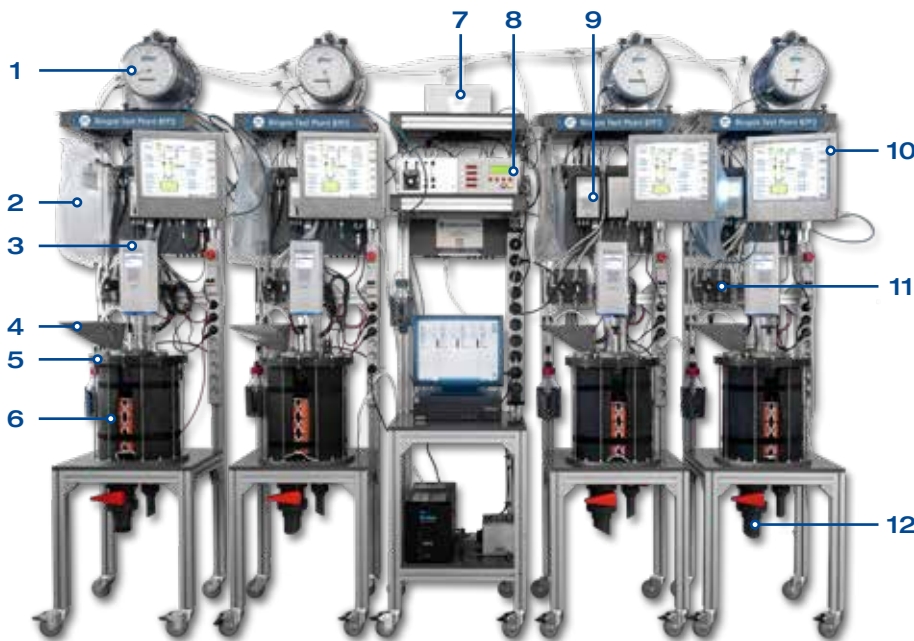




## BTP2-CONTROL ANAEROBIC LABORATORY DIGESTER

The automated bioreactor plant BTP2 is an anaerobic digester and the base system for substrate and gas potential studies. This system has a modular design and it is possible to connect up to ten reactors with only one gas quality analyzer, measuring gas volume and gas quality for each reactor simultaneously and automatically. In addition this system is ideal for research, product development (enzymes, nutrients) or process optimization. Versions for dark fermentation and multi-step reactor systems are also available.

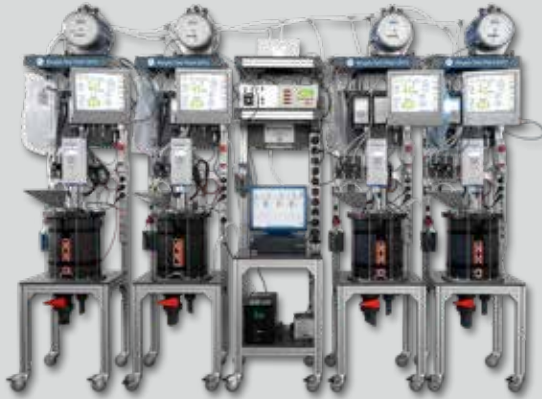


### Components overview

- 1 Drum gas meter with t-sensor
- 2 Gas bag
- 3 Agitator
- 4 Feeding port
- 5 pH and redox measurement
- 6 Reactor (different sizes) incl. mixer tool and heating
- 7 Air pressure sensor
- 8 Central gas quality measurement system (CH<sub>4</sub> | CO<sub>2</sub> | H<sub>2</sub>S | O<sub>2</sub> | H<sub>2</sub>)
- 9 T-controller for reactor temperature control
- 10 SENSOcontrol data acquisition and control system
- 11 Magnetic valves
- 12 Discharge and sampling valve

### Features | options

- ✓ Up to 10 bioreactors on one gas quality measurement system
- ✓ Reactor with different working volumes (5, 15, 30, 60, 80, 120, 150, 400, 1000l)
- ✓ Continuous operation with feeding
- ✓ Electrical heating
- ✓ Two level stirrer with gaslight shaft
- ✓ Dosage pumps for pH-control
- ✓ Gas bag to collect gas samples
- ✓ Measurement equipment: gas quantity, pH, redox, temperature, gas quality
- ✓ SENSOcontrol with touch panel



## BTP2-CONTROL *ADDITIONAL EQUIPMENT*



### SENSOcontrol

The universal automation system SENSOcontrol is used for data acquisition applications and control of units (pumps, mixer) of the test plant. A touch panel for intuitive operation is integrated for user-friendly parameter set-up and real time visualization of measured data.



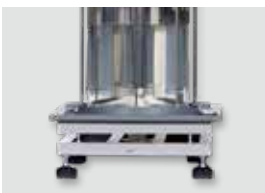
### Tube Pump SP5 / Eccentric screw pump

The individual BTP modules can also be equipped with pump modules, controlled by SENSOcontrol. Tube pumps are available for pH-control and liquid feeding. Eccentric screw pumps can be used for difficult feeding requirements.



### LED lighting system

The individual reactor systems can be equipped with additional LED lighting strips. The following wavelengths can be offered: 670 nm red, 740 nm IR, 570 nm green, 480 nm blue, 2700 K white. The light intensity can be adjusted.



### Scale systems

Scale systems are available for determining the weight and fill level (density of the substrate must be known) in the reactor. Three sensors are used.



### Worldwide delivery

For additional information, individual consultation and prices, please contact us. We deliver our biogas test plants and the ordered additional equipment safely and on time to you worldwide.

*The equipment features of the BTP will be defined by individual quotations.*

Information on BTP2 Control

