

PASS BOX



LAMSYS

APPLICATION

The pass box is designed for transferring materials between rooms of different cleanliness class* maintaining the air cleanliness class and pressure parameters there as well as preventing any direct contact of the air of the rooms and eliminating any risk of cross-contamination.

* As per ISO 14644-1 Cleanrooms and associated controlled environments. Part 1. Classification of air cleanliness.

INSTALLATION

Pass box may be integrated into the partition made of almost any material.

When installing the pass box without the frame stand into the load-bearing walls (made of bricks, concrete, etc.), the wall thickness should not be more than 500 mm.

When installing the pass box into the light and thin walls (such as drywall or walls made of metal) the wall thickness should not be more than 380 mm. In that case frame stand should not be removed to ensure steadiness of the pass box during the entire period of operation.

Installation place of the pass box should be equipped with power supply.



LEAK-TIGHT OUTER CASING made of powder-coated stainless steel AISI 304

WORK CHAMBER is made of stainless steel AISI 304

FACE FRAMES made of metal ensure reliable and aesthetic sealing of the junction with the room wall

FRAME STAND with screw supports simplifies the installation allowing height adjustment

Face DUST GUARDS for covering the screw supports

TOUCH SCREEN CONTROL PANELS are located on both sides of the pass box and carry out pass box control

TWO BUILT-IN OUTLETS for leak-tightness testing of the casing and the work chamber

DOORS featured with electromechanical interlocks and windows made of laminated safety glass



Two UV-lamps protected from mechanical damage are designed for disinfection of transferred materials



Removable perforated stainless steel shelf allows for disinfection of the bottom of containers with a UV-irradiation

It is possible to manufacture pass-box equipped with socket inside of the work chamber

CONVENIENCE AT EXPLOITATION:

“Call-out” function calls for an operator from the opposite side using the sound signal, which is important when the pass box is installed between the rooms isolated from each other.

UV unit's operating parameters can be set independently for each side of the pass box allowing the materials to be disinfected different amounts of time when transferred from the hazardous zone to the clean one and vice versa.

Adjustable parameters of UV disinfection:

- time interval from 1 min to 4 hours;
- automatic enabling when materials are transferred.

Audible-visible alarm automatically warns the user:

- when the UV-irradiation cycle is completed and the materials and items may be removed (at the receiving side);
- when the person is called from the other side.

“Cleaning” mode is designed for sanitary disinfection of the work chamber of the pass-box without enabling of the audible and visible alarm.

The touchscreen control panel allows work in gloves and wet disinfection.



SECURITY:

In case of power failure, doors of the pass box are staying locked.

Automatic activation of audible and visible alarm if the pass box door is open for more than one minute.

Pass box doors are automatically blocked during UV-irradiation.

Protection from the simultaneous opening of the pass box doors is executed by automatic locking of the door on the side of passing/receiving person when the door is opened on the opposite side by receiving/passing person.

TECHNICAL AND EXPLOITATIONAL CHARACTERISTICS

Dimensions of the pass box /WxDxH/, mm.....	725x573x986
Stand height, mm.....	554
Adjustable support height, mm.....	100-132
Dimensions of the pass box work chamber (without the shelf) /WxDxH/, mm.....	555x565x655
Dimensions of the work opening of the pass box /WxH/, mm.....	500x600
Parameters of the UV-irradiation in the pass box:	
– maximum time of the UV-irradiation in the work chamber, hrs.....	4
– minimum time of the UV-irradiation in the work chamber, min.....	1
– number of UV-lamps, pcs.....	2
– power of the UV-lamp, W.....	8
– UV-lamp service life, h.....	8000
Parameters of the pass box power consumption:	
– type of the power network.....	(L+N+PE)
– frequency, Hz.....	50
– nominal voltage, V.....	220±10%
Maximum input power, W.....	40/1040*
Mass of the pass box, kg, not more than.....	100

* If there is a built-in socket in the pass box chamber (power up to 1000 W)



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 its right to change technical
 specification and configuration
 of the equipment in
 the course of its further
 development