



# Biorestat® Pro-V



## BIODECONTAMINATION IN VACUUM OR PRESSURE: THE EVOLUTION OF THE V-PHP GENERATOR

The most effective solution for the biodecontamination of process equipment, thanks to the full hardware and software integration.

"Built-in" version, perfectly integrable, it is designed and sized for all applications that require a V-PHP generator to carry out biodecontamination cycles **in positive pressure** or **in deep vacuum**.

V-PHP generator is a crucial element for manufacturers of process equipment such as isolator, pass box, filling line machine, washing machine and low temperature sterilizer.

To create a valuable partnership, which guarantees the perfect functioning of the system and the effectiveness of the cycles, it is key to rely on a partner with a long experience able to support the OEM during all the engineering and development phases.



### FEATURES

- V-PHP generator reliable, solid and versatile
- Vaporisation in vacuum or pressure conditions
- Full management via Ethernet communication with ModBus TCP/IP protocol
- Entirely made of stainless steel AISI 316
- Precision peristaltic pump
- Integrated scale
- Easy maintenance and replacement
- Compressed air powered
- Patented innovation

### TYPICAL APPLICATIONS

- **Filling line machine**
- **Pass box**
- **Isolator**
- **Autoclave**
- **Lyophilizer**
- **Low temperature sterilizer**

## OPERATIONS

Bioreset PRO-V is completely managed from PLC through Ethernet connection. Via remote control it is possible to manage each component of the instrument, all the different functions and the alarm signals.

Control logic, cycle management and related reporting are developed in collaboration with Amira.

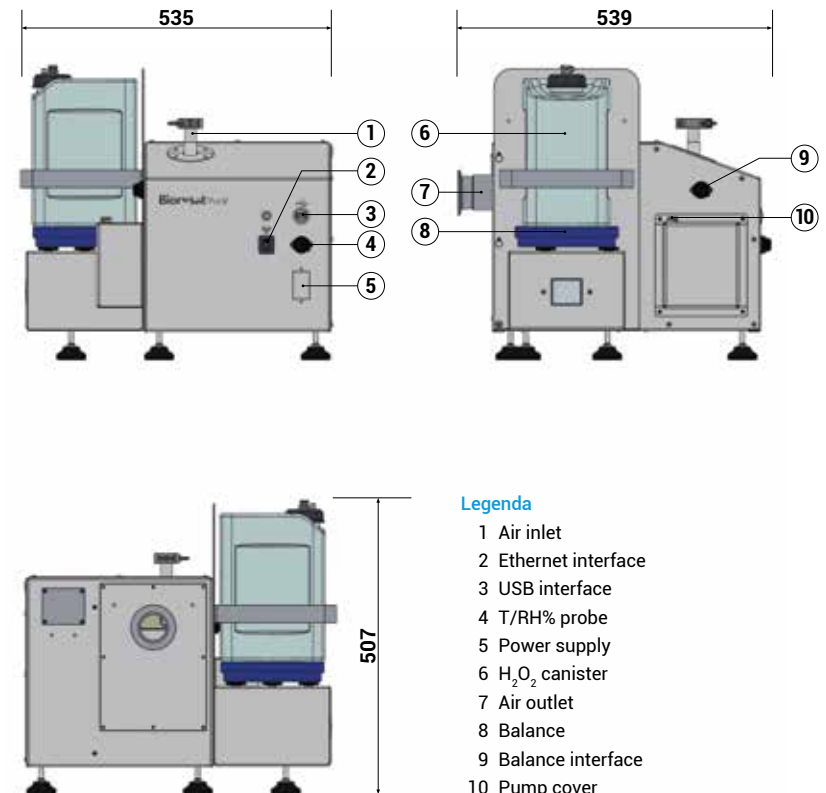
The generator is easy to maintain and it is adaptable to all customer needs.

## OPTIONAL ACCESSORIES

- Catalyst for exhaust, also for ducts in pressure/vacuum
- Special pipe dimensions on request
- Safety devices for personnel
- Cables for remote connection
- T/RH% probe package for automatic cycle

Technical data	
Max treatable volume*	Up to 500 m <sup>3</sup>
T/RH% probe	Optional 0% ... 100% RH – step 0,1% -40°C ... +60°C – step 0,1°C
Balance	0 g ... 15.000 g – step 1 g
Peristaltic pump	Integrated 1,5 ... 15 g/min – step 0,5 < 3%
Remote control	PC or PLC
Communication protocol	ModBus TCP/IP
Ø in / out connection	KF50 for outlet and KF16 for inlet
Airtightness	< 1,3 mbar / minute at 10 mbar absolute < 30 mbar / minute at 1500 mbar absolute
Compressed air	Based on application (not scope of supply)
Materials	Stainless steel AISI 316
Power supply	230V / 50Hz or 110V / 60Hz
Max consumption	1 kW
Dimensions (L x P x H)	535 x 521 x 406 mm
Weight	30 kg

\* clean, dry, sealed enclosures



### Legenda

- 1 Air inlet
- 2 Ethernet interface
- 3 USB interface
- 4 T/RH% probe
- 5 Power supply
- 6 H<sub>2</sub>O<sub>2</sub> canister
- 7 Air outlet
- 8 Balance
- 9 Balance interface
- 10 Pump cover

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