

TAS-OP / TAS-FV

Characteristics	TAS-OP	TAS-FV
Classification according to ISO 14644:2016	from 5 to 7	from 5 to 7
Classification according to Fed. Std. 209 E	M3,5 a M7	M3,5 a M7
Initial differential pressure	100 Pa	100 Pa
Recommended final differential pressure	250 Pa	250 Pa



ADVANTAGES

- Available in multiple sizes, offering flexibility for different room layouts
- Flat design ensures ease of cleaning and decontamination
- High resistance to cleaning and disinfecting agents, particularly in the TAS-OP version (AISI 304 stainless steel)
- Individually manufactured, tested, and packaged HEPA filters in a contamination-controlled environment
- Easily removable perforated diffuser panels allow quick and direct access to internal filters.

This ceiling-mounted filtration and air distribution system features a unidirectional vertical airflow, specifically engineered for critical environments rated from ISO Class 7 to ISO Class 5, in compliance with ISO 14644:2016. To ensure uniform and efficient airflow across the clean zone, proper dimensioning and placement of return air grilles is recommended..

MATERIALS AND FINISH

- Frame and plenum options
- TAS-OP AISI 304L stainless steel, white polyester powder-coated (RAL 9010)
 - TAS-FV steel construction, painted RAL 9010 white.
- Perforated diffuser panel
- Aluminium, painted RAL 9010 white.
 - HEPA Filtration – Model AB, H14 efficiency as per EN 1822-1:2019, with anodized aluminium frame.

APPLICATION

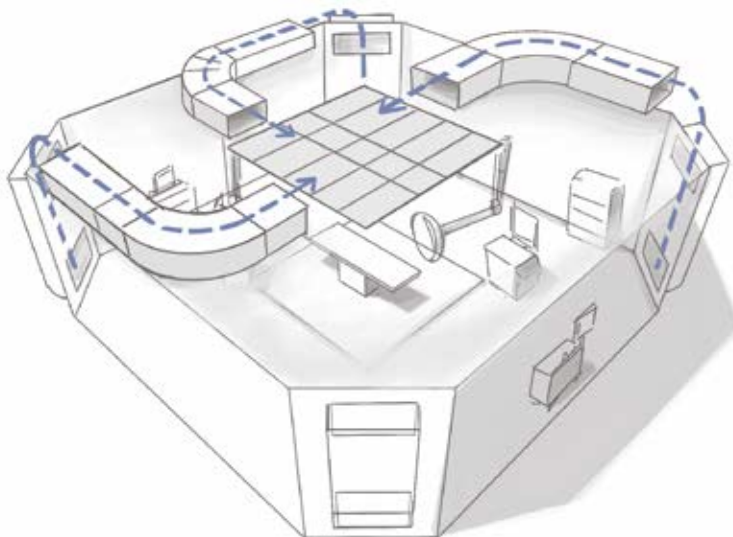
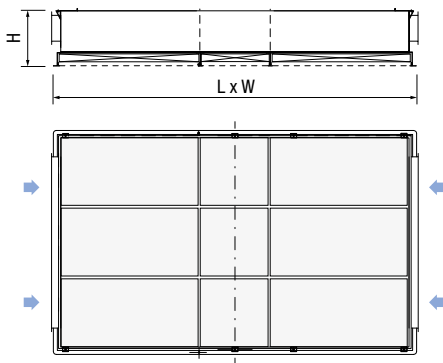
Designed for operating theatres classified from ISO Class 7 to ISO Class 5, in compliance with ISO 14644:2016.

VERSIONS

- AISI 304 L stainless steel perforated diffusers
- Diffusers equipped with LV membrane technology
- Liquid gel-based sealing system for enhanced tightness
- Structural accommodation for central mounting of surgical lighting
- Optionally integrated air recirculation module for energy-efficient ventilation.

TAS-OP / TAS-FV

Code TAS-OP/TAS-FV	Dimensions [mm]			Nominal air flow rate [m³/h]					
	L	W	H	$v_f = 0,24 \text{ m/s}$	$v_f = 0,30 \text{ m/s}$	$v_f = 0,38 \text{ m/s}$	$v_f = 0,24 \text{ m/s}$	$v_f = 0,30 \text{ m/s}$	$v_f = 0,38 \text{ m/s}$
14/20	1400	2000	420	1600	2000	2500	2000	2400	3000
14/25	1400	2500	420	2200	2800	3500	2600	3200	4000
20/20	2000	2000	420	2600	3200	4000	3000	3600	4500
20/25	2000	2500	420	3500	4400	5500	4000	4800	6000
20/32	2000	3200	420	4400	5600	7000	4700	6000	7600
25/25	2500	2500	420	4800	6000	7600	5200	6400	8200
25/32	2500	3200	420	6200	7600	9700	6600	8000	10200
29/29	2900	2900	420	6800	8500	10800	6900	8600	10900
32/32	3200	3200	420	7800	9600	12000	8200	10000	12600
				WITH INSTALLATION of surgical light			WITHOUT INSTALLATION of surgical light		

**CEILING UNIT WITH INTEGRATED RECIRCULATION**

The ceiling unit with integrated recirculation modules offers maximum flexibility for both designers and installers.

Each system includes:

- A filter ceiling unit with H14 HEPA filters featuring differentiated airflow velocities
- High-efficiency fan modules (quantity depends on the recirculated flow rate)
- Sound-attenuation sections to reduce both transmitted and radiated noise
- Wall-mounted air intake grilles positioned at both floor and ceiling level in each corner of the room.

This configuration is designed to deliver a sterile air diffusion system, interfacing seamlessly with the fresh air supply while managing independent room-level recirculation.

The system fully complies with ISO 14644-1:2016, effectively minimizing airborne microbial concentrations (CFU).

To ensure optimal air distribution, DEC S model return grilles or air return columns - optionally equipped with pre-filters - must be properly dimensioned and located within the room.