DIF-O.T. / LS

Ceiling filter system for operating rooms

Product	DIF-O.T.
Class ISO 14644	ISO 5
Final pressure drop	250 Pa
Structure	AISI 304 stainless steel
Diffusion	Differential flow velocity
Suggested for class	A (ECC-GMP-Annex 1)

The DIF-O.T./LS unidirectional ceiling filter systems produce a controlled distribution of the filtered air by the absolute filters above the operating area.

The diffusers are integrated with DELTA absolute filters AB ris LV to obtain a unidirectional air flow above the area occupied by the surgical team.
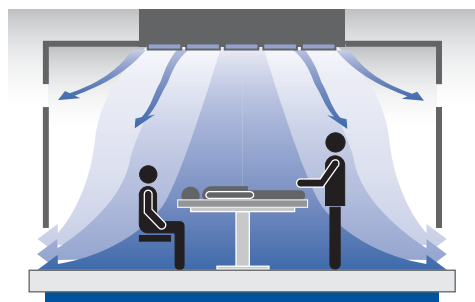
The system allows for a decreasing air flow speed from the center to the peripheral areas thus ensuring a constant and effective washing of the operating area.

The filters have an equalizer able to maintain the necessary air uniformity even at low speeds.

The filter is made of very thick anodized aluminium. Side elements take in the pre-filtered air. DIF-O.T./LS filters are available in different sizes, in an air flow range from 2000 to 8000 m³/h to meet the requirements of the standard operating rooms.

Applications   DIF-O.T./LS ceiling filter systems are installed in critical operating rooms: transplants, heart surgery, orthopedics, neurosurgery. The low speed and no induction ensures also great comfort for the operating team. Furthermore, DIF-O.T./LS filters thanks to the features indicated in the previous chapter allow for significant energy saving levels.

Installation   DIF-O.T./LS ceiling filter systems can be assemble in one piece or in a modular system for transportation purposes. The modules are assembled and installed on site very easily, without any particular equipment.

Type	Sizes (mm)			Nominal air flow rate Q.		Weight
DIF-O.T./LS	A	B	C	m³/h	m³/sx10⁻³	Kg
4 / 435	2400 x	1945 x	400	2000	555	250
5 / 435	2400 x	2400 x	400	2500	694	310
6 / 435	2400 x	2855 x	400	3500	972	385
4	3000 x	2495 x	400	3500	972	400
5	3000 x	3000 x	400	4500	1250	480
6	3000 x	3575 x	400	5500	1528	565

1 m³/s x 10⁻³ = 1 l/s

Size

Direction of differential flows with DIF-O.T./LS ceiling filter systems.