



'A safe work environment, 'A safe work environment, environment, 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



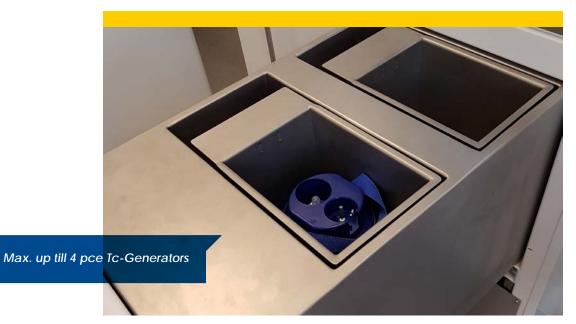






Multiple sizes of lead glasses varying from 5mm Pb eq. up to 50mm Pb. Eq.. Can be fitted, always easy to move due to a high quality railing system.

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.



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



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

Air Flow Class II

Downflow rate

Light Intensity

UV Light

Noise Level

Lead Glass

Power

Window Glass

Electrical outlets

Approx weight in Kg

Window operation height Ave. Inflow Velocity

Main - Exhaust Filter HEPA

Exhaus Air Volume with external ducting

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

Internal Dimensions WxDxH 1220 x 626 x 749 mm 1520 x 626 x 749 mm 1820 x 626 x 749 mm

70% recirculating - 30% exhaust

200/250 mm 0.51 m/s

0,29 m/s (adjustable 0,25-0,55)

16-20m³ / min 20-25m³ / min 24-30m³ / min

Efficiency is 99.999 % against 0.3 µm particle H-14 size 99.995 % in MPPS

≥ 1.000 lux 254 NM

≤ 60 DBA ≤ 61 DBA

6mm safety glass

5mm Pb 140 keV - 30mm Pb 511 keV (size 500mm x 300mm x 11-112mm = HxWxTh)

 $3\,\mathrm{x}$ socket / $1\,\mathrm{x}$ USB loading / $1\,\mathrm{x}$ RS45 / $1\,\mathrm{x}$ USB (European CE) backwall inside cabinet.

≤ 61 DBA

On request more inside steel frame, if needed.

220-240V - 50/60 Hz

1400 1650 1800

3740 - 4500

Optional Accessories • Medical valves (Air, gas, vacuum)

5-10mm Pb

30-50mm Pb

• 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.

ets for you like i Orspecial drawer systems up to 50mm lead shielding or more...



PRODUCER:

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