



PASS BOX STAINLESS STEEL SEMI-ACTIVE

Technical sheet

Enabling innovation
through clean environments

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INTRODUCTION CLEANROOM & LABS PRODUCTS.

Flexibility as the new standard

At Group Jansen, we believe a cleanroom should do more than simply meet a standard. It must of course be of the highest quality, but it should also be able to grow alongside your ambitions.

Our modular cleanrooms and lab products are designed with that vision in mind, drawing on the expertise gained from our own cleanroom projects and the experience of customers who are constantly evolving. A cleanroom built with modular, top-quality products is flexible, more sustainable, faster to realise and more cost-effective to maintain. In addition, shutdown times can be significantly reduced, as technical adjustments can often be made from the outside.

We manufacture in Belgium and deliver worldwide, ensuring the same high standard wherever you are. Our solutions are built to scale with your ambitions, your science, your production and your future.

From pharma to healthcare, from research centres to high-tech manufacturing, we translate complex requirements into clean, certified and future-ready environments. One partner. One standard. Everywhere.

Welcome to a new way of thinking about cleanroom engineering.



J'CLEAN PASS BOX.

The Standard for safe material transfer.

The J'Clean semi-active stainless steel pass box is a durable and reliable solution for controlled transfer operations in critical environments. Thanks to the **Sublimotion® finish**, the stainless steel housing offers excellent resistance to corrosion and chemical agents while maintaining a hygienic and aesthetically pleasing design.

This version is designed as a **semi-active** model in which both supply air and exhaust air are provided through external duct connections. The integrated HEPA H14 filter ensures filtered air, while the HVAC system manages airflow volume, pressure cascade, and airflow direction. With a minimum internal size of 600 × 520 × 650 mm, the pass box complies with stringent requirements up to ISO Class 5. Equipped with a HEPA H14 filter (≥ 99.995%), airtight sealing, and the J'Clean interlock system, it delivers optimal performance and safety.

The electromagnets are equipped with magnetic contacts for door-position monitoring. In the event of a power failure, integrated holding magnets ensure that the doors remain closed. The glass doors, consisting of double-tempered 4 mm glass mounted in a robust stainless steel frame, provide additional ease of use.

Why Choose the J'Clean Pass Box:

- ✓ Fully welded tunnel construction; no sealant joints and no risk of cross-contamination
- ✓ Semi-active design with airflow fully controlled through the HVAC system
- ✓ Sublimotion® stainless steel 316L for superior corrosion resistance
- ✓ Adjustable hinges for precise realignment after every intervention
- ✓ Permanently accessible interlock control board for fast servicing
- ✓ Building Management System (BMS) connectivity and audit trail included as standard
- ✓ 13 standard size configurations plus custom solutions upon request

J'CLEAN PASS BOX.

Benefits

Adjustable hinges

J'Clean Interlock System, Connectable to BMS

Electromagnetic locking system with: LED status indication, door contacts holding magnets that remain active during power failure.

Fully welded tunnel and doors

No sealant joints or adhesive seams.
A structurally hygienic design compliant with EU GMP Annex 1 (2023) requirements for sterile manufacturing environments.

Suitable for ISO-5 & Compliant ISO 14644-1

Flush-mounted finish

Flush integration within the wall panel.
An aesthetically pleasing design that blends seamlessly into any cleanroom architecture.

Front Panel Easy to Remove

The front panel can be removed quickly and easily. The interlock control board remains permanently accessible. Adjustable hinges minimize maintenance downtime.

Standard in stainless steel 316L

Made from 316L stainless steel, not 304, with a molybdenum-enriched alloy for enhanced chloride and acid resistance.

Permanently accessible interlock control board

Double-tempered glass doors

Airflow and Pressure Control Through the Cleanroom HVAC System

HVAC-managed supply and exhaust air ensure synchronized air volume, pressure cascades, and airflow patterns without standalone blowers or turbulence.

Sublimation®-process

A chemical-free surface treatment that creates an exceptionally smooth stainless steel finish (Ra approximately 0.12 µm).

- **Higher corrosion resistance:** Suitable for IPA, H₂O₂, and NaOH exposure
- **Lower surface roughness (Ra ~0.12 µm):** Reduced adhesion of microparticles and biofilm
- **Reduced particle shedding:** Suitable for ISO Class 5 and GMP Grade A environments
- **Improved cleanability:** Faster and more effective CIP/SIP cleaning processes with reduced use of cleaning agents
- **Environmentally friendly alternative:** No chemical wastewater and no aggressive chemical processing

J'CLEAN PASS BOX.

Standard product range

Standard product range

Our carefully developed standard range of pass boxes is designed to meet the diverse requirements of our customers. Through thoughtfully defined dimensions, we ensure seamless integration into any environment while maximizing the efficient use of available space. The result is a well-engineered solution that combines efficiency, functionality, and quality.

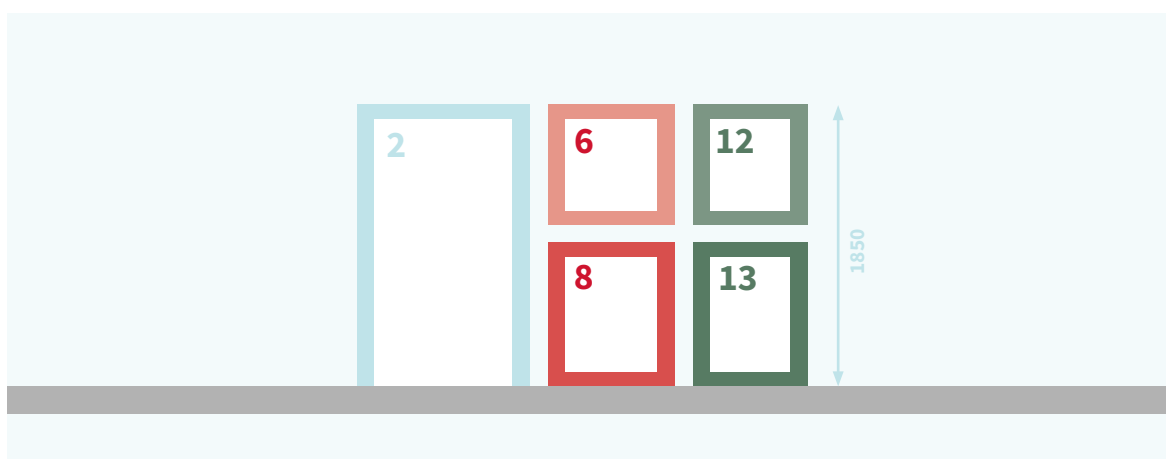
Available dimensions (Pass box)	520 series; heights: 600/750/900/1810 mm 600 series; heights: 600/750/900/1810 (*internal heights)
Available dimensions (Pass trolleys)	600 series; heights: 1000/1900 900 series; heights: 1000/1750/1900 (*internal heights)
Housing material	Stainless steel 316
Standard	◆ Equipped with a J'Clean interlock system (green/red LED status indication) ◆ Preconfigured delay time ◆ BMS-connectable
Optional	◆ Shelves: fixed, removable, or single-side removable ◆ Basket supports for external basket dimensions of 600 × 400 mm ◆ Pass trolley stopper ◆ Stainless steel 304 housing ◆ UV-C disinfection ◆ Lighting ◆ M5 exhaust filter ◆ Custom solutions

J'CLEAN PASS BOX.

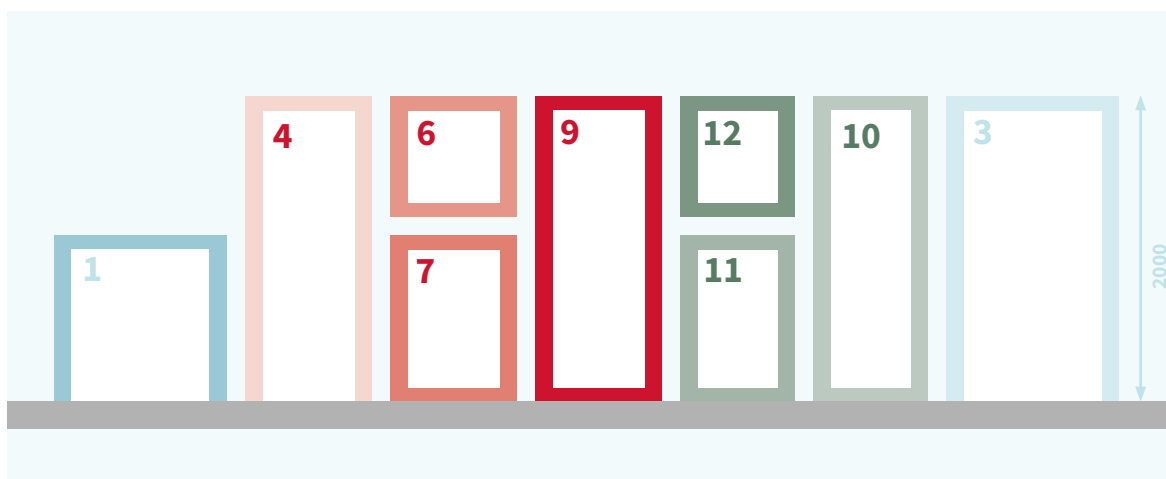
Standard range configurations

	900 series			600 series						520 series			
	1	2	3	4	5	6	7	8	9	10	11	12	13
Internal dimensions (H x W mm)	1000 x 900	1750 x 900	1900 x 900	1900 x 600	1000 x 600	600 x 600	900 x 600	750 x 600	1810 x 600	1810 x 520	900 x 520	600 x 520	750 x 520
External dimensions (H x W mm)	1095 x 1126	1845 x 1126	2000 x 1126	2000 x 826	1095 x 826	790 x 826	1095 x 826	942 x 826	2000 x 826	2000 x 746	1095 x 746	790 x 746	942 x 746

Configuration: Combination 1850 x Height 1150



Configuration: Combination 2000 x Height 1300

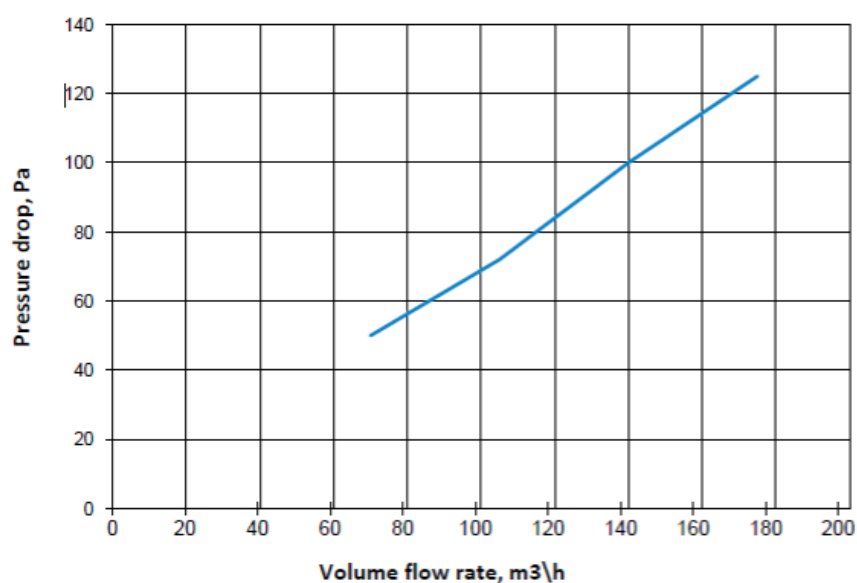


J'CLEAN PASS BOX.

Technical specifications

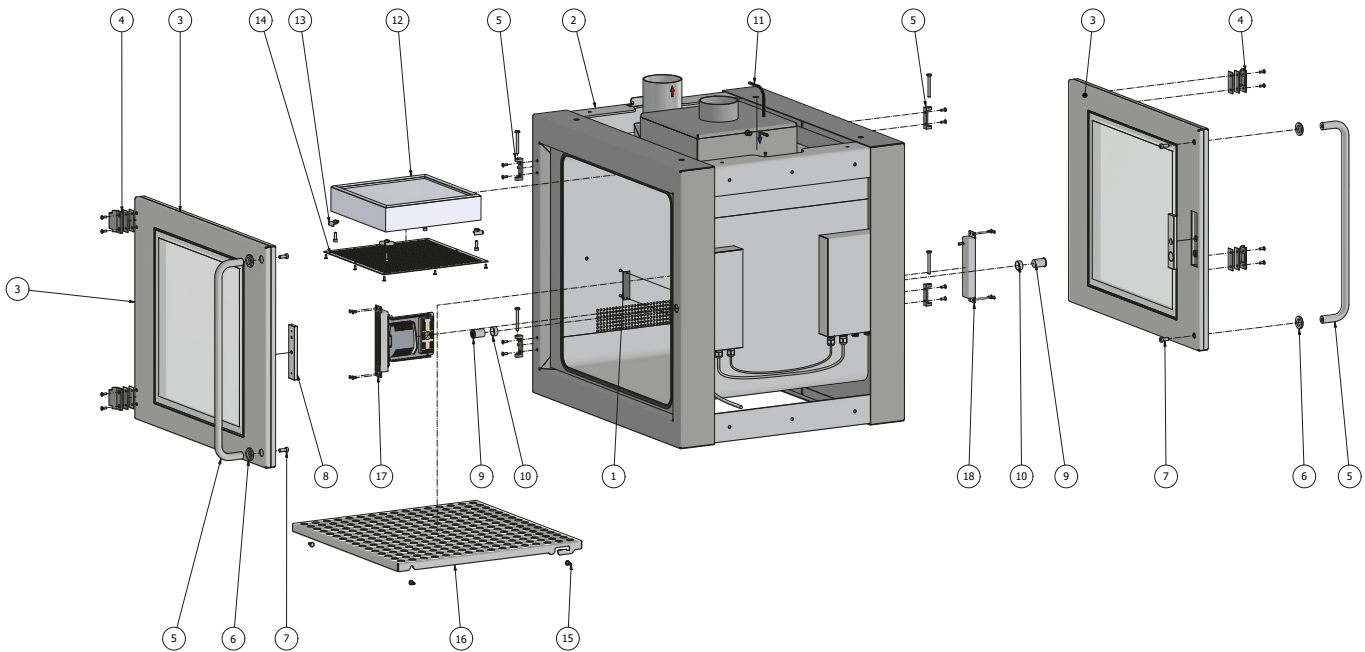
HEPA Filter Technical Data

Type	Laminair flow HEPA filter
Filter frame	Extruded aluminum
Filter media	Borosilicate glass microfibers with acrylic resin binder
Dimensions	305 x 305 x 68 mm
Filter surface area	2,85m ²
Airflow volume	140m ³ /h
Air velocity	0,42m/s
Efficiency at MPPS	≥99,995%
Initial pressure drop	100Pa
Final pressure drop	500Pa
Filter classification	H14 EN1822
Maximum temperature	70°C
Maximum relative humidity	90%



J'CLEAN PASS BOX.

Technical drawings



PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION	STOCK NUMBER
1	2	PSB-E-6-6D65-P1002	Stainless Steel Front Panel W600×H600×D650	0202120100003
2	1	PSB-E-6-6D65-Innerbox-	Pass Box Inner Chamber W600×H600×D650	0202120303001
3	2	PSB-E-6-6D65-Door-	Standard Pass Box Door W600×H600×D650	5002010100001
4	2	1054-10	180° Stainless Steel 316 Hinge (Part 1/2)	0604010300001
5	1	Door Handle Large	Large Stainless Steel 316 Door Handle Ø20, Including Finish	0602030100002
6	2	PSB-E-6-6D65-P1005	Large Stainless Steel Door Handle Ring	0202120200001
7	2	M8x20_DIN 7984-A4	A4 Stainless Steel M8×20 Low-Profile Socket Head Screw	0501160205001
8	1	Magnetic Armature Plate	Magnetic Armature Plate 133×31×8 mm, Modified Mounting Recess	5002010202002
9	2	Magic Switch (GR-R)	Flush-Mount Infrared Switch Ø22 mm	0801020400001
10	2	Magic Switch Spacer Ring	Spacer Ring for Infrared Switch	0202120000007
11	1	Air Tubing 6	PEN-6X1-NT Plastic Air Tubing	0406010106001
12	1	EPA Filter 305×305×68	HEPA Filter 305×305×68 mm, H14 ES Version	1008011400001
13	4	Supply Air Mounting Bracket	Supply Air Mounting Bracket Including Fastening Hardware	5002010301001
14	1	Supply Air Grille Including Fastening Hardware	Supply Air Grille Including Fastening Hardware	5002010300001
15	4	PSB-E-6-6D65-P1004	Stainless Steel Shelf Support	0202120300001
16	1	PSB-E-6-6D65-P1010	Removable Shelf 600×600 mm	0202120302002
17	1	PSB-E-Interlock-	Pass Box Interlock Module (HF)	5002010201001
18	1	PSB-E-Electromagnet 142×33×21 incl. 2 Weld Studs	Electromagnet 142×33×21 mm Including 2 Weld Studs	5002010202001
19	1	Power Cord	Power Cord with Angled Grounded Plug	0804042110300
20	2	130700 QSC-6H-100	6 mm Black PVC Blind Plug	0804048000201
21	1	PSB-E-6-6D65-Extractie-	Pass Box Exhaust Assembly W600×H600×D650	0202120305001
22	10	DIN 125 - A 5.3	A4 Stainless Steel Flat Washer M5	0508010000004



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