



- Highest Radiation safety
- Highest GMP Performance
- Highest Fire protection
- Radio Pharmacy Management

Shielded Laminar Flow Cabinets

Designed to protect

'A safe work environment, is guaranteed'



Inside view

GENERAL PRODUCT DESCRIPTION

MNT Kwint Shielded Laminar flow Cabinets are designed, to protect your products and your employees from microbiological contamination and radiation, as well as the manual preparation of Nuclear Medicine and PET radiopharmaceuticals.

Using microprocessor controlled Laminar down flow and filtration with Class H14 HEPA filters, a safe work environment, is guaranteed.

The exhaust air is filtered through a H14 Class HEPA Filter to protect the environment, an active carbon filter and/or ULPA filtering is optional.

Easy to clean cabinet interior completely constructed out of stainless steel Fully automated controls for front window and Tc-generator safes. Integrated automated Gallium generator safes are optional and can be designed to meet the customer needs. Integration of waste and ionisation chambers to customer needs.

Lead glasses placed outside, in front of the cabinet to be 100% sure not to interfere with airflow and cleanliness requirements stated in ISO14644-1 and EN12469 and other international standards

Multiple sizes of lead glasses varying from 5mm Pb eq. up to 50mm Pb. Eq.. Can be fitted, always easy to move due to a high quality railing system.

The cabinets are available in three sizes (1300/1600/1900) lead shielding varying between 5mm and 50mm lead. External dimension depending on the thickness of the shielding.

CFDA





Max. up till 4 pce Tc-Generators

Main features

- The cabinet can house up to max. 4 Tc-generators which elevated independently by electro driven lifting systems, however we supply a standard storage space for 2 Tc-Generators
- 1 x storage for dose calibrator
- 1 x storage for needle waste bins
- 3 x power sockets
- 1 x loading port for USB
- 1 x USB and 1 x RS 45 extension
- 17" Display in back wall integrated
- LCD display in most languages
- Working area in AISI 304 stainless steel.
- Enough space to elute all manual activities under LAF conditions

Optional features

- Storing 4 Tc-generators in a 2 pce drawer system.
- Storing a Gallium Generator
- More than 1 dose calibrator (for example 2 separate working spaces)
- More than 1 needle waste container
- More than above power sockets and connections
- Connecting waste separation cabinet with 2 x 60 litre waste containers
- Connecting a pharmacy cabinet to have space to place all disposables, bar code equipment etc in
- In case of working with Gallium the stainless steel inside wall, must be changed to DIN 316.
- Complete radio pharmacy management system



Elution space per Tc-Generator



Stainless steel cover over every elution place

CONSTRUCTION FEATURES

Cabinet interior is constructed entirely of stainless steel. Easy-to-clean stainless steel work zone and is more durable than any other materials and will never rust, chip, or generate particles.

Industrial-grade main body constructed of steel: with an abrasion-resistant white powder-coated finish. Maintenance free direct drive centrifugal blower(s); energy efficient external rotor motor type design reduces operating costs; extremely low noise and vibration levels. Built-in warm white, lighting offers excellent illumination throughout the work zone in order to reduce operator fatigue and is comfortable to the eyes.

We are at this moment **the only producer** of all suppliers that works with a completely closed stainless steel lead drawer (a standard demand from all regulations and guidelines).

No direct radiation from a generator by opening the drawer.

TECHNICAL INFORMATION

Complete working area incl. storing of disposables, bar code etc. on one side and waste separation on the other side



SHIELDED CABINET	1300	1600	1900
International Certifications	The national regulations and guidelines, related to safety cabinets acc. DIN 12950 part 1- 10, EN 12469 (may 2000) resolution radiation protection 2005, Guidelines 97/43 Euratom regarding radiopharmaceutical proceedings and GMP standards. ICRP 2000 All related to the I.A.E.A. in Vienna		
External Dimensions WxDxH 5-10mm Pb	1364 x 789 x 2237 mm	1664 x 789 x 2237 mm	1964 x 789 x 2237 mm
30-50mm Pb	1450x 789 x 2237 mm	1745 x 789 x 2237 mm	2045 x 789 x 2237 mm
Internal Dimensions WxDxH	1220 x 626 x 749 mm	1520 x 626 x 749 mm	1820 x 626 x 749 mm
Mat. Cabinet	Powder coated / Stainless steel AISI 304 On request other possibilities		
Air Flow Class II	70% recirculating - 30% exhaust		
Window operation height	200/250 mm		
Ave. Inflow Velocity	0,51 m/s		
Downflow rate	0,29 m/s	(adjustable 0,25-0,55)	
Exhaus Air Volume with external ducting	16-20m ³ / min	20-25m ³ / min	24-30m ³ / min
Main - Exhaust Filter HEPA	Efficiency is 99.999 % against 0.3 µm particle H-14 size 99.995 % in MPPS		
Light Intensity	≥ 1.000 lux		
UV Light	254 NM		
Noise Level	≤ 60 DBA	≤ 61 DBA	≤ 61 DBA
Window Glass	6mm safety glass		
Lead Glass	5mm Pb 140 keV - 30mm Pb 511 keV (size 500mm x 300mm x 11-112mm = HxWxTh)		
Electrical outlets	3 x socket / 1 x USB loading / 1 x RS45 / 1 x USB (European CE) backwall inside cabinet. On request more inside steel frame, if needed.		
Power	220-240V - 50/60 Hz		
Approx weight in Kg	5-10mm Pb 1400	1650	1800
30-50mm Pb		3740 - 4500	
Optional Accessories	<ul style="list-style-type: none"> • Medical valves (Air, gas, vacuum) • Waste separation system connected to Cabinet • Pharmacy cabinet for all PC Items incl. Barcode, printing etc. 		



We are also able to built special cabinets for you like a Gallium-68

We are also able to built special cabinets for you like a Gallium-68.

Or special drawer systems up to 50mm lead shielding or more...



PRODUCER:

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