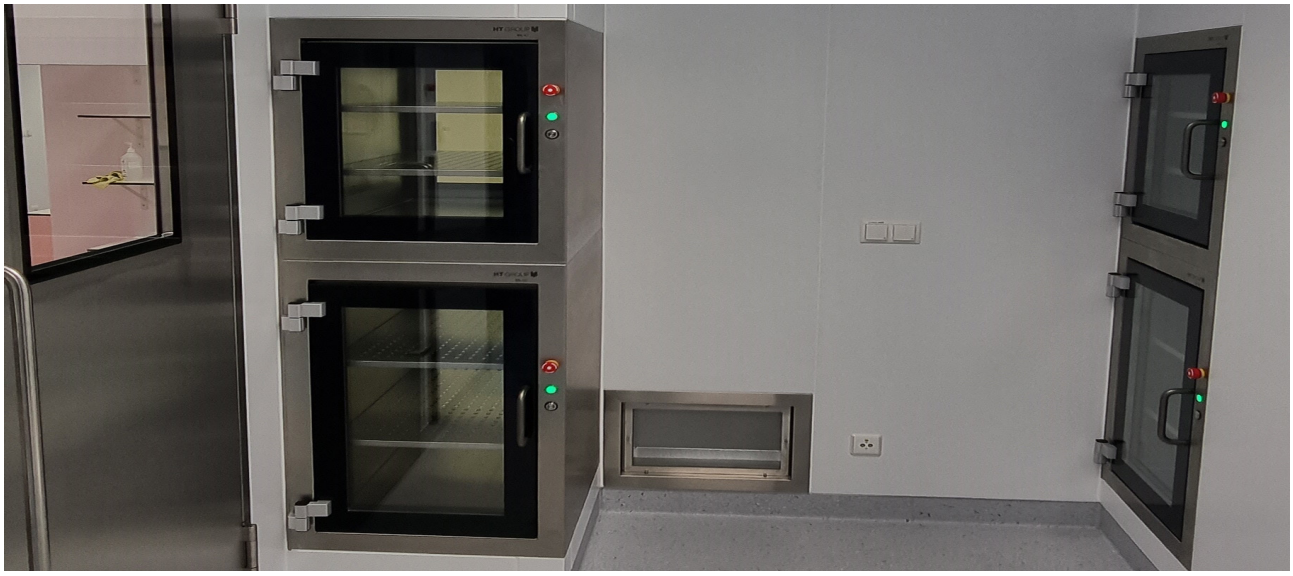
Passive two-chamber material sluice



The passive two-chamber material sluice is specially designed for use in pharmaceutical production and clean rooms of clean room class ISO 8, as well as up to GMP class C. The risk of contamination can be reduced by separate routes of the material to be transferred in and out. Due to the clear separation, infeed and outfeed processes can take place in parallel. For example, material can be temporarily stored in the chamber for infeed operations while the chamber to be discharged is used. The material sluices are not connected to any ventilatio system. The material sluice consists of a double-wall construction and flush-mounted safety glass door elements on both sides. In addition, the doors are sealed with a circumferential silicone seal. In addition, the door hinges can be adjusted three-dimensionally. The inner chamber and the body are made of ground stainless steel. All corners and edges are welded and ground. The material sluice can be installed in a cleanroom wall or mounted on a height-adjustable base frame. All surfaces inside and outside the material sluice are resistant to conventional cleaning agents and disinfectants and are suitable for daily cleaning.

Dimensions

	Chamber 1	Chamber 2
Inner chamber	621 x 624 x 610 mm (w x h x d)	621 x 624 x 610 mm (w x h x d)
Outer sluice dimension	830 x 1660 x 670 mm (w x h x d)	

Connections

2x electrical connection 230 V (the sluice must be connected to a circuit breaker/fuse on site in order to be able to carry out service work on the sluice; connection on site with cable cross-section 3 x 1.5 mm²)
M6 connection for potential equalization (connection on site with cable cross-section 1 x 6 mm² Cu)

Electrical sluice functions

Mutual interlocking of the doors so that the doors can never be opened simultaneously
A sluice time defined on request between 1 second and 99 minutes can be permanently stored in the factory for the respective door (the default setting is 10 seconds)
Status of the doors can be recognized on each side by optical red/green indicator light
Optical warning by yellow indicator light in case of too long door opening times (adjustable)

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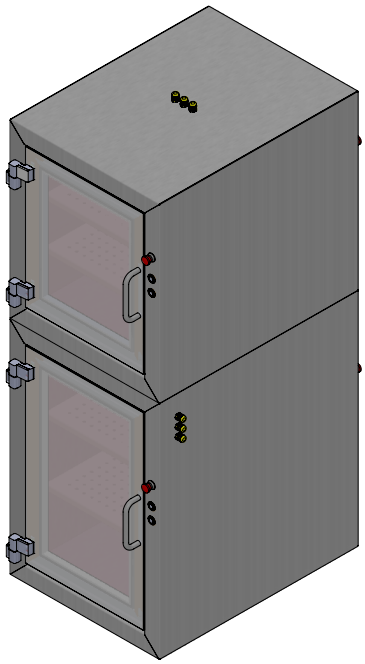
Special fittings (optional)	
Connection to buildig management system	network connection with RJ45 plug | signal exchange with other control units or PC systems
Connection to measurment, control and regulation technology	potential-free contact for door signal transmission (when both doors of a chamber are closed)
Lighting	LED lighting in the inner chamber, 4x light with 345 lm each, 5000 K and 3.4 W
Audible alarm	90dB with additional visual warning signal (activated in the event of an emergency stop or excessive door opening times)
Compartments	perforated insertion compartments with hygiene-optimized compartment holders on the sides
Radiation protection	up to 5 mm Pb possible (technical details on request)
UV-C light	wavelength 100-280 nm (technical details on request)
RFID	connection for RFID reader for door opening/door release
Door undercut/ overflow opening	to achieve airflow overflow into the adjacent rooms and air exchange within the sluice chamber



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