



# PROFESSIONAL *B500*

PEAK PERFORMER

*Healthy and value-  
conserving indoor climate  
through air humidification!*



# PROFESSI

## PEAK PERFORMER



### *„The B 500 at a glance“*

#### *Convincing arguments:*

- Mobile due to feed rollers
- Without installation; ready to use
- Use of normal tap water
- No lime deposits on device parts
- Low noise through the 5-step automatic fan
- High evaporation capacity
- Environmentally-friendly BIO filter
- Simple maintenance and care through modular design
- Safe transport using the four steering rollers and thanks to spill-over protection
- Maintenance and malfunction information from the self-diagnosing system
- Filter change and water level display
- Reduction of bacterial formation through UV sterilisation and limestone conversion (optional)
- Healthy indoor climate through air cleaning (optional)
- Direct water connection and automatic cleaning device (optional)
- Wide range of safety accessories (optional)
- Economical operation
- High degree of accuracy through radio measurement
- 50 litres water reserve

#### *Typical examples:*

- Living areas
- Offices
- Music rooms
- Libraries
- Museums
- Galleries
- Parquet floors
- Data processing rooms
- Telephone exchanges
- Laboratories
- Book shops
- Print shops
- Hospitals
- Humidors
- etc.

# PROFESIONAL B500



## “Clean, reliable and convenient”

### *Wireless sensor measurement!*

The wireless hygrostat, with a range of up to 30 m, measures the humidity in the room and forwards the data directly to the B 500 Professional which then self-adjusts its output automatically.

The digital measurement values are so stable and accurate so that the deviation over 5 years is at a maximum of 3%. The hygrostat is simply and quickly mounted to the ceiling with a hook and loop fastener and is equipped with a signal generator which clearly indicates when a battery replacement is needed.

### *Teampayer!*

The B 500 Professional, together with our dehumidifier DEHUMID HP 50, can be operated via a common radio hygrostat. A humidity corridor can be obtained in the room with this distinct interplay of humidification and dehumidification.

Using the 'Brune Web module', the control and monitoring of both devices can be done monitored from anywhere via a network access.



# B500 PROFESSIONAL

## 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 tube

VA tube

Air inlet

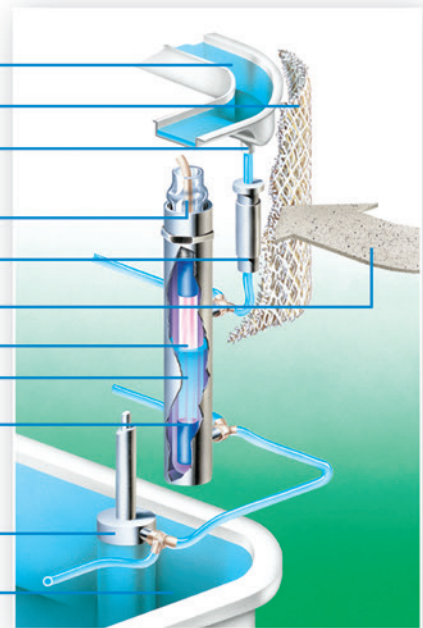
UV radiator

Sterilised water

Sterilised area

Pump

Water container



Optionally, limestone formation can be significantly reduced and limestone deposits prevented with UV sterilisation and limestone conversion.

A low pressure mercury lamp which works in the UV range, kills most microorganisms effectively disinfecting the humidification water which is returned into the device's water cycle with a reduced microorganism count.

The effectiveness of the UV sterilisation was tested at the Fresenius Institute in September 1993:

*'The device with UV sterilisation (Pr.Nr. 93TM062867) led to a reduction in the number of aerobic bacteria by approximately three times the power of ten in comparison to the device without the UV sterilisation (Pr.Nr. 93TM062868).'*

The limestone conversion cartridge generates a magnetic field via a permanent magnet which changes the molecular structure of the limestone in such a way that it can no longer be deposited on the surfaces of the device.

In this way, clean, softened water with a reduced number of germs is continuously supplied to the filter.



## Simply clean!

The B500 Professional can be retrofitted to an air cleaner using the optional activated charcoal filter set. Dust and odours can be filtered out of the air.

Additionally, suspended particles in the air and minerals in the water remain behind in the device's evaporation filter and water tank through the evaporation process. We are also able to treat the water located in the device with our UV technology and the limestone conversion cartridge. In this way, the B 500 Professional provides a healthy and value-conserving indoor climate.

### Simply convenient!

The B 500 Professional functions with normal tap water. This enables a direct supply of water (optional) and manual filling is no longer needed. The water supply is done using an electronically controlled solenoid magnetic valve which opens when the minimum water level is reached and is stopped at a specified maximum level of water supply.

An automatic flushing device is optionally available for the B 500 Professional. In this way, you have the possibility of replacing the water in the tank thus preventing limestone and contamination deposits.

The residual water is pumped out of the tank using a separate flushing pump and automatically replaced with fresh water using the direct water connection. You can manually trigger the flushing via remote control or programme an automatic flushing interval via the B 500 Professional's remote control.

The flushing pump can also be used as a safety pump. If the maximum filling level is exceeded, it removes extra water until the normal filling level has been reached again.

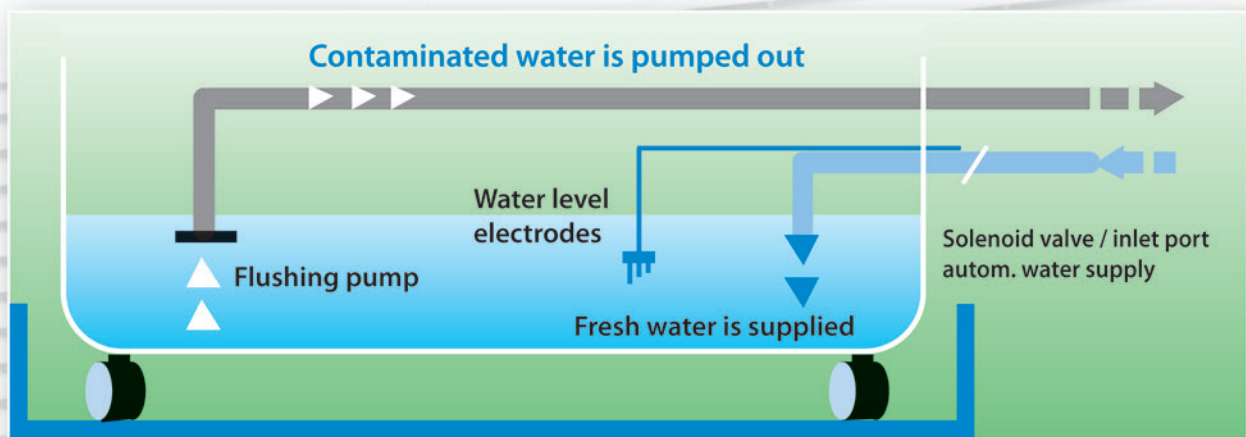
### Simply reliable!

Through the operation and programming via the supplied infrared remote control, undesired manipulations of the settings by unauthorised persons directly on the device are being excluded.

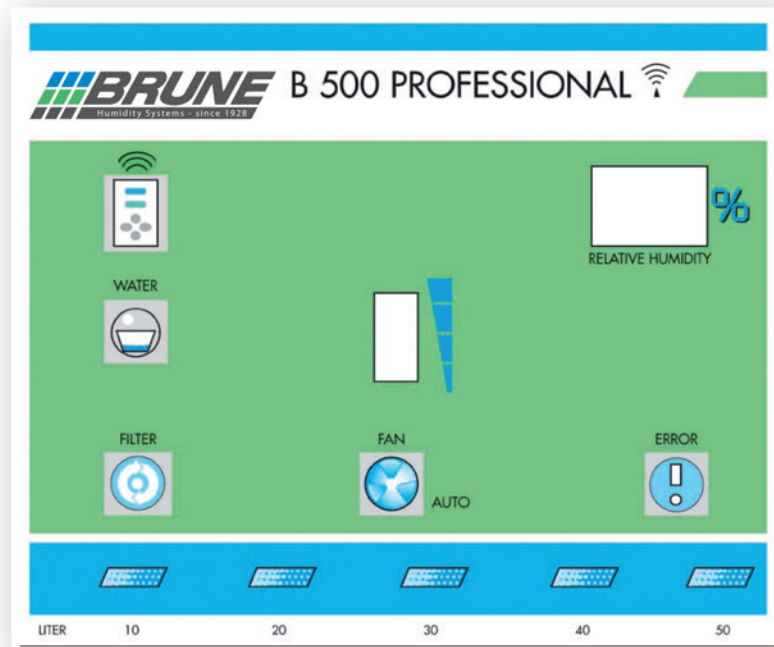
The self-diagnosis system assists you in detecting needed filter replacements and in eliminating any malfunctions. The messages can be forwarded to an external system via an alarm relay.

Bulkhead partitions and overspill protection prevent spilling of the water when the B500 Professional is moved.

With the integrated water level electrodes, not only the water level is displayed on the operating display but the B 500 Professional is automatically switched off if the water supply is depleted.



# PROFESSIONAL *B500*



## *Simple operation!*

The B 500 Professional's operating display provides you with quick information on the current humidity in the room and the operating status (water level, fan setting, filter replacement display, any malfunctions, etc.).

The operation and programming of all B 500 Professional functions such as the setting of the fan speed, the room target humidity or the programming of the automatic operation is done using the infrared remote control included in the delivery.

## *Fan!*

Now even...

- more output
- higher energy efficiency
- quieter operation
- simpler maintenance

The B 500 Professional has an especially quiet radial fan which can be controlled at 5 settings. There are 4 manual settings and one automatic setting available.

In the automatic setting, the fan rpms self-adjust dependent on the output requirements and thus provide for the B 500 Professional's optimal performance.



## Our references!

### Germany:

- Museumslandschaft Hessen, Kassel
- Städtisches Kunstinstitut Frankfurt
- Städtisches Museum Braunschweig
- Historisches Museum Frankfurt
- Staatliche Kunsthalle Karlsruhe
- Kunsthalle Hamburg
- Museum für Kunst und Gewerbe, Hamburg
- Bucerius Kunstforum, Hamburg
- Museum für Kunst- und Kulturgeschichte, Lübeck
- Staatliche Museen zu Berlin
- Bauhaus, Dessau
- Musikinstrumentenmuseum, Leipzig
- Stadtmuseum Dresden
- Landau Media, Berlin
- Museum für Stadtgeschichte, Dessau
- Wendt + Kühn, Erzgebirge
- Staatliche Kunstsammlungen, Dresden
- Bayerisches Nationalmuseum, München
- Bayerische Verwaltung der staatl. Schlösser, Gärten und Seen
- Bayerische Staatsgemäldesammlungen, München
- Bayerische Staatsoper, München
- Münchener Stadtmuseum
- Oberhausenumuseum, Passau
- Diözesanmuseum, Freising
- Diözesanmuseum, Eichstätt
- Staatliches Museum für Völkerkunde, München
- Staatliche Hochschule für Musik, Trossingen
- Stadtmuseum Düsseldorf

### Switzerland:

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

### France:

- Musée de l'oeuvre Notre Dame, Straßburg
- Musée Alsacien, Straßburg
- Cabinet des Estampes, Straßburg

### Poland:

- Muzeum Narodowe, Poznań
- Muzeum Narodowe, Kielce
- Muzeum Śląska, Opolskiego, Opole
- Muzeum Pomorza Środkowego, Słupsk
- Muzeum Historyczne, Breslau
- Muzeum Łowiectwa i Jeździectwa, Warschau
- Muzeum Łazienki Królewskie, Warschau
- Muzeum Narodowe, Breslau
- Archiwum Główne Akt Dawnych, Warschau
- Książnica, Cieszyńska, Cieszyn
- Biblioteka Ossolineum, Breslau
- Pałac Wilanów, Warschau
- Muzeum Literatury w Warszawie, Warschau

### Hungary:

- Szépművészeti Múzeum (Museum of Fine Arts), Budapest

### Russia:

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

### Belgium:

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

### England:

- Garstang Museum of Archeology, University of Liverpool
- Birmingham Museum and Art Gallery

### Australia:

- Grand Hyatt (Casa Habana), Melbourne

### United Arab Emirates:

- Emirates Towers, Dubai
- Abu Dhabi Marina Mall, Abu Dhabi
- Intercontinental Hotel, Dubai
- Sheikh Rashid Terminal, Dubai
- La Casa Del Habano outlets, Dubai
- Fairmont, Dubai
- Armani Hotel, Dubai
- Sheraton, Abu Dhabi
- Le Meridien, Dubai

### Oman:

- Oasis by the Sea, Muscat

### Iran:

- Esteghlal Hotel Towers, Teheran

# B500

## TECHNICAL DATA

### TYPE OF CONSTRUCTION

Colour*:	RAL 9001	RAL 7035	RAL 7022
Dimensions (W x H x D):	75.5 cm x 62 cm x 36.5 cm (without accessories)		
Casing:	shock-resistant plastic		
Empty weight:	approx. 21 kg		

### CHARACTERISTIC VALUES

Mains connection:	230 V / 50 Hz
Power consumption:	95 watts (without accessories), max. 130 watts
Water tank capacity:	approx. 50 litres

### OPERATING DATA

For room sizes up to:	max. 420 m <sup>2</sup> or 1000 m <sup>3</sup>
Air flow up to:	max. 900 m <sup>3</sup> /h (depending on the fan setting)
Evaporation rate:	max. 2.6 ltr./h at 25°C and 20% r.h.
Running noise:	approx. 32 - 44 dBA (depending on the fan setting)

### ACCESSORIES

#### Installed accessories (optional)

- UV water treatment and limestone conversion
- Automatic water supply
- Automatic flushing device
- Activated charcoal cleaning set for air cleaning
- Web module for control and monitoring of the settings via a network

#### External accessories (optional)

- Safety water sensor against uncontrolled water leakage
- Safety pressure hose for direct water connection
- Water monitor incl. sensor
- Safety collection reservoir as additional protection against leakage
- Drainage hose for flushing (60-200 cm)
- Air scoop

Subject to technical modifications

\*Colours may vary from actual device/ device housing colour due to printing



#### Luftbefeuchtung Proklima GmbH

Schwarzacher Straße 13 • 74858 Aglasterhausen  
Germany

Phone: +49 (0) 62 62 / 54 54

Fax: +49 (0) 62 62 / 32 55

E-mail: mail@brune.info

Website: www.brune.info