

VPHP GENERATOR

VAPOR PHASE HYDROGEN PEROXIDE GENERATOR



- ✓ Safe and effective decontamination
- ✓ Automatic and repeatable decontamination process in aseptic environment
- ✓ Extraordinary cleaning procedures minimized
- ✓ Compact size and low impact on the laboratory
- ✓ Reduced overall system cost

In nuclear medicine, decontamination and sterilization of isolators is an important aspect in the daily practice of those who work in this field, and a requirement which today is particularly challenging and, at times, difficult.

Our solution for using VPHP in nuclear medicine

Despite the many advantages that this method has, among which is respect for the environment, it is still not widely used in nuclear medicine, particularly because of the lack of integrated technology solutions.

Comecer is well aware of the potential of VPHP and the importance of making it available also in the field of nuclear medicine. We have worked to design integrated solutions that would allow anyone who wanted to use this method to have a product fit for their purpose.

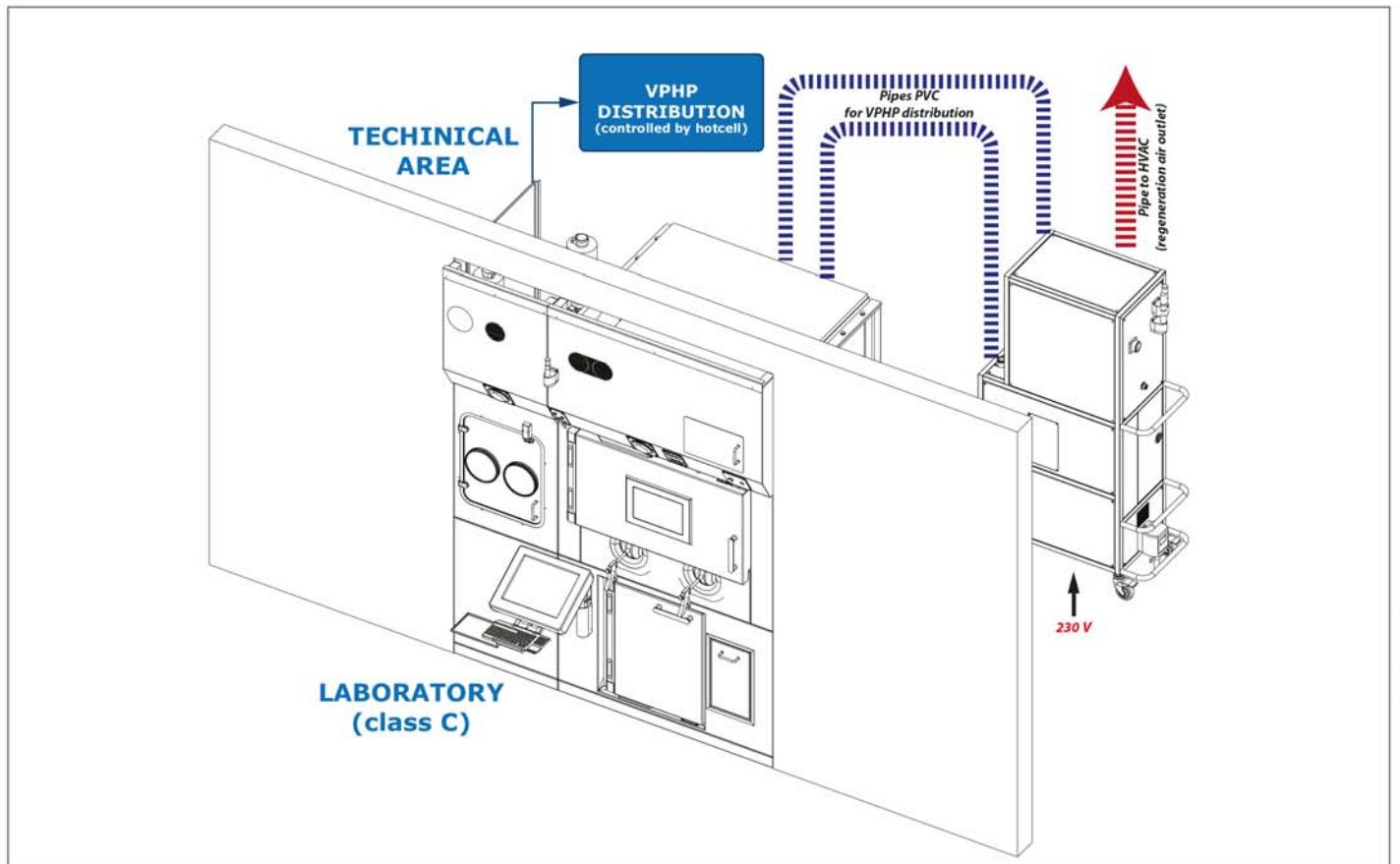
After much effort, we have finally reached this goal: an hydrogen peroxide generator that can be integrated in all our shielded isolators for aseptic processes. This integrated system can reach the target for the decontamination process: log 6 reduction (population reduction by one million-fold).

Nine advantages of the Comecer integrated VPHP generator

1. Performs decontamination tasks safely and effectively according to the highest pharmaceutical standards.
2. Reduces the difficulty and the time spent by an operator in routine procedures, minimizing the extraordinary cleaning procedures.
3. Automates and makes the decontamination process in an aseptic environment repeatable.
4. Controls the system directly from the control panel of the isolator, integrating an automatic decontamination phase into the production process.
5. Reduces mounting dimensions and the impact on the laboratory.
6. Can be located within the equipment compartment of the laboratory without affecting the classified area and ensuring a better approach to GMP.
7. Reduces the lengths of the distribution circuit, compressing process times and waste decontamination.
8. Allows a unique reference point for the installation, validation and service of the integrated isolator + generator solution.
9. Reduces the overall system cost

Technical data

Total weight	kg	230
External dimensions	mm	500 x 1060 x 1850 (l x d x h)
Flow rate	m ³ /h	from 5 to 50
H2O2 tank capacity	l	2.5
Type of disinfectant		H ₂ O ₂ hydrogen peroxide solution (35%)
Injection speed	g/min	from 0.5 to 10
Pre-conditioning system		desiccant rotor with self-regeneration
Catalytic converter		Double phase (Pt/Al oxide or Fe oxide)
VPHP connections	mm	Clamp 1.5"
Regeneration air connection	mm	Clamp 2.5"
Regeneration air		≥35 m ³ /h hot and humid air
Nominal current	A	13
Main power supply	For Europe & similar	230V (1Ph+N+PE) 50/60Hz 16A TN-S



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