Efficient compressed air systems & services
for small and medium companies
Optional services for your system
Schneider airsystems offers comprehensive, professional support for your compressed air units. The services can be divided into four phases: status and requirements analysis, consultation and system planning, installation and commissioning, maintenance and servicing.

Robust compressors for every application
Discover a comprehensive portfolio of different pneumatic tools for drilling, fastening, sanding, sawing, cutting, riveting, stapling and nailing. Tools for painting, fettling, lubricating and jointing and tools for derusting, blasting, chiselling, inflating tyres and extracting oil.

Perfect compressed air distribution
Choose between a selection of conduit systems available in different materials and a wide range of connectors and pipe sockets. We also offer numerous hoses, hose rewinders, power and air supply units, tractions as well as connecting and joining technology.

The basis for outstanding compressed air quality
We offer a host of products for compressed air conditioning based on the compressed air quality you require for your application: cold and adsorption dryers, condensate dischargers as well as different maintenance units and filters. We also offer oil-water separators.

Powerful and efficient – for every application
We will recommend the most suitable compressor based on your requirements: from small, mobile compressors for the construction site and stationary piston compressors for small and medium-sized workshops to large screw compressors for continuous air requirements.
EFFICIENT COMPRESSED AIR SYSTEMS & SERVICES

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Conduit systems 14–15

Pneumatic tools 16–17

Services 18–22
Perfectly adapted products guarantee maximum efficiency
1. Screw compressors
   from 2.2–22 kW; on vessel and/or with dryer

2. Piston compressors
   with vertical or horizontal vessel or as an auxiliary compressor

3. Compressed air conditioning
   Cold and adsorption dryers, filters and maintenance units

4. Conduit systems
   from 15–63 mm in different materials; workshop equipment, hoses and joining technology

5. Pneumatic tools
   for a wide range of applications
Mobile compressors

Mobile UniMaster compressors – Extremely flexible for universal use

- Different performance categories suitable for private and professional workshop applications: 1.1 kW – 4.0 kW, 8 – 15 bar, alternating or three-phase current
- Extremely flexible: with standard or EXTRA equipment

<table>
<thead>
<tr>
<th>Feature</th>
<th>UniMaster UNM W/D</th>
<th>UniMaster UNM WX/DX</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ 10-year rust guarantee on all vessels</td>
<td>✓ 15-year rust guarantee on the vessels with inner coating (from 1.5 kW)</td>
<td></td>
</tr>
<tr>
<td>✓ User-friendly operating panel with mist oiler and filter pressure reducer (from 2.2 kW)</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>✓ With guide rolls (from 1.5 kW)</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>✓ Easy to manoeuvre due to puncture-resistant soft rubber wheels (from 1.5 kW)</td>
<td>✓</td>
<td></td>
</tr>
</tbody>
</table>

Mobile CompactMaster compressors – The perfect companion for the construction site

- Robust, compact and lightweight design is ideal for heavy-duty applications on the construction site
- Extremely flexible: portable or mobile version, 1.1 kW – 3.0 kW, 8 – 10 bar, with standard or EXTRA equipment

<table>
<thead>
<tr>
<th>Feature</th>
<th>CompactMaster CPM W</th>
<th>CompactMaster CPM WX</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ Directly-flanged 1 or 2-cylinder piston compressor</td>
<td>✓ Excellent transportation characteristics</td>
<td></td>
</tr>
<tr>
<td>✓ Excellent transportation characteristics</td>
<td>✓ 10-year rust guarantee on all vessels</td>
<td></td>
</tr>
<tr>
<td>✓ 10-year rust guarantee on the vessel with inner coating</td>
<td>✓ 15-year rust guarantee on the vessel with inner coating</td>
<td></td>
</tr>
<tr>
<td>✓ Easy to manoeuvre due to puncture-resistant soft rubber wheels (from 1.8 kW)</td>
<td>✓</td>
<td></td>
</tr>
</tbody>
</table>
Mobile SysMaster compressor – Perfect in a system

- Perfect in a system: combines with other Systainers
- Easy to carry, only 13 kg
- Extremely robust, components protected in the Systainer
- Operating panel for easy external operation
- Simple to transport using ergonomic handle and optional roll board

<table>
<thead>
<tr>
<th>Feature</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-year rust guarantee on all vessels</td>
<td>✔</td>
</tr>
<tr>
<td>Oil-free, low-maintenance power unit</td>
<td>✔</td>
</tr>
<tr>
<td>Two pressure gauges for vessel and working pressure</td>
<td>✔</td>
</tr>
<tr>
<td>Air outlet via pressure reducer</td>
<td>✔</td>
</tr>
</tbody>
</table>

Mobile SilentMaster compressors – When quiet operation is required

- Extremely quiet due to sound absorbing cover
- Ideal for installation in the vicinity of the workplace

<table>
<thead>
<tr>
<th>Feature</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Directly-flanged 1 or 2-cylinder piston compressor</td>
<td>✔</td>
</tr>
<tr>
<td>Excellent transportation characteristics</td>
<td>✔</td>
</tr>
<tr>
<td>10 or 15-year rust guarantee on all vessels</td>
<td>✔</td>
</tr>
</tbody>
</table>
UniMaster piston compressors – Professionals for the workshop

Select equipment using the UniMaster modular system:
Assemble your compressor individually according to requirements and select the right equipment for you:

- Performance categories: 4.0 kW / 5.5 kW / 7.5 kW
- Vessel: vertical / horizontal
- Vessel volume: 10 l / 90 l / 270 l / 500 l
- Pressure stages: 10 bar / 15 bar
- Additional equipment: cold dryer and sound absorbing cover

* Certain equipment variants are not compatible with one another – Ask your specialist dealer for more detailed information.

- Flexible extension option by retrofitting a sound-absorbing cover (for compressors with 4 kW) and/or a cold dryer
- Simple, cost-saving inspection of the vessel through hand hole

Equipment variants

UniMaster STL

UniMaster STS

UNM STS

UNM STS XDK with cold dryer

UNM STS XS with sound absorbing cover

UNM STS XSDK Silent with cold dryer

UNM STL with sound absorbing cover

UNM STS with cold dryer

UniMaster STB auxiliary compressor

UniMaster STB with sound absorbing cover
Piston compressor versus screw compressor

A wide variety of compressors are available for compressing air. The positive displacement compressors include two main principles: piston compressors and screw compressors. The main difference is the duty cycle.

One of the most important features of a piston compressor is intermittent operation, which means that their duty cycle should not exceed 70 percent an hour.

Screw compressors on the other hand operate constantly and are designed to supply compressed air continuously. Excessively large screw compressors perform continuous switching cycles that can reduce the service life of the machine because the required operating temperature is never reached or maintained. Condensate forms in the oil circuit as a consequence, resulting in increased wear, shorter maintenance intervals and higher costs.

In most cases, the compressed air requirements in trade and industry consist of a base load and a peak load. Here, both compressor systems can be combined ideally. The screw compressor covers the base load, and the piston compressor covers the peak load.

Determining your compressed air requirements

A compressed air system is a highly complex system. Factors such as available space, room temperature, air intake and exhaust, ambient conditions, accessibility for maintenance work and noise development etc. should always be considered.

Therefore, it is advisable to enlist the help of a compressed air specialist when determining your actual air requirements because incorrectly designed compressors result in higher energy costs, increased wear and occasional decreases in pressure in your conduit network.

Designing your compressed air system – Call the professionals!

We would be glad to help you design your compressed air system and determine the required air flow rate, the most suitable air quality for your application and pressure requirements with consideration for the long-term future development of your company. We will then recommend the most suitable compressor based on your requirements.
AirMaster screw compressors –
Designed for efficient continuous operation

- Easy to understand electronic control system enables easy handling and maximum operating comfort
- Less space required due to compact dimensions
- All maintenance components are easy to access, which saves time and costs during maintenance work
- Quiet due to soundproofed housing
- Simple assembly of outlet channel through exhaust air guide directed upwards

AirMaster AM K

AirMaster AM K XBDK with vessel and cold dryer
AirMaster AM K XB with vessel
AirMaster AM K XBDK with vessel and cold dryer

Equipment variants

Select equipment using the AirMaster modular system:
Assemble your compressor individually according to requirements and select the right equipment for you:
- Performance categories: 7.5 kW* / 11 kW / 15 kW / 18.5 kW
- Vessel volume: 90 l / 270 l / 500 l
- Pressure stages: 8 bar / 10 bar / 13 bar
- Additional equipment: vessel and/or cold dryer

* Only available as individual machine
Maximum quality for outstanding results

Durable and efficient screw compressor

A robust, durable screw compressor is just one of the many impressive features of the AirMaster machines from Schneider air systems. Its high degree of efficiency is the result of many years of research and continuous improvement. The rotors are also subject to a series of continuous, careful checks to ensure a high level of quality.

Easy handling and maximum operating comfort

The clearly arranged operating panel incorporates the entire control system for the AirMaster compressors: motor start, control of the rotation direction, switching on and off and duty/idle cycles. The remote control, protective devices, alarms and other service messages are also controlled at the operating panel.

Low-noise design

It was possible to reduce noise levels to 64 dB by optimising the air guide so that the compressor is barely audible in a workshop environment. The air flow is directed intelligently to cool your compressor perfectly.

Low maintenance costs

The configuration and design of the compressor allow easy access from all sides. All components subject to regular maintenance can be accessed easily from one side – air filter, oil filter, separator vessel and V-belt. Easy accessibility makes it possible to top up and drain the oil in a very short time.

Reduce your energy costs!

If a screw compressor compresses more air than required, the idling time increases. When idling, a screw compressor requires approx. 30% of the energy consumed during full load operation. Accordingly, the energy costs for compressing one cubic metre of air can quickly grow to several times the costs for full load operation.
Choose a more energy-efficient dryer!

When purchasing a cold dryer, always bear in mind that conventional dryers operate in continuous control mode and permanently consume energy, resulting in high operating costs – even if no air is consumed. Our dryers with ECO energy-saving function on the other hand only consume the energy that is actually required to dry the drawn air and automatically switch to stand-by mode during times of low capacity utilisation.
Perfect compressed air conditioning

Compressed air quality classes as per DIN ISO 8573

<table>
<thead>
<tr>
<th>Class</th>
<th>Particles (dirt)</th>
<th>Water (condensate)</th>
<th>Oil</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Max. particle size</td>
<td>Max. particle density</td>
<td>Pressure dew point</td>
</tr>
<tr>
<td>1</td>
<td>0.1 μm</td>
<td>0.1 mg/m³</td>
<td>-70 °C</td>
</tr>
<tr>
<td>2</td>
<td>1 μm</td>
<td>1 mg/m³</td>
<td>-40 °C</td>
</tr>
<tr>
<td>3</td>
<td>5 μm</td>
<td>5 mg/m³</td>
<td>-20 °C</td>
</tr>
<tr>
<td>4</td>
<td>15 μm</td>
<td>8 mg/m³</td>
<td>-3 °C</td>
</tr>
<tr>
<td>5</td>
<td>40 μm</td>
<td>10 mg/m³</td>
<td>+7 °C</td>
</tr>
<tr>
<td>6</td>
<td>&gt; 40 μm</td>
<td>&gt; 10 mg/m³</td>
<td>+10 °C</td>
</tr>
<tr>
<td>7</td>
<td>&gt; &gt; 40 μm</td>
<td>&gt; &gt; 10 mg/m³</td>
<td>&gt; +10 °C</td>
</tr>
</tbody>
</table>

**Tip**

Please always observe the exact specifications from your raw material or machine supplier relating to the required compressed air quality.

PF – Prefilter
MF – Microfilter
ACF – Activated carbon filter
CD – Cold dryer
AD – Adsorption dryer*

* Our adsorption dryers are fitted with prefilters and microfilters as standard.

Screw compressor

Piston compressor

Vessel
The perfect conduit system for Ø 15–63 mm – Flexible configurations

- Polyamide (PA) for greater flexibility
- Pipeline quickly cut to size using pipe shears

<table>
<thead>
<tr>
<th>Feature</th>
<th>Polyamide pipes</th>
<th>V4A stainless steel pipes</th>
<th>Aluminium pipes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Free of silicone</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Can be combined with brass/stainless steel plug-in system and brass clamping ring system</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Black UV-resistant pipes, suitable for outdoor installation</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Lightweight, hard-wearing and easy to lay, ideal as a main pipeline
- Particularly hygienic and food safe, therefore ideal for clean room technology, food or pharmaceutical industry

<table>
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<tr>
<th>Feature</th>
<th>Polyamide pipes</th>
<th>V4A stainless steel pipes</th>
<th>Aluminium pipes</th>
</tr>
</thead>
<tbody>
<tr>
<td>UV-resistant and suitable for outdoor installation</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compatible with stainless steel plug-in system</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Lightweight, hard-wearing and easy to lay, ideal as a main pipeline
- Low linear expansion ideal for large fluctuations in temperature

<table>
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<tr>
<th>Feature</th>
<th>Polyamide pipes</th>
<th>V4A stainless steel pipes</th>
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<td>✓</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Click-it – the innovative conduit system for Ø 15–28 mm:
Pipe sockets

- **Basis RLD-B**
  - Basis sockets with integrated plug connectors for simple connection of the pipeline

- **Top RLD-T**
  - Exclusively for fitting to a Basis socket

- **Basis+Top RLD-BT**
  - Extremely versatile, with input blocks, through blocks and dead-end distribution blocks

Hoses and workshop equipment

- **Superflex hose**
  - Extremely abrasion-resistant fabric reinforced outer material
  - Special PVC inner coating for a high flow rate
  - Configured individually or available preassembled

- **Spiral hose SSL-PUR**
  - With rotary quick-action coupling and plug nipple, ready for immediate use
  - Bend protection ensures an extended useful life and constant air flow

- **Hose rewinder SLA A**
  - Automatic winding function for a tidier workshop
  - Ready to connect with quick-action coupling and long connection hose with plug nipple

- **Traction FZ**
  - Hang tools at the work station within easy reach
  - Robust aluminium housing

- **Power and air supply unit EA**
  - Complete supply for the workplace - compressed air and electricity from a single unit
  - Compressed air connections with safety coupling for a safer working environment
Pneumatic tools –
The right product for every application

Blowing guns
- Aluminium version
- Plastic version

Rotary tools
- Impact screwdrivers
- Ratchet screwdrivers
- Rotary screwdrivers
- Drills
- Grinding machines

Separating and joining
- Car body saws
- Special cutter
- Riveting tongs
- Staplers and nail guns
Material application
- Paint spray guns
- Material pressure vessels
- Plaster sprayers
- Spray guns
- Special guns
- Grease guns
- Cartridge guns

Material removal
- Needle descalers
- Chisel hammers
- Blasting devices

Other tools
- Tyre pressure measuring devices
- Oil extracting devices
Optional services for your system

Schneider Professional Services from Schneider airsystems offers comprehensive, professional support for your compressed air units. The concept is simple and clearly defined: all customers have the option of choosing the services they require from an extensive service portfolio.

The services provided by Schneider airsystems are divided into four phases:

- Status and requirements analysis
- Consultation and system planning
- Installation and commissioning
- Maintenance and servicing

Maintenance and servicing
- On-site repair and maintenance service
- Reminder service for scheduled maintenance and inspections
- Service hotline offering professional advice
- Compressor hire service
- Tight network of service centres

Consultation and system planning
- Calculation of optimisation and savings potential
- Project planning
- Installation drawings

Status and requirements analysis
- Requirements assessment
- Leak measurement and location
- Energy efficiency measurement
- System and safety check

Installation and commissioning
- Installation
- Commissioning
- Instruction
Status and requirements analysis

We will lay the foundation for a compressed air system adapted to your individual needs by determining your compressed air requirements and taking leak and pressure dew point or volume flow measurements. Our range of services includes a comprehensive system and safety check. On request, we can also locate leaks and measure your energy efficiency level for a fee.

Determining your compressed air requirements

We will identify your compressed air requirements together with you, taking into consideration the air flow rate, most suitable air quality and pressure requirements as well as the number of connection points and their location.

<table>
<thead>
<tr>
<th>ø leak [mm]</th>
<th>Air loss at 6 bar [l/sec.]</th>
<th>Energy loss/year at 8,760 h/a and € 0.19/kWh [kWh]</th>
<th>Energy loss/year at 8,760 h/a and € 0.19/kWh [€]</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1.24</td>
<td>2.891</td>
<td>549.29</td>
</tr>
<tr>
<td>3</td>
<td>11.14</td>
<td>26.017</td>
<td>4.943.23</td>
</tr>
<tr>
<td>5</td>
<td>30.95</td>
<td>72.270</td>
<td>13.731.30</td>
</tr>
</tbody>
</table>

Source: Bavarian Environmental Protection Agency (Hrsg.): “Protect the Climate - Reduce Costs: Guideline for efficient energy use in trade and industry”, 1st edition, Augsburg, 2004

Leak measurement and location

Leaks in the conduit system can increase costs considerably. On average, 5% of the air in systems in smaller industrial and workshop networks leaks, whereas as much as 10-15%* can leak from larger networks.

We measure how much air escapes from your system. If there is a need for action, we will locate the leaks and repair them on request.

Increase the energy efficiency of your system!

Our specially trained employees would be glad to assess your entire compressed air system to identify potential for savings. The capacity utilisation of your system, pressure history, air consumption, pressure dew point as well as duty and idle cycles are measured for a whole week.

Our employees can determine the current energy requirements of your system, identify leaks and wear, optimise the operating performance of your compressor and reduce energy costs by analysing this data. Furthermore, targeted improvements to your system can extend maintenance intervals, increase system reliability, improve working results and minimise wear on your tools.

* Percentage values based on consumption during production periods
(Data: Bavarian Environmental Protection Agency).
Consultation and system planning

The specialists from Schneider airsystems identify which is the most suitable compressed air solution for your needs – individually adapted to your requirements. Irrespective of whether you are planning to install a new system or optimise your existing one, Schneider airsystems is the right partner for designing efficient compressed air systems.

Calculating potential for optimisation

Our specialists can calculate the achievable optimisation potential and resulting savings based on the results of the status and requirements analysis.

System and project planning

Achieve maximum efficiency in your system: we will adapt your compressed air system in line with your pressure requirements, your existing tools and the installation location, including condensate and compressed air conditioning units, conduit system and essential peripheral equipment such as a power supply or ventilation unit. We would be glad to provide you with 2D and 3D installation drawings for your project.

Conduit system design

An efficient compressed air system must include a well designed conduit network. We will design the perfect conduit system with appropriate connection points for you based on your individual requirements analysis. A correctly designed conduit system minimises the pressure lost from the line. The compression power is kept to a minimum and efficiency is increased as a result!

Designing your compressed air system – Call the professionals!

We would be glad to help you design your compressed air system and determine the required air flow rate, the most suitable air quality for your application and pressure requirements with consideration for the long-term future development of your company. We will then recommend the most suitable compressor based on your requirements.
Installation and commissioning

Once the compressed air system is designed according to your individual requirements, the specialists at Schneider airsystms will ensure that you can promptly use your new or optimised system.

Installation

We will take care of the installation and make sure that your system is ready for operation on schedule and to your full satisfaction. You can decide yourself which services to choose.

Commissioning

After installation, our qualified specialist staff will commission your compressed air system, configure the parameters according to your requirements and carry out a full function test. You and your employees will then receive detailed instructions on how to operate the system.
Maintenance and servicing

If your system is due for maintenance or repairs, you can count on us. We will take care of any servicing work and our nationwide service network is guaranteed to process your request quickly.

**Maintenance**

We accept service at face value and offer you a maintenance contract specifically for your compressed air system. When you have your system repaired by professionals, you will benefit from the following:

- Warranty extension to 3 years
- Outstanding functionality and maximum operational reliability
- Professional maintenance
- Reduced operating costs planned in the long term

Of course, we offer one-off maintenance for anyone who is not able to commit to a full service plan. Our service staff would be glad to remind you when maintenance work is due next.

**Maintenance parts subscription**

If you wish to maintain your machines* yourself, you can choose to have the necessary maintenance parts delivered regularly as part of a subscription so that you avoid spending time ordering parts and never forget to maintain your machines again!

**Repair service**

You can hand over small machines to our service partners. Larger systems are repaired directly on site so you can start using them again as soon as possible.

**Compressor hire service**

We offer a compressor hire service so that you can avoid downtimes and deal with anticipated peaks in operation.

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* only possible with stationary piston compressors, prefilters, microfilters, activated carbon filters and oil-water separators

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System failure – Call the professionals!

Should your system ever fail, you can contact our professional specialist advisors directly on the Service Hotline +49 (0)7121 959-199. They will keep downtimes to a minimum, make sure that your machines are repaired professionally and minimise repair costs wherever possible.
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Or visit our website: www.schneider-airsystems.com

Your local specialist dealer or service partner: