

THE PROFESSIONAL, FOR A PERFECT INDOOR CLIMATE

YOUR NEW STAR EMPLOYEE



*Perfect climate
at home...*



*...or at the office
every day*



*For the highest
standards than
can be claimed...*



...Quality and...



*...Measurement
accuracy.*

Evaporative air humidifier

B500 

Professional



New!

365 DAYS A YEAR


Luftbefeuchtung Proklima GmbH

EVAPORATIVE HUMIDIFIER
B 500 
Professional

More comfort
 With the B 500 Professional

Why does air get dry?

Relative humidity reduces far below its optimum value in winter, especially in closed, heated rooms. The warm, dry air tries to balance this deficit by absorbing humidity from its surroundings.

Loss of value due to dry air.

Plants, furniture, antiques, paintings, musical instruments and books can be damaged seriously (for instance dry cracks) by too dry air and lose a significant amount of their value. Expensive disturbances can occur due to electrostatic charging of data carriers in computer rooms and telephone offices.



Our violin will praise you to the skies:

Maintaining the right air temperature and humidity prevents damage. A **relative humidity value of 50% to 60%** is ideal for your musical instruments.

You can protect your health and preserve valuable art and decoration items in living and office areas, churches, music rooms, libraries, museums and galleries by humidifying and filtering the air in a reliable manner. Our devices ensure a constant level of good storage conditions in your wine cellar or in walk-in humidors. They guarantee smooth operations in large technical institutions such as data processing rooms, telephone offices, laboratories, libraries, printing works and hospitals.



Remote control

With this easy-to-use remote control unit only authorized personnel can alter the settings of the appliance quickly and easily without any irritating cables on the floor.

Housing

Its elegant, timeless design matches all kinds of surroundings. The housing with grained lacquer is made of plastic. It is anti-electrostatic, acidproof, resistant to alkaline solutions, absolutely corrosion-proof, dimensionally stable/highly shock-resistant.



« In most cases, it is the loss of a thing which teaches us its value. »
 (A. Schopenhauer)

Construction

Modular construction – no problems!

An air humidifier should be easy to maintain and operate. For this reason, our devices have been constructed as modular units and consist of three structural components:

- upper part
- middle part
- lower part

This construction has proven its worth in practice. The humidifiers can be maintained and serviced effortlessly. It can be moved on four steering rollers. We paid special attention to safety while developing this humidifier. The impeller is protected by means of a grid. We also took special care to ensure an environment friendly, almost noise-free operation. The regulation of the humidifier is fully electronic.

Better value for money

Humidify, clean, and filter...

Sensor measurements



New!

More precise and stable measurement values with the wireless sensor system.

This sensor system is attached to the wall (by means of a Velcro strip) without any problems. It is unobtrusive and ensures a safe and regular measurement and control of the humidifier from a distance of up to 30m. It offers precise and stable measurement values for 5 years with a maximum of 3% deviation of the humidity measurement.

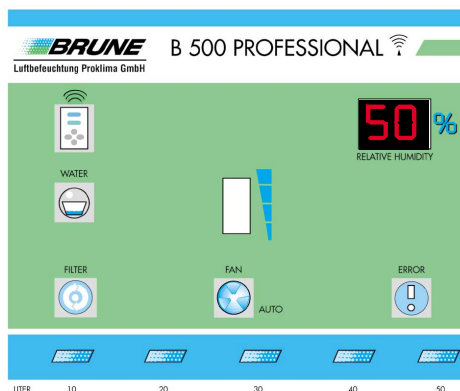
The sensor system operates with batteries. As soon as the battery needs to be changed, a warning signal is emitted.

Fan

**Output made to measure:
The 4-speed fan with automatic function**

The B 500' air humidifier has a radial fan that runs quietly and can be set at any of 5 different speeds. These consist of 4 manually set speeds and an automatic setting in which the speed of the fan is regulated upwards or downwards by the output requirement. In manual operation the user chooses between speeds 1 to 4 with the remote control.

**Do you have any questions?
We would be glad to provide the information you need.**



Operation

**Everything in your grip
The optical operating display**

Everything in view: everything in your grip: the simple operating display gives you all the information you need to have. It shows you the actual relative humidity in the room. Additionally it gives you information about the current operating status of the appliance, e.g. water fill level, fan speed, filter change display, or any malfunctions that may be occurring. With the remote control unit you can alter the individual settings. The remote control unit makes it impossible for unauthorised persons to make unintentional changes. In addition to the standard settings such as fan speed or required humidity you can make various changes to the basic settings of the appliance at the menu-controlled settings level. You are thus always able to adjust the functions of the appliance to meet your personal requirements.

Preserving old furniture:

Dry cracks and tension in old furniture can be prevented by maintaining the right air temperature and humidity.



Self-diagnosis

Greater functional safety with the self diagnosis system

New!

Greater safety – with its self-diagnostic system the B 500 helps you to recognise and rectify any necessary filter change or any malfunctions that may occur.

If required an external alarm can be provided by an integral alarm relay that passes a malfunction signal on to an external or central control room.

More Comfort

Air cleaning included – the integral accessories

With the cleaning filter set you can extend your air humidifier into an air cleaner. By using a multi-layer filter filled with active charcoal in granular form you can filter dust and odours out of the air.

Simply clean

Air humidifiers that at the same time clean the air are used in order to guarantee a healthy and stable indoor climate. The evaporation process captures floating particles from the air and minerals from the water and keeps them in the water tank. With our new technology we are able to flush away residual water.

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UV sterilization and water treatment...



UV-sterilization and lime conversion cartridge

Simple and hygienic - The use of the UV-sterilization and lime conversion cartridge reduces the germ development and avoids lime deposits in the humidifier.

Water distribution.....

Bio-filter.....

Lime conversion cartridge based on a magnetic field

Crystal glass tubes.....

VA tubes.....

Air inlet.....

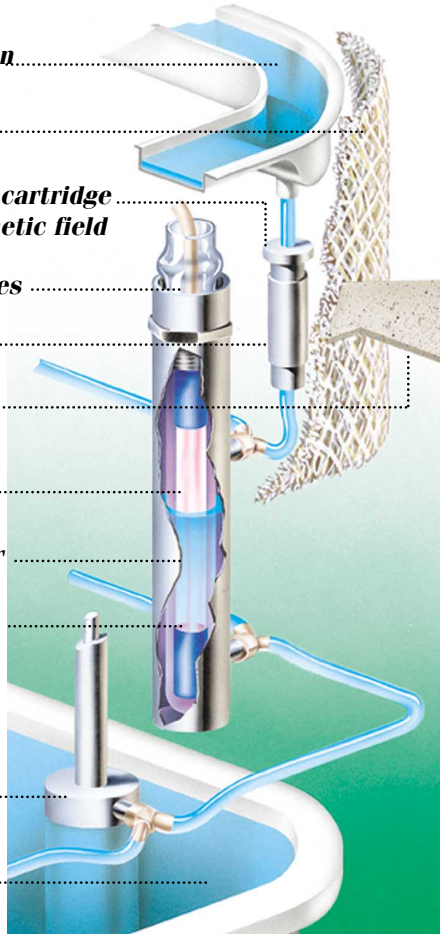
UV radiator.....

Sterilised water.....

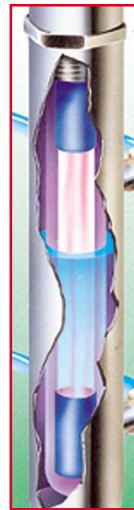
Sterilising area.....

Pump.....

Water container.....



State-of-the-art hygiene technology:



We use two methods for evaporation based humidification of air which, for instance, are also used in clinics and by companies that supply drinking water.

A UV lamp kills germs and bacteria. The mercury low pressure lamp used in our devices operates in the UV-C range. This wavelength kills most micro-organisms.

In this way, the water for the humidifier is disinfected efficiently and enters the water circulation of the device with a considerably reduced number of germs.

« It is a proven fact that the number of germs in the air is reduced significantly. »

The lime conversion cartridge changes the molecular structure of lime in such a way that it can no longer form deposits on the surfaces in the humidifier.

Permanent magnets are used to generate a magnetic field along which the water is transported in the humidifier. In this way, clean, softened water with a reduced number of germs is continuously supplied to the filter.

The efficiency of the UV degermination was tested at the Institut Fresenius, 65232 Taunusstein, in September 1993:



„The device with UV-Sterilization (product no. 93TM062867) reduces the number of aerobic bacteria by approximately three powers of ten as compared to the device without UV-Sterilization (product no. 93TM062868).“

Water supply and flushing system

Greater convenience: direct connection to the water main

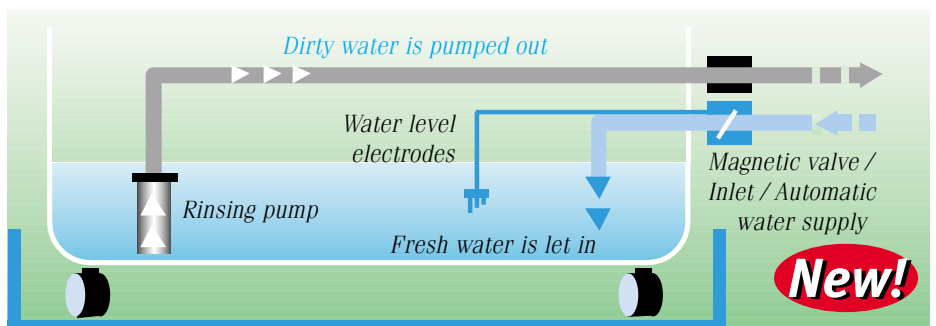
Connecting the B 500 air humidifier to the water main eliminates the need for manually filling it by hand. Topping up is done for you by an electronically controlled magnetic valve that automatically opens the water supply when the minimum water level is reached and stops it at the maximum level.

Automatic flushing system

This option gives you the possibility of replacing the water in the tank easily and conveniently. Deposits of lime scale and dirt are thus minimised. A separate rinsing pump expels the residual water from the tank so that it can be replaced with

fresh water from a direct water connection. The rinsing can be started either manually, using the remote control unit, or automatically, at intervals that can be set and altered at any time between 1 and 7 days. You set the automatic flushing intervals yourself on the control panel.

In addition to this the rinsing pump can be used as a safety pump. If one maximum fill level is reached, it pumps any excessive water off until the normal level is reached again.



The external safety accessories

Evaporative air humidifier

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Safety at a high level

Safety water sensor

As an optional extra, an external water sensor can be connected to the control unit of the B 500 large-volume air humidifier. This is placed underneath the appliance (we recommend combining it with the safety catchment basin) and reacts immediately if there is any uncontrolled escape of water from the appliance. The appliance will stop at once and you will be warned of the water leak both by an audible signal and by an error message on the display. For appliances with an automatic water supply but no rinsing system we recommend the use of the safety water sensor.



Water supply **Rinsing system**

External water monitor

If the B 500 air humidifier is connected directly to the water main, the external water monitor can be used as an additional safety system. Unlike the safety water sensor the water monitor has its own independent magnetic valve connected between the safety pressure hose and the water tap.



Factory installation only. We can supply an appliance on request with the above accessories fitted and ready for immediate operation.



The sensor of the water monitor lies in the safety catchment basin and prevents water from being added to the air humidifier as soon as water comes into contact with it. In addition to this an audible warning signal is given that is not deactivated until the power supply is cut off

Safety pressure hose

The safety pressure hose ensures the connection between the air humidifier and the water tap. If the hose should ever spring a leak, this is recognised by a safety fabric inside the hose and the water supply is automatically stopped



Safety catchment basin

The safety catchment basin is placed underneath the B 500 air humidifier and catches any excess water if there should ever be a leak and prevents any harm being done to the surrounding location. In addition to this it routes the water to the water sensor lying in the basin, which makes a quicker reaction possible.



Available in white, light grey, and anthracite.

50 years of experience has made this humidifier.

Luftbefeuchtung Proklima GmbH

Germany:

- Bayer. Nationalmuseum, Munich
- Historisches Museum, Frankfurt
- Staatliche Kunsthalle, Karlsruhe
- Badisches Landesmuseum, Karlsruhe
- Staatliche Museen, Kassel
- Kunsthalle, Hamburg
- Große Kunstschau, Worpsswede
- Hamburger Michl (Orgel), Hamburg
- Kulturstiftung Ruhr (Villa Hügel), Essen
- Kunstsammlungen NRW, Düsseldorf
- Staatl. Kunstsammlungen, Dresden
- Staatl. Museen zu Berlin, Berlin



Switzerland:

- Bündner Kunstmuseum, Chur
- Johann Kläui Bibliothek, Uster
- Johann Jacobs Museum, Winterthur
- Aargauer Kunsthaus, Aarau
- Schloss Rhäzüns, Rhäzüns
- Musée d'archéologie et d'histoire, Lausanne
- Historisches Museum, Basel



Russia:

- Puschkimuseum, Moscow
- Historisches Museum, Moskau
- Museum der Stadtgeschichte, Moskau
- Museum für angewandte Kunst, Moskau
- Kunstgalerie in Chanty-Mansijsk
- Kunstmuseum, Surgut



Hungary:

- Szépművészeti Múzeum, Budapest



United Arab Emirates

- Emirates Towers, Dubai
- Abu Dhabi Marina Mall, Abu Dhabi
- Intercontinental Hotel, Dubai
- Sheikh Rashid Terminal, Dubai

Oman:

- Oasis by the Sea, Muscat



Iran:

- Esteghlal Hotel Towers, Teheran



Australia:

- Grand Hyatt (Casa Habana), Melbourne



Belgium:

- Musée de la Laine, Verviers
- Musée de l'Orfèvrerie - Seneffe
- Musée Royal d'Art et d'Histoire, Brussels
- Musée des Instruments de Musique, Brüssel



Poland:

- Muzeum Wilanow, Warsaw
- Muzeum Narodowe, Gdansk
- Muzeum Narodowe, Poznan
- Muzeum Lotnictwa i Jezdźnictwa, Warschau



Great Britain:

- Harewood House, Leeds
- Chatsworth House, Derbyshire
- Kenwood House - English Heritage, London
- Manchester City Art Gallery, Manchester



PERFECT INDOOR AIR – PERFECT INDOOR CLIMATE:

CONFIDENCE WORLDWIDE.

This confidence is no accident:

Our appliances meet the most stringent requirements. Many well known museums all over the world trust us when it comes to protecting valuable cultural objects. Technical knowledge, quality in materials and workmanship, many years of experience, and a passion for good products are the arguments on our side.

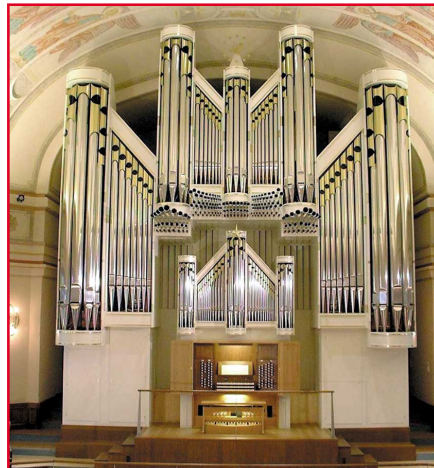
e.g.: Museums



Preserving and appreciating values is the main task of our appliances. Depending on the exhibit concerned, a constant relative humidity between 50 and 60 percent will be necessary in order to avoid damage to these artistic creations.

Well known museums all over the world place their confidence in the professionalism of the B500.

For instance church organs



Air scoop / flexible air hose

Humidifiers with an air scoop and a flexible air hose are used especially for organs. The new sensor enables a selective measurement of areas which are not easily accessible, for instance church organs.

e.g.: tobacco storage



Regulation of air conditioning which is suitable for your storage area



Cool, but not cold - about 20°C
- and the right and stable amount of humidity - about 70%. Generate optimum conditions for storing your fine cigars in your store room or cellar. Our devices offer you an optimum and cost-effective solution. In fact, it is even possible to install them in the neighbouring room by means of external probes, air scoop and a flexible air hose.

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Luftbefeuchtung Proklima GmbH

One plus-point after another...

The main advantages at a glance

- **Ready to plug in and run without any installation work, variable in use, mobile with castors**
- **Economical in operation, quiet-running, low power consumption**
- **Less lime scale deposits on any items of equipment**
- **Normal tap water can be used. The water tank is large (50 litres) and has integral spillage protection.**
- **The air is cleaned by a labyrinth filter system and an activated carbon cleaning filter set.**
- **High level of evaporation performance with a large filter surface (1.5 square metres)**
- **Electronic control, INFRA-RED remote control, temperproof settings.**
- **Wireless humidistat via radio sensor system**
- **Clear control panel with digital display of actual and required relative humidity levels**
- **Filter change display**
- **Water fill level display**
- **Variable 4-speed fan**
- **TÜV/CE tested**
- **Corrosion free**
- **Modular-design housing**
- **Recyclable BIO filter**
- **Self-diagnosis system**
- **Available with direct water connection and rinsing system**
- **UV water treatment and lime scale conversion (optional extra)**
- **Safety accessories**
 - Safety water monitor,
 - safety pressure hose
 - safety catchment basin

**Do you have any questions?
We would be glad to provide
the information you need.**

Inf hotline ++49(0)62 62-5454

Evaporative air humidifier

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The humidifier works with normal or treated tap water. The water container (capacity about 50 l) in the lower part of the device can be easily filled up by hand. It has separating walls and a slosh baffle in order to avoid splashing when it is moved. The water level electrodes show the amount of water present in the container. LED's display the status of the various functions. If the water reservoir is empty, the device stops working automatically.

A humidity sensor makes sure via radio signal that the desired humidity level is reached.

The water is transported via a circulation pump to the bio-labyrinth filter which is sprinkled and soaked uniformly.

The continuously adjustable blower, from which the air blows vertically, ensures a no-draught operation. This system not only achieves a high degree of air purification, but also a thorough humidification of the filtered air.

The logo for BRUNE, featuring the word "BRUNE" in a bold, blue, sans-serif font. The letters are filled with a pattern of small, colorful dots in shades of blue, green, and yellow.

Luftbefeuchtung Proklima GmbH

The figures speak for themselves- Compare them for yourself:

The ideal device for rooms with a volume of approximately 1000m³!

Technical data:

| | |
|------------------------------------|---|
| Power supply | 230 V/50 Hz |
| Power consumption | about 125 Watt |
| Evaporation filter surface | 3.5 m ² |
| Air flow | 800m ³ /h |
| Water reservoir | about 50 l |
| Evaporation efficiency | 2.5 l/h |
| | at 25°C and 20% relative humidity |
| Can be used for room area | up to about 420 m ² |
| Noise level during operation | 32 – 44 dBA (depending on the blower level) |



Dimensions:

External dimensions (WxHxD) 75.5 x 62.0 x 36.5 cm
Weight (empty) about 24 kg

We reserve the right to make technical changes.

Material/Colour*:

Corrosion-proof plastic housing in

RAL 9001
ivory

RAL 7035
grey

RAL 7022
charcoal-grey

Shown colours are not colour reliable



Equipment:

Standard:

- Mobile humidifier and purifier with electronic
- control via humidity sensor
- display of water level
- 4-speed fan with automatic function
- filter change display
- self-diagnosis-system

Extras for an additional charge:

- Automatic water supply connection with overflow
- water filling control system with safety collecting basin
- safety pressure hose
- automatic or manual flushing device
- air scoop
- active charcoal air purification filter set



**Would you like to find out more?
Give us a call.**

BRUNE
Luftbefeuchtung Proklima GmbH

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