



## Cytotoxic Isolator - Negative pressure



CMRI-2H1S with PackSit®

- Safe production / processing of toxic substances such as cytokines and antiviral drugs, capsules, hazardous materials according to Technical Rule 525
- Ergonomically designed for easy operation, comfortable working and high user acceptance
- Display of internal pressure, automatic pressure drop test and pressure drop indicator
- Secure, logical separation of operator and process through a closed system
- Hatch doors outside / Isolator door, toughened safety glass
- Password control with Touch Panel
- Construction entirely made of stainless steel AISI 304 (1.4301)
- High air exchange rate in the work area and for the rapid cleanup of contaminated air and rapid removal of disinfectants
- 1 - 2 hatches with foot switches for doors and mutual door locks
- Cleanliness level in the work area: vol. 4 EU Guidelines to GMP Grade A
- Negative pressure operation (adjustable)
- Certified and documented quality (IQ / OQ)
- Easy control, examination and maintenance
- Sterile glove changing system



Type Designation	CMRI-2H2S	CMRI-2H2S-L	CMRI-4H2S
Outer dimensions (mm) wxhxd, approx.	2469 x 2384 x 903	2774 x 2384 x 903	3079 x 2384 x 903
Outer dimensions isolator (mm) wxhxd, approx.	1462 x 2384 x 903	1767 x 2384 x 903	2072 x 2384 x 903
Inner dimensions isolator (mm) wxhxd, approx.	1191 x 775 x 648	1496 x 775 x 648	1801 x 775 x 648
Outer dimensions hatch (mm) wxhxd, approx.	588 x 550 x 710		
Inner dimensions hatch (mm) wxhxd, approx.	425 x 442 x 534 (without table)		
Outer / inner hatch door dimensions (mm) wxh, approx.	525x545 / 300x350		
Isolator volume (l), approx.	600	780	900
Packing data (mm) WxHxD, approx.	2520 x 2000 x 920	2830 x 2000 x 920	3140 x 2000 x 920
Weight (kg), approx.	430	490	550
Number of sleeves (polyurethane 0.25 mm), diameter	2 / 300	2 (3) / 300	4 / 300
Glove cuff inner diameter (mm)	75		
Height / distance of the sleeve openings (mm) approx.	865 / 450		
Legroom (mm)	350		
Electric Connection (V / Hz)	230 / 50		
Electric Power (W) max.	3000		
Airflow (Circulation / Exhaust)	70% / 30%		
HEPA filters (hatches, main filter, circulating air, exhaust): Filter class acc. DIN EN 1822 / Efficiencies. (%) / Particle size (µm)	H14 / 99.995 / 0.3		
Upper hatches filter: Number / Size (mm) WxHxD	2 / 305 x 110 x 305		
Lower hatches filter: Number / Size (mm) WxHxD	2 / 305 x 66 x 305		
Hatches pre-filter (1 per hatch): Filter class	G4		
Main filter: Quantity / Size (mm) WxHxD	2 / 500 x 290 x 245	3 / 410 x 290 x 245	3 / 500 x 290 x 245
Circulating air filter: Quantity / Size (mm) WxHxD	1 / 1220 x 90 x 610	1 / 1525 x 90 x 610	1 / 1830 x 90 x 610
Exhaust air filter: Quantity / Size (mm) WxHxD	1 / 610 x 69 x 457	1 / 610 x 69 x 457	1 / 610 x 69 x 457
Gas-tight exhaust air flap, electrically operated	■	■	■
Air exchange rate utility room / hatches (h <sup>-1</sup> )	2300 / 2000		
Exhaust air volume (m <sup>3</sup> /h) approx.	360		
Laminar flow rate (m/s) / Leakage flow rate (m/s) approx.	0.45 / 0.7		
Intensity of illumination (switchable) Working surface (lx)	>800		
Noise level (dB(A))	≤65		
Inner swivelling hatch doors, safety glass	■	■	■
Inner hatch doors double swivel, PETG	□	□	□
Manually operated sliding tables	■	■	■
Inner hatch doors as sliding windows with sliding tables, electrically driven	□	□	□
CPC couplings for DEHS tests	■	■	■
2-fold – IP65 outlets in the camber	■	■	■
1 connection for data processing (USB, RS232, RJ45)	□	□	□
Screen capture with glass lid for 19" monitor	■	■	■
Isokinetic probe in the chamber, for particle monitoring (particle counter not included)	□	□	□
Sterilisation gas pipes 1" ducts and valves for H2O2 gassing	□	□	□
Microbiological safety cabinet flanged to isolator hatch	□	□	□
Bar welding system Packsit®	□	□	□

---- further options on request ----

(■ = Standard; □ = Option)

June/13 Technical alterations reserved.