

Compressed air to meet the highest standards

Optimally suited to continuous operation of milling and grinding machines

When it comes to a reliable and continuous supply of compressed air, milling and grinding machines place particularly tough demands on compressors. A constant flow of oil-free, clean and dry compressed air is the top priority – after all, milling machines never take a break during operation.

Why is high-quality compressed air supply important for milling and grinding machines?

Manufacturers of CAD/CAM systems make clear specifications for the quality of the connected compressed air supply regarding particle, oil and water content. Moist compressed air can cause damage to the CAD/CAM system. Oil can also impair the quality of the milling result. With our membrane drying and bacteria filter, Dürr Dental compressors produce dry and oil-free compressed air – for the optimal result of your work. The air quality of Silver Airline compressors complies with the specifications of the new ISO 22052 for dental compressed air, and therefore also meets the specifications of CAD/CAM manufacturers.

This is what counts:

Membrane drying unit

The duty cycle of a CAD/CAM supply far exceeds the duty cycle of normal dental operations. The membrane drying unit means that no regeneration times are necessary, ensuring constantly dry compressed air in continuous operation.

The tandem principle

The electronic control of the tandem compressors makes it easy to adjust the pressure range. The two units, which work independently of each other, ensure operational safety.

Operational safety with VistaSoft Monitor

With the help of the cloud-based IoT application VistaSoft Monitor, the condition of the compressor can be checked anywhere and at any time, and notifications are given when maintenance is due.

Bacteria filter

The Dürr Dental bacteria filter is a high-performance particulate air filter in filter class ULPA U16 according to standard EN 1822-1:2019-10 / ISO 65U according to standard ISO 29463-3:2018.

Membrane

Downstream of the coalescence filter, 1,200 interior-coated membrane hollow fibres remove moisture from the compressed air. The system delivers 100% availability without regeneration interruptions and provides a constant supply of dry compressed air during continuous operation. In this way, it protects valuable instruments and treatment results. Apart from an annual filter change, the system is maintenance-free.

Coalescence filter with water collecting container

Working as an inflow filter, the coalescence filter protects the subsequent components of the membrane drying unit. The water is drained through a valve via the collecting container.



The right compressor



Duo Tandem, 1 unit

- 400 V (3~), 50/60 Hz
- Order no. 4152-54



Compressor pressure range (bar) to be adjusted

Amann Girrbach Ceramill Motion DRS	7,0-9,0*
Dental Concept Systems DCX	5,5-7,5
imes-icore CORiTEC 150i, 150i dry, 150i PRO	5,5-7,5
KaVo ARCTICA engine	7,0-9,0*
Planmeca PlanMill 30 S, 35, 40, 40 S	5,5-7,5
Roland DWX-4, DWX-50, DWX-51D	5,5-7,5
vhf camufacture N4+	5,5-7,5



Duo Tandem, 2 units

- 400 V (3~), 50/60 Hz
- Order no. 4252-54



Compressor pressure range (bar) to be adjusted

Amann Girrbach Ceramill Motion 2, 3	7,0-9,0*
imes-icore CORiTEC 250i, 350i, Aligner	7,0-9,0*
Datron D1	5,5-7,5
Planmeca PlanMill 50 S	7,0-9,0*
Roland DWX-4W	7,0-9,0*
Sirona inLab MC X5	7,0-9,0*
vhf camufacture K4, K5+, S1, S2, S5	7,0-9,0*
Wieland ZENOTEC mini, select	7,0-9,0*
Zirkonzahn (M1, M3, M4, M5, M6)	7,0-9,0*



Quattro Tandem, 1 unit

- 400 V (3~), 50/60 Hz
- Order no. 4642-54



Compressor pressure range (bar) to be adjusted

Datron D5	7,0-9,0*
imes-icore CORiTEC 550i, 650i, 750i (Luftkühlung)	7,0-9,0*
Ivoclar Vivadent PrograMill (PM3, PM5, PM7)	7,0-9,0*



Quattro Tandem, 2 units

- 400 V (3~), 50/60 Hz
- Order no. 4682-54



Compressor pressure range (bar) to be adjusted

Amann Girrbach Ceramill Matik	7,0-9,0*
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Quattro P 20

- 400 V (3~), 50/60 Hz
- Order no. 4852-54

This recommendation applies to a 1:1 connection between CAD/CAM system and compressor. If other equipment is present (e.g. workstations for technicians), this will affect the correct choice of compressor and therefore must be taken into account accordingly.

*To install the compressor in the increased pressure range of 7.0-9.0 bar, we recommend installing the nozzle set CAD CAM with the article number 1650100347.

In order to avoid pressure fluctuations stemming from other air users, it is recommended that the CAM system run on a separate compressed-air network with dedicated compressor. Adjusting the pressure range on the compressor and setting the correct operating mode is also essential. The Duo Tandem is available with optional sound insulation.



You can find further information here.