The universal air humidifier UB-12/3.1 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
- Two cross flow fans for cooling of electronic components and transport of the aerosol mist through the exhaust pipes
- 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
- Electrical power connection 48 V-AC at the built-in socket
- 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, 2-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
- **Aqua Drain 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: 6 kg/h
- Number of transducers: 12
- Power consumption: 450 VA

**Dimensions**
- Installation dimensions of humidifier –
  - height x width x depth: 268 x 980 x 368 mm
- Aerosol exhaust pipe: Ø 75 mm
- Hose water inlet: Ø 6 mm
- Hose water overflow/discharge: Ø 12 mm
- Weight: 25 kg

**Conditions of use**
- Power supply: 48 / 50 V / Hz
- Conductivity of demineralised water: 5...20 µS/cm
- Ambient temperature: 5...45 °C
- Ambient humidity: 0...90 % RH
- Water temperature: 5...40 °C
- Water pressure: 1...6 bar

**Delivery volume**
- UB-12/3.1 universal air humidifier
- Installation and operating instructions
- Water filter for hose D/d = 6/4 mm (incl. 100 mm hose)
- Stop cock Ø 6 mm
- Plug 3-pole, 20 A
- D-SUB Connector male, 15-pol, housing

**Product specification**
- Brand: AIRWIN®
- Model: UB-12/3.1
- Item No.: 7900613
Product data sheet AIRWIN® UB-18/3.1

Universal air humidifier

The universal air humidifier UB-18/3.1 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
- Two cross flow fans for cooling of electronic components and transport of the aerosol mist through the exhaust pipes
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- 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
- Electrical power connection 48 V-AC at the built-in socket
- 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, 2-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**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Max. humidification output</td>
<td>9 kg/h</td>
</tr>
<tr>
<td>Number of transducers:</td>
<td>18</td>
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<tr>
<td>Power consumption</td>
<td>675 VA</td>
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**Dimensions**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation dimensions of humidifier –</td>
<td></td>
</tr>
<tr>
<td>height x width x depth</td>
<td>268 x 980 x 368 mm</td>
</tr>
<tr>
<td>Aerosol exhaust pipe</td>
<td>Ø 75 mm</td>
</tr>
<tr>
<td>Hose water inlet</td>
<td>Ø 6 mm</td>
</tr>
<tr>
<td>Hose water overflow/discharge</td>
<td>Ø 12 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>26 kg</td>
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**Conditions of use**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>48 / 50 V / Hz</td>
</tr>
<tr>
<td>Conductivity of demineralised water</td>
<td>5...20 µS/cm</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>5...45 °C</td>
</tr>
<tr>
<td>Ambient humidity</td>
<td>0...90 % RH</td>
</tr>
<tr>
<td>Water temperature</td>
<td>5...40 °C</td>
</tr>
<tr>
<td>Water pressure</td>
<td>1...6 bar</td>
</tr>
</tbody>
</table>

**Delivery volume**

- UB-18/3.1 universal air humidifier
- Installation and operating instructions
- Water filter for hose D/d = 6/4 mm (incl. 100 mm hose)
- Stop cock Ø 6 mm
- Plug 3-pole, 20 A
- D-SUB Connector male, 15-pol, housing

**Product specification**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>AIRWIN®</td>
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<tr>
<td>Model</td>
<td>UB-18/3.1</td>
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<tr>
<td>Item No.</td>
<td>7900619</td>
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Rev 07/2021
The universal air humidifier UB-24/3.1 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
- Two cross flow fans for cooling of electronic components and transport of the aerosol mist through the exhaust pipes
- 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
- Electrical power connection 48 V-AC at the built-in socket
- 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, 2-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: 12 kg/h
- Number of transducers: 24
- Power consumption: 900 VA

**Dimensions**
- Installation dimensions of humidifier – height x width x depth: 268 x 980 x 368 mm
- Aerosol exhaust pipe: Ø 75 mm
- Hose water inlet: Ø 6 mm
- Hose water overflow/discharge: Ø 12 mm
- Weight: 28 kg

**Conditions of use**
- Power supply: 48 / 50 V / Hz
- Conductivity of demineralised water: 5…20 µS/cm
- Ambient temperature: 5…45 °C
- Ambient humidity: 0…90 % RH
- Water temperature: 5…40 °C
- Water pressure: 1…6 bar

**Delivery volume**
- UB-24/3.1 universal air humidifier
- Installation and operating instructions
- Water filter for hose D/d = 6/4 mm (incl. 100 mm hose)
- Stop cock Ø 6 mm
- Plug 3-pole, 20 A
- D-SUB Connector male, 15-pol, housing

**Product specification**
- Brand: AIRWIN®
- Model: UB-24/3.1
- Item No.: 7900626