

Ozone module

Item no. 2002004
Purpose Hygiene fresh produce humidification UB-12/18/24



Fan module KMB

Item no. 2002003
Purpose Airflow



AquaDrain module

Item no. 2002001
Purpose Hygiene management AquaDrain KMB



BO-CT1 Continuous controller

Item no. 6100101
Purpose Control of humidification performance



BO-CT1 Option board 2 binary inputs

Item no. 002212
Purpose Setpoint switching, limit comparators, program start, status signal



BO-CT1 Option board analog input 2

Item no. 0002213
Purpose external setpoint setting



BO-CT1 Option board interface RS422/485

Item no. 0002214
Purpose Communication GLT, modbus



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BO-CSA-6 Isolation amplifier

Item no 6100114
Purpose Control signal amplifier



The Ozone module is a product of the AIRWIN® brand of BOGA GmbH. It may be integrated in universal air humidifiers of the UB-12/18/24 series. The use of ozone for hygienic purposes plays an important role in the humidification of fresh produce such as fruit and vegetables. It consists of a power pack and two ozone generators that are built into the humidifiers in a flow-optimized way. The dimensioning follows the maximum workplace concentrations. The ozone module is supplied only as an installed component in connection with one of the above-mentioned universal air humidifiers, or is retrofit in our factory in existing humidifiers.

Specification

- Power supply with two ozone generators
- Integrated in UB-12/18/24
- For the ozonisation of the aerosol distribution system
- Protection of fresh produce

Technical data

Max. power consumption	2.88VA
Max. ozone generation	60 mg/h
Operating voltage of ozone generator	12 VDC

Dimensions

Ozone generator - height x width x depth	34 x 85 x 34	mm
Power supply - height x width x depth	36 x 98 x 112	mm
Weight	0.55	kg

Conditions of use

Power supply	48 / 50	V / Hz
Ambient temperature	5...45	°C
Ambient humidity	0...90	% RH

Scope of delivery

- 2 ozone generators
- Power pack

Product specification

Brand	AIRWIN®
Model	Ozone module
Item No.	2002004



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The fan module is a product of the AIRWIN® brand of BOGA GmbH. It belongs to the optional accessories of the humidifier for minimum quantities KMB. If the KMB cannot be operated with an available air flow, the supporting air flow that transports the aerosols out of the KMB is missing. The fan module KMB is ready to plug-in and can be placed on the KMB. The integrated fan generates the supporting air flow. The humidification output can also be controlled either via the potentiometer in the fan module or via control signal 0-10 V.

Specification

- Housing made of demineralised water-resistant stainless steel
- Easy connection of the fan module to the KMB
- Easy replacement of the air filter mat
- The humidification output is set via potentiometer

Technical data

Max. air volume flow	13	m ³ /h
Power consumption	0.8	VA

Dimensions

Dimensions – height x width x depth	73 x 107 x 50	mm
Weight	0.34	kg

Conditions of use

Power supply	24	VDC
Ambient temperature	5...45	°C
Ambient humidity	0...90	% RH

Scope of delivery

- Fan module KMB
- Installation and operating instructions
- Connection cable for fan module KMB
- Spacers for mounting

Product specification

Brand	AIRWIN®
Model	Fan module KMB
Item No.	2002003



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Product data sheet AIRWIN® AquaDrain Module

Humidifier for minimum quantities

The AquaDrain Module is a product of the AIRWIN® brand of BOGA GmbH. It is used as an accessory for the humidifier for minimum quantities KMB with the hygiene management AquaDrain. Via the built-in week timer, the drainage cycle can be freely preset.

Specification

- Splash-proof plastic housing incl. weekly timer with LCD display
- Connected magnetic valve with 2 m of cable length
- Easy connection to the discharge system with hose Ø 8 mm
- Smallest adjustable time interval 2 s
- Connection cable AquaDrain Module 0.5 m

Technical data

Power consumption	55	VA
Protection class housing	IP54	

Dimensions

Dimensions of housing - height x width x depth	175 x 105 x 110	mm
Hose connections	Ø 8	mm
Weight	1	kg

Conditions of use

Power supply	230 / 50	V / Hz
Ambient temperature	5...45	°C
Ambient humidity	0...90	% RH

Scope of delivery

- AquaDrain Module
- Installation and operating instructions
- Hose D/d = 8/6 mm (2 m)

Product specification

Brand	AIRWIN®
Model	AquaDrain Module
Item No.	2002001



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The Continuous Controller BO-CT1 is a product of the AIRWIN[®] brand of BOGA GmbH. It takes over continuous proportional power control of humidifiers with the reference variable relative air humidity, which must be supplied by a humidity sensor. The continuous controller is freely configurable and can be adjusted to the requirements of the customer. Its functionality may be extended with optional modules.

Specification

- Continuous proportional control of up to 5 humidifiers
- High-contrast multi-color LCD display for actual value, setpoint and operator guidance
- Operation via four front panel buttons
- Analogous input for sensor signal, control output for control signal, 2 relay outputs, power supply for external humidity sensor, 2 binary inputs

Technical data

Power supply	110...240 / 48...63	V/Hz
Power consumption	13	VA
Voltage output sensor	17 / 20	V/mA
Relay outputs	230 / 3	V/A
Input measuring signal voltage	0 (2)...10	V
resistance	> 100	k Ω
Input measuring signal power	0 (4)...20	mA
resistance	< 100	Ω
Output control signal voltage	0...10 / 2...10	V / V
load resistance	≥ 500	Ω
Output control signal power	0...20 / 4...20	mA / mA
load resistance	≤ 500	Ω
Protection class front / rear	IP 65 / IP 20	

Dimensions

Installation dimensions		
- height x width x depth	57.1 x 99 x 90	mm
Panel cut-out - height x width	48 x 96	mm
Weight	0.55	kg

Conditions of use

Ambient temperature	0...55	$^{\circ}\text{C}$
Ambient humidity	0...90	% RH
Position	front panel mounting according to DIN IEC 61554	

Scope of delivery

- Continuous controller BO-CT1
- Operating manual
- Seal
- Fastening elements

Product specification

Brand	AIRWIN [®]
Model	BO-CT1 continuous controller
Item no.	6100101



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The continuous controller BO CT1 serves as continuous proportional controller for ultrasonic humidifiers of the AIRWIN brand® of BOGA GmbH. The functionality of the controller can be extended by a maximum of two function boards. For this purpose, the optional boards come with 2 binary inputs, analog input 2 for external setpoint setting and interface RS422/485.

Specification

- Plug-in board for functional extension of the continuous controller BO CT1
- Inclusion of up to two additional test boards
- Optional board with binary inputs to be used for setpoint switch-over, limit comparators, software start, status message
- Optional board with analog input to be used as an extension of the input signals, e.g. for external setpoint setting
- Optional board interface RS422/RS485 for communication between a master and up to 31 slaves

Technical data

Optional board binary inputs

Number of binary inputs potential-free 2

Optional board for analog input

Voltage	0(2)...10	V
Input resistance voltage	> 100	kΩ
Current	0(4). 20	mA
Input resistance current	< 100	Ω

Optional board interface RS422/485

Interface model	RS422/RS485	
Protocol	Modbus, Modbus Integer	
Baud rate	9600, 19200, 38400	Bd
Device address	0...255	
Max. number of participants	32	

Dimensions

Plug-in board for continuous controller BO-CT1		
- height x width x depth	13 x 68 x 21	mm

Conditions of use

Integration in continuous controller BO CT1

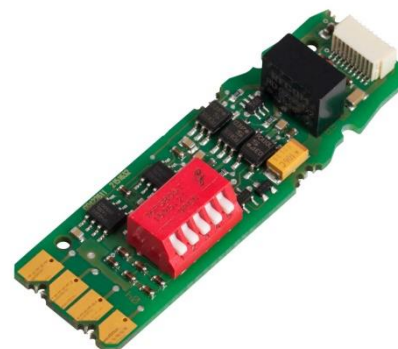
Scope of delivery

- Optional board for use in continuous controller BO CT1

BO-CT1 optional board	Use	Item no.
2 binary inputs	Signal contacts	0002212
Analogous input 2	External setpoint setting	0002213
Interface RS422/485	Communication with BMS	0002214

Product specification

Brand	AIRWIN®
Model	see chart
Item no.	see chart



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Product data sheet AIRWIN® BO-CSA-6 Isolation Amplifier

Accessories AIRWIN®

The isolation amplifier BO-CSA-6 is a product of the AIRWIN® brand of BOGA GmbH. It helps to reinforce the proportional control signal 0-10 VDC and can be integrated in the control cabinet SUR/P and SUR/PT. The reinforcement of the control signal by the isolation amplifier allows the proportionate control of up to six humidifiers. By using five isolation amplifiers up to 30 ultrasonic air humidifiers can be controlled.

Specification

- Add-on housing made of PA / V0
- Unipolar inputs and outputs
- 3-way galvanic isolation between input, output and auxiliary voltage
- Snap-in mounting for standard rail TS35
- High reliability
- Connection with M3 screw terminals 0.14 - 2.5 mm², rigid or flexible

Technical data

Supply voltage	19.2...30	VDC
Power consumption	2	VA
Transmission frequency	25	Hz
Input control signal voltage	0...10	V
Load	100	kΩ
Max overload	50	V
Output control signal voltage	0...10	V
Current max.	20	mA

Dimensions

installation dimensions		
- height x width x depth	70.4 x 17.5 x 90.5	mm
Weight	68	g

Conditions of use

Ambient temperature	0...50	°C
Ambient humidity	0...90	% RH
Protection	IP20	

Scope of delivery

- BO-CSA-6 isolation amplifier
- Installation and operating instructions

Product specification

Brand	AIRWIN®
Model	BO-CSA-6
Item no.	6100114



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