

MCRT – Safety Cabinet

LAMINAR FLOW UNIT MADE OF STAINLESS STEEL FOR PRODUCT SAFETY





Functions and Configurations

- Unidirectional flow: Vertical (Laminar Flow)
- Air flow velocity: 0.25-0.45 m/s, ± 20 %
- Protection Typ: Operator, Sample and Environment
- Cleanroom classes: class 5(4) according to ISO 14644, 100(10) according to U.S.F.S. 209E
- Main filter: HEPA H14 based on EN 1822, efficiency 99,995%
- Pre-filter: class G4 till F9 according EN 779
- Control: microprocessor controlled parameters from the control panel
- Automatic monitoring of the filter and the cabinet optical alarm
- Construction: steel powder coated
- Work plate: perforated, polished stainless steel
- Working space: stainless steel AISI 304 (DIN 1.4301)
- Electrical lifting of the front protecting glass
- Illumination: FLOU >500 Lux-a
- Low noise level
- Fulfils the international GMP guidelines

Optional:

ATEX design

UV-light for sterilisation of the working space Protection of the working space with UV-stabile PVC plates

Electrical socked in the work space Connections for media (gas, air vacuum, water) Differential pressure gauge monitor for HEPA filter

Work hours counter

UV light work hours counter

Base stand (height: sitting-680 mm; standing-830 mm)

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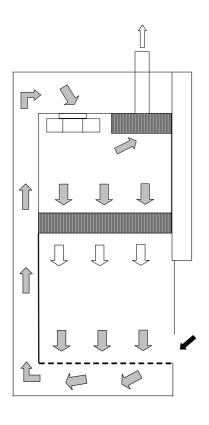


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TECHNISCHE DATEN

Тур	KTB NS I	KTB NS II	KTB NS III	KTB NS IV
Outer dimensions (mm)	1250x840x1510	1520x840x1510	1825x840x1510	2130x840x1510
Work space (mm)	885x610x620	1190x610x620	1495x610x620	1800x610x620
Max. connected power(W)	1700	1700	1750	1750
Max. conn. power on socket (W)	550	550	550	550
Voltage/frequency (V/ Hz)	230/50	230/50	230/50	230/50
Weight (kg)	230	260	280	310

SCHEME CABINET



Operation principle

The MCRT Safety-cabinet circulates 70% of the contaminated air through one of the HEPA filters and exhaust remaining 30% of air flow through other HEPA filter.

Incoming air laminar flows into the workspace with 0.45 m/s air velocity, providing absolutely clear work zone. CCA 30% of air exhaust out through outgoing HEPA filter, through remaining 70% to circulate.

This air flow performance makes the system suitable for Biosafety level 1, 2, and 3.