

The unique solution for a pure environment SKANFOG® PURE, the essence of an isolator



SKAN

SKAN, founded in 1968, is one of the pioneer companies in the field of cleanroom equipment and manufacturing of isolators for the pharmaceutical and biotech industries. Innovative products, client specific solutions as well as an efficient service organization have made SKAN a worldwide market leader and an important partner of the industry and research laboratories.

Your Needs

- Cost effective Grade A, ISO 5 containment that eliminates full cleanroom requirements
- Wide application range
- Fast and automated decontamination cycles by H₂O₂
- Excellent ergonomics and working conditions
- Compliance to current regulatory and standards requirements

Our Solutions

- SKANFOG® PURE: An aseptic and aseptic-toxic working isolator
- Closed containment provides a safe handling condition also when working with high potent products
- Fast and safe H₂O₂ decontamination cycles with the patented SKANFOG® technology
- Large and fast airlock to improve isolator productivity
- No connection to HVAC required due to integrated SKAN NANOX® catalyst system
- Easy to install "plug and play" solution
- Modular, space saving design
- A worldwide reputable service and after-sales support through our branch offices or partners

Outstanding Features

- Working chamber and airlock in stainless steel
- Smooth and easy to clean working surface
- Selectable positive or negative pressure operation
- Maintains cGMP cleanroom class A, ISO 5 standards
- User-friendly 10 " color touch screen control panel
- Mainboard and software engineered according GAMP 5
- Batch reporting
- All operational, service or maintenance access from the front so to install against the wall
- Easy assembly, installation and access through standard doorways and elevators



Our Experience – Your Advantage

SKAN combines in the SKANFOG® PURE the broad knowledge about life science and laboratory safety solutions with isolator technology.

Versatile

SKANFOG® PURE offers a wide application range from pharmaceutical-biotech laboratories to hospital and clinical pharmacies, from compounding operation to cell culture and genetics, from animal and research industries to medical field. Common fields are:

- Carcinogenic, mutagenic or reprotoxic substances (CMR)
- Total parenteral nutrition (TPN)
- Intravenous solution (IV)
- Cytotoxic
- Virostatic
- Anti-neoplastic chemotherapy

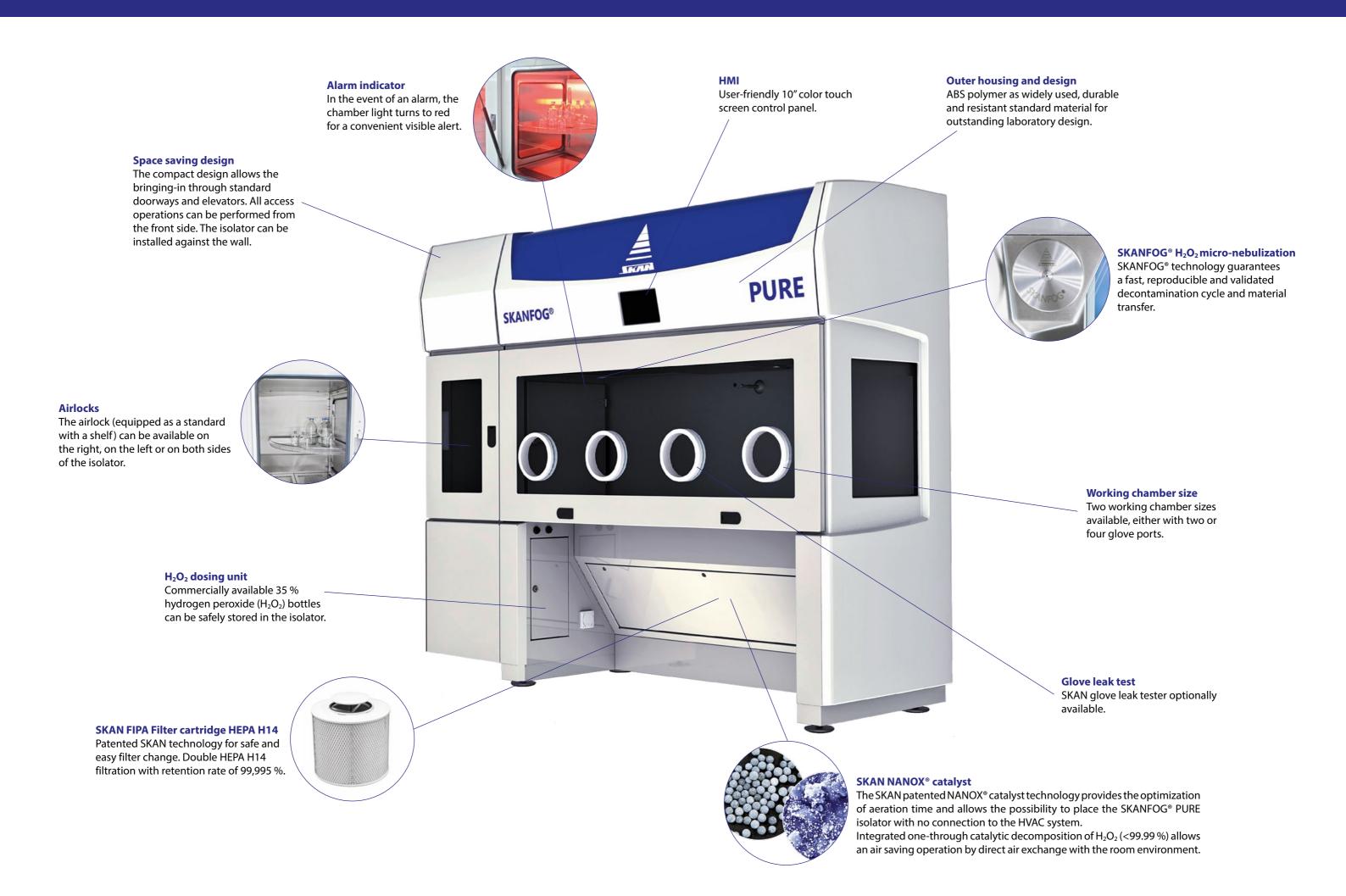
- Pathogenic microbiology / viruses
- Transformed DNA
- Small scale aseptic pharma production
- Cell cultures
- Quality control
- Cell and Gene

Standards & Certifications

SKANFOG® PURE is certified according to the latest standards, i.e.

- Machinery Directive 2006/42/EC
- EMC Directive 2014/30/EC
- EN 12469 (performance criteria for microbiological safety cabinets)
- DIN 12980 (laboratory installations safety cabinets and gloveboxes for cytotoxic substances and other CMR drugs)
- ISO 14644-7 (clean air hoods, gloveboxes, isolators, mini-environments)
- cTUVus certified





Innovative Decontamination Solution

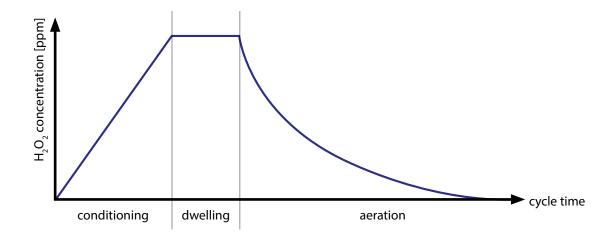
SKANFOG®

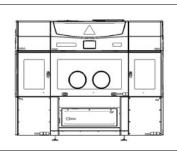
SKANFOG® decontamination process is a decontamination technology based on the micro-nebulization of hydrogen peroxide (H_2O_2) . Compared with conventional wiping, it simplifies and enhances both procedure and validation. Moreover, nebulized H_2O_2 in moderate concentrations can be used without concern regarding toxicity, corrosion and persistence. Scientific studies have shown that a total kill of a 10e6 population of the test organism Geobacillus stearothermophilus can be qualified and reproduced.

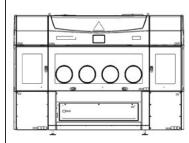


Fast decontamination cycle

The decontamination process is divided in three phases: In the conditioning phase, the required H_2O_2 amount is micronebulized into the containment. A well-defined dwelling time follows and comprehensively ensures that the desired decontamination efficacy will be accomplished. In the aeration phase, the decontaminated containment is aerated by means of a catalytic loop.







Technical data (chamber + 2 airlocks)		2 gloves SKANFOG® PURE isolator	4 gloves SKANFOG® PURE isolator
Complete system [wxdxh]	[mm] [ft]	2811×955×2277 9'-3"×3'-2"×7'-6"	3300×955×2277 10′-10″×3′-2″×7′-6″
Useful chamber [wxdxh]	[mm] [ft]	1410×715×629 4'-8"×2'-4"×2'-1"	1895×715×629 6'-3"×2'-4"×2'-1"
Max. height of load	[mm] [ft]	970 3'-2"	970 3'-2"
H ₂ O ₂ type	[L]/[%]	2.5/35	
Operation pressure	[Pa]	-60 or +60 (tbd at order)	
Air velocity down flow	[m/s]	0.45 +/- 20 %	
Air consumption isolator / airlock	[m³/h]	550650/300550	
Material working chamber	Туре	Stainless steel AISI 316L (EN 1.4404) surface roughness ≤ 0.8 µm	
Material body housing	Туре	ABS polymer, RAL 9016	
Material window	Туре	6 mm double safety glass	
Exhaust (double filtered)	Type, filter class	SKAN FIPA HEPA H14 filtered (independent, no exhaust duct needed)	
Filter type to airlock	Type, filter class	Intake HEPA H14 plate filter / Exhaust SKAN FIPA H14 filtered	
H ₂ O ₂ catalyst	Туре	Patented SKAN NANOX®	
Control system	Туре	Embedded control system with 10" color touch screen control panel, GAMP 5	
Interfaces	Туре	USB	
Light	[lx]	Min. 800 inside the chamber	
Pneumatic air supply	[bar]/[Nm³/h]	6-10/10	
Noise level	db (A)	Max. 60	
Power supply	[VAC]/[Hz]/[W]	230/60/max. 3000	
Gloves	Туре	Standard: 1-piece gloves (butyl) Options: 2-piece gloves (butyl gloves, CSV sleeves) / Glove changing system	
Available options	 Independent hydrogen peroxide sensor (TLV) for room installation Multi piece stainless steel rack & shelves SKAN glove tester Glove stretchers Air velocity in chamber optional Environmental monitoring for viable (handheld) and non-viable particles (mechanical interface pre-installed) Secure RTP (rapid transfer port) transfer systems Qualification & validation services (IQ/OQ) Microbiological qualification (MBQ) Further options available upon request 		

According GMP Annex 1 air speed can be set to 0.45 m/s (+/-20%). In case non GMP application air speed will be set to 0.25 m/s. Contact (skin contact, ingestion, inhalation) with hydrogen peroxide (H_2O_2) can lead to serious health problems! It is recommended to use an independent H_2O_2 TLV sensor for room monitoring. In case of exceeding the maximum threshold value (TLV) the sensor alarm signal can be transferred to the controller of the PURE.

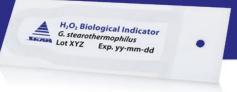
WirelessGT

The innovative glove leak testing system without tubes and wires: it's better to be wireless.

SKAN BI®

The biological indicator for H_2O_2 decontamination: designed for outstanding performances.







SKAN AG

Binningerstrasse 116 4123 Allschwil Switzerland Phone +41 61 485 44 44 info@skan.ch www.skan.ch

SKAN Stein AG

Rüchligstrasse 296 CH-4332 Stein Switzerland Phone +41 62 873 18 41 info.stein@skan.ch

SKAN Deutschland GmbH

Nickrischer Straße 2 02827 Görlitz/Hagenwerder Germany Phone +49 358 223 789 0 de.info@de.skan.ch

SKAN US, Inc.

7409 ACC Blvd., Suite 200 Raleigh, NC 27617 USA Phone +1 919 354 638 0 sales@us.skan.ch

SKAN Japan

5194-6 Katsurenhaebaru, Uruma-shi, Okinawa 904-2311, Japan Phone +81 989 349 922 info@skan.ne.jp