



AIR SHOWER



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LD-10x10/KO Air Shower Cabin

Air shower cabin is an enclosure where air flowed by the fan, streams through the pre-filter and trough the topside fine filter horizontally with great airflow velocity toward a person who stands inside the air shower unit, which provides that contaminants are removed continually by clean air stream.

Pre-filter on the suction side is placed at the outer upper front plate. The working area is overpressurized, air is discharged through the nozzles.



Dimensions (B x T x H):	1000 x 1550 x 2350 mm
Size of work stationery:	940 x 940 x 2000 mm
Work room cleanliness:	belongs to Class 7 according to EN ISO 14644
Operating voltage:	3-400V /50Hz
Power consumption:	~2,5 kW
Lighting:	1x36W fluorescent lamp –
Type of working area:	overpressurized

Integrated suction side filter:

Type: **F7** Panel 490x592x48 - 1 piece
Filtration efficiency: 97%

Integrated discharge side fine filter

Type: **H13** Hepa 762x762x70 - 1 piece
Filtration efficiency: 99,95%
Dust separation (DIN24184)

Air cabin is made of the following assembled units:

- Cabin frame and side walls (with door)
- Blower housing with suction side pre-filters
- Supply unit with HEPA-filter
- Control cabinet



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Cabin frame and side walls

The frame is made from hollow section and side walls are made from KO33 mirror polished stainless steel plate. The surface of the wall are flat, so they can be cleaned easily. Two opposite sides of the air shower unit are closed with concise design single-leaf doors, which are made from stainless steel as well. They can be opened by using the handle, but an automatic slide rail door closer makes opening and closing of the door easier. Doors open alternately, a tastatur next to them gives information about their position and about the operating mode of the device as well.

There are column diffusers with special nozzles at the four corner of the device and air is injected through them.

Blower housing

Suction side pre-filters can be replaced if we remove the outer front panel of the blower housing and pre-filters are covered with perforated stainless steel plate.

The blower housing is made from stainless steel plate, where a radial fan is placed on vibration damping rubber springs and the fan's revolution per minute is constant and it changes only a little bit when filters are dirty.

Fan maintenance can be performed if outer front plates are removed.

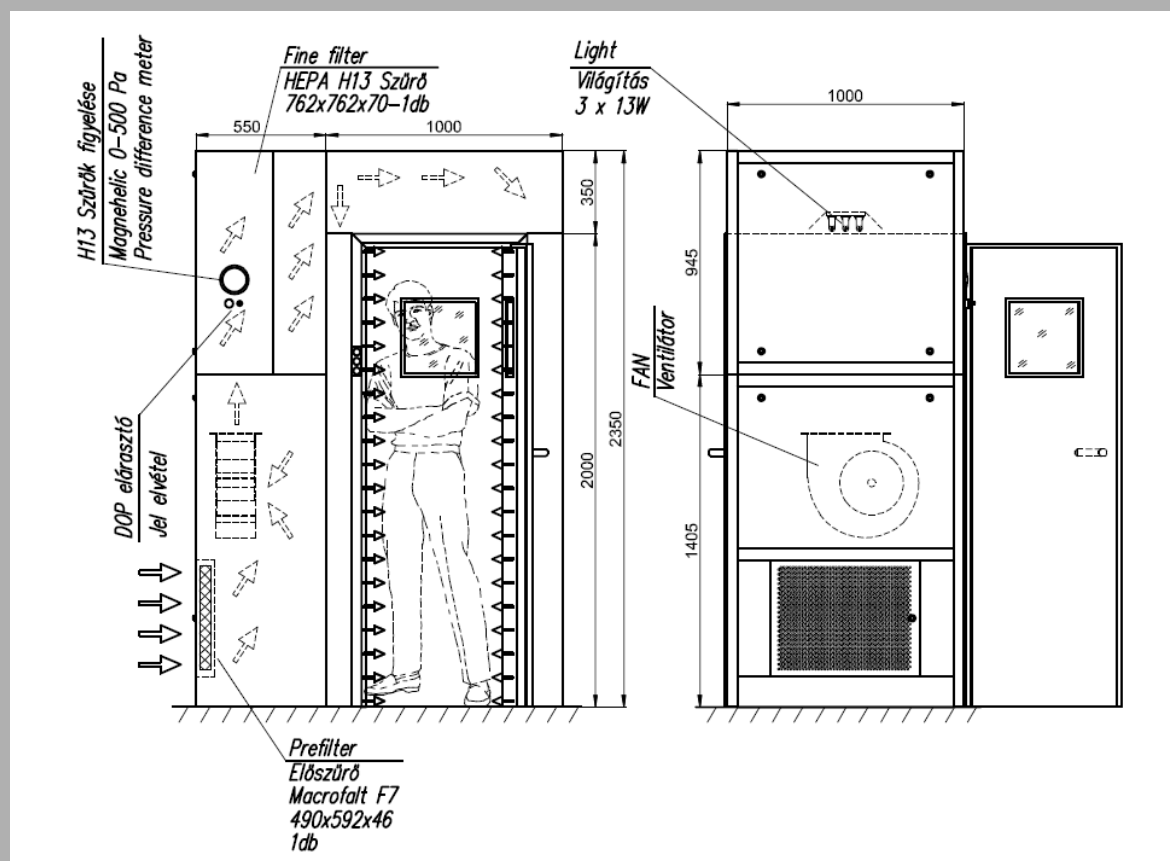
Supply unit with HEPA filter

Supply unit is made from KO33 stainless steel plate, a HEPA-filter of high filtration efficiency is integrated in it. An air distribution box is a part of the supply unit and it can be found at the top of the cabin. Filter(s) can be reached from outside and they are fixed to the filter casing with tensioner springs and sealings. The integrated filter is equipped with metal frame so as to be protected mechanically.

A MAGNEHELIC differential pressure measurement - which can be found on the front plate of the device - provides information about the condition of the fine filters. Filter damages are reported only in an analog way. There is a cleanable fluorescent lighting units at the ceiling of the supply unit.

Control Cabinet

A standard control cabinet - which involves switches, fuses and displays - can be installed inside of the unit or based on customer request it can be placed in the room where the air shower cabin is found.



References

LEGO Manufacturing Kft. Nyíregyháza
DIEHL Aircabin Hungary Kft. Nyírbátor
MERCEDES BENZ Manufacturing Kft. Kecskemét
GE Hungary Nyrt. Budapest
SOUTH BUDA BUSINESS PARK Irodaház, Budapest
KIKA Áruház Debrecen és Kassa
GETRAG FORD Kechnec
SCHELLING Kechnec
FLEXTRONICS Nyíregyháza, Sárvár, Brno, Zalaegerszeg, Zalaölvő
ROBERT BOSCH Elektronika Kft Hatvan
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