

## UB/P8 UB/P-D8

### Ultrasonic universal air humidifier

*Universal application - progressive technology  
Hygienically impeccable - incredibly quiet - extremely economical*

**With the AIRWIN® UB/P and UB/P-D dry warm air soon disappears, because it effectively humidifies the air and refreshes it.**

AIRWIN® UB/P and UB/P-D have been developed for punctual humidification. In connection with an aerosol distribution system they are especially suitable for humidification of long food counters with fresh goods (fruit, vegetables....) and for all other broad-surface production processes requiring small tolerances (textiles production, foil production, gluing processes, veneering etc.).

It also reliably prevents disturbing antistatic charging of the process environment.

Salad bars,

cheese counters,

fish counters,

flower counters,

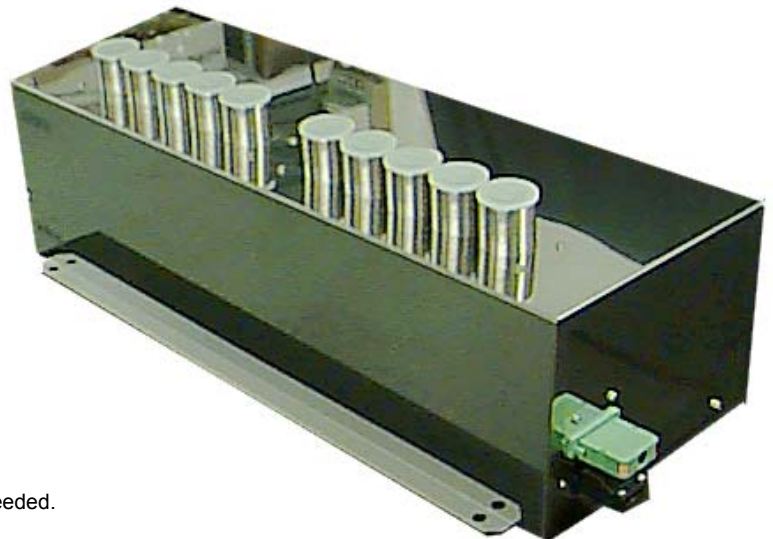
vegetable counters,

sausage and meat counters,

room humidification by air ducts,

for direct humidification during work processes,

at any places where optimal and specific humidification is needed.



Atomisation by ultrasound has become more and more important in the last few years and has led to new applications. AIRWIN® humidifiers are not only used in air-conditioning, but also in industry and trade with considerable success. Such technical processes and the storage of perishable goods demand humidification within close tolerance limits.

Mineral deposits are prevented by the use of fully demineralised water.

Progressive technology makes universal application and economical functioning possible - only ~98W/h of electrical power input for 1kg of humidity. The adiabatic humidification principle takes up thermal energy and thereby cools the humidified object (evaporative cooling) with simultaneous transit time reduction of the cooling aggregates. These two factors contribute to the fact that the UB/P and UB/P-D has a very short pay back time.

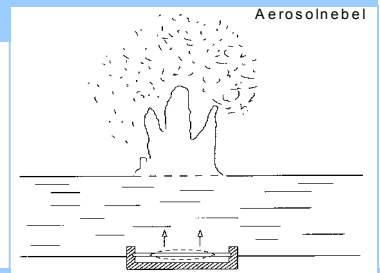
**The humidification system of the future!**

## TECHNICAL DATA

Specification	unit	UB/P8	UB/P-D8
Item no..		7900508	7900608
Humidifier output *	kg/h	4	4
US generator	piece	8	8
Ventilator output **	m <sup>3</sup> /h	200	200
Power consumption	watts	310	320
Power supply	V/Hz	48/50	48/50
Weight	kg	14	14
UB	height	mm	180
	depth	mm	270
	width	mm	640
max. distribution pipe length	m	7	7
* The humidification capacity also depends on the length and the cross section of the hoses/tubes leading to the place of humidification. It has to be made sure that the length of the hoses/tubes does not exceed the maximum value and that the diameter of the hoses/tubes is not smaller than 40mm.			
** The fan capacity depends on the length of the hoses/tubes, their position and their diameter.			

## OPERATION

Water is atomised into aerosols of ~ 1µm by ultrasonic vibrations of 1.7 MHz and transported through the aerosol distributor to the humidification objects with the air flow which is produced by the incorporated ventilator. There the aerosol mist (cold steam) is quickly absorbed by the surrounding air and completely evaporates.

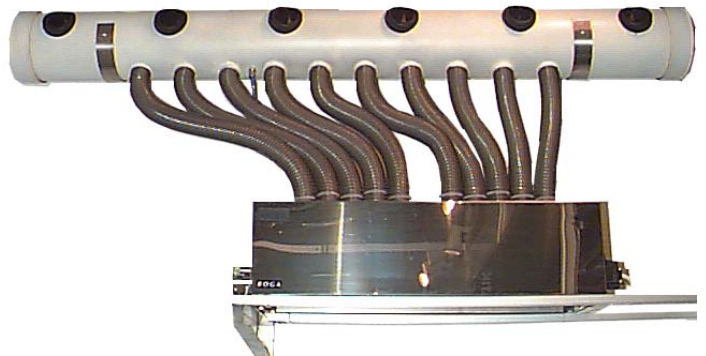


## DEVICE DESCRIPTION

AIRWIN® UB/P and UB/P-D are made of corrosion-resistant materials (stainless steel housings, plastic parts). Dry-running protection, thermal protection, overrunning protection and peak voltage protection are part of the basic equipment. AIRWIN UB/P and UB/P-D operate with low voltage 48VAC. The necessary transformers are part of our delivery range.

The UB/P ultrasonic humidifiers are ready for connection to the control signal 0...10VDC. A hygrostat can also be directly connected.

The UB/P-D ultrasonic humidifiers come with the hygiene management AquaDrain®. Therefore they are particularly suitable for extremely demanding hygienic applications. AquaDrain is a system that flushes the water supply line to the humidifier according to diverse parameters and empties the water reservoir of the UB/P-D humidifier in certain intervals. AquaDrain is controlled by a software program and a combination of magnetic valves. In addition, AquaDrain prevents compensation of the water level, which is reduced by evaporation, in passive operating mode of the UB/P-D humidifier.



## CONTROL

### UB/P

- two-step hygrostat ( 2 steps 50%, 100%)
- continuous control for all ordinary control signals
- operation-controlled fan
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### UB/P-D

- two-step hygrostat ( 2 steps 50%, 100%)
- continuous control for all ordinary control signals
- operation-controlled fan
- external safety chain can be connected
- AquaDrain®

## HYGIENE

**AquaDrain®** flushes the water supply lines, empties the water reservoir of the UB/P-D in cycles, empties the water reservoir after short periods of "non-humidification" and power failures.

**AquaDrain®** is a program developed by BOGA GMBH, which guarantees hygienic safety in connection with the benefits of high frequency ultrasound for germ control.

Subject to technical modifications / 05.2005

Distribution and Services