

LAMINAR FLOW FIELD FOR OPERATING ROOM



The laminar flow field for operating room are used to create a uniform airflow of specific cleanliness in septic and aseptic operating theatres.

They meet the most stringent hygienic and technical requirements for air filtration.

The use of a laminar flow field helps achieve minimum contamination of airflow during surgery, as bacteria, viruses and dust particles are captured by HEPA filters immediately before they enter the operating theatre through the air conditioning system.

laminar flow fields are connected to the HVAC pipeline supplying pre-filtered air (at least F7 according to ČSN EN 1822) of specific temperature and relative humidity. In the filtration adapters of the lamination field, the air is fine-cleaned to the required class of cleanliness (H12 ÷ H14). Filtration adapters are equipped with HEPA filters, filtration class H14, conforming to the standard ČSN EN 1822. Dispersion diffusers and laminarizators provide outflow uniformity and laminarity of outgoing air with an air flow rate of 0.2 ÷ 0.25 m.s-1. LED lamps with continuous brightness adjustment (dimming) are used for lighting.

TECHNICAL DATA

Product type

lamination flow field for operating theatre

Dimensions

laminar flow field dimensions 1875x1875x420

laminar flow field dimensions 1875x2500x420

laminar flow field dimensions 2500x2500x420

laminar flow field dimensions 3000x3000x420

laminar flow field dimensions 3200x3200x420

Connection to HVAC pipeline

atypical

standard (from opposite sides)

Tube type

without fluorescent tubes

LED tube sTube 2W 150, luminous flux 7320 lm/66 W, length 1500 mm

90219 49 W F49W/T5/HO/830, luminous flux 4900 lm, length 1449 mm

90223 49 W F49W/T5/HO/840, luminous flux 4900 lm, length 1449 mm

Lighting regulation

without light fixtures

non-dimmable lighting

dimnable lighting

Filtration class

filtration class H14

Diameter of surgical lamp tube

standard Ø125

atypical

Surface of visible parts

thermosetting powder coat Komaxit, standard hue RAL 9016

MORE INFORMATION, PHOTOS

