BADU® OmniTronic

Universal automatic backwash unit for almost every application. Simple and flexible operation.

Field of application

Depending on the size and load, filter units have to be backwashed on a regular basis in order to wash away debris that has been filtered in. The BADU Omnitronic electronic backwash device is a reliable and time-saving alternative to manual backwash valves.

Mode of operation

A digital timer starts the backwash procedure automatically according to the settings of the interval or time controlled programme. Filter time settings can also be specified. An automatic level control is integrated and can be used with an optionally available level sensor and magnetic valve. A battery pack prevents the pool from emptying in the event of a power failure.

Performance features

- The new and larger control box of the BADU OmniTronic provides more space for additional sub-assemblies.
- Mounting rail (15 mm) for modules.
- BADU GREEN pumps, such as the BADU Delta Eco VS can be connected directly to the backwash device with a potential free cable.
- Level control with optional sensor
- Various inputs and outputs with additional functions, e.g. pressure switch trigger and remote control.
- Operation in combination with a dosage control system possible.

Technical data	BADU OmniTronic
Operating voltage	1~ 230 V, 50 Hz
Connection value (motor capacity P_1)	max. 1.00 kW
Fuse, for electronics/pump	315 mA delay/4 A delay
Max. permissable load current	250 V/4 A
Operating pressure	max. 2 bar

For more detailed information regarding the device protection please see page 147

Technical data may vary.

Article no	Description	Connections	Voltage
260.6000.041	BADU OmniTronic with BADU Mat R 41/3 A	Rp 1½	1~ 230 V
260.6000.051	BADU OmniTronic with BADU Mat R 51/3 A	Rp 2	1~ 230 V
260.6402.087	Pressure transducer +0.50..+1.50 bar, incl. assembly accessories		
260.6402.088	Pressure transducer +0.25..+1.00 bar, incl. assembly accessories		
260.6402.204	Accessory: Control of floor drain		
260.6402.205	Accessory: Control of single phase pumps up to a maximum of 6.40 A.		
260.6402.206	Accessory: Control of three-phase pumps with 1.00 A **)		
240.9102.063	Special non-return valve*) d 63		
260.6402.117	Temperature sensor with 5m cable and PVC mount		
260.6402.118	Temperature sensor with 15m cable and PVC mount		
260.6402.161	Conductivity sensor, 7.5m, as level detector		
260.6402.171	Conductivity sensor, 25m, as level detector		
260.6402.157	Battery pack with capacitor		
260.6402.244	OmniTronic Power switch for photovoltaics		

*) For sewage pipes when the BADU OmniTronic is installed **below** the water level.

**) Further accessories for three-phase pumps with other current consumptions available on request.

Level control

Filter control

Attraction connection

Solar

Pressure dependent backwash

Heating

Active frost protection system

Product details

Switching functions

- Automatic backwash and filtering.
- Backwash and rinse cycles can be started automatically, manually or externally and set individually.
- BADU Green pumps can be connected directly.
- Magnetic valve can be controlled optionally (level control).
- Can be used optionally as a temperature and level control.

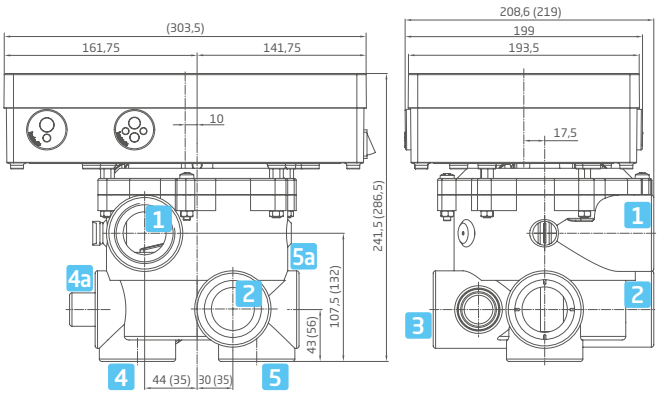
Optional additional modules

- For direct connection of single-phase pumps via a contactor e.g. BADU Prime 7 to BADU Prime 20.
- For direct connection of three-phase pumps via three-phase protection and a contactor e.g. BADU Prime 7 to BADU Prime 25.
- Insert option for a circuit board that controls the floor drain.

Installation tip

Do not install lower than 3 m below water level.
Lead the sewage pipe above the water level in a loop.
In case this is not feasible, install a spring-loaded non-return valve in the sewage pipe.
Too large temperature differences (> 20 K) between the environment and the pumped medium lead to condensation.

Dimensions



The measurements in brackets are for BADU OmniTronic with BADU Mat R 51/3 A.
Detailed dimensions available on request.

1 Pump
2 Pool
3 Sewage
4 / 4a to the filter
5 / 5a from the filter