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GLOBUS PILSEN



The existing 3 large air handling units were already at the limit of their service life and also no longer met the current energy performance requirements of the building. It was therefore decided to replace the equipment by completely new one. Since it is a large hypermarket, exchange of 122,000 m³ of air per hour is needed in the space. Each unit therefore has to deliver a minimum of 40,000 m³, which is a relatively high flow rate in the case of a heat recovery unit. Although high-efficiency and high-quality components are used, the size of the units is a major factor in planning the transport and handling. The rotary heat exchanger section is almost 4 metres high and the same wide. The total length of the units then reaches 6 metres. To ensure maximum quality and tightness of the equipment, it was decided to deliver the rotary heat exchanger sections in one piece. Assembly on site would have been very complicated. As a result, their transport had to be planned long in advance. The units are located directly at the roof outlets, so that the outdoor pipe routes are kept to a minimum.

- Number of AHU: 3
- Minimum flow rate/AHU: 40,000 m³/h
- Maximum flow rate/AHU: 42,000 m³/h





MÖBELIX STRAKONICE





In the town of Strakonice, Czech Republic, a new shopping centre of the Kaufland chain was built and the original hall was vacated. The furniture chain Möbelix decided to use this space. However, the entire hall had to be renovated for their needs and adapted to the new requirements for the quality of the indoor environment. The original air handling units were therefore dismantled and replaced by units from our company. The main air exchange is provided by a large rooftop air handling unit with a flow rate of 20,000 m³/h with an efficient rotary recovery exchanger, water heater and DX cooler. The unit also allows mixing. Our delivery included a complete control system with a colour touch screen with visualisation. Also supplied was a small underfloor unit with a plate counterflow recovery exchanger for ventilation of back area.

- Number of AHU: 2
- Minimum flow rate/AHU: 900 m³/h
- Maximum flow rate/AHU: 20,000 m³/h







GYMNASIUM ŘÍČANY – NEW GYM BUILDING



Our company was lucky enough to be selected by the installation company at the design stage of the final HVAC solution for the building. We were thus able to work with the design department and fine-tune the proposed ventilation solution to fully meet the requirements of both the investor and the designers. The original phase of the project considered two units to ventilate the main gym hall. However, the contractor of the final solution decided to merge and therefore only one larger unit was proposed, but with significantly greater demands on the control system. So the standard controller program had to be modified by our programmers to meet the new requirements. The reason for this was to ventilate four sections of space with defined flow rates according to different criteria. The proof of the quality of the cooperation is a functional system that fully suits the space and the investor. Our delivery also included other smaller air handling units, again fully equipped with an integrated measurement and control system.



Number of AHU: 8

- Minimum flow rate/AHU: 600 m³/h
- Maximum flow rate/AHU: 16,500 m³/h





HAGIBOR B1/B2





Hagibor is a complex of modern buildings on the border of Vinohrady, Strašnice and Žižkov in Prague. It includes both office and residential buildings. The location has several advantages. The main one is excellent transport accessibility to the city centre, which does not contradict the fact that the location retains its tranquillity. The project is also very architecturally interesting. We succeeded in supplying the air handling units for buildings B1 and B2, which stand out perhaps the most in terms of their design. There are three air handling units on each building with plate heat exchanger, heating and cooling, including a complete measurement and control system from our company. This ensures that all required supply air parameters are met. In addition, small air handling units for the ventilation of retail stores on the ground floor are also supplied by us. We worked with a leading Czech design office to design the parameters of the units.

- Number of AHU: 12
- Minimum flow rate/AHU: 250 m³/h
- Maximum flow rate/AHU: 13,500 m³/h







APARTMENT HOUSE BARRANDOV



Just next to the AquaDream Barrandov water park, a modern five-storey apartment building has recently been built. The investor's requirement was not only the modern architecture of the building, but above all the modern technological equipment of the building. A very individual approach was therefore required, and the order was preceded by several professional coordination meetings with the investor and suppliers of other technologies. The result is the delivery of four compact ventilation units with counter-flow recovery exchangers, with heating and cooling, which ventilate the apartments throughout the building according to the precisely defined air flow requirements. An interesting feature of this supply is the evaporators of the units – each unit is fitted with two pieces, both divided into two sections with different divisions. This results in the ability to regulate heat and pressure over a very wide range. The units can thus handle ventilation even in such a differently occupied space.



- Minimum flow rate/AHU: 3,000 m³/h
- ◆ Maximum flow rate/AHU: 3,500 m³/h





ROZTYLY PLAZA





One of the large office buildings that have recently been realized in Prague. This is how this interesting project could be described. The delivery of the air handling units in this one was preceded by a relatively long period of cooperation with a design office from Hradec Králové, which aimed to fine-tune all the parameters of the air handling units down to the smallest detail. It was not an exception when our company made adjustments according to the designer's requirements more than once. It is probably also thanks to this careful approach of our partners that we can be justly proud of the result. Our delivery included not only large installations, but also small compact units located under the ceiling of five retail units on the ground floor of the building. The coordination of the delivery with the construction is also interesting - due to the size of the units in the machine room on the underground floor, some parts had to be delivered before the ground floor construction started. For example, the largest rotary heat exchanger.

- Number of AHU: 25
- Minimum flow rate/AHU: 1,040 m³/h
- Maximum flow rate/AHU: 37,800 m³/h





PRIMARY SCHOOL NORSKÁ, KLADNO



Primary School and Kindergarten in Kladno, Norska 2633 is a primary school with two separate departments: a kindergarten and a Montessori primary school. Our company was given the opportunity to equip this large school with its air handling units developed specifically for placement directly in the classroom. The demands on this equipment are great. First and foremost, very low noise levels that comply with hygiene limits. This is achieved by using materials with high sound absorption. Then there is the requirement for fully autonomous operation without the need for operator intervention. Last but not least, it is also the design of the equipment. The air handling units are part of the interior design and must fit in with the overall concept of the space. However, all these criteria are met by our equipment and as a result, the pupils of this school learn in a space that is healthily ventilated by VENTIAIR air handling units.



- Minimum flow rate/AHU: 630 m³/h
- Maximum flow rate/AHU: 630 m³/h







GZ MEDIA - RECORD PRESSING PLANT



GZ media group is one of the few truly world-famous Czech companies. It is focused on the production of vinyl records, which have been experiencing a renaissance for some time now. It is therefore logical that the Loděnice plant must be continuously modernised and expanded to meet the ever-increasing demand for these sympathetic music carriers. One of the phases was the expansion and modernisation of the record pressing plant, where our company was chosen as the supplier of the air handling units. The delivery included three similarly sized units with rotary heat exchangers and a direct cooling system. An interesting feature of this contract was the eight and ten circuit evaporators, which allow the cooling capacity to be supplemented according to the current demand or in connection with production expansion.



- Minimum flow rate/AHU: 24,000 m³/h
- Maximum flow rate/AHU: 29,000 m³/h







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