

UB1...4

Ultrasonic Universal Humidifier + AquaDrain®

*universal application - progressive technology
hygienically impeccable - incredibly quiet - extremely economical*

With the AIRWIN® UB dry warm air soon disappears, because it effectively humidifies the air and refreshes it.

The AIRWIN® UB may be applied directly for specific humidification of

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 place where optimal and specific humidification is required.

UB4



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 has a very short pay back time.

In connection with our disinfection program **Contra-Keim**, room air and surface disinfection is also possible.

The humidification system of the future!

TECHNICAL DATA

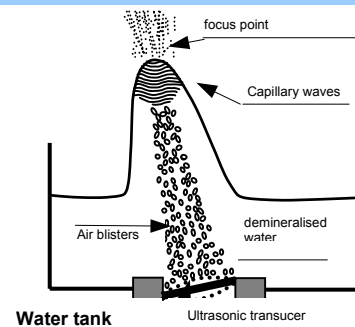
specification	unit	UB1	UB2	UB3	UB4
humidifier output *	kg/h	0,5	1,0	1,5	2,0
US-Transducer	unit	1	2	3	4
Ventilator output **	m ³ /h	49	49	49	49
Power consumption	VA	105	135	165	195
Power supply	U		230V/50Hz		
Fuse ratings	A	7.2	7.4	7.6	7.8
UB height	mm			179,5	
UB depth	mm			253,0	
UB width	mm			274,0	
remote control					
FB height	mm			060,0	
FB depth	mm			096,0	
FB width	mm			160,0	
FB cable length	m			002,0	

* The humidifier output depends on the length and the cross section of the hoses/pipes leading to the place of humidification. The length of the hoses/pipes may not exceed 1.5m per outlet and the diameter of the hoses/pipes may not fall below 40mm.

** The humidifier output is dependent on the length of the hoses/pipes, on their installation and their diameters.

OPERATION

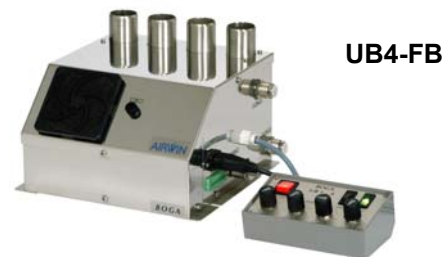
Water is atomised into aerosols of $\sim 1\mu\text{m}$ by ultrasonic vibrations of 1.7 MHz and transported through the aerosol distributor to the humidification objects with the air flow which is produced by the incorporated ventilator. There the aerosol mist (cold steam) is quickly absorbed by the surrounding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



EQUIPMENT DESCRIPTION

The AIRWIN[®] UB is made of non-corrosive high-quality steel. It is ready for operation. Only water and electrical energy services have to be connected on the spot.

The safety equipment includes thermal protection, overflow and dry-running protection.



CONTROL

AIRWIN[®] ultrasonic humidifiers are controllable without starting delay and without overrun.

UB : - ON/OFF control by hygrostat
 - continuous by continuous control

UB-FB : with potentiometers in the remote control for separate output control, each output between 0 and 100%.

HYGIENE

AquaDrain[®] flushes the water supply lines, empties the water reservoir of the UB in cycles, empties the water reservoir after short periods of "non-humidification" and power failures. The compact ventilator only works on humidification request.

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

The ultrasonic humidification system AIRWIN[®] is available in many different types for various applications.

Subject to technical changes 05-2005

Distribution and service: