The universal humidifier UB-1/CT/3.1 is a product of the brand AIRWIN® of BOGA GmbH. It serves for fully automatic generation of aerosol mist from demineralised water according to the ultrasonic principle. The humidifier’s output is controlled by a continuous control of the integrated, freely-configurable controller.

**Description**

- Housing with aerosol outlet pipe made of stainless steel resistant to demineralised water
- Filtration of the intake air via washable grit filter
- Compact fan for cooling the electronics and transporting the aerosol mist out of the outlet pipe
- Electrical power connection 230 V-AC at panel plug IEC
- Central electrical control at the 15 poles plug
- MODBUS RTU interface designed as D-SUB
- Ultrasonic oscillating circuit with integrated fuse and temperature monitoring of the power transistors
- 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
- Generation of a signal (potential-free contact) if the value falls below the set point value
- High-value, integrated continuous controller CT1 for adjusting the humidifier’s output with many, freely-configurable controller options
- Connection possibility for a limit hygrostat
- Connection possibility for a safety chain
- Solenoid valves combination for water supply and water drainage
- Water supply without any tools via tube connectors for metric tubes/pipes
- Automatic water level control, dry-running protection, overheating protection, overvoltage peak protection, overflow protection, disconnect protection, mains filter
- **AquaDrain**: integrated hygiene management for cyclical flushing of the water inlet pipe and for cyclical or permanent emptying of the fluid tank according to specified parameters

**Technical Data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. humidification output</td>
<td>0.5 kg/h</td>
</tr>
<tr>
<td>Number of transducers</td>
<td>1 unit</td>
</tr>
<tr>
<td>Power consumption</td>
<td>100 VA</td>
</tr>
</tbody>
</table>

**Dimensions**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation dimensions humidifier</td>
<td>205 x 338 x 261 mm</td>
</tr>
<tr>
<td>Aerosol outlet pipe</td>
<td>Ø 40 mm</td>
</tr>
<tr>
<td>Water supply tube</td>
<td>Ø 6 mm</td>
</tr>
<tr>
<td>Water overflow/ drainage tube</td>
<td>Ø 12 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>7.7 kg</td>
</tr>
</tbody>
</table>

**Operation Conditions**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>230 / 50 V / Hz</td>
</tr>
<tr>
<td>Pure water conductivity</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...4 bar</td>
</tr>
</tbody>
</table>

**Scope of delivery**

- UB-1/CT/3.1 universal humidifier with continuous controller CT1
- Installation and operation instructions
- Water filter for tube D/d = 6/4 mm (incl. 100 mm tube)
- Stop cock Ø 6 mm
- Drainage tube Ø 12 mm
- Schuko power cable IEC, 2 m
- D-SUB Connector male, 15-pol, housing

**Product specification**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td>AIRWIN®</td>
</tr>
<tr>
<td>Type</td>
<td>UB-1/CT/3.1</td>
</tr>
<tr>
<td>Item No.</td>
<td>7900264</td>
</tr>
</tbody>
</table>
The universal humidifier UB-2/CT/3.1 is a product of the brand AIRWIN® of BOGA GmbH. It serves for fully automatic generation of aerosol mist from demineralised water according to the ultrasonic principle. The humidifier’s output is controlled by a continuous control of the integrated, freely-configurable controller.

**Description**
- Housing with aerosol outlet pipe made of stainless steel resistant to demineralised water
- Filtration of the intake air via washable grit filter
- Compact fan for cooling the electronics and transporting the aerosol mist out of the outlet pipes
- Electrical power connection 230 V-AC at panel plug IEC
- Central electrical control at the 15 poles plug
- MODBUS RTU interface designed as D-SUB
- Ultrasonic oscillating circuit with integrated fuse and temperature monitoring of the power transistors
- 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
- Generation of a signal (potential-free contact) if the value falls below the set point value
- High-value, integrated continuous controller CT1 for adjusting the humidifier’s output with many, freely-configurable controller options
- Connection possibility for a limit hygrostat
- Connection possibility for a safety chain
- Solenoid valves combination for water supply and water drainage
- Water supply without any tools via tube connectors for metric tubes/pipes
- Automatic water level control, dry-running protection, overheating protection, overvoltage peak protection, overflow protection, disconnect protection, mains filter
- **AquaDrain**: integrated hygiene management for cyclical flushing of the water inlet pipe and for cyclical or permanent emptying of the fluid tank according to specified parameters

**Technical Data**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. humidification output</td>
<td>1 kg/h</td>
</tr>
<tr>
<td>Number of transducers</td>
<td>2 units</td>
</tr>
<tr>
<td>Power consumption</td>
<td>130 VA</td>
</tr>
<tr>
<td>Installation dimensions humidifier HxWxD</td>
<td>205 x 338 x 261 mm</td>
</tr>
<tr>
<td>Aerosol outlet pipe</td>
<td>Ø 40 mm</td>
</tr>
<tr>
<td>Water supply tube</td>
<td>Ø 6 mm</td>
</tr>
<tr>
<td>Water overflow/ drainage tube</td>
<td>Ø 12 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>7.8 kg</td>
</tr>
<tr>
<td>Power supply</td>
<td>230 / 50 V / Hz</td>
</tr>
<tr>
<td>Pure water conductivity</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...4 bar</td>
</tr>
</tbody>
</table>

**Operation Conditions**

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

**Product specification**

<table>
<thead>
<tr>
<th>Brand</th>
<th>AIRWIN®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
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<tr>
<td>Item No.</td>
<td>7900265</td>
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</table>
The universal humidifier UB-3/CT/3.1 is a product of the brand AIRWIN® of BOGA GmbH. It serves for fully automatic generation of aerosol mist from demineralised water according to the ultrasonic principle. The humidifier’s output is controlled by a continuous control of the integrated, freely-configurable controller.

**Description**
- Housing with aerosol outlet pipe made of stainless steel resistant to demineralised water
- Filtration of the intake air via washable grit filter
- Compact fan for cooling the electronics and transporting the aerosol mist out of the outlet pipes
- Electrical power connection 230 V-AC at panel plug IEC
- Central electrical control at the 15 poles plug
- MODBUS RTU interface designed as D-SUB
- Ultrasonic oscillating circuit with integrated fuse and temperature monitoring of the power transistors
- 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
- Generation of a signal (potential-free contact) if the value falls below the set point value
- High-value, integrated continuous controller CT1 for adjusting the humidifier’s output with many, freely-configurable controller options
- Connection possibility for a limit hygrostat
- Connection possibility for a safety chain
- Solenoid valves combination for water supply and water drainage
- Water supply without any tools via tube connectors for metric tubes/pipes
- Automatic water level control, dry-running protection, overheating protection, overvoltage peak protection, overflow protection, disconnect protection, mains filter
- **AquaDrain**: integrated hygiene management for cyclical flushing of the water inlet pipe and for cyclical or permanent emptying of the fluid tank according to specified parameters

**Technical Data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. humidification output</td>
<td>1.5 kg/h</td>
</tr>
<tr>
<td>Number of transducers</td>
<td>3 units</td>
</tr>
<tr>
<td>Power consumption</td>
<td>160 VA</td>
</tr>
<tr>
<td>Installation dimensions humidifier</td>
<td>205 x 338 x 261 mm</td>
</tr>
<tr>
<td>Aerosol outlet pipe</td>
<td>Ø 40 mm</td>
</tr>
<tr>
<td>Water supply tube</td>
<td>Ø 6 mm</td>
</tr>
<tr>
<td>Water overflow/ drainage tube</td>
<td>Ø 12 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>7.9 kg</td>
</tr>
<tr>
<td>Power supply</td>
<td>230 / 50 V / Hz</td>
</tr>
<tr>
<td>Pure water conductivity</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…4 bar</td>
</tr>
</tbody>
</table>

**Dimensions**

- Installation dimensions humidifier: 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: 7.9 kg
- 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

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

**Product specification**

<table>
<thead>
<tr>
<th>Brand</th>
<th>AIRWIN®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>UB-3/CT/3.1</td>
</tr>
<tr>
<td>Article-no.</td>
<td>7900266</td>
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</tbody>
</table>
The universal humidifier UB-4/CT/3.1 is a product of the brand AIRWIN® of BOGA GmbH. It serves for fully automatic generation of aerosol mist from demineralised water according to the ultrasonic principle. The humidifier’s output is controlled by a continuous control of the integrated, freely-configurable controller.

**Description**
- Housing with aerosol outlet pipe made of stainless steel resistant to demineralised water
- Filtration of the intake air via washable grit filter
- Compact fan for cooling the electronics and transporting the aerosol mist out of the outlet pipes
- Electrical power connection 230 V-AC at panel plug IEC
- Central electrical control at the 15 poles plug
- MODBUS RTU interface designed as D-SUB
- Ultrasonic oscillating circuit with integrated fuse and temperature monitoring of the power transistors
- 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
- Generation of a signal (potential-free contact) if the value falls below the set point value
- High-value, integrated continuous controller CT1 for adjusting the humidifier’s output with many, freely-configurable controller options
- Connection possibility for a limit hygrostat
- Connection possibility for a safety chain
- Solenoid valves combination for water supply and water drainage
- Water supply without any tools via tube connectors for metric tubes/pipes
- Automatic water level control, dry-running protection, overheating protection, overvoltage peak protection, overflow protection, disconnect protection, mains filter
- **AquaDrain**: integrated hygiene management for cyclical flushing of the water inlet pipe and for cyclical or permanent emptying of the fluid tank according to specified 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: 8 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/CT/3.1 universal humidifier with continuous controller CT 1
- Installation and operation instructions
- Water filter for tube D/d = 6/4 mm (incl. 100 mm tube)
- Stop cock Ø 6 mm
- Drainage tube Ø 12 mm
- Schuko power cable IEC, 2 m
- D-SUB Connector male, 15-pol, housing

**Product specification**
- Brand: AIRWIN®
- Type: UB-4/CT/3.1
- Item No.: 7900267