



Iskra pio d.o.o.
Industrial equipment manufacturer

FACILITY AREA

CLEAN ROOMS

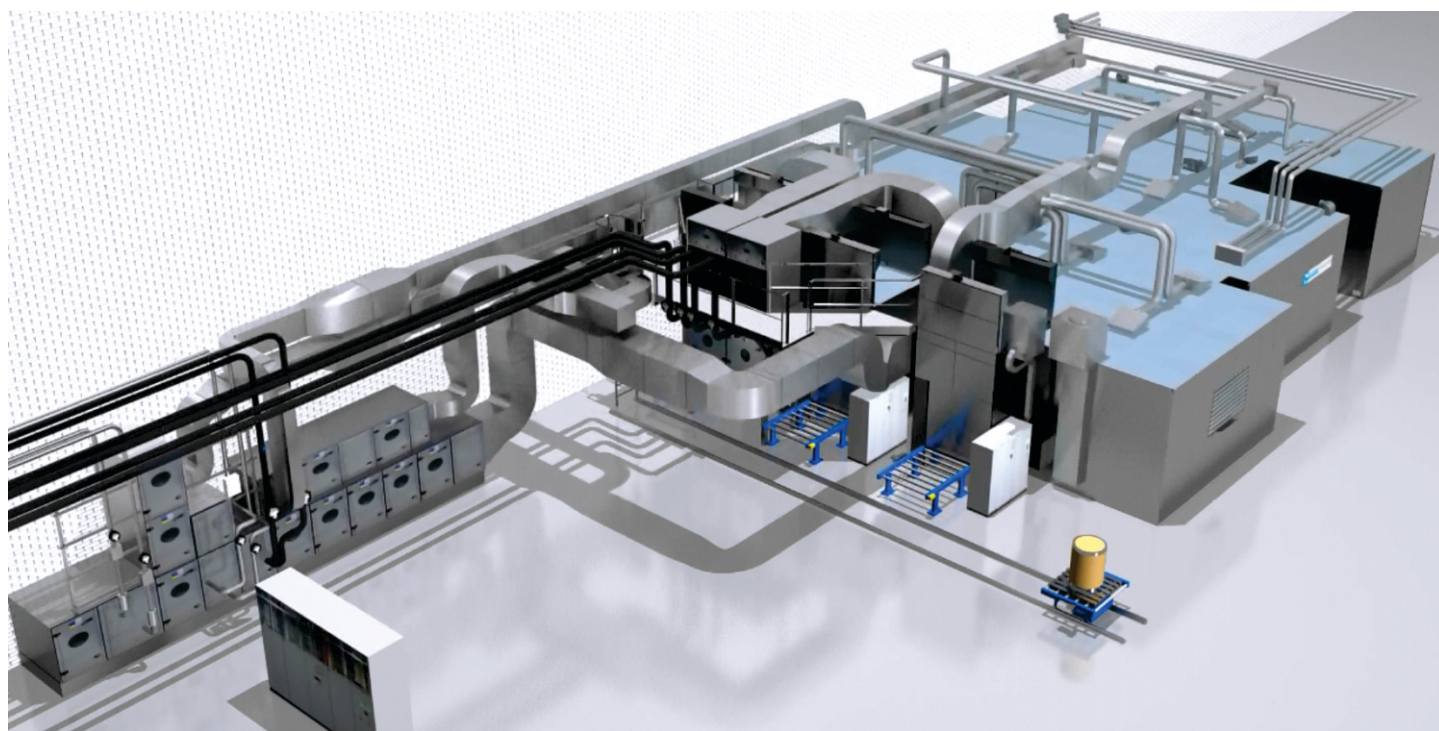


Operator, product and environment protection
ISO 5 to ISO 8 (ISO 14644-1:1999)
Class A to D according to GMP



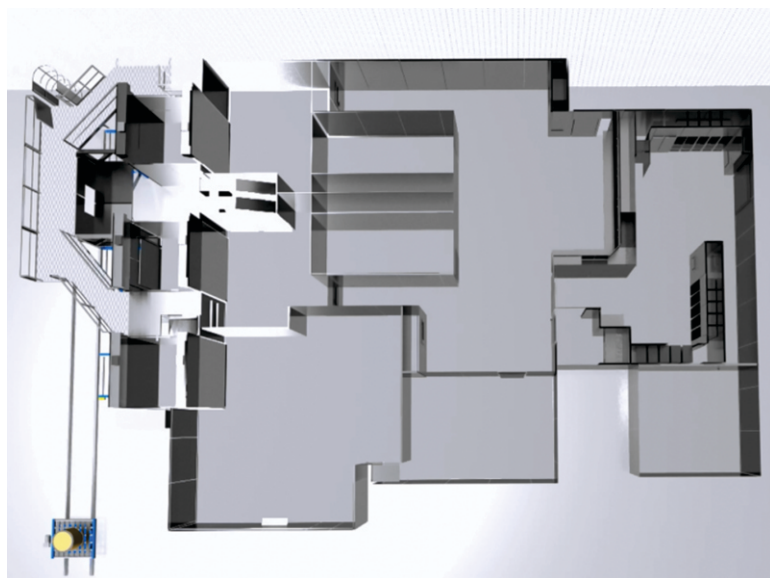
We offer complete construction of clean rooms including the production of floors, walls, ceilings, doors, windows and also whole ventilation system to ensure appropriate working conditions. We also produce different equipment for the clean rooms like washbowls, wardrobes, waste baskets and so on. We manage the entire process of building the clean rooms, complete logistic of staff and material. Processes are monitored and regulated to ensure proper working conditions.

Our systems achieve degrees of cleanliness from A to D according to GMP (100; 10,000; 1,000,000).



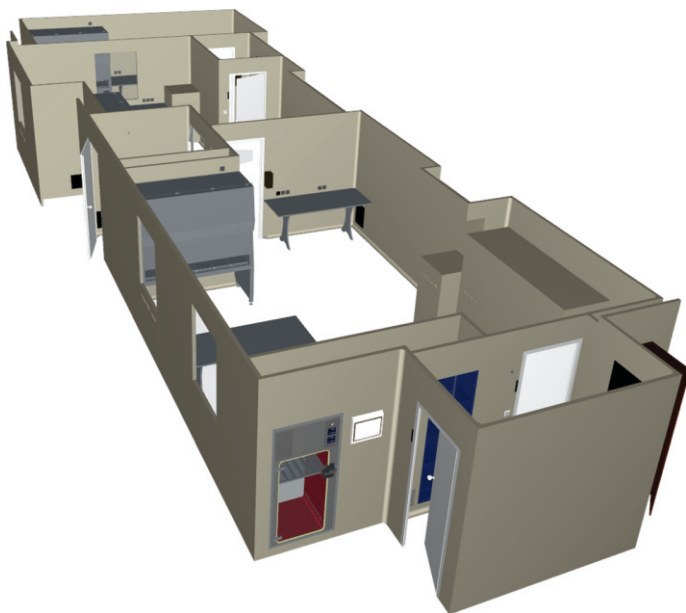
Basic characteristics

- easy maintenance
- easy cleaning and disinfecting
- surfaces resistant to abrasion and chemicals
- electro statically conductive
- rounded corners
- easy-to-inspect filter and lights elements
- easy and safe filters replacement
- imperviousness
- certificates for material and components
- easily accessible components
- easy control



Options

- installations:
 - gasses,
 - vacuum,
 - air...
- interlock doors function - locks/indicators
- special conditions:
 - humidity below 30 %,
 - red lights...
- walk-on ceiling 150 kg/m²
- stainless steel or painted version
- implementation according to customer demands



Classification System - guide for cleanrooms design

ISO 14644-1	Federal Standard 209E	EU cGMP	Air changes per hour	Airflow pattern
Class 3	1	-	360 - 540	Unidirectional
Class 4	10	-	300 - 540	Unidirectional
Class 5	100	A/B	240 - 480	Unidirectional
Class 6	1.000	-	125 - 240	Nonunidirectional / Mixed
Class 7	10.000	C	20 - 90	Nonunidirectional / Mixed
Class 8	100.000	D	0 - 48	Nonunidirectional / Mixed

Additional equipment

- material locks: de-dusting cabinets, active/passive pass through benches, pass-box with sterilization VHP/H₂O₂...
- personal locks: mist shower, air shower
- automatic transport system
- safety laminar flow benches
- isolators, integrated LAF units
- washbowls, wardrobes, baskets, tables



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