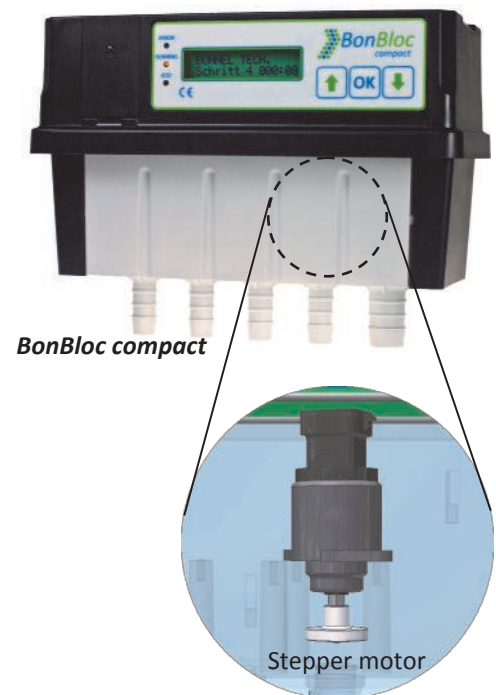


Reasonably priced programmable controller for small wastewater treatment plants with integrated energy-saving valve unit

- All relevant control functions within a compact casing
- 4 motor-driven valves
- 1 air inlet: 3/4"
4 outlets: 1/2"
- Easily programmable via Excel®-Sheet
- Up to 4 relay outputs
- GSM-module as option

Why use the BonBloc compact?

- Outstanding price-performance ratio due to the integrated design and absence of 230V solenoid valves
- Option of the **BonBloc** with a reduced set of features
- Easy to install and connect
- Quiet valve operation
- Saves approx. 95% energy compared to units using standard solenoid actuated valves
- Up to 4 relay outputs offer a comfortable connection of accessory devices
- Sequence program can be easily created and modified using Excel® table
- Password protected system-menu provides access to manual control and easy changing of step times
- IP54 casing, optionally UV-resistant for outdoor installation



BonBloc compact details

Idea:

SBR wastewater treatment plants normally use a **control unit** and a **valve module**. These are installed separately and have to be connected using costly cables and connectors.

The **BonBloc compact** integrates both, the **controller** and the **valves** into a **single compact and easy to install device**. No more cable spaghetti!

The unit is equipped with a reduced set of features than its bigger brother, the **BonBloc**. Nevertheless it offers **all the comfort** you need for most of the applications at a **very competitive price**.

Valves:

Instead of conventional solenoid valves we use reliable stepper motors from the automotive industry. These new valves have been **successfully tested since 2008 in real waste water treatment plants**.

Why **stepper motors**? First, they consume energy only during opening or closing of the valve, therefore **saving 95% of energy** when compared to conventional valves. That is about 90kWh **per year** or **15€**, and the trend is rising.

Secondly, our valves are, due to the smoother and slower movement, **much quieter** than solenoid actuated valves.

Control unit:

Three buttons, three LEDs, an alphanumeric **LCD display** - regarding its operability our BonBloc compact leaves nothing to be desired. The device can be equipped with **pressure** and **current sensing** to monitor the compressor.

Using the **digital inputs** up to three float switches or other signal sources can be connected (depending on equipment version). Up to **four reliable relays** can control the compressor and other devices (e.g. UV-lamp, dosing of chemicals).

The GSM-module will reliably **send SMS if any alarm occurs**. The **BonBloc compact** can even be remotely controlled and recalled by GSM (both available from 2012).

The **BonBloc compact** is also equipped with features, such as **acoustic signaling** of predefined conditions, a **sequence program permanently saved in the EEPROM** and a set of NiMH **rechargeable batteries** (or normal batteries) to ensure continuous **signaling during power outage** or the function of the GSM-module.

All electrical connections are implemented using cost-effective and universally compatible screw type terminals.

Technical data

Attribute	Value
Dimensions (l x w x h); weight	118mm x 241mm x 181mm; 1.9kg
Ambient temperature	-20°C to +50°C
Protection classification / UV-Resistance (casing)	IP 53 / UV-resistant casing as option
Functions, sequence program, alarms, GSM-communication, display messages (also multi-lingual)	All according to customer request and requirement. Sequence programs are designed and adapted by the wastewater treatment plant manufacturer by means of an Excel®-sheet.
Display / LED	Illuminated (backlit) alphanumeric LCD Additionally up to 3 LED (colors as requested)
Signal-inputs	Up to 3 x digital inputs Pressure sensor 0-400mbar
Data interface	RS-232 (using adapter-cable)
Electrical output	According to customer request, up to 4 relays e.g. 230V / 300VA
Power supply during mains failure	2x NiMH rechargeable batteries (size AA), optionally mignon batteries
Compressed air inlet	3/4" or 1" fittings
Compressed air outlet	1/2" or 3/4" fittings
Maximum pressure	450mbar
Power supply	230VAC, 12W max.