



Lindab Air Handling Units

Case studies &
top references

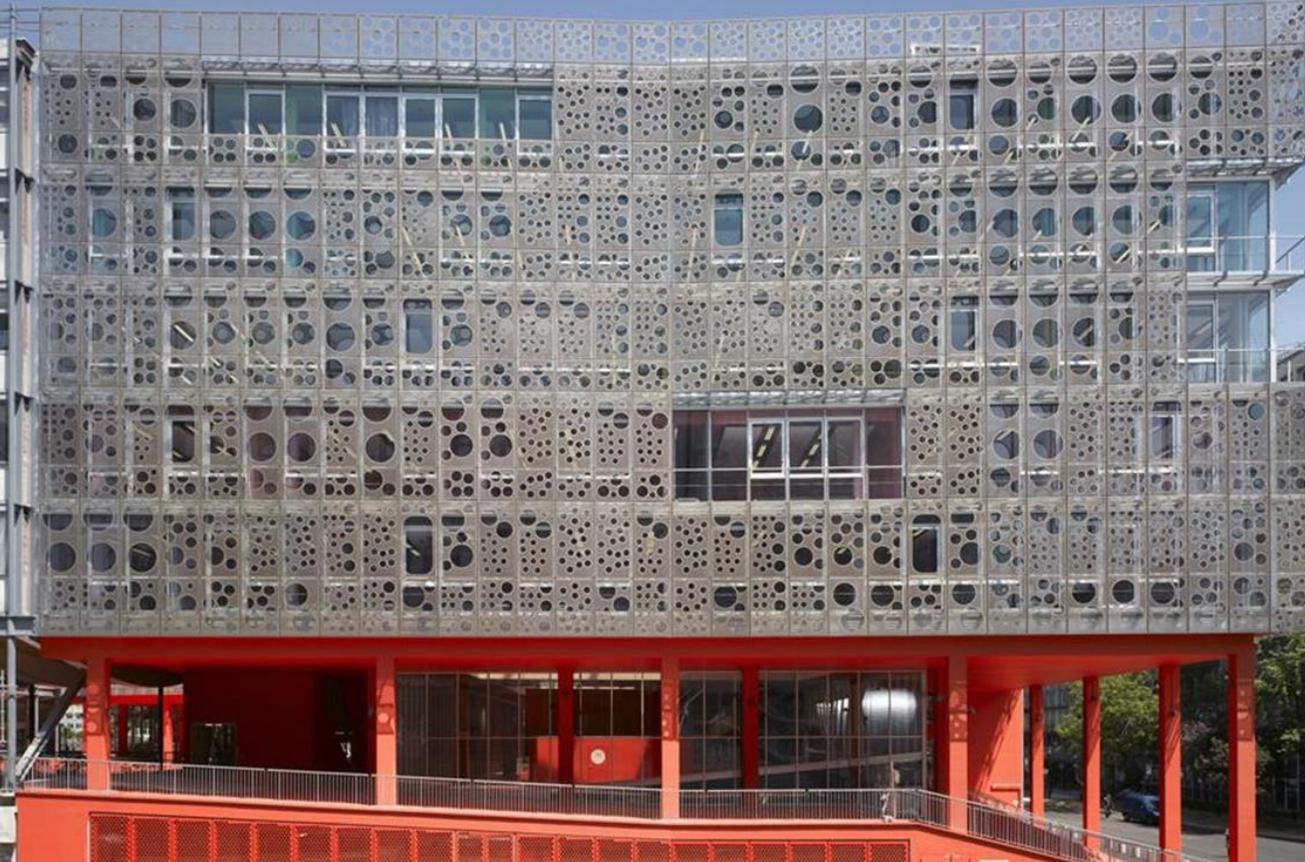




Buckingham Palace Road 123+151

In this elite business building in central London, **50 modular air handling units** and 8 chillers with a total capacity of 5 MW were built in. We were awarded the contract due to our advanced solutions for efficient use of energy which have a competitive edge on the market. Since the very beginning of the project, our experts participated in the renovation of the facility and convinced the client with know-how and solutions.

Air handling units are made in energy class A and equipped with a custom made automation system.



Universite Jussieu Campus, Paris

- For Campus de Jussieu in Paris-Bercy, Lindab IMP Klima supplied **23 modular air handling units**, both indoor and outdoor versions with G4 and F7 supply and exhaust air filter sections, heaters, coolers, heat recuperation and dehumidifying sections.



Conrad Hilton Hotel Algarve, Portugal

The Conrad Algarve, which is a part of the Hilton hotel chain, is located in one of the most exclusive parts of the Algarve coastal region in the south of Portugal, only 10 km from Faro International Airport. The prestigious complex boasts with 158 guest rooms, 2 restaurants, a cocktail bar with a terrace, and 2 swimming pools as well as a wellness centre and fitness centre.

We played a part in the construction of the hotel with **40 air handling units** for central air preparation, while also providing the complete fire protection system and air distribution elements.



Kempinski Palace Hotel, Portorose

- Complete ventilation solution for a prestigious 5-star hotel, area: 20,000 m²
- Value of delivered HVAC system: 1.6 mio EUR
- Air handling units **total air flow volume: 223,700 m³/h**



Akcor Arena (ex Palais Omnisport), Paris-Bercy

- The ventilation solution comprises **eight specially adapted modular air handling units** with modules for filters, heating units, rotating heat exchangers, and supply and exhaust air. This solution entails at least 70% heat recovery, high particle filtration and an energy class A heating and cooling function.
- **Each unit features a maximum air flow of 65,000 m³/h.**



Aquapark Minsk, Belarus

- For Aquapark Kupale, the largest swimming pool complex in the Belarusian capital, our experts developed a ventilation solution for the demanding humid project conditions. We were awarded the contract due to our long-year experience in dedicated air handling units and ability to provide technical support to local designers. Our company delivered **13 air handling units in swimming pool version**, with **total air flow volume 468.000 m³/h**. The units feature a reversible cooling circuit.
- The Aquapark Kupale was also equipped with our air distribution units for optimum air supply and condensation prevention.



CSKA Stadium, Moscow

- **280 modular air handling units** in all tribunes - west, north, east, and south and also in one of the high-rise buildings, that are part of the stadium complex
- The exhaust and supply units have an air flow volume from 1000 m³/h up to 25000 m³/h. Beneath the water heater section most units feature a water cooler, a rotary recuperator and back-up fans, to ensure both energy efficiency and reliability of the system.
- Total area of the stadium is 172.000 m². It was designed for up to 30.000 visitors, there is also a separate parking space for 1.400 cars, a training complex, and a skyscraper hotel for athletes.



Stožice Sports Complex, Ljubljana

- Complete, custom-made and energy efficient HVAC solution
- **9 air handling units** (indoor double-stage versions with rotary wheel, bypass, mixing block, water heater and cooler, cassette filter EU4) with a **total flow rate of 306.000 m³ /h**, which ventilate the change rooms, corridors and entrance hall, the VIP lounges, conference areas for journalists and the banquet hall, and rooms for doping control and judges.



IKIA Airport, Iran

26 air handling units were delivered to Iran's biggest airport – New Salam Terminal. Upon the completion of the first phase of the IKIA Airport Town, the passenger capacity of the airport will reach 30 million passengers from the current 8 million in the next five years.

- **Total airflow of supply air 1.390.000 m³/h (up to 86500 m³/h for one single unit)**
- Functions: filtration, cooling, heating, dehumidification, ventilation
- Configuration: in-line air handling units with supply and return part and mixing box
- 10 Painted panels for increased anticorrosion protection

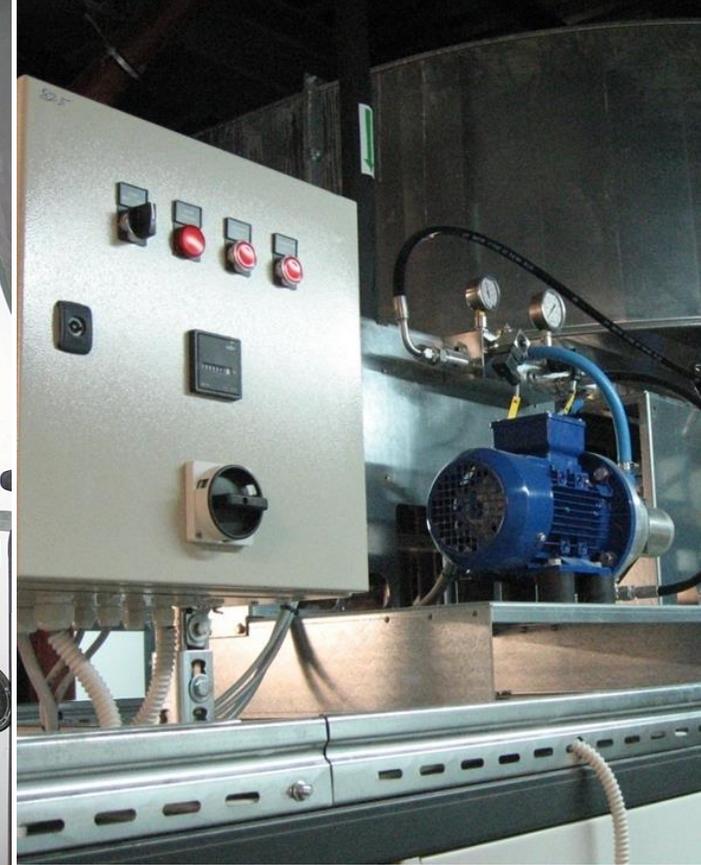




Heilbronn Clinic, Germany

Air handling unit delivery to Klinikum am Gesundbrunnen, Heilbronn, Germany

- **40 air handling units**, mostly hygienic type acc. to VDI VDI6022 with INOX interior parts.
- **Total air flow: 650.000 m³/h**
- Adiabatic cooling, high energy efficiency



Pediatric clinic, Ljubljana, Slovenia

Our largest project with adiabatic cooling so far. Supplied equipment:

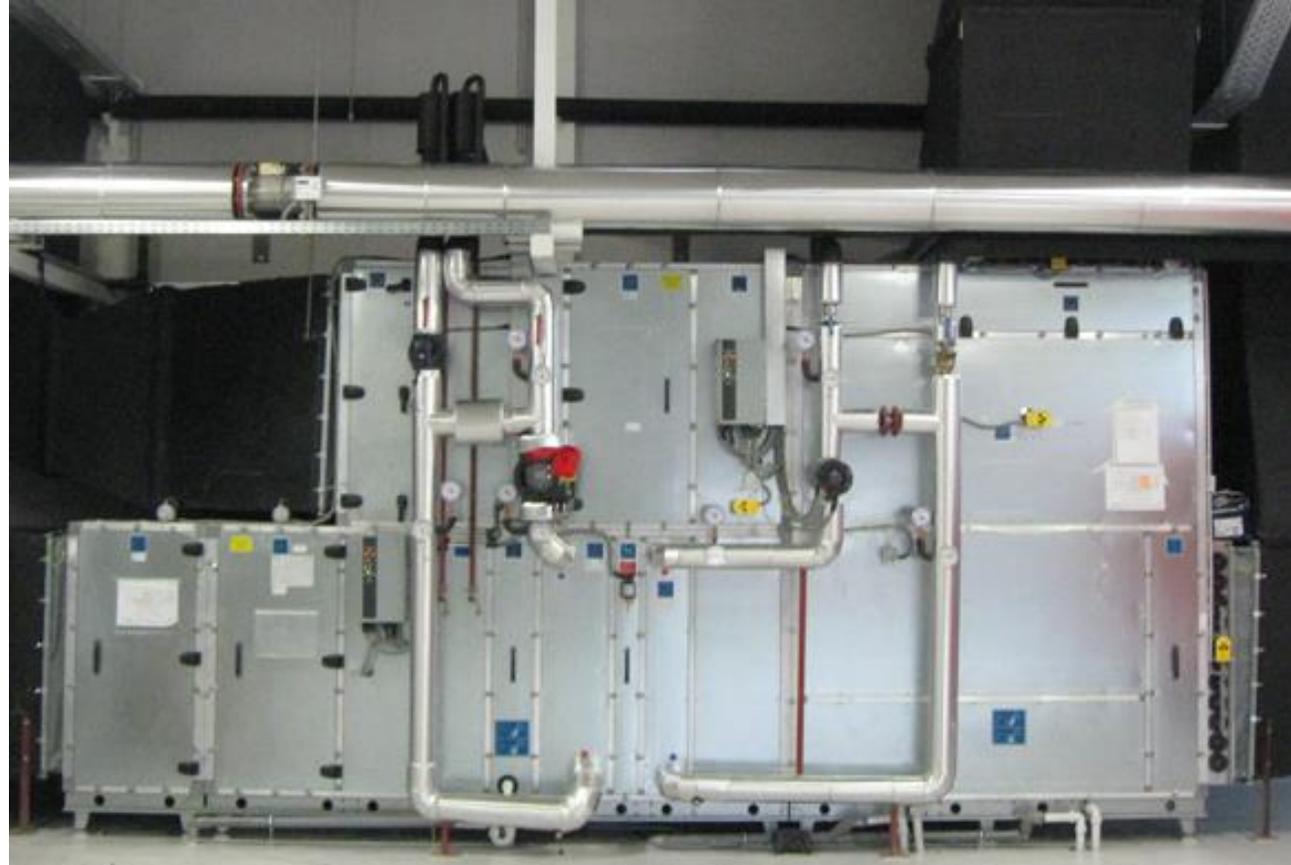
- 17 AHU for clean rooms class II with double plate recuperator and adiabatic cooling
- 6 hygienic AHU for clean rooms class I with glycol recuperator, 8 AHU indoor version

Due to the adiabatic cooling system the total cooling power was reduced from 1994 kW (originally planned) to 1528 kW, as a result 466 kW were saved. The needed electrical power of chillers was reduced for 155 kW. Needed water for adiabatic cooling: only 0.46 m³/h.



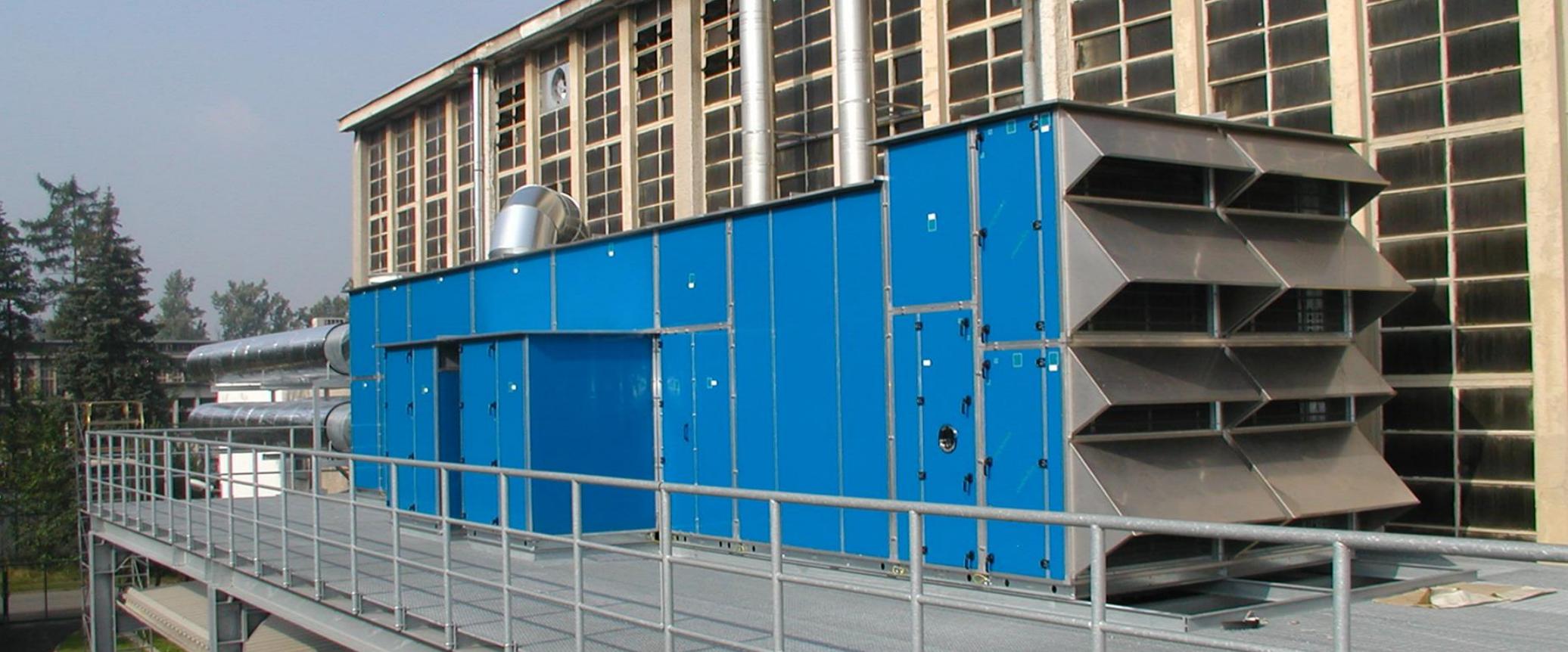
Crocus Nanoelectronics factory, Moscow, Russia

- Production of semiconductors in Moscow, surface area: 2.600 m²
- Design for mechanical installations made by Lindab IMP Klima in cooperation with German investor: company Fäth
- Complete clean room solution incl. AHU with adiabatic cooling



Grundfos Indjija, Serbia

- Complete HVAC solution for 25.000 m² of new production and office premises
- Investment: 50 mio EUR
- Circulation pump producer with a 50% world market share
- **16 modular air handling units**



Unitech factory, Škofja Loka

- One single air handling unit for industrial application with gas heaters and **air flow volume 120,000 m³/h**



Supernova mall, Ljubljana

- Air handling units with rotary heat exchanger and **total air flow volume 532,000 m³/h**
- Integrated control system
- Connection to a central BMS system
- Service and maintenance contract



Boulevard Londrina Shopping, Brasil

- 216 shops on 47,800 m² area, opening in May 2013
- Investment: € 122 million
- Modular air handling units with a **total air flow of 295,000 m³**



Thank You!

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