www.ortner-group.at

LockLine

Transfer Hatch **Comfort S6**

The new transfer hatch Comfort S6 has been designed as an independent unit with its own ventilation system and does not require any ventilation infrastructure (no external supply air or exhaust air required). The planning and the installation is also much easier compared to conventional systems. The new transfer hatch was developed according to hygienic design specifications and, in addition to easy-to-clean surfaces and concealed technical fixtures, also offers a sealed wall connection to various wall systems, with almost no silicone. Further special features are the HEPA filter systems specially developed for transfer hatches as well as the standard chamber pressure control for cascade regulation. The particle- and germ-free air inlet and the exhaust air suction via a terminal HEPA filters ensure optimal air flow within the chamber. If a connection to the on-site ventilation system is desired or necessary, this can be carried out at any time.

The Ortner Plus

- Automatic door opening
- Autonomous ventilation: no connection to a ventilation system needed
- Automatic chamber pressure control for cascade control
- New operating concept with optional voice control
- Intuitive interface for setting the system parameters via WLAN
- Intelligent control system using microcontroller
- Innovative HEPA Easy Change Filter system, easy maintenance
- Terminal supply air and exhaust air HEPA filter
- High chamber seal tightness due to special door seal
- Hygienic design
- LED chamber illumination and optical status signaling
- Simple assembly

AREAS OF APPLICATION:
Pharmaceutical and life-science production, chemical areas, BSL laboratories, cleanrooms of all kinds and cleanroom classes.

ortner
cleanrooms unlimited

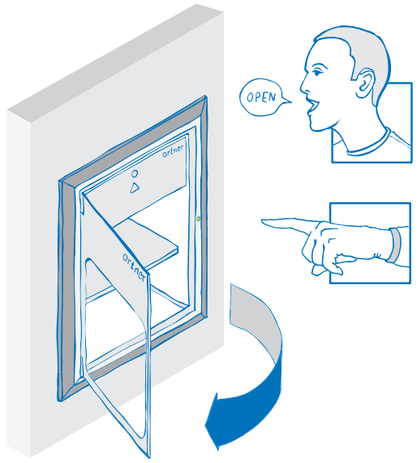
What makes the difference?

Even though conventional transfer hatches are not high-level technical equipment, the integration is nevertheless quite demanding: starting with planning, installation, connection to the infrastructure up to qualification and operation. Ortner has developed a new product line of transfer hatches with many technical innovations, which offer significant advantages for all influencing factors.

Operating concept – more convenience and safety

Doors without handles - the lock doors open:

- **Fully automatic: one-finger-operation** (the person can now open the door with one finger)
- **Contactless via voice control** (optional)



Settings via WLAN
(via mobile phone, tablet or PC)

Parameter settings

- Chamber pressure control
- Flushing time (variable for lock release)
- Door control (opening angle/opening and closing speed)

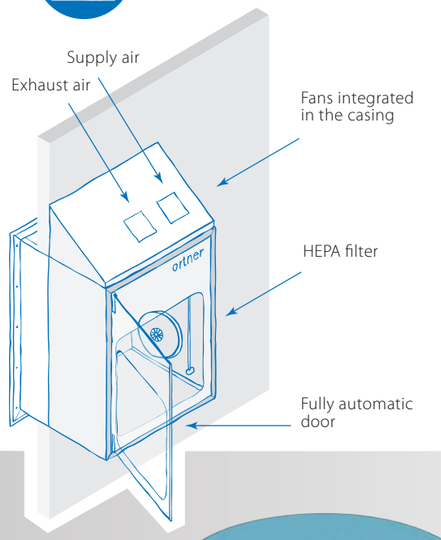
Programs and processes

- Lock operation (24/7 permanent lock readiness)
- Lock operation ECO (operation in power save mode)
- Shift calendar programmable

Service and maintenance

- Service program for supply and exhaust filters
- Lock monitoring - data logger (number of lock processes, operating hours, etc.)

Engineering



Ventilation concept

- Integrated variable speed supply and exhaust air fans
- Chamber pressure control (reference pressure can be connected)
- Differential pressure sensors for monitoring the supply and exhaust air filters

Easy change filter system

- Low contamination filter change
- Rotary motion with locking function enables easy installation and removal of filters
- Integrated connection possibility for raw air or clean air measurement

Signaling

- Capacitive door open sensors (incl. LED signaling)
- Operation mode: LED light bar in the lock chamber

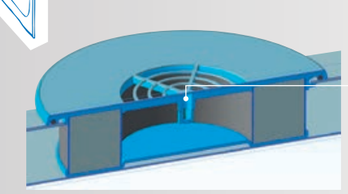
EMCR control

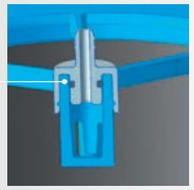
- Functional process is monitored and controlled via an industrial microcontroller

Automation

- Fully automatic lock doors

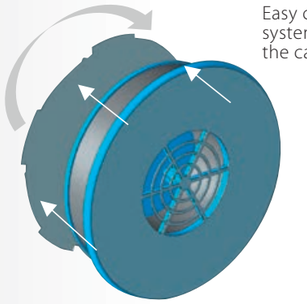
Exhaust air filter





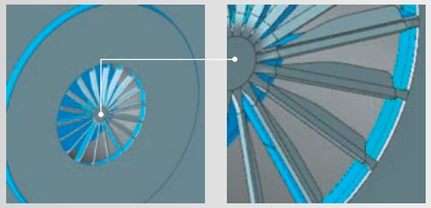
Integrated measuring socket for DEHS filter integration measurement

Easy Change filtersystem



Easy change filter system through the cartridge filter

Supply air filter



Supply air filter with blades for turbulent flow

Hygienic design

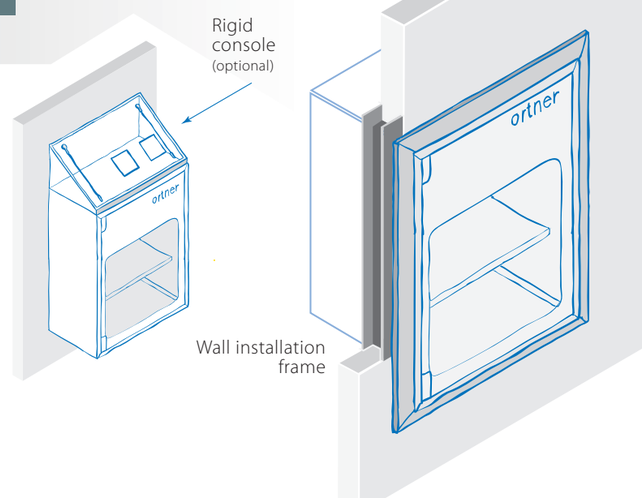
Radii instead of corners (inner part, profile, door)

Smooth surfaces - no handle and operating elements are flush with surface

Lock chamber almost without silicone, inner chamber made of stainless steel

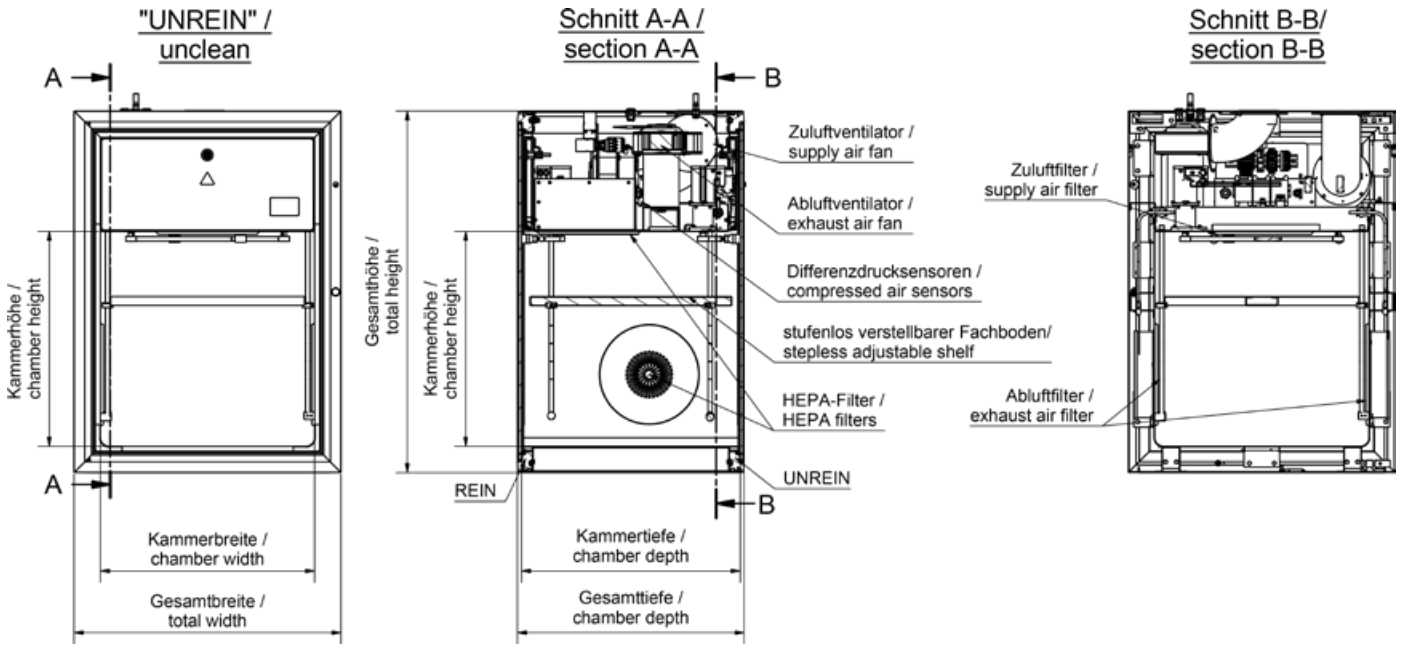
Assembly

- System solution provides a leak-tight wall connection between the lock and the various wall systems (dry construction, reinforced concrete, various cleanroom wall systems)
- Mounting frame for a secure and fixed connection to a dry wall construction
- Installation possible in the positions: flush with the wall, in the middle, offset



Transfer Hatch **Comfort S6**

The **transfer hatch Comfort S6** is a practical and effective solution for fast and safe transfer between rooms of different cleanroom classes as well as controlled in and out transfer of different materials and products in cleanrooms or in hygienically critical environments.



Models Dimensions in mm

Models	Casing overall dimensions (in mm)			Inner chamber dimensions (in mm)		
	Width	Height	~ Depth	Width	Height	Depth
SG-1	645	910	630 / 730 / 830	500	500	600 / 700 / 800
SG-2	745	1010	630 / 730 / 830	600	600	600 / 700 / 800
SG-3	745	1210	630 / 730 / 830	600	800	600 / 700 / 800
SG-4	945	1210	630 / 730 / 830	800	800	600 / 700 / 800
SG-5	945	1410	630 / 730 / 830	800	1000	600 / 700 / 800

Options

- Voice control
- Emergency power supply
- Rigid console
- Wall installation frame
- Remote control tablet 10 inch
- Shelf
- Corner design
- Custom dimensions

The opposite door hinges of the transfer hatch Comfort S6 can be freely selected by the customer in two versions – DIN left and DIN right.

On request, the transfer hatch Comfort S6 can be connected to an exhaust air system provided by the customer. In order to ensure pressure stability in the transfer hatch, a draft diverter must be installed in the exhaust air pipe outside the hatch.

Technical specification

Casing	S235JR electrolytic and powder coated RAL 9010 matt
Inner chamber	stainless steel 1.4301 surface brushed
Door frame	aluminum EN AW-606-T66
Door	single-layer safety glass 8 mm
Hinges	stainless steel
Door seal	lip seal
Door opening angle	max. 120°
Air volume chamber flushing	max. 100 m^3/h
Maximum sound level	< 65 dB (A)
Filter technology	H14 easy change
Differential pressure monitoring HEPA filter	differential pressure sensors
Recovery time (ISO 14644-3)	< 120 s
Differential pressure control	-100 Pa up to +100 Pa
Power supply	110 VAC/60 Hz
Control	industrial microcontroller
Signaling	RGB - light bar lock chamber, touch sensors door: white/green
Communication	WLAN interface, potential-free contacts (alarm summary)

ortner
cleanrooms unlimited
www.ortner-group.at