

# FCTS



with built-in H<sub>2</sub>O<sub>2</sub> vaporizer engineered and manufactured by Fedegari



## **FCTS**

### Innovation in a commodity market?

When creativity is in your blood you don't settle for physiologic innovation; but will explore new paths for revolutionary solutions. This was our goal when designing our first isolator.

## **Our priority**

to assure the highest **process reliability** 

## **Our expertise**

various contamination control processes

## A dream

We investigated various alternative solutions only to discover **repeatability** of performances – as is normally expected in thermal sterilization – was more than a dream.



## System reliability

Only experience – practical field experience – provides the highest degree of reliability because the single subsystems and solutions in general have already been tested under real operating conditions.

In Fedegari when we design a new machine our development procedure is unique in that we use several in-house engineered solutions and components which have already been field tested, thus reducing to a minimum the risks typically associated with un-tested new products.

## **Process control**

Unhappy with the performance and the reliability of third-party  $H_2O_2$  – vaporizers, we have installed the same solutions that we have standardized for our bio-decontamination machines that do not require any proprietary consumables.

This innovative design provides real time biocide concentration control (over traditional estimated calculations) and is managed by the very same Thema4 which is today's reference standard for all contamination control machines where process failure is not an option.

Through the H<sub>2</sub>O<sub>2</sub> sensors and other devices, Thema4 assures that vapor concentration remains extremely constant (within ± 15 ppm) thus making

## process repeatability

the logical consequence.



### **Sterility Test Isolator**

Designed to guarantee aseptic conditions, avoiding:



EN standards and directives

## FCTS EFEDEGARI

### What sets us apart?

Process control loop for reliable process performances

even with different load patterns.

**Thema4** Easy integration with all other Fedegari machines and SCADA systems



100% air-tightness Inflatable gaskets on all doors.

**Drastically reduced validation time** Fixed concentration profile increase reliability and repeatability.

**Ergonomic design** sloping glazed front door and wide rounded glove ports.



### What sets us apart?



Built-in H<sub>2</sub>O<sub>2</sub> vaporizer (FHPV) engineered and manufactured by Fedegari.

**Fixed concentration profile** with no impact of  $H_2O_2$  degradation on the process.

All components are isolated from the chamber.

#### Cost-effectiveness

Time and cost-savings on training and maintenance due to standardization of components, procedures and process controller.

Significantly reduced operating costs with non-proprietary consumables.





### What sets us apart?

Fedegari's unique experience with thermal sterilization processes.

#### **Transfer hatch**

The unit transfer hatch is equipped with a magnetic-driven fan in the ceiling. \_ This innovative design for homogenizing the H<sub>2</sub>O<sub>2</sub>- air mixture allows for a uniform distribution of the vapor while preventing any possible leak.

An UDAF that creates a piston effect, guaranteeing the correct biocide distribution.







## Flexibility & modularity









\*Ad hoc feasibility analysis.





## Thema4

### **Process controller**

Designed by Fedegari using over 50 years of specific process knowledge, Thema4 offers:

- Online concentration monitoring and control
- Pre-validated GAMP5 compliance, 21 CFR Part 11
- Open system architecture
- Advanced control, monitoring and reporting functions including parametric release options
- Complete integration with SCADA systems
- COTS hardware
- Pre-validation ensures minimal project risk and shortest time in qualification.



All Fedegari machines are controlled by with Thema4. FCTS glove and leak testing are totally managed by Thema4.







#### Fedegari: your solution provider.

Since the acquisition of Bio Com in 2009, Fedegari has progressively developed towards a "total solution provider" capable of integrating different machines and processes for high-performance and cost-effective solutions.



