

The universal air humidifier UB-1/3.1 is a product of the AIRWIN® brand of BOGA GmbH. It is used for the fully automatic production of aerosol mist from demineralised water according to the ultrasonic principle. Performance of the humidifier is controlled by an external hygrostat ON/OFF signal, MODBUS RTU or by a customer-supplied, continuous control signal.

Specification

- Housing with aerosol exhaust pipes made of demineralised water-resistant stainless steel
- Filtering of the intake air by washable coarse filter
- Compact fan for cooling of electronic components and transport of the aerosol mist through the exhaust pipe
- Electrical power connection 230 V-AC at panel plug IEC
- Central electrical control connection to 15-pole plug
- MODBUS RTU interface designed as D-SUB
- Ultrasonic oscillating circuit with integrated fuse and temperature monitoring of the power transistors
- Stepless power control when operating with analog control signal
- Status messages for humidification and collective fault
- Integrated routines for error detection at water supply and drain
- Redundant level monitoring
- Current measurement of active components
- Possibility to connect standard control signals 0-10 VDC, and 4-20 mA
- Possibility to connect a hygrostat - also 2-stage
- Possibility to connect a wired remote control, 4-channel
- Possibility to connect a safety chain
- Solenoid valve combination for water supply and water drainage
- Water-technical connection without tools by means of hose connectors for metric hoses/pipes
- Automatic level control of the water level, dry-running protection, overheat protection, protection against overvoltage peaks, overflow protection, disconnection protection
- **AquaDrain plus:** integrated hygiene management for cyclical flushing of the water inlet pipe and cyclical or permanent emptying of the fluid tank according to pre-set parameters

Technical Data

Max. humidification output	0.5	kg/h
Number of transducers	1	unit
Power consumption	100	VA

Dimensions

Installation dimensions humidifier HxWxD	205 x 338 x 261	mm
Aerosol outlet pipe	Ø 40	mm
Water supply tube	Ø 6	mm
Water overflow/ drainage tube	Ø 12	mm
Weight	7.3	kg

Operation Conditions

Power supply	230 / 50	V / Hz
Pure water conductivity	5...20	µS/cm
Ambient temperature	5...45	°C
Ambient humidity	0...90	% rH
Water temperature	5...40	°C
Water pressure	1...4	bar

Scope of delivery

- UB-1/3.1 universal humidifier
- Installation and operation instructions
- Water filter for tube D/d = 6/4 mm (inkl. 100 mm tube)
- Stop cock Ø 6 mm
- Discharge tube Ø 12 mm
- Schuko power cable IEC, 2 m
- D-SUB Connector male, 15-pol, housing

Product specification

Brand	AIRWIN®
Type	UB-1/3.1
Item No.	7900259



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The universal air humidifier UB-2/3.1 is a product of the AIRWIN® brand of BOGA GmbH. It is used for the fully automatic production of aerosol mist from demineralised water according to the ultrasonic principle. Performance of the humidifier is controlled by an external hygrostat ON/OFF signal, MODBUS RTU or by a customer-supplied, continuous control signal.

Specification

- Housing with aerosol exhaust pipes made of demineralised water-resistant stainless steel
- Filtering of the intake air by washable coarse filter
- Compact fan for cooling of electronic components and transport of the aerosol mist through the exhaust pipes
- Electrical power connection 230 V-AC at panel plug IEC
- Central electrical control connection to 15-pole plug
- MODBUS RTU interface designed as D-SUB
- Ultrasonic oscillating circuit with integrated fuse and temperature monitoring of the power transistors
- Stepless power control when operating with analog control signal
- Status messages for humidification and collective fault
- Integrated routines for error detection at water supply and drain
- Redundant level monitoring
- Current measurement of active components
- Possibility to connect standard control signals 0-10 VDC, and 4-20 mA
- Possibility to connect a hygrostat - also 2-stage
- Possibility to connect a wired remote control, 4-channel
- Possibility to connect a safety chain
- Solenoid valve combination for water supply and water drainage
- Water-technical connection without tools by means of hose connectors for metric hoses/pipes
- Automatic level control of the water level, dry-running protection, overheat protection, protection against overvoltage peaks, overflow protection, disconnection protection
- **AquaDrain plus:** integrated hygiene management for cyclical flushing of the water inlet pipe and cyclical or permanent emptying of the fluid tank according to pre-set parameters

Technical Data

Max. humidification output	1	kg/h
Number of transducers	2	units
Power consumption	130	VA

Dimensions

Installation dimensions humidifier HxWxD	205 x 338 x 261	mm
Aerosol outlet pipe	Ø 40	mm
Water supply tube	Ø 6	mm
Water overflow/ drainage tube	Ø 12	mm
Weight	7.4	kg

Operation Conditions

Power supply	230 / 50	V / Hz
Pure water conductivity	5...20	µS/cm
Ambient temperature	5...45	°C
Ambient humidity	0...90	% rH
Water temperature	5...40	°C
Water pressure	1...4	bar

Scope of delivery

- UB-2/3.1 universal humidifier
- Installation and operation instructions
- Water filter for tube D/d = 6/4 mm (inkl. 100 mm tube)
- Stop cock Ø 6 mm
- Discharge tube Ø 12 mm
- Schuko power cable IEC, 2 m
- D-SUB Connector male, 15-pol, housing

Product specification

Brand	AIRWIN®
Type	UB-2/3.1
Item No.	7900260



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The universal air humidifier UB-3/3.1 is a product of the AIRWIN® brand of BOGA GmbH. It is used for the fully automatic production of aerosol mist from demineralised water according to the ultrasonic principle. Performance of the humidifier is controlled by an external hygrostat ON/OFF signal, MODBUS RTU or by a customer-supplied, continuous control signal.

Specification

- Housing with aerosol exhaust pipes made of demineralised water-resistant stainless steel
- Filtering of the intake air by washable coarse filter
- Compact fan for cooling of electronic components and transport of the aerosol mist through the exhaust pipes
- Electrical power connection 230 V-AC at panel plug IEC
- Central electrical control connection to 15-pole plug
- MODBUS RTU interface designed as D-SUB
- Ultrasonic oscillating circuit with integrated fuse and temperature monitoring of the power transistors
- Stepless power control when operating with analog control signal
- Status messages for humidification and collective fault
- Integrated routines for error detection at water supply and drain
- Redundant level monitoring
- Current measurement of active components
- Possibility to connect standard control signals 0-10 VDC, and 4-20 mA
- Possibility to connect a hygrostat - also 2-stage
- Possibility to connect a wired remote control, 4-channel
- Possibility to connect a safety chain
- Solenoid valve combination for water supply and water drainage
- Water-technical connection without tools by means of hose connectors for metric hoses/pipes
- Automatic level control of the water level, dry-running protection, overheat protection, protection against overvoltage peaks, overflow protection, disconnection protection
- **AquaDrain plus:** integrated hygiene management for cyclical flushing of the water inlet pipe and cyclical or permanent emptying of the fluid tank according to pre-set parameters

Technical Data

Max. humidification output	1.5	kg/h
Number of transducers	3	units
Power consumption	160	VA

Dimensions

Installation dimensions humidifier HxWxD	205 x 338 x 261	mm
Aerosol outlet pipe	Ø 40	mm
Water supply tube	Ø 6	mm
Water overflow/ drainage tube	Ø 12	mm
Weight	7.5	kg

Operation Conditions

Power supply	230 / 50	V / Hz
Pure water conductivity	5...20	µS/cm
Ambient temperature	5...45	°C
Ambient humidity	0...90	% rH
Water temperature	5...40	°C
Water pressure	1...4	bar

Scope of delivery

- UB-3/3.1 universal humidifier
- Installation and operation instructions
- Water filter for tube D/d = 6/4 mm (inkl. 100 mm tube)
- Stop cock Ø 6 mm
- Discharge tube Ø 12 mm
- Schuko power cable IEC, 2 m
- D-SUB Connector male, 15-pol, housing

Product specification

Brand	AIRWIN®
Type	UB-3/3.1
Item No.	7900261



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The universal air humidifier UB-4/3.1 is a product of the AIRWIN® brand of BOGA GmbH. It is used for the fully automatic production of aerosol mist from demineralised water according to the ultrasonic principle. Performance of the humidifier is controlled by an external hygrostat ON/OFF signal, MODBUS RTU or by a customer-supplied, continuous control signal.

Specification

- Housing with aerosol exhaust pipes made of demineralised water-resistant stainless steel
- Filtering of the intake air by washable coarse filter
- Compact fan for cooling of electronic components and transport of the aerosol mist through the exhaust pipes
- Electrical power connection 230 V-AC at panel plug IEC
- Central electrical control connection to 15-pole plug
- MODBUS RTU interface designed as D-SUB
- Ultrasonic oscillating circuit with integrated fuse and temperature monitoring of the power transistors
- Stepless power control when operating with analog control signal
- Status messages for humidification and collective fault
- Integrated routines for error detection at water supply and drain
- Redundant level monitoring
- Current measurement of active components
- Possibility to connect standard control signals 0-10 VDC, and 4-20 mA
- Possibility to connect a hygrostat - also 2-stage
- Possibility to connect a wired remote control, 4-channel
- Possibility to connect a safety chain
- Solenoid valve combination for water supply and water drainage
- Water-technical connection without tools by means of hose connectors for metric hoses/pipes
- Automatic level control of the water level, dry-running protection, overheat protection, protection against overvoltage peaks, overflow protection, disconnection protection
- **AquaDrain plus:** integrated hygiene management for cyclical flushing of the water inlet pipe and cyclical or permanent emptying of the fluid tank according to pre-set parameters

Technical Data

Max. humidification output	2	kg/h
Number of transducers	4	units
Power consumption	190	VA

Dimensions

Installation dimensions humidifier HxWxD	205 x 338 x 261	mm
Aerosol outlet pipe	Ø 40	mm
Water supply tube	Ø 6	mm
Water overflow/ drainage tube	Ø 12	mm
Weight	7.6	kg

Operation Conditions

Power supply	230 / 50	V / Hz
Pure water conductivity	5...20	µS/cm
Ambient temperature	5...45	°C
Ambient humidity	0...90	% rH
Water temperature	5...40	°C
Water pressure	1...4	bar

Scope of delivery

- UB-4/3.1 universal humidifier
- Installation and operation instructions
- Water filter for tube D/d = 6/4 mm (inkl. 100 mm tube)
- Stop cock Ø 6 mm
- Discharge tube Ø 12 mm
- Schuko power cable IEC, 2 m
- D-SUB Connector male, 15-pol, housing

Product specification

Brand	AIRWIN®
Type	UB-4/3.1
Item No.	7900262



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