



Oil-free compressed air for the  
medical and laboratory market







## Dürr Technik

Experience. Precision. Quality.

Dürr Technik is part of the global Dürr group of companies. With more than 70 years' experience in both the dental and medical sectors we have acquired comprehensive expertise in a wide range of applications.

Our headquarters are located in Bietigheim-Bissingen, one of the most innovative industrial regions of Germany, and it is here that we develop and manufacture our products.

Motivated employees, state of the art production facilities as well as certified quality management all offer optimal conditions to meet even the highest customer requirements.

We can advise our customers according to their needs and also offer tailor-made solutions.

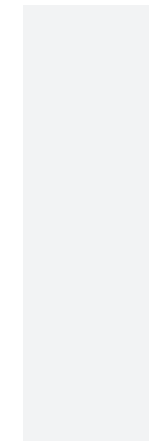
Dürr Technik ■ Quality  
■ Made in  
■ Germany





No compromises when it comes to health.

Dürr Technik –  
air meets medilab



### Compressed air for the medical sector Dry. Clean. Silent.

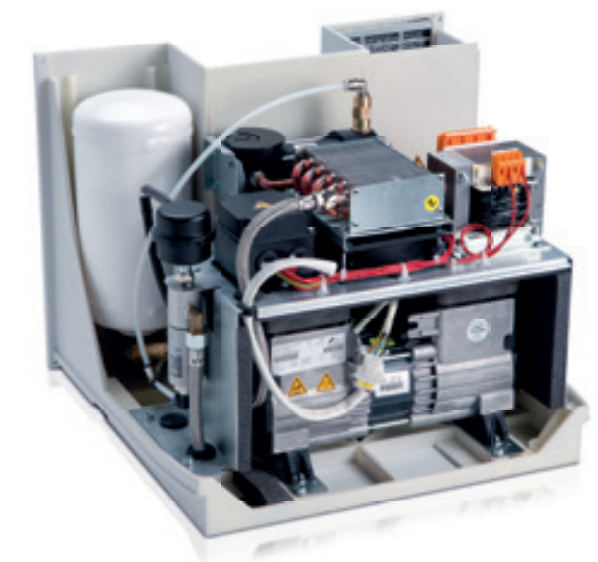
Many medical applications require high quality dry air, but as in moist air harmful bacteria can build up. In combination with drying installations our oil-free compressors prevent bacteria build-up and moreover protect sensitive instruments against corrosion, sediments and other damage.

Oil-free compressors from Dürr Technik operate economically:

- Continuous operation S1 – also with membrane dryer
- Almost maintenance-free
- Long service life
- User friendly operation
- Energy efficient motor design

Soundproofed compressor stations provide especially comfortable working conditions.

Dürr Technik, Germany is certified according to the medical directive DIN EN ISO 13485. Our management system corroborates the process reliability of our operative workflow.







Compressor technology in the medical sector  
Various applications

Compressed air is equally indispensable in the medical sector and in the laboratory. The silent, compact, oil-free compressors of Dürr Technik excel with their flexibility and efficiency.

Besides the centralized compressed air supply, the compressors of Dürr Technik perform many different tasks in the realm of decentralized air supply.

Several application examples are shown in the chart.



Respirators

1 Ventilating air compressors



Range KK

2 Shock wave therapy



P2B-304M

3 Central compressed air supply



SICOLAB

4 Blocking of the sterilisation cabinets



SAS Box

5 Drying of endoscopes





Technology on which you  
can rely 100%.

Dürr Technik –  
air meets medilab



### Compressed air in laboratory application

#### Wide range of uses

Analyses, experiments or quality controls, these are only some of the laboratory applications in which oil-free compressed air plays a major role, because oil vapour affects valves, blocks nozzles, contaminates air or falsifies measuring results. Oil-free compressors are an advantage for the reliable functioning of instruments and measuring devices as well as for reliable results.

Dürr Technik compressors comply with the standard ISO 8573-1 for air quality up to the class 1:3:1. For this reason they are extremely suitable for sensitive laboratory applications.

Not every laboratory has its own compressor room. Therefore only silent compressors can be used directly at the workplace.

The compact dimensions are ideal. In some cases the units can even be placed under the table in the laboratory.

- Auto-samplers
- Blood analysis
- CO<sub>2</sub>, DCS, COT analysis
- Dosage
- ELSD detectors
- Foodstuff inspection
- Gas chromatography: FID, FPD
- LCMS
- Nitrogen generators
- Particle measurement
- Rheometer
- Spectroscopy: AA, NMR, FT-IR

Application examples for compressed air in the laboratory





- Silent
- Compact
- Oil-free
- Low vibrations
- 100% continuous running
- Maintenance-free

Dürr Technik – advantages that make all the difference



**Silent Air System**  
Compact and soundproofed

The Silent Air System (SAS) from Dürr Technik is especially silent. The oil-free, plug-and-play compressor unit is housed in a ventilated sound absorbing box.

The compact SAS models are light weight and portable. Owing to their maintenance free components the oil-free compressors made by Dürr Technik are an economically attractive solution. Comfortable mobility is granted by a carrying handle as well as an optionally available trolley. A mains plug and a quick coupling for the compressed air connection directly at the housing ensures simple plug-and-play installation.

The model SAS-038 Endo is especially suitable for endoscope drying. In addition to the standard version with a 3 litre pressure receiver, the model SAS-062M is available with an integrated membrane dryer and cooler for continuous running. This model, for example, is applicable for a shock wave therapy.



**Technical data SILENT AIR SYSTEM**

| Type         | Delivery rate at 5 bar<br>(l/min) | Nominal pressure PN<br>(bar) | Noise level at PN<br>dB (A) | Volume of vessel<br>(l) | Nominal voltage<br>(V) | Frequency<br>(Hz) | Dimensions LxWxH<br>(mm) | Weight<br>(kg) |
|--------------|-----------------------------------|------------------------------|-----------------------------|-------------------------|------------------------|-------------------|--------------------------|----------------|
| SAS-025      | 8                                 | 7                            | 48                          | 3                       | 230                    | 50                | 400x340x320              | 15             |
| SAS-025      | 8                                 | 7                            | 50                          | 3                       | 230                    | 60                | 400x340x320              | 15             |
| SAS-038      | 15                                | 7                            | 49                          | 3                       | 230                    | 50                | 400x340x320              | 17             |
| SAS-038      | 15                                | 7                            | 51                          | 3                       | 230                    | 60                | 400x340x320              | 17             |
| SAS-038      | 16                                | 7                            | 52                          | 3                       | 115                    | 60                | 400x340x320              | 18             |
| SAS-062      | 36                                | 7                            | 53                          | 3                       | 115                    | 60                | 400x340x320              | 21             |
| SAS-062      | 33                                | 7                            | 50                          | 3                       | 230                    | 50                | 400x340x320              | 21             |
| SAS-038 Endo | 22*                               | 1                            | 47                          | 3                       | 230                    | 50                | 400x340x320              | 18             |
| SAS-038 Endo | 22*                               | 1                            | 49                          | 3                       | 230                    | 60                | 400x340x320              | 18             |
| SAS-062 M    | 20                                | 5                            | 50                          | -                       | 230                    | 50                | 400x340x320              | 20             |

\* Delivery rate at 1 bar



SICOLAB  
Silent. Compact. Mobile.

Due to maximum performance in whisper mode the SICOLAB is very much at home in laboratory operations.

Soundproofed and low in vibration the SICOLAB supplies the needed oil-free compressed air directly to the workplace, without interfering with the usual workflow or disturbing the concentration of the lab workers.

The innovative operating concept and the specific mobility with wheels and carrying handles ensure maximum flexibility. A membrane dryer and an activated carbon filter and fine filter can be integrated optionally.



| Type           | Delivery rate at 5 bar<br>(l/min) | Nominal pressure PN<br>(bar) | Noise level at PN<br>dB (A) | Volume of vessel<br>(l) | Nominal voltage<br>(V) | Frequency<br>(Hz) | Dimensions LxWxH<br>(mm) | Weight<br>(kg) | Compressed air class according to ISO 8573-1* |
|----------------|-----------------------------------|------------------------------|-----------------------------|-------------------------|------------------------|-------------------|--------------------------|----------------|---|
| SICOLAB 062    | 37                                | 7                            | 48                          | 25                      | 230                    | 50                | 510x580x653              | 66             | 4-x-1   |
| SICOLAB 100    | 70                                | 7                            | 52                          | 25                      | 230                    | 50                | 510x580x653              | 76             | 4-x-1   |
| SICOLAB 200    | 145                               | 7                            | 54                          | 25                      | 230                    | 50                | 510x580x653              | 93             | 4-x-1   |
| SICOLAB 062F   | 37                                | 7                            | 48                          | 25                      | 230                    | 50                | 510x580x653              | 66             | 1-x-1   |
| SICOLAB 100F   | 70                                | 7                            | 52                          | 25                      | 230                    | 50                | 510x580x653              | 76             | 1-x-1   |
| SICOLAB 200F   | 145                               | 7                            | 54                          | 25                      | 230                    | 50                | 510x580x653              | 93             | 1-x-1   |
| SICOLAB 062M   | 32                                | 7                            | 48                          | 25                      | 230                    | 50                | 510x580x653              | 68             | 4-3-1   |
| SICOLAB 062M   | 36                                | 7                            | 49                          | 25                      | 115                    | 60                | 510x580x653              | 68             | 4-3-1   |
| SICOLAB 100M   | 59                                | 7                            | 52                          | 25                      | 230                    | 50                | 510x580x653              | 78             | 4-4-1   |
| SICOLAB 100M   | 70                                | 7                            | 53                          | 25                      | 115                    | 60                | 510x580x653              | 78             | 4-4-1   |
| SICOLAB 200M   | 122                               | 7                            | 54                          | 25                      | 230                    | 50                | 510x580x653              | 95             | 4-5-1   |
| SICOLAB 062MF  | 32                                | 7                            | 48                          | 25                      | 230                    | 50                | 510x580x653              | 68             | 1-3-1   |
| SICOLAB 100MF  | 59                                | 7                            | 52                          | 25                      | 230                    | 50                | 510x580x653              | 78             | 1-4-1   |
| SICOLAB 200MF  | 122                               | 7                            | 54                          | 25                      | 230                    | 50                | 510x580x653              | 95             | 1-5-1   |
| SICOLAB 062MFA | 32                                | 7                            | 48                          | 25                      | 230                    | 50                | 510x580x653              | 68             | 1-3-1   |
| SICOLAB 100MFA | 59                                | 7                            | 52                          | 25                      | 230                    | 50                | 510x580x653              | 78             | 1-4-1   |
| SICOLAB 200MFA | 122                               | 7                            | 54                          | 25                      | 230                    | 50                | 510x580x653              | 95             | 1-5-1   |

F = Models with filter size 0,01 µm  
M = Models with membrane dryer  
MF = Models with membrane dryer and filter size 0,01 µm  
MFA = Models with membrane dryer, filter size 0,01 µm and activated carbon filter

\* Better compressed air class on request.





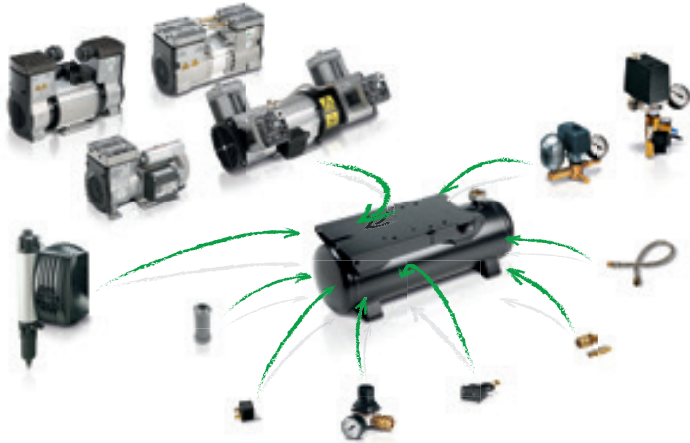
OIL-FREE  
COMPRESSOR STATIONS

Ready for connection compressor stations  
Meets all requirements

In addition to our standard devices, Dürr Technik offer the possibility to configure oil-free compressor stations in a modular way – from delivery rates between 25 and 600 l/min and receiver sizes from 3-90 litres.

We will be pleased to advise you in all details.

You will find a selection of standard models in the technical table under [www.duerr-technik.com](http://www.duerr-technik.com).



| Type                 | Delivery rate at 5 bar<br>(l/min) | Nominal pressure PN<br>(bar) | Noise level at PN<br>dB (A) | Volume of vessel<br>(l) | Nominal voltage<br>(V) | Frequency<br>(Hz) | Dimensions LxWxH<br>(mm)      | Weight<br>(kg) |
|----------------------|-----------------------------------|------------------------------|-----------------------------|-------------------------|------------------------|-------------------|-------------------------------|----------------|
| <b>without dryer</b> |                                   |                              |                             |                         |                        |                   |                               |                |
| UA-025AK             | 8                                 | 7                            | 55                          | 3                       | 230                    | 50                | 320x315x340                   | 12             |
| WA-038AK             | 15                                | 7                            | 57                          | 10                      | 230                    | 50                | 550x190x430                   | 17             |
| WA-062AK             | 35                                | 7                            | 59                          | 10                      | 230                    | 50                | 550x180x400                   | 20             |
| WAG-132AKT           | 83                                | 7                            | 71                          | 10                      | 230                    | 50                | 545x276x520 (without trolley) | 34             |
| TA-100AK             | 73                                | 7                            | 68                          | 25                      | 230                    | 50                | 615x355x615                   | 36             |
| HA-200K              | 140                               | 7                            | 69                          | 55                      | 230                    | 50                | 920x305x685                   | 62             |
| PA-200AK             | 140                               | 7                            | 69                          | 90                      | 230                    | 50                | 1040x350x845                  | 78             |
| HB-304K              | 248                               | 7                            | 77                          | 55                      | 400                    | 50                | 920x355x655                   | 75             |
| P2B-304              | 470                               | 7                            | 76                          | 90                      | 400                    | 50                | 750x1030x630                  | 151            |
| <b>with dryer</b>    |                                   |                              |                             |                         |                        |                   |                               |                |
| TA-065M              | 34                                | 7                            | 68                          | 25                      | 230                    | 50                | 615x435x670                   | 36             |
| TBG-132M             | 63                                | 7                            | 71                          | 25                      | 400                    | 50                | 610x475x665                   | 38             |
| TA-100M              | 59                                | 7                            | 68                          | 25                      | 230                    | 50                | 615x435x670                   | 52             |
| HA-200M              | 122                               | 7                            | 69                          | 55                      | 230                    | 50                | 925x450x720                   | 70             |
| HB-304M              | 215                               | 7                            | 77                          | 55                      | 400                    | 50                | 920x480x720                   | 86             |
| P2B-304M             | 430                               | 7                            | 76                          | 90                      | 400                    | 50                | 750x1030x630                  | 163            |



Dry and clean compressed air  
Due to efficient technology

The membrane drying system of Dürr Technik supplies fully automated dry and clean air according to ISO 8573-1. The dried air is stored directly in the pressure receiver.

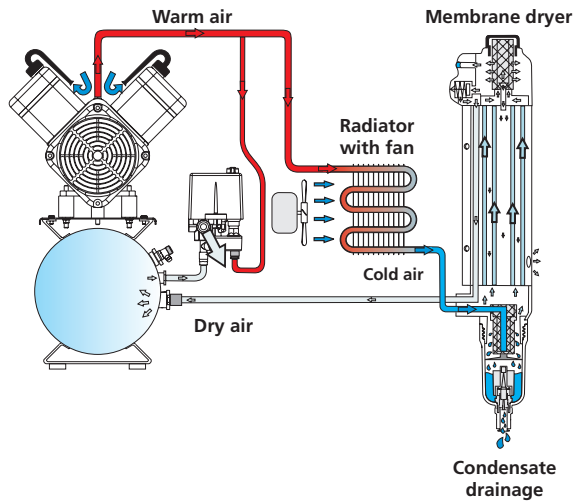
Our membrane dryer achieves this through its:

- Economical purge air consumption
- 100% continuous running free of maintenance – filter exchange only once a year
- Standard dew point suppression by 35 Kelvin, this can be adjusted to suit application
- Patented pressure relief valve and water separator with integrated automatic capacitor
- Long lifespan even at pressure pulsations

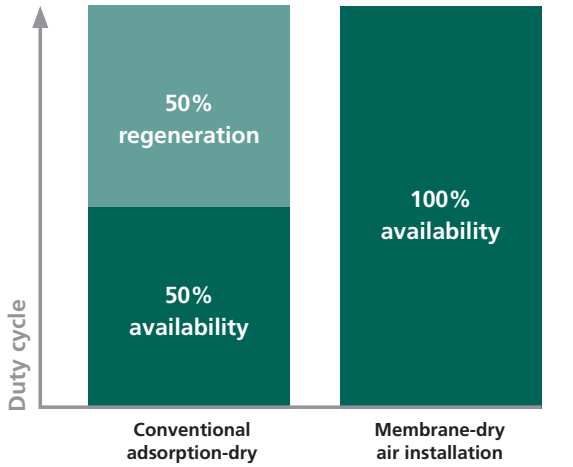
The insides of the Dürr Technik pressure receivers starting from 10 litres upwards are protected against corrosion by a coating containing antibacterial silver particles.



Functioning of a compressor station with dryer



Performance comparison of one-chamber drying systems and membrane dryers





## Germany

Dürr Technik GmbH & Co. KG  
Pleidelsheimer Straße 30  
74321 Bietigheim-Bissingen  
Tel. +49 (0) 7142-90 22-0  
Fax +49 (0) 7142-90 22-99  
office@duerr-technik.de  
www.duerr-technik.com

## Great Britain

Dürr Technik UK Ltd.  
Unit 13 The Industrial Quarter  
Bath Business Park  
Foxcote Avenue  
Peasedown St. John  
UK-Bath BA2 8SF  
Tel. +44 (0) 1761-42 29 44  
Fax +44 (0) 1761-42 08 95  
office@durrtechnik.co.uk  
www.durrtechnik.co.uk

## North America

Dürr Technik USA, Inc.  
1295 Walt Whitman Road,  
USA-NY 11747-3062 Melville  
Tel. +1 516-214-56 59  
Fax +1 516-433-76 84  
office@durrtechnikusa.com  
www.durrtechnikusa.com

## France

Dürr Technik  
Tel. +33 (0) 4 73 31 19 89  
Fax +33 (0) 4 73 31 19 89  
office@duerr-technik.fr  
www.duerr-technik.fr

## South America

Dürr Technik  
Office Latin America  
Belgrano 440, Of. 21  
1642 San Isidro  
Buenos Aires / Argentina  
Tel. +5411 47 32-38 09  
office-latinamerica@durrtechnik.com  
www.duerr-technik.com

## China

Durr Technik (Shanghai) Co., Ltd.  
No.1236 Zhaochong Road  
Qingpu District  
Shanghai 201760, China  
Tel. +86 (0)21 6921 8321  
Fax +86 (0)21 6921 8322  
office@durrtechnik.com.cn  
www.durrtechnik.com.cn



Dürr Technik GmbH & Co. KG  
Pleidelsheimer Straße 30  
74321 Bietigheim-Bissingen

Tel. +49 (0) 7142-90 22-0  
Fax +49 (0) 7142-90 22-99

office@duerr-technik.de

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