

BBST SERIES

SHIELDED ISOLATORS FOR DISPENSING



- ✓ Modular design and flexible configuration
- ✓ Work chamber with air quality complying with Class A "At rest" (EEC-cGMP) and equipped with laminar flow over the entire area
- ✓ Product extraction system in shielded container by means of specific drawer
- ✓ Dose calibrator compartment equipped with pneumatic system to move the vial in the well
- ✓ Shielded chambers under constant negative pressure

The series of BBST shielded cells is a family of Class A isolators equipped with laminar flow on the entire main chamber. They can house automatic modules or fractioning systems in sterile conditions and in observance of cGMP regulations.

The BBST series is specifically designed for filling, calibrating and fractioning operations on vials/syringes. The equipment is ideal for small/medium productions of vials and, upon express request, for small productions of syringes.

The cell guarantees maximum protection for the operator against ionising radiation through complete shielding, the air seal between the chambers and the use of tele-pliers. These characteristics, along with the integrated tools such as the COMECER automatic dispensers, make it particularly suitable for radio-pharmaceutical dose preparation, in accordance with cGMP regulations.

Features and Benefits

- Possibility of installing material introduction chamber (airlock) with air quality complying with Class B "At rest" (EEC-cGMP) and equipped with handling gloves
- Possibility of installing waste compartment with air quality complying with Class B "At rest" (EEC-cGMP)
- Possibility of installing a product extraction system equipped with "Pass-through dose calibrator"
- Possibility of setting up connection and integration with COMECER automatic dispensers
- Shielded and hinged front doors
- Chambers tightness ensured by inflatable gasket system, placed on the perimeter of the openings
- Filtration system to generate laminar flow in the Class A chamber, made with ULPA U15 absolute filtering cartridge
- Filtration system for Class B chambers with HEPA H14 absolute filtering cartridge
- Air outlet filtration system made with active carbon filtering cartridge
- 7" touch-screen operator panel to check and trace the critical parameters of the machine both in "at rest" or "in operation" mode
- Tele-pliers on special ball bearings for high sensitivity and precision-movement handling
- Possibility of installing a Geiger-Muller probe to detect radioactivity inside the synthesis and dispensing cell and door interlock management
- Possibility of installing ventilation isolation valves and connection to hydrogen peroxide solution generators (AVC LIGHT) for the dispensing chamber and the material introduction chamber
- Possibility of installing automatic leak tests system on the dispensing chamber and material introduction chamber

Equipment lines

The machine is available in different equipment lines to fulfil the requirements of any production centre.

Models	BBST COMPACT	BBST-PC VIAL DISPENSER BASIC	BBST-PC VIAL DISPENSER WITH SOLID WASTE	BBST-PC VIAL AND SYRINGE DISPENSER	BBST-PC VIAL AND SYRINGE DISPENSER WITH SOLID WASTE	BBST-PC VIAL AND SYRINGE DISPENSER WITH PASS THROUGH DOSE CALIBRATOR AND SOLID WASTE
Main equipment						
Side pharmaceutical pre-chamber for materials introduction	-	S	S	S	S	S
Solid waste compartment	-	-	S	-	S	S
Dose calibrator	S	S	S	S	S	S
Pass through dose calibrator	-	-	-	-	-	S
Smart Geiger (internal environmental monitoring system)	0	0	0	0	0	0
Automatic Bubble Point Test	S	S	S	S	S	S
Drawing System						
Drawing System for vials	S	S	S	-	-	-
Drawing System for vials and syringes	-	-	-	S	S	-
Drawing System for vials and syringes with integrated pass through calibrator	-	-	-	-	-	S
Final product extraction position						
Front Drawing System drawer opening	S	S	S	S	S	S
Rear Drawing System drawer opening	0	0	0	0	0	0
Side Drawing System drawer opening	-	-	-	-	-	0
Dispenser set-up						
GET dispensing system set-up	0	0	0	0	0	0
TIMOTHEO LT dispensing system set-up	0	0	0	0	0	0
ARGO dispensing system set-up	0	0	0	0	0	0

S= Standard; 0= Option; R= Configurable when placing order

Technical data

Support frame material		Carbon steel treated with epoxy paints
External casing material		AISI 304 - Scotch-Brite™
Working chamber material		AISI 316L - Mirror-Bright
Lead purity	Title	Pb 98% + Sb 2%
Electrical panel protection rating	IP	54
Shielding (Pb)	mm	75
Shielded glass window dimensions	mm	200 x 200 (w x h)
Weight	kg	from 5700 to 8100
Working chamber internal dimensions	mm	594 x 587 x 662 (w x d x h)
Internal pre-chamber dimensions (if applicable)	mm	559 x 742 x 499 (w x d x h)
External dimensions with pre-chamber	mm	1680 x 1090 x 2400 (w x d x h)
External dimensions without pre-chamber	mm	1060 x 1090 x 2400 (w x d x h)

Ventilation and Filters

Dispensing chamber	Air classification: Class "A" with laminar flow (LAF) on the entire area Air inlet: F9 pre-filter and U15 absolute filter Air outlet: active carbon filter Air flow rate: 100 m³/h
Pre-chamber for materials introduction (if applicable)	Air classification: Class "B" Air inlet: H14 absolute filter Air outlet: H14 absolute filter Air flow rate: 20 m³/h
Drawing System for vials/syringes	Air classification: Class "B" Air inlet: H14 absolute filter Air outlet: active carbon filter Air flow rate: 10 m³/h
Solid Waste Compartment (if applicable)	Air classification: Class "B" Air inlet: H14 absolute filter Air outlet: active carbon filter Air flow rate: 10 m³/h

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