SWB15 - Safety Workbench

Eckert & Ziegler

Isotope Technologies Dresden

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Highlights

Efficient Workflow

- 24"-Wide-Screen inside the workbench for the software of the dose calibrator and additional applications of the customer
- Integrated storage drawer for fast access to all consumables

Best Value for Money

- Customizability Appearance (Customer Corporate Design)
- Use of up to two Tc-99m generators of different types
- Warranty 36 months (for options 12 months)

Generator Safe

Ergonmic Design

- Working surface divided into three parts ensuring easy removal for cleaning
- Tilted front panel with 7"-Touch-Screen

User-friendly Operation

- Control of generator safe inside the working area
- Safety interlocks for generator safe and waste storage using optical status detection of functional units (LED)

GMP Compliance

- GMP-compliant base product according current requirements
- Design of the working area ensures safe handling of radiopharmaceuticals

Shielded Waste Storage

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Technical Details

Basic Configuration	
External dimensions (W x D x H)	1826 x 965 x 2410 mm
Internal dimensions (W x D x H)	1500 x 490 x 600 mm (working area)
Working height	1050 mm
Material	Working area: Stainless steel AISI 316L
Air classification	Working area: class A (EG-GMP annex 1)
Laminar Flow	0.45 m/s (±20 %)
Laminar flow filter	HEPA14 according EN 1822
Exhaust air filter	HEPA14 according EN 1822
Lighting	>1000 Lux
Operating Panel	7“ touch-screen
Covering	Powder-coated steel sheets
Shielding side walls, rear wall (600 mm high) and bottom	10 or 50 mm lead
Lead glass window	10 or 50 mm lead equivalent
Waste Safe	Internal dimensions (W x D x H): 185 x 395 x 320 mm Shielding: 10 or 30 mm lead Capacity: up to two waste containers per waste store
Power supply	400 V/50 Hz (16 A)
Exhaust air flow	550 m^3/h
Total weight (SWB15-10Tc)	2590 kg
Options	
Dose calibrator	Integration underneath working surface with lead shielding (Manufacturer independent: MED, Capintec, MecMurphil)
Monitor	Integrated 24”-Wide-Screen monitor in rear wall
Particle probe	Integrated in rear wall of working area
Laminar flow velocity probe	Integrated in rear wall of working area
Connections inside workbench	USB-connections and sockets (splash-proof IP44)
Customer Corporate Design	Color (RAL) of covering according to customer request
Generator safe for Tc-99m or Ge/Ga generators	For up to two generators (GE, Rotop, IBA, Mallinckrodt, Gallia-Pharm), Shielding: 50 mm lead
	Annotation: Subject to change without notice

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Aspects of the new Product Design

Product and User Protection

The shielded safety workbench SWB15 was developed to ensure optimized product and radiation protection for the preparation of radiopharmaceuticals. The integrated laminar air flow unit generates clean room Class A conditions inside the working area. Additionally, an inward directed air flow guarantees that contaminated particles cannot leave the working area. The ventilation system is monitored and controlled permanently. The various operation modes will be adjusted automatically. The safety workbench is shielded with up to 50 mm lead. A moveable lead glass window which protects the user is installed at the front. Additionally, a lead shielded wall can be installed at the front. The appropriate inward air flow system and lead shielding protect the user all the time while working with radioactive substances.

Features & Equipment

The working area of the safety workbench consists of high-grade stainless steel. The working surface consists of three segments for easy removal to ensure proper cleaning. A dose calibrator can be integrated in the bottom of the working area. The software of the dose calibrator can be displayed on the monitor in the rear wall of the working area. Furthermore this monitor can be used for customer applications. Contaminated waste can be discharged safely through shielded openings in the bottom of the working area. Three LED segments indicate the operation modes of the ventilation system, the generator and the waste storage. An unshielded drawer is integrated in the covering of the safety workbench at the front underneath the working area. The drawer can be used for the storage of disposables such as gloves and syringes.

Configuration for Tc-99m

The configuration for Tc-99m (SWB15-10Tc) allows to store up to two Tc-99m generators of the same or different types. All commercially available types of Tc-99m generators are supported. The generator safe is positioned underneath the workbench and shielded with 50 mm lead. The generators are automatically lifted to the height of the working area by pushing control buttons inside the working area. There is no need for the user to take the hands out of the working area while eluting the generator.

Configuration for Ga-68

There is a special configuration available for the preparation of radiopharmaceuticals based on Ga-68. The working surface is coated with polyethylene to avoid corrosion of the high-grade stainless steel when using hydrochloric acid. Furthermore, a shielded generator safe for up to two Ge-68/Ga-68 generators is positioned underneath the workbench. Feed- throughs between generator safe and working area allow the installation of lines for the elution of the generators.

Isotope Technologies Dresden GmbH

Rossendorfer Ring 42
01328 Dresden
Germany

Tel.-Nr.: +49 351 266 34 0
Fax-Nr.: +49 351 266 34 10
itd-info@ezag.com
www.itd-dresden.de

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