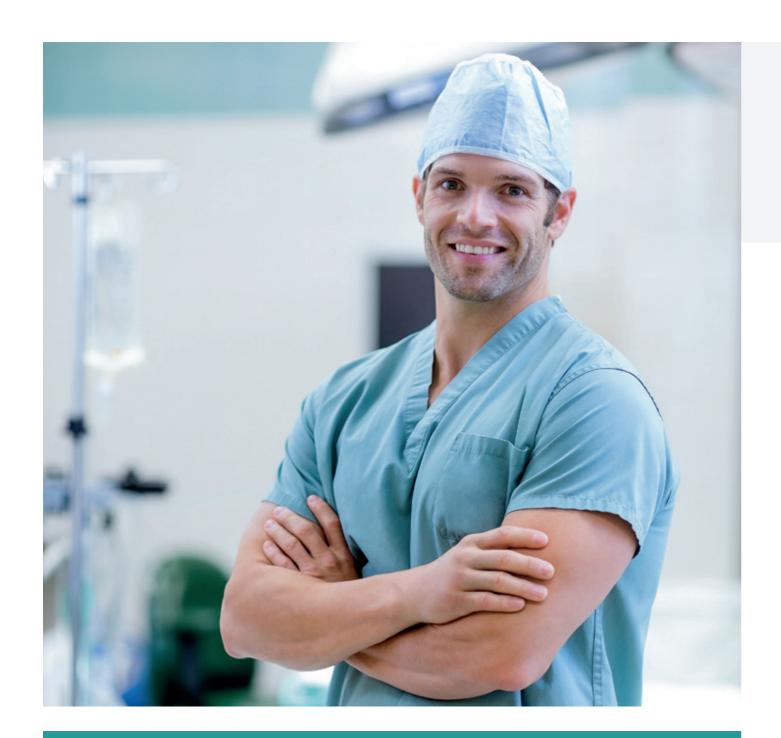


Oil-free compressed air for medical and laboratory applications





Hospital and Medical Practices

With oil-free compressors from Dürr Technik you can generate high-quality compressed air for highly sensitive applications



Experience counts

Whether in a hospital, clinic or doctor's practice – clean, dry and continuously supplied compressed air is essential in the medical sector.

With more than 75 years of experience in the dental and medical sector, Dürr Technik has comprehensive know-how and meets the particularly high demands on the availability and purity of the compressed air with special products.

Dürr Technik compressors have optimal characteristics for the use of compressed air in medicine:

Zero oil. Zero problems.

Oil-free piston compressor technology stands for high compressed air quality (ISO 8573-1) and sustainability.

Dry and clean

The combination of oil-free piston compressors with fine filter units and our patented membrane drying system is perfectly suited for the production of medical compressed air according to DIN ISO 7396-1.

Medical compressed air in hospitals ventilates patients, drives surgical and medical tools and instruments, supplies anesthesia systems and is part of many different treatment processes.

High quality made in Germany

Many years of experience and a highly qualified project planning and engineering team for your customer-specific solutions.

Reliable, quiet, compact and efficient appliances

We work according to recognised standards and fulfil numerous certifications, for example:

- DIN EN ISO 13485
- DIN EN ISO 9001
- Medical device approval in accordance with the Directive 93/42/EEC
- Medical device approval in accordance with the Regulation (EU) 2017/745

Dürr Technik ■ Quality ■ Made in ■ Germany

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OUR PRODUCTS IN USE

Application examples

- Compressed air supply for phaco devices
- Compressed air for pharmaceutical equipment
- Vacuum for suction devices
- Operation of medical tools



SICOLAB med

1 Compressed air for ventilators

Quiet and clean compressed air supply for highly sensitive ventilators. Certified medical device of the class IIb in accordance with Directive 93/42/EEC



KK8 / KK15 series

Compressed air for shock wave therapy with ESWT devices

Low noise generation mechanical shock waves



P2B-304M

3 Central compressed air supply

Compressed air system for the permanent supply of small hospitals, day clinics and joint practices



SICOLAB

Supply of drying and sterilisation cabinets

Drying of medical instruments with oil-free compressed air is recommended by the independent group "Arbeitskreis Instrumentenaufbereitung" (AKI)



SICOLAB mini ENDO

Drying of endoscopes and MIC instruments

Manual drying of the endoscopy channels with filtered, oil-free compressed air. Certified Class I medical device in accordance with the European Medical Device Regulation MDR 2017/745





Further information can be found online on our website







WE PUT PRESSURE IN THE LABORATORY

Laboratories today are equipped with a variety of measuring devices, tools and instruments. They are used, among other things, for pharmaceutical, chemical or medical examinations and analyses, experiments and quality controls. Many applications require high-quality oil-free compressed air.

Zero oil. Zero problems.

Oil-free compressors are an advantage for reliable operation of instruments and measuring devices as well as reliable results. Oil vapors damage valves, obstruct nozzles and contaminate or distort measurement results.

Quiet and compact

Space-saving design for use directly at the workplace. Extremely quiet due to special sound insulation.

Economical & low-maintenance

thanks to efficient design and to

High quality made in Germany

The compressors from Dürr Technik supply compressed air with air quality up to class 1:3:1 (ISO 8573-1). For this reason, they are ideally suited for sensitive laboratory applications.

Dry compressed air

is due to the use of a patented membrane dryer.

LABORATORY

Space-saving and quiet, the oil-free compact units from Dürr Technik bring high-quality compressed air into your laboratory

> Dürr Technik ■ Quality ■ Made in Germany



OUR PRODUCTS IN USE

Application examples

Compressed air for

- Auto-samplers
- Blood analysis
- CO₂, DSC, COT analysis
- Dosage devices
- ELSD detectors
- Foodstuff inspection



SICOLAB

Compressed air for gas chromatography and LC-MS analysis

For the analysis of chemical components

Compressed air for particle measurement and shape analysis
For the analysis of particle properties

3 Compressed air for rheometers

For the analysis of the viscosity of liquids



Further information can be found online on our website



Chromalytic

Further information can be found online on our website





4 Nitrogen generator for LC-MS analysis On-site production of nitrogen of the highest

nitrogen quality

Compressed air for analytical instruments such as spectroscopes Constant and dry compressed air supply as working medium

6 Vacuum for vacuum furnace

Optimum vacuum for fast and gentle drying of temperature-sensitive materials

7 Central compressed air supply

Compressed air system for the permanent supply of medium-sized laboratories





The right solution for every application



SICOLAB Silent. Compact. Mobile.

Noise at the workplace disturbs concentration and can make you ill.
The quiet, low-vibration SICOLAB provides pleasant working conditions in the laboratory and practice.

The compressor station practically disappears under the laboratory table and finds the necessary space even in small rooms.

Advantages

- Compact to fit under the lab desk
- Adjustable outlet pressure simply set the desired pressure up to 8 bar
- Endurance designed to run at 100% duty-cycle
- Automatic condensate evaporator – elimination of manual drainage
- Air tank with anti-bacterial and anti-corrosion coating
- Secondary rear panel outlet connection
- Maintenance-free except easy-toreplace filter

Туре	Delivery rate at 5 bar (I/min)	Noise level at PN dB (A)	Nominal voltage (V)	Frequency (Hz)	Weight (kg)	Compressed air class according to ISO 8573-1
SICOLAB 062	37	48	230	50	66	4:x:1
SICOLAB 100	70	52	230	50	76	4:x:1
SICOLAB 200	145	54	230	50	93	4:x:1
SICOLAB 062M	32	48	230	50	68	4:3:1
SICOLAB 062M	36	49	115	60	77	4:3:1
SICOLAB 100M	59	52	230	50	78	4:4:1
SICOLAB 100M	67	53	115	60	89	4:4:1
SICOLAB 200M	122	54	230	50	95	4:5:1
SICOLAB 062MFA	32	48	230	50	68	1:3:1
SICOLAB 100MFA	59	52	230	50	78	1:4:1
SICOLAB 200MFA	122	54	230	50	95	1:5:1

Nominal pressure (PN) 7 bar Volume of vessel 25 l Dimensions LxWxH (mm) 510x580x653

M = Models with membrane dryer

MFA = Models with membrane dryer, fine filter 0.01 μ m and activated carbon filter

SICOLAB

Further information can be found online on our website





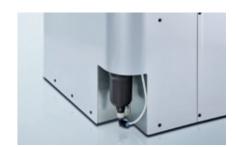
Don't let them stress you out

With its particularly low sound pressure level, SICOLAB is the ideal compressed air station for use in laboratories and practices. High performance in whisper mode



Stay flexible

Swivel castors and carrying handles ensure mobility, and thanks to plug-and-play the station is ready for use everywhere



Keep all options open

- Integrated membrane dryer 100% duty-cycle (optional)
- Fine filter (optional) filtration grade 0.01 μm

 Activated carbon filter (optional) removes odor and other impurities from the compressed air



SICOLAB mini SICOLAB mini ENDO Class I Medical Device in accordance with MDR 2017/745

The compact SICOLAB mini models Advantages

are light-weight and portable. The oil-free, ready-to-connect compressor unit is built into a ventilated sound insulation box and offers maximum flexibility with minimum maintenance.

The SICOLAB mini ENDO model is particularly suitable for drying endoscopes and is preset at 1 bar to protect highly sensitive equipment parts.

- Oil-free plug-and-play compressor unit ready for connection
- Compact dimensions
- Maintenance-free (except filter exchange)
- Extremely quiet
- 100% duty-cycle

SICOLAB mini

Further information can be found online on our website



SICOLAB mini ENDO

Further information can be found online on our website



Туре	Delivery rate at 5 bar (I/min)	Noise level at PN dB (A)	Nominal voltage (V)	Frequency** (Hz)	Weight (kg)
SICOLAB 025 mini	10	49	230	50	15
SICOLAB 038 mini	20	50	230	50	16
SICOLAB 038 mini	20	52	115	60	16
SICOLAB 062 mini	36	51	230	50	20
SICOLAB 062 mini	41	54	115	60	20
SICOLAB mini ENDO	34*	50	230	50	16

** Models with 230V also 60Hz capable, delivery rate approx. 18% higher

Nominal pressure (PN) SICOLAB mini 7 bar Outlet pressure SCIOLAB mini ENDO 1 bar Volume of vessel 2 I Dimensions LxWxH (mm) 396x295x321



SICOLAB mini ENDO

- Class I Medical Device in accordance with MDR 2017/745
- Comes as standard with fine filter, compressed air hose and stainless steel compressed air pistol
- Various optional attachments for other applications



Simple operation On and off switch

- Quick coupling
- Readable working pressure



Ready for use anywhere

- Light-weight, plug-and-play device
- Carrying handles

SICOLAB med Class IIb Medical Device in accordance with 93/42/EEC

SICOLAB med provides compressed air to supply ventilators. Our compressors for ventilators can be used as either a standby device or directly as the main air supply for the ventilator.

Medical devices must meet strict standards to ensure patient safety and product integrity. Our SICOLAB med has the necessary certification as a Class IIb medical device, in accordance with the 93/42/EEC directive.

The generated quality of compressed air for ventilators has been tested

Advantages

- Very quiet with 47 dB (A)
- Dry air through the integrated membrane dryer
- High filtration efficiency thanks to three filtration steps up to max. 0.3 μm
- Automatic condensate evaporation (no manual emptying of the condensate necessary)
- Pressure control for an even, energy efficient operation

SICOLAB med

website

Further information can be found online on our



and approved according to the biocompatibility standard ISO/FDIS
18562.

Тур	Delivery rate at 3 bar (I/min)	Nominal pressure PN (bar)	Volume of vessel (I)	Noise level at PN dB (A)	Weight (kg)	Dimensions LxWxH (mm)
SICOLAB med	30	3	3	47	40	348x515x440
	_					

5°C at ambient temperature at ≥ 30 l/min and max. ambient temperature from 40°C

15°C at ambient temperature at ≥ 15 l/min and max. ambient temperature from 40°C

Available voltages: 220-240 V, 220-230 V, 115-120 V, 127 V, 110 V, 100 V

Supply pressure (standby mode):



Mobile, if you wish Trolley (optional)

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Oil-free compressor stations ready for connection

You have the choice: In addition to our standard equipment, Dürr Technik offers the possibility of developing customized compressor designs especially for your application together with our specialized project planning and development engineers.

Our diverse product range with ready-to-connect compressor stations are available with a membrane dryer, DürrTronic, sound-insulated housing or as a mobile unit mounted on a robust stainless steel frame with a foldable handle for convenient handling.

We use high-quality pressure vessels from 3 to 90 litres. Compressor stations are available from 25 - 860 l/min at 5 bar pressure.

Compressor stations

Further information can be found online on our



A selection of our standard models with membrane dryer can be found here:

Туре	Delivery rate at 5 bar (I/min)	Nominal pressure PN (bar)	Noise level at PN dB (A)	Volume of vessel (I)	Nominal voltage (V)	Frequency* (Hz)	Dimensions LxWxH (mm)	Weight (kg)	air class** according to	Electronic control
TA-065M	35	7	68	25	230	50	615x470x670	36	4:3:1	Х
TA-100M	59	7	68	25	230	50	615x470x670	52	4:4:1	X
TAG-132M	63	7	70	25	230	50	615x475x670	40	4:4:1	Χ
TA-200M	122	7	69	25	230	50	630x470x675	54	4:4:1	Χ
TB-100M	73	6	66	25	400	50	620x429x666	66	4:4:1	
HA-200M	122	7	69	55	230	50	925x450x720	70	4:4:1	X
HB-200M	122	7	69	55	400	50	920x480x720	65	4:4:1	Χ
H2A-160M	230	7	69	55	230	50	760x790x520	90	4:4:1	
H2B-160MS	230	7	69	55	400	50	760x790x520	90	4:4:1	X
HB-304M	215	10	77	55	400	50	745x522x755	83	4:4:1	
P2B-304M	430	7	74	90	400	50	1020x630x820	143	4:5:1	
P4B-304MS	860	7	78	90	400	50	1150x770x1140	285	4:5:1	X
WAG-132M	65	7	71	10	230	50	545x370x640	37	4:4:1	

Models with 60Hz on request, delivery rate at 60Hz approx. 18% higher

-:-: 1 in oil-free environment

M = Models with membrane dryer

DürrTronic – electronic control and monitoring

DürrTronic monitors your compressor station for safe and reliable operation.

The electronic control system controls the function of the system and ensures the effective condensate management. The automatic monitoring shows the most important operating parameters and preformance statistics, providing warns if there is a high frequency of switching cycles and it shows the optimal time for the replacement of components and thus ensures an optimum service life of the system.

DürrTronic

Further information can be found online on our website



Compressed air quality – dry and clean

The quality of compressed air in hospitals, practices and laboratories is of great importance. The ISO 8573-1:2010 standard (compressed air class) classifies the quality and purity of compressed air in the following three categories: Oil content, moisture and solid particles.

The compressors from Dürr Technik supply oil-free compressed air with air quality up to class 1:3:1. For this reason, they are ideally suited for sensitive laboratory and medical applications.

Patented membrane drying

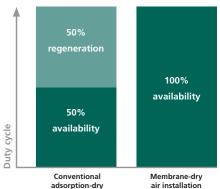
The Dürr Technik membrane drying plant supplies dry and clean air. The membrane dryers are very convinant and have an economical purge (low consumption) which gives 100% availability in continuous operation.

Advantages

- Dry air protects sensitive instruments, promotes their value retention and ensures hygienic conditions. Measurement results are not falsified
- Maintenance-free, except annual filter exchange



Performance comparison of one-chamber drying systems and membrane dryers



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Completely carefree with Dürr Technik

Service

Further information can be found online on our website



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