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**Faster S.r.l.**  
Via Merendi, 22 20010 Cornaredo (MI) Italy  
Tel +39 02 93 991 92 Fax +39 02 93 991 608  
www.faster-air.com info@faster.dgroup.it

a D<sup>2</sup>GROUP company



Striving everyday to improve our environmental performance, Faster developed environmental procedures are founded on three guiding principles:

- Protect the Environment for present and future generations manufacturing low energy consumption equipments
- Reduce risks and improve efficiencies
- Introduce improved technology and processes

Faster/catalogo industria/2009/01 In this brochure all pictures and specifications are purely indicative and vary without notice

# INDUSTRIAL EQUIPMENTS



**Protection, safety, reliability.  
And more.**



LAMINAR FLOW CABINETS AND SYSTEMS

## Fan Filter Unit

laminar air flow modules



The Faster modules can be variously assembled together to build-up small to room size clean work areas.

The basic module is a self-contained unit including HEPA filter and fan for delivering class ISO 3 air quality, according to norm ISO EN 14644-1 and can be assembled according to the needs of the clean area configuration. The modules bolted together build a network structure to get a stiff assembling.

**Faster Unit for food industry** – primarily conceived for food and beverage industry covers the

demand to have a higher flow rate per hour without laminar flow in the working area.

**Faster Unit for pharma, standard version** – special modular unit dedicated to pharmaceutical and microelectronics industry, offers maximum level of safety by means of plenum in negative pressure and DC motorblower.

**Faster Unit for pharma, advance version** – fan filter unit delivering top level performances. A new special plenum design combined with an automatic motor-blower provide the lower power consumption and noise level actually offered in the market.

## Pass Box

material transfer hatch



The **Pass Box** works to transfer the material between areas with different cleanliness grade. The materials may cross the Pass Box in both directions by different handling operations through two interlocked doors. A double inlet centrifugal motorblower provides a vertical airflow in the pass-trough chamber with two interlocked doors.

The “contaminated” air coming from the chamber, is aspirated by the motor-blower from the two side duct walls and then re-circulated through an HEPA filter.

Part of the re-circulated air is exhausted in the not clean side (NCS) by means of an outlet located on the upper front wall, so the pressure inside the pass box is lower than the ones in the clean and dirty side. Sterilizing UV lamps may be fitted in the chamber to decontaminate the exposed material surfaces.

**Pass Box joined with VHP vaporizer** - Faster manufactures special pass box chambers

integrated with internal or external Hydrogen Peroxide vaporizer.

**Pass Box joined with Micronizing system** - Faster manufactures special pass box with internal Hydrogen Peroxide micronizing system delivering 3 log. Bacterial pull down.

## Powder Containment Unit

non-active powders handling



**Cross flow units** are the solution for powder containment during sampling, weighing and dosing operations. Primarily conceived for the pharmaceutical and chemical industry for a safe and hygienic manufacturing process, cross flow is suitable anytime during the manufacture process, powders are handled or might be spilt and a risk of dust contamination wants to be avoided.

Operator works under Class ISO 3 according to ISO EN 14644-1, conditions provided by the laminar down flow and an high grade of cleanliness is achieved at operator's breathing height. A physical barrier like pvc strip curtain or stainless steel walls, separate the booth from the external environment.

The **CrossFlow powder containing modules**, avoiding contamination for the operator, the products handled and the inner and external environment, deliver protection and safety during the whole process.

## Cytotoxic Glove Box

glove box for medium active powders

**Special glove box cabinets** delivering triple protection; to the operator by means of a physical barrier between the product and the operator, to the external environment through an HEPA filtered exhausted air and to the product since the air coming in the chamber is previously HEPA filtered (do not avoid cross contamination).

- **Bag in-bag out** filters replacement
- **Pass Box with interlocked doors**  
Available as option: UV sterilizing lamp and/or HEPA H14 filtered units
- **General Parameters**  
LAF: 0,45 m/sec.  
Pa: -100 inside working area

