

standard

Supply installation. Supply and exhaust installation. Air handling units «Standard» is a module system composed of several functional assemblies that can be arranged in various combinations. If installations of a small size are selected it is possible to deliver all aggregates as a single unit accommodated in one housing. In the event that apertures for assembling are restricted, each aggregate can be installed as a separate assembly and formed as a single module directly at the assembling area. The optimal option offered by the Manufacturer is a set of separate assemblies composed of separate aggregates. As to the volume of air treated the “Standard” series covers the range from 720 to 40 000 m³/h;

Application area:

Production ventilation systems;
Ventilation systems for residential buildings;
Ventilation systems for public and administrative buildings, sport and entertainment complexes;
Central comfort air conditioning systems in premises intended for different purposes;
Process air conditioning systems;
Various ventilation and air conditioning systems based on latest achievements in energy-saving techniques.

Scope of deliveries

The following options of scope of deliveries are proposed:
Supply installation with a special selection of functional assemblies;
Exhaust installation;
Supply -exhaust installation with one heat recuperation unit;
Supply -exhaust installation for systems with air recirculation;
Combination of supply and exhaust installations, assembled separately, including the possibility to complete the same with exhausted air heat utilizer of the “Heat pump” type.
Configuration of the installation is determined by the following components thereof:

Damper assembly

It is a standard module with a built-in damper, fabricated from aluminum anode-plated shapes, which can be used as a shut-off or regulating device depending on the drive installed. The working range of temperatures is -40°C - +80°C, permissible differential pressure 1400 Pa.

Filter assembly

It is a standard module with a filtering material selected to meet the requirements to air treatment. Pocket elements of EU3, EU6 or EU7; EU8 classes are offered as filtering elements. 500 and 2000 Pa filter soiling sensors are offered as accessories

Mixing assemblies

Such units are offered if it is necessary to implement the air treatment technique with recirculation.

Moistening assemblies

The steam tubular moistener is used as a moistening assembly.

Ventilator unit

Centrifugal ventilators with blades bent forward or backward.
External electric motors with belt transmission.
Three-phase squirrel-cage sealed motors. Protection class IP54.
Two-speed motors with two independent windings or with windings connected according to the Dalander's circuit.

Noise damper assembly

It is a standard module with noise suppressing plates 200 mm thick. The plates are fabricated from mineral wool coated with washable fabrics.

Heat exchangers for air heating

Heat exchangers for hot water:
T_{max}=150 °C, P_{max}=1,6 MPa;
Heat exchangers for overheated steam:
T_{max}=185°C, P_{max}=1 MPa.
380-400 V electric air heaters

Heat exchangers for air cooling

Heat exchangers, operating on cooled water prepared in chilling plants. Maximal working pressure 2.2 MPa

Recuperator

To meet the requirements of energy saving techniques heat recuperation module with rotor recuperator and a module for utilization of heat of exhausted air operating according to the principle of the so called “heat pump” are offered.

