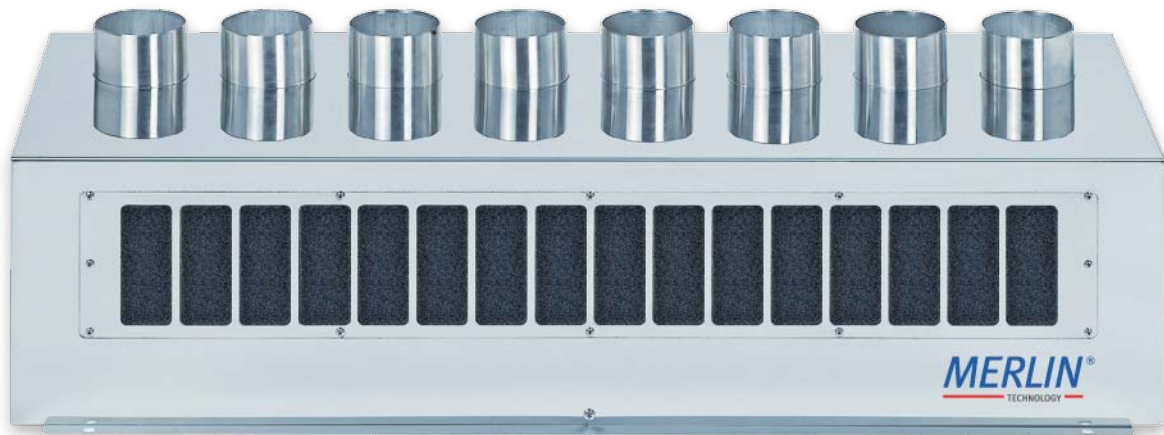


MERLIN[®]

TECHNOLOGY



MERLIN[®] SENSO

Universal humidifier

merlin-technology.com

MERLIN[®] SENSO

The sensitive all-rounder.

The ultrasonic air humidification system MERLIN[®] SENSO keeps classic counter-served goods considerably longer fresh and presentable. The system may, however, also be used for direct humidification at manufacturing processes. It works on the basis of the ultrasonic principle and humidifies the air with aerosols of 1 μ . For generating 1 kg moisture merely 98 W/h of energy is used. Compared with isothermal systems e.g. steam humidifiers up to 93 % of energy costs are therefore saved. The disinfection programme Contra-Keim[®] furthermore supports surface and room air disinfection.

Industrial sectors and fields of application

- laboratories,
- sales counter,
- room air humidification via supply air ducts
- direct humidification at manufacturing processes.

Your MERLIN sales engineer will be pleased to advise you on further application possibilities in the individual case.

Functional principle

Water is atomized by ultrasonic vibrations of 1.7 MHz into aerosols of 1 μ . An integrated fan distributes them via the air flow into the room, the aerosol mist (cold vapour) mixes with the ambient air, evaporates completely and is distributed in the room absolutely evenly.

 **Air humidification**

Better Business Conditions.

Device description

- Corrosion-free stainless steel V2A
- Dry run, thermal and overflow protection
- Oscillator of ceramic-piezoelectric material
- Mains filter for protection against voltage peaks
- Cross flow fan for aerosol transport
- Hygiene management AquaDrain®
- Disinfection programme Contra-Keim®

Optional accessories

- 2-step room hygrostat for ON/OFF control
- Control cabinet including room humidity transmitter
- Various reverse osmosis systems
- Online-conductance measuring
- Various transformers

Controlling

- Hygrostat control
- Constant controlling of all usual control signals
- Function dependent fan control
- Linear path control
- Potential-free output

Operating conditions

Max. air humidity	< 90% relative humidity
Air temperature	5°C to 45°C
Pure water pressure	min: > 1 bar dynamic max: < 6 bar static
Pure water quality	Totally desalinated
Conductance value pure water	< 20 µS/cm³
Low voltage	48 VAC – 50 Hz

Technical data

Type	Humidification capacity Kg/h	Capacity VA	Voltage V/Hz	Weight kg	Length mm	Height mm	Depth mm
SENSO 1	0,5	105	230V/50Hz	6,0	285	188	261
SENSO 2	1,0	105	230V/50Hz	6,0	285	188	261
SENSO 3	1,5	105	230V/50Hz	6,0	285	188	261
SENSO 4	2,0	105	230V/50Hz	6,0	285	188	261
SENSO 8	4,0	310	48V/50Hz	14,0	757	185	290
SENSO 12	6,0	450	48V/50Hz	25,0	881	279	366
SENSO 18	9,0	675	48V/50Hz	26,0	881	279	366
SENSO 24	12,0	900	48V/50Hz	27,0	881	279	366

Application example



MERLIN® SENSO, industrial application.



MERLIN® SENSO with control unit.