
Simple function controls

KRYOSEC dryers feature a dew point trend indicator. The practical colour scale allows the user to check system status at a glance.

Where and why does condensate form?

What leads to moisture load in a compressed air system? It is attributable to the fact that 100% dry, or “absolute” dry air does not exist in nature. Atmospheric air, whether it be in a tropical rainforest or a desert, always contains a certain amount of water vapour. The ability of the air to carry water vapour depends on the temperature and the available volume. The following instances illustrate the volumes of condensate that may be encountered: for example, 1000 l of air (sufficient to feed a dental turbine for 20 minutes) contains about 23 g of water vapour at a temperature of +25 °C and 100% relative humidity.

If the temperature decreases to +20 °C, the air can then hold only about 17 grams of water. The remaining 6 grams of water forms as condensate. During a 12-hour working day, a compressor feeds about 0.48 l of water into the compressed air network, assuming compressed air output of 65 l/min (at +25 °C, 60% relative humidity and atmospheric pressure, without a dryer).



Physics at the service of dentistry

For dental laboratory applications, compressed air is needed at a gauge pressure of at least 5.5 bar; 7 bar is not uncommon when using a CAD/CAM system. If an 8-litre volume of air at standard atmospheric pressure is compressed to 7 bar, it then has a volume of just 1 litre. Consequently, the water vapour concentration increases. The increased pressure not only reduces the volume, it also heats up the air. The warm compressed air can initially hold the same amount of water; as it cools, however, its ability to hold water is reduced and condensate forms. If this occurs in the receiver, it will result in higher maintenance requirement. If condensation forms in the

compressed air pipelines, work quality and/or instrument service life will suffer. To eliminate this potential risk, the damp compressed air is channelled through the KRYO-SEC dryer and cooled in a high-quality heat exchanger system comprising stainless steel plates. The accumulating condensate is efficiently separated at all operating phases via the integrated separator. This is followed by reliable condensate removal, without pressure loss, via the ECO-DRAIN electronic condensate drain. The compressed air flowing out of the dryer is now dry and in full compliance with applicable standards.

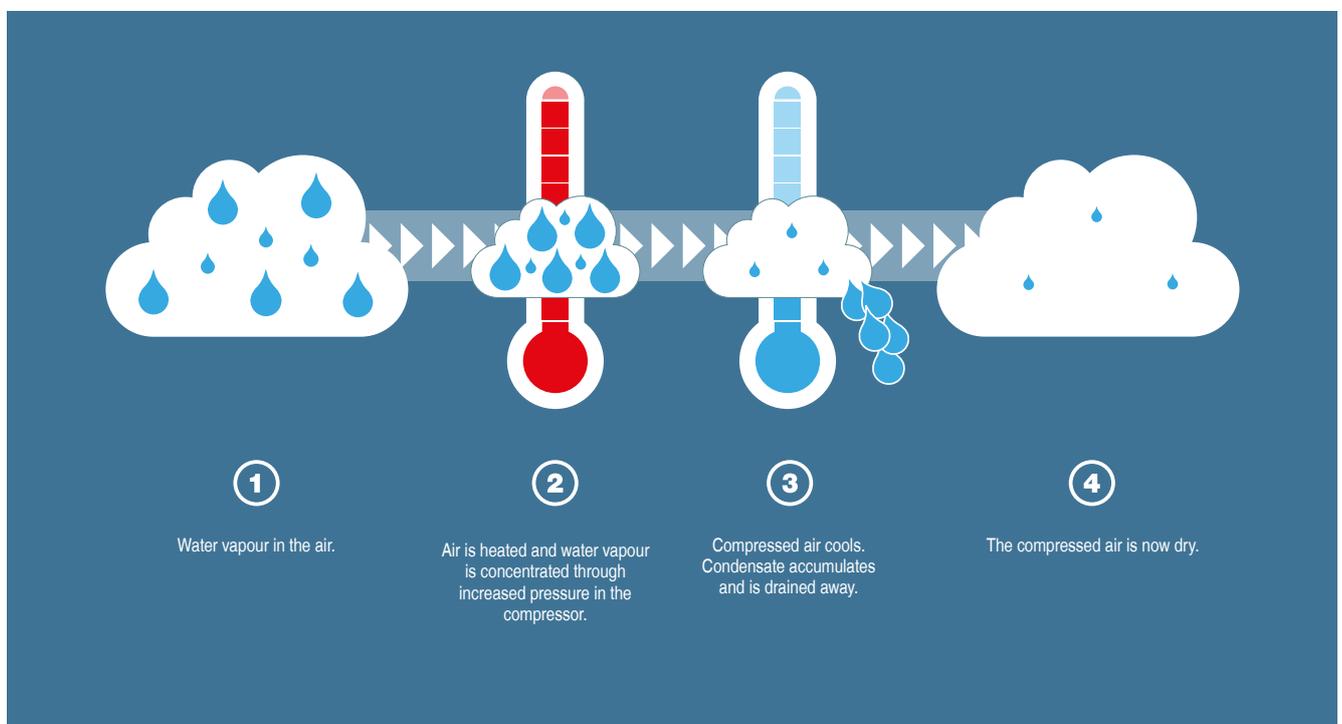




Image: AIRBOX CENTER 1500, i.Comp 9 TOWER T



The all-in-one compressed air station

Combining an energy-saving reciprocating compressor, refrigeration dryer and air receiver, this system is supplied ready for action as a plug-and-play unit.

The complete system delivers outstanding energy efficiency, ease of maintenance, durability and perfectly matched components to ensure years of dependable, cost-effective service.

All that is needed is to connect this compact compressed air system to the power supply and the compressed air distribution network. It is as simple as that – no further installation work is required.



AIRBOX CENTER, i.Comp TOWER T

Efficient production of high-quality compressed air

The concept of installing an oil-free compression reciprocating compressor in a soundproof enclosure is nothing new. In its AIRBOX CENTER and i.Comp TOWER T systems however, KAESER has combined this time-tested concept with the latest compressor technology. This results in efficient product solutions for high-quality compressed air in universities or larger dental laboratories. Up to 20 treatment chairs – or even more, depending on usage patterns – can be supplied simultaneously with compressed air that meets the highest quality standards. AIRBOX CENTER and i.Comp TOWER T systems are efficient, all-in-one compressed air solutions that combine a compressor, air receiver and

compressed air treatment components with a refrigeration dryer and optional filters. Mounted atop either a single 270 l or 2 x 40 l capacity air receivers, they are perfect all-round compressed air stations.

With the i.Comp 8 and 9 space-saving compact stations, KAESER is proud to present a completely new compressed air supply concept. At the heart of the innovative i.Comp family is a new drive concept, which provides a multitude of advantages. These systems deliver the necessary power to cover the required compressed air demand with infinitely variable control.

[Turn to page 23 for technical specifications](#)

The benefits:

- Reliable moisture protection for your work, equipment and instruments.
- The compressor keeps working reliably even when temperatures in your compressor room are high.
- Automatic, strain-relieved condensate line keeps maintenance to a minimum.
- Low pressure drop in the dryer and in filters (if installed). This enables you to run the system at lower pressure and therefore to save costs.
- The high-performance refrigerant condenser and quality refrigerant compressor ensure condensate-free compressed air, even under the most demanding conditions.
- Exceptional efficiency.



Integrated refrigeration dryer

The integrated refrigeration dryer with energy-saving control can dry the compressed air down to a pressure dew point of +3 °C (at an ambient temperature of +20 °C and 30% relative humidity). This pressure dew point corresponds to Class 4 as per ISO 8573-1: 2010.

Ensuring even greater reliability, a separate enclosure shields the dryer from compressor exhaust heat. Moreover, the dryer shutdown feature – activated via the compressor controller – is linked to compressor operation and significantly reduces energy consumption when the compressor is at rest.



Image: Central compressed air supply (example)



SIGMA CONTROL 2

The SIGMA CONTROL 2 controller ensures efficient compressor control and system monitoring. The large display and RFID reader provide effective communication and maximum security. Multiple interfaces offer exceptional flexibility, whilst the SD card slot makes updates quick and easy.



AIRBOX CENTER, i.Comp TOWER T

Compressed air station in detail



Comfortably quiet

With high-performance soundproofing, innovative multi-deflected cooling air flow and an acoustically decoupled compressor block, the AIRBOX CENTER and i.Comp TOWER T systems are better than just quiet – they are near silent.

The i.Comp TOWER T features an attractive enclosure made of roto-moulded polyethylene, which provides impressive impact resistance and value retention.

100% duty cycles

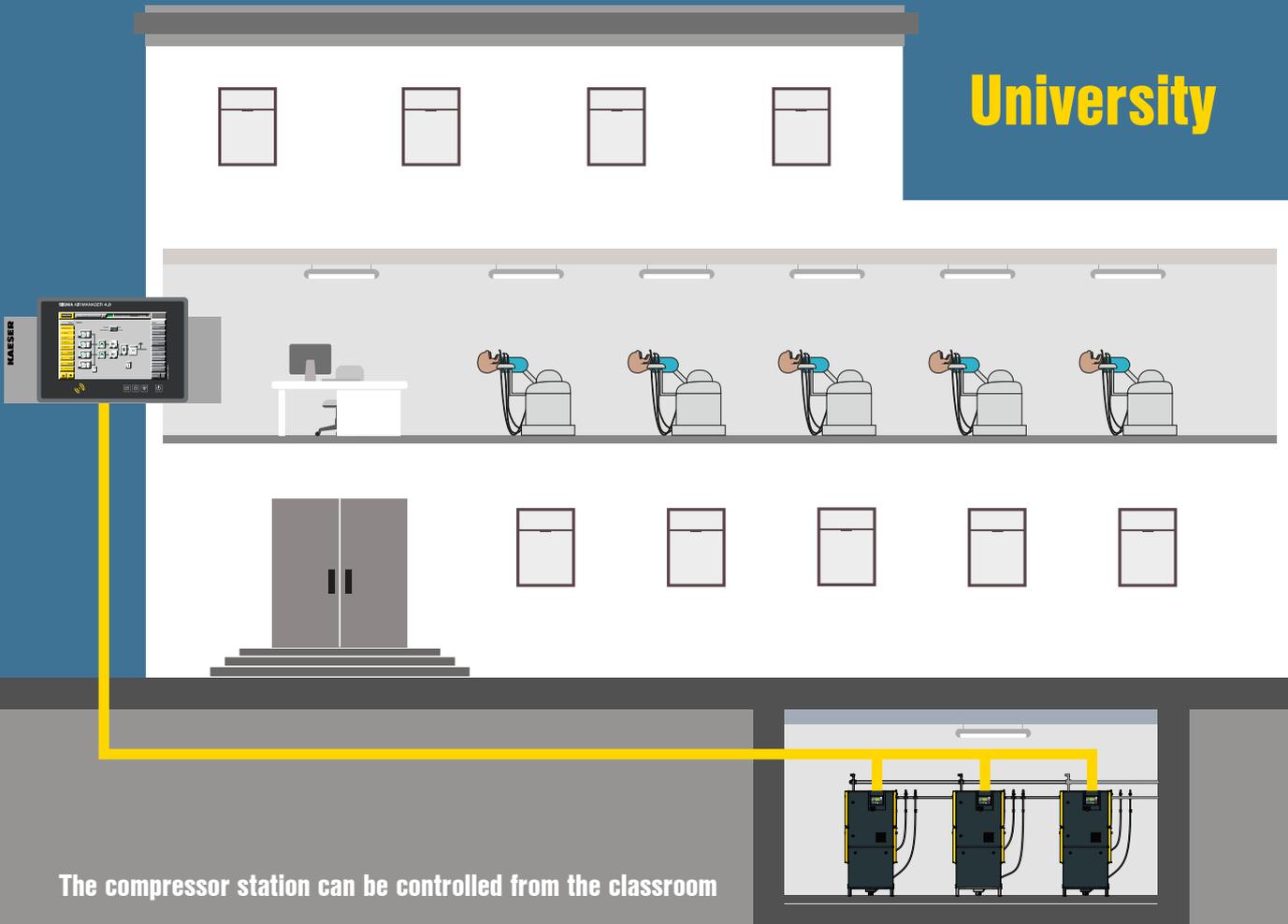
Thanks to an innovative cooling design, featuring a powerful fan for each of the drive motor and compressor block, together with precisely tailored cooling air flow, the i.Comp TOWER T is capable of 100% duty cycles at ambient temperatures up to +45 °C.



AIRBOX CENTER and i.Comp TOWER T with KAESER FILTER

With an air intake filter, oil-free compression and an integrated refrigeration dryer, the AIRBOX CENTER and i.Comp TOWER T are ready to supply compressed air of exceptional quality as soon as they are delivered. For applications requiring maximum compressed air quality, all AIRBOX CENTER and i.Comp TOWER T systems can be equipped with optional add-on filters for enabling all levels of quality to be achieved. For dental laboratory applications, a KE microfilter must be installed.

University



The compressor station can be controlled from the classroom

SIGMA AIR MANAGER 4.0 (SAM 4.0)

Highest possible pressure performance, tailored to your specific needs

This is made possible in no small part by KAESER's Adaptive 3-D^{advanced} Control, which continuously analyses the relationship between various parameters (such as switching and control differential) and predictively selects the optimum combination from the numerous available options. Not only are starts and stops taken into consideration, but so too are idling and frequency converter losses, together with pressure flexibility. Moreover, the compressed air system's pressure performance value is optimised and average pressure is reduced.

When machines "talk"

The SAM 4.0 supports operation in 30 languages, whilst the easy-to-use 12-inch colour touchscreen shows at a glance whether the station is operating in the "green zone" from an energy management perspective. Data such as operating status, pressure trends, flow rate, performance, maintenance and any alarm messages – both past and present – can be displayed and analysed with ease.

The SIGMA AIR MANAGER 4.0 is a comprehensive solution that allows you to store and analyse all relevant, energy-related data from your compressed air supply, and then create specific reports for your certification in accordance with DIN EN ISO 50001 – all in the blink of an eye.



Perfectly adapted

Compressed air control technology

Industrie 4.0 is spreading quickly throughout all market sectors – and universities are no exception. In addition to providing student dentists with conventional scientific knowledge and hands-on skills, professors also impart the latest insights from their own research activities, as well as those from institutions and experts around the world. This includes information relating to innovative materials and techniques used in dentistry.

This is a compelling reason for universities to keep their own equipment up to date. Only those who use cutting-edge technology themselves can be true trailblazers. This not only means proper disposal of waste from a dental

practice, but also a determined approach to energy conservation. Optimisation of the compressed air supply in a clinic is a key aspect in this regard. Perfect interplay between multiple large compressors – KAESER i.Comp Tower T – and the SAM 4.0 master controller not only provides a dependable compressed air supply for teaching programmes, but also ensures exceptional energy efficiency to help safeguard the environment.

Up to 16 fully independent compressed air stations can be controlled simultaneously by the SAM 4.0, which groups the individual compressors as one large station.

The benefits:

- A compressed air supply to meet your needs at all times.
- Lowest possible energy consumption and costs.
- SAM 4.0 can be programmed according to the timetable of a university clinic.
- SAM 4.0 can be used as a remote control system.
- Balancing of operating hours of the individual compressors.
- Each individual compressor can be shut down for maintenance.
- The compressed air station can be expanded as necessary.



SIGMA NETWORK

The SAM 4.0 offers even greater benefits when users also take advantage of KAESER's SIGMA NETWORK.

Based on proven Ethernet technology, the powerful SIGMA NETWORK is a closed and secure network specially developed to support optimal monitoring and coordinated control of compressed air stations.

Remote diagnostics and predictive maintenance

Other powerful features that set SAM 4.0 apart are remote diagnostics and predictive maintenance, tailored to operational needs. Maintenance and alarm messages are immediately sent via E-mail to a preselected personal address. With remote diagnostics, users can benefit from such services as preventative and on-demand maintenance, which increase compressed air availability and reliability and help keep life-cycle costs to an absolute minimum.



Image: AIRCENTER 8



Adapting the dental laboratory compressed air supply to CAD/CAM

To be able to mill crowns and bridges themselves, dental laboratories require a CAD/CAM system. Successful integration of such a system into a laboratory necessitates review and adaptation of the compressed air supply. It generally means an increase in compressed air demand and in the required pressure in the connection line.

Minimum pressures of 7 bar and above are no longer a rarity, particularly for ensuring the secure attachment of cutting tools. Perfect tool changes, cleaning of the work area with compressed air and proper cooling of workpieces are all essential for achieving optimal results.



CAD/CAM

Dependable continuous operation with the AIRCENTER

Ideally, a CAD/CAM system in a laboratory should be in use around the clock, including weekends. In such cases, the best solution for the compressed air supply is provided by an AIRCENTER – a rotary screw compressor that is specifically designed for continuous operation and heavy workloads. Requiring minimal installation space, these units save on planning and installation costs and deliver a reliable, cost-effective supply of quality compressed air. At the heart of the KAESER AIRCENTER is a rotary screw compressor from KAESER's SX, SM or SK series.

SX 3 to SK 25 models provide compressed air delivery volumes ranging from 340 to 2500 l/min at 7.5 bar. A thermally-shielded refrigeration dryer and an integrated filter ensure a dependable supply of dry, clean and oil-free compressed air. The compressed air is stored in either a 200 l, 270 l or 350 l air receiver. The compressor, dryer and air receiver are all enclosed within a single housing.

[Turn to page 23 for technical specifications](#)

The benefits:

- With an AIRCENTER compressed air supply, your CAD/CAM system can operate 24 hours a day, 7 days a week.
- The compressor operates according to your schedule, as the control unit includes a timer function.
- The generously dimensioned air receiver ensures that sufficient compressed air is always available – even when compressed air demand is heavy.
- An appropriately configured AIRCENTER compressor can supply compressed air to all other equipment in a dental laboratory.
- Placement of the compressor directly in the laboratory can save on installation costs.
- There is no need to worry about condensate build-up, as it is automatically drained away.



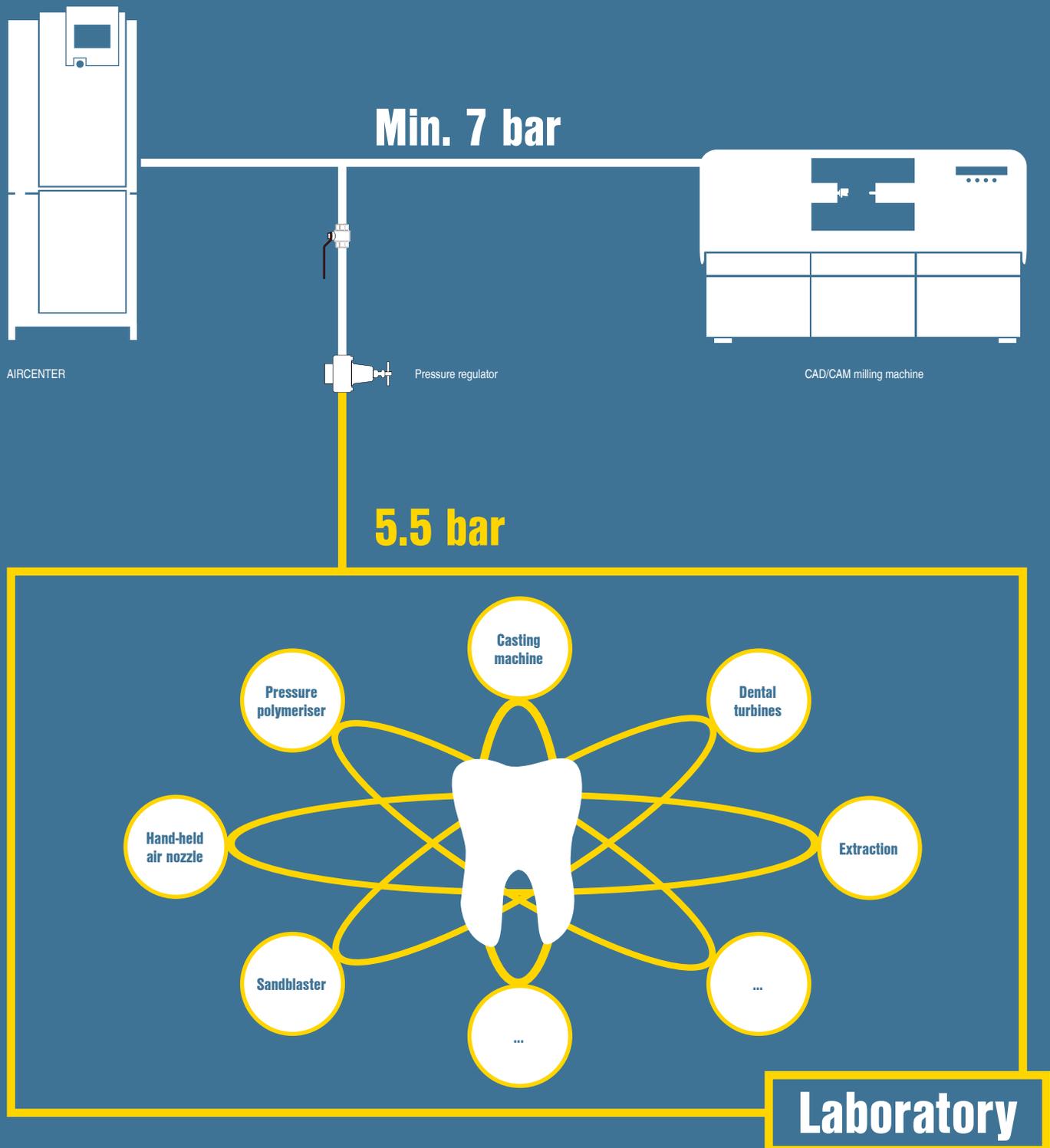
If the existing compressed air supply delivers a sufficient volume at the required pressure, the quality of the compressed air can be enhanced as needed by retrofitting a refrigeration dryer and filter. But if the current compressor falls short of those basic requirements, it is time to consider a replacement. Identifying the right solution for your specific needs will require individual planning and decision-making. KAESER will be glad to assist you.

CAD/CAM

Correct installation

In most cases, the CAD/CAM system requires a minimum pressure of 7 bar. For all other equipment in a dental laboratory, 5.5 bar is generally sufficient. To minimise leakage losses in the main compressed air pipeline, it is advisable

to reduce pressure using a pressure regulator as shown in the schematic diagram below.





CAD/CAM

Various compressed air options



AIRCENTER

The all-in-one compressed air station for dental laboratories of any size. The milling centre, with its heavy demand for compressed air, should have a constant workload, preferably around the clock, including weekends.

These conditions leave no room for extended compressor downtime, such as may be necessary for cooling and regeneration of the compressed air dryer.

Since the AIRCENTER is based on a modular design, each individual component is also available as a separate stand-alone product. If an AIRCENTER cannot be installed due to transport difficulties or site restrictions, an equivalent compressed air station comprising these individual components can be installed on-site instead.



KCT blue

An all-in-one compressed air station for a small dental laboratory with CAD/CAM.

i.Comp TOWER T

A complete compressed air station for larger dental laboratories with CAD/CAM.



Technical specifications

KCT blue... with add-on dryer

Model		KCT blue					
		110-24 T	230-24 T	230-65 T	420-65 T	401-65 T	420-90 T
Min. / max. gauge pressure	bar	5.5 / 7	5.5 / 7	7.5 / 9	5.5 / 7	7.5 / 9	5.5 / 7
Permanent Power System	PPS	Integrated					
Max. duty cycle	%	Continuous operation possible					
Max. flow rate at 5 bar	l/min	62	158	Upon request	230	Upon request	460
Max. flow rate at 7 bar	l/min	Upon request	Upon request	125	Upon request	234	Upon request
Flow rate with continuous operation at 5 bar	l/min	50	126	Upon request	193	Upon request	385
Flow rate with continuous operation at 7 bar	l/min	Upon request	Upon request	104	Upon request	181	Upon request
Pressure dew point ⁽¹⁾	°C	Reduction Δ 10 °C					
Number of cylinders		1	2	2	2	2	2 x 2
Air receiver volume	l	24	24	65	65	65	90
Motor power 230/1/50	kW	0.75	1.5	1.5	2.2	2.4	–
Motor power 400/3/50	kW	–	1.5 (2.2) ⁽¹⁾	1.5 (2.2) ⁽¹⁾	2.2	2.4	2.2 x 2
Dimensions (for 230/1/50) (W x D x H)	mm	430 x 490 x 740	500 x 500 x 730	500 x 500 x 950	520 x 510 x 970	610 x 500 x 1040	–
Dimensions (for 400/3/50) (W x D x H)	mm	–	500 x 550 x 730	490 x 560 x 950	490 x 560 x 960	580 x 550 x 1040	1100 x 580 x 850
Weight	kg	51	75	90	90	102	151
Sound pressure level	dB(A)	65	71	70	70	78	73
Permissible ambient temperature	°C	5 - 35					
Sound enclosure installation set							
Dimensions (W x D x H)	mm	740 x 660 x 790	740 x 660 x 790	790 x 700 x 1040	790 x 700 x 1040	Upon request	–
Weight	kg	40	40	55	55	Upon request	–
Sound pressure level	dB(A)	52	62	59	59	Upon request	–

KCT blue... with optional external dryer

Model		KCT blue				KRYOSEC		
		110-24	230-24	420-65	420-90	TAH 5	TAH 7	TAH 10
Min. / max. gauge pressure	maximum	5.5 / 7	5.5 / 7	5.5 / 7	5.5 / 7	3 / 16	3 / 16	3 / 16
Max. duty cycle	%	70				100		
Max. flow rate at 5 bar	l/min	62	158	230	460	350	600	800
Flow rate with continuous operation at 5 bar	l/min	–				350	600	800
Pressure dew point ⁽¹⁾	°C	–				3		
Number of cylinders		1	2	2	2 x 2	–		
Air receiver volume	l	24	24	65	90	–		
Motor power 230/1/50	kW	0.75	1.5	2.2	2 x 2.2	0.12	0.16	0.19
Motor power 400/3/50	kW	–	1.5 (2.2) ⁽¹⁾	2.2	2 x 2.2	–		
Dimensions (for 230/1/50) W x D x H	mm	430 x 430 x 750	490 x 500 x 730	530 x 510 x 970	–	386 x 473 x 440		
Dimensions (for 400/3/50) W x D x H	mm	–	500 x 500 x 730	500 x 520 x 960	1100 x 530 x 840	–		
Weight	kg	47	60	85	125	24	24	26
Sound pressure level	dB(A)	64	71	70	73	< 70		
Permissible ambient temperature	°C	5 - 35				5 - 50		

i.Comp TOWER T / AIRBOX CENTER

Model		i.Comp TOWER T		AIRBOX CENTER			
		8	9	1000-2	1200-2	1500	1800
Max. gauge pressure	bar	11		10		7	
Max. duty cycle	%	Continuous operation possible		75-100% ^{***}			
Speed control range	rpm	1000-2100		-			
Flow rate at 6 bar	l/min	404	570	780	875	920	875
Flow rate at 11 bar	l/min	291	409	-			
Pressure dew point ^{†)}	°C	2		5			
Number of cylinders		2					
Air receiver volume	l	2 x 40		270			
Motor power 380-480/3/50-60	kW	3.1	4.2	-			
Motor power 400/3/50	kW	-	-	7.5	-	7.5	-
Motor power 208-230/3/60	kW	-	-	-	7.5	-	7.5
Motor power 460/3/60	kW	-	-	-	7.5	-	7.5
Dimensions W x D x H	mm	840 x 1230 x 1380		1730 x 820 x 1640			
Weight	kg	254	260	550	550	550	550
Sound pressure level	dB(A)	65	65.5	66	68	67	68
Permissible ambient temperature	°C	3-45					

AIRCENTER

Model		SX				SM				SK			
		3	4	6	8	10	13	13 SFC	16	22	22 SFC	25	25 SFC
Gauge working pressure	bar	7.5											
Flow rate at 7.5 bar	l/min	340	450	600	800	940	1320	390-1400	1620	2000	620-1980	2500	810-2550
Max. gauge pressure	bar	8											
Gauge working pressure	bar	10											
Flow rate at 10 bar	l/min	260	360	480	670	780	1080	400-1190	1360	1680	630-1670	2110	840-2250
Max. gauge pressure	bar	11											
Max. duty cycle	%	100											
Air receiver volume	l	200				270				350			
Pressure dew point ^{†)}	°C	3											
Motor power 400V, 3 Ph	kW	2.2	3	4	5.5	7.5	9	11	15				
Refrigeration dryer power consumption	kW	0.2				0.33				0.41			
Dimensions W x D x H	mm	590 x 1090 x 1560				630 x 1220 x 1720				750 x 1335 x 1880			
Weight	kg	285	285	290	300	420	440	450	440	579	596	587	604
Sound pressure level	dB(A)	59	60	61	64	62	65	62	66	66	67	67	68
Permissible ambient temperature	°C	3 - 45											

^{†)} Installed power

^{**)} At ambient temperature +20 °C, 30 % relative humidity

^{***)} Dependent on ambient conditions

The world is our home

As one of the world's largest manufacturers of compressors, blowers and compressed air systems, KAESER KOMPRESSOREN is represented throughout the world by a comprehensive network of branches, subsidiaries and authorised distribution partners in over 140 countries.

By offering innovative, efficient and reliable products and services, KAESER KOMPRESSOREN's experienced consultants and engineers work in close partnership with customers to enhance their competitive edge and to develop progressive system concepts that continuously push the boundaries of performance and technology. Moreover, decades of knowledge and expertise from this industry-leading systems provider are made available to each and every customer via the KAESER group's advanced global IT network.

These advantages, coupled with KAESER's worldwide service organisation, ensure that every product operates at peak performance at all times, whilst providing maximum availability.



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