

# Z1-AT

Single workstation suction unit



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- **5.000-hour guaranteed motor lifetime\***
- **User-friendly**
- **Minimum noise generation due to the use of high-quality insulating materials**



## External operating element

For greater convenience during use we have developed an external operating module that you can install in addition to the device in a freely selectable place at the workstation. Always at head height, you can monitor and control the unit and obtain important information directly from the suction unit.



## 40-year partnership between Freuding Labors & Zubler Gerätebau

The two companies are bound by a partnership that has lasted 40 years, in which they have worked side by side for convenience and performance in your dental laboratory.



## Controlled level switching

The **Z1-AT** has five suction levels, whose performance at the first four levels can be freely adjusted and saved by the user. The device also features intelligent regulation of the suction power, which adapts itself to the specified setting depending on how full the filter is. It thus ensures constant performance irrespective of the level in the dust container. The fifth suction level serves as a boost for short-term maximum suction power.



## Motor technology

Like all **Z1** suction units, we use the latest technology for controlling the motors in the **Z1-AT** too. A hitherto unequalled guaranteed lifetime of 5,000 hours can be achieved by replacing the carbon brushes several times. The user can check the actual running time of the motor in the system at any time with the help of a display of the working hours that is visible in the Zubler suction technology app.



## Compatible with Freuding workbenches

The new **Z1-AT** suction unit has been designed such that it can be integrated in the simplest possible way and without modifications into the installation spaces of all previous and current drawer suction units from Freuding. This enables you to replace an existing system by the new generation **Z1-AT** and to use all of its technological progress.



## Bluetooth interface with Zubler suction technology app

This interface in conjunction with the Zubler suction technology app enables you to obtain a great deal of information from the suction unit. You can make individual settings conveniently from your Smartphone or tablet and contact us via remote maintenance when service is required. In addition to that you can get information about the motor running time, filter service life and much more besides.



## Pleasant

The use of high-quality insulating materials reduces the noise level of the **Z1-AT** single workstation suction unit to a minimum.

\*Achieved by the user reconditioning the motor several times, thereby changing the carbon brushes.



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... stands for compatibility!



The **Z1-AT** suction unit was specially developed to be a replacement and spare device for the **A82/A84/A84-S/A84-SR** versions, which were built over 30 years ago and whose individual components we can no longer guarantee to obtain after such a long production period. No modifications to the bench are necessary when replacing the old device – following the plug-and-play installation the new **Z1-AT** is available to the dental technician after just a few steps.



All elements of the Freuding **A82/A84/A84-S/A84-SR** suction units such as installation and filter cassette and the Freuding AT suction unit built from 1993 onwards are 100% compatible with the **Z1-AT** suction unit.



Remove your existing suction unit from the installation space and insert the **Z1-AT** unit in its place. The conversion is completed in just a few steps and you can then work with new technology for keeping your workplace clean.



**Motors with a 5.000-hour running time guarantee**

Completely new motor electronics have been developed for all suction units from the **Z1** series. Thanks to this innovative control system the carbon-brush motor is now operated as a pure DC motor and achieves a guaranteed running time of 5,000 hours. Long-term tests have shown that this significantly increased usage time and thus very high cost-effectiveness are achieved by replacing the carbon brushes. The outstanding feature of the **Z1-AT** is the lifetime of a carbon-brush motor, which we had previously only known from continuous running motors.

The effective running time of the motor can be read out and documented by means of a Bluetooth connection and the **Zubler suction technology app**. In addition, a timer provides the possibility to check histories of the usage durations of the individual motors.



Motor after 1,000 hours with conventional control; the collector is heavily worn.



Motor after 1,000 hours controlled by trendsetting Zubler electronics.



## External operating element

An optional external operating element is available to the user for the **Z1-AT**. It can be mounted above the bench top and offers the dental technician greater convenience and user-friendliness. All important functions can thus be controlled either directly on the suction unit or via the external operating module.



## 40-year partnership

The two companies Freuding Labors and Zubler Gerätebau are bound by a 40-year partnership in which numerous projects have been planned and implemented that are still considered milestones in laboratory technology until today.

Beyond this collaboration, the two companies are also linked by a friendship that allows us to communicate quickly and openly and thus to accommodate the individual requests of our customers without compromising.



## Zubler suction technology app

Additional information and important parameters from your suction unit can be set and obtained with the Zubler suction technology app and a Bluetooth connection. Of particular relevance to daily work are the data for the motor running time, filter condition and air flow rate. You will quickly come to appreciate the convenience of the displayed data for service and remote maintenance too. Alternatively there is, of course, the option to enter parameters on the device without the Zubler app.



# Variants & accessories:



**Z1-AT**  
Motor device

Article no.: 800/0009



**Z1-AT**  
Suction unit  
with filter cassette

Article no.: 823/010



**Operating unit for  
Z1-AT**  
Suction unit

Article no.: 823/020



**Power adapter**  
Protective-contact socket on IEC  
connector for technical machines  
with a permanently connected  
mains cable

Article no.: 012/00701



**SL-K data cable**  
for the connection of KaVo  
K-Control grinding systems

Article no.: 825/256K



**SL-Qube data cable**  
for the connection of  
Schick Qube grinding systems

Article no.: 825/25648



## Technical data:

### Dimensions of motor device

(W x H x D): 328 mm x 165 mm x 385 mm

Weight of motor device: 14 kg

Voltage: 230 V ~ 50/60 Hz

Rated power: 700W

Air flow rate: 15 - 40 l/s

Noise level: 47 - 61 dB(A)

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Subject to technical changes.

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