

General Specification for the **HRU** Range of Recuperator Units

GENERAL SPECIFICATIONS

The HRU series heat recovery units are available in 7 different models, with a nominal air capacity ranging from 0.02 m³/h to 1.67 m³/h. They have been designed specifically to solve the problem of the excessive energy consumption of all industrial plants operating with the use of external air. It is possible, due to the high efficiency of the plate heat exchanger, to recuperate over 50 % of the energy that would normally be lost.

The HRU units may be integrated with traditional systems, comprising of fans, air conditioners and radiators. This allows the possibility to utilize the apparatus both in the summer and winter seasons. The HRU units are particularly suitable for false ceiling installation, and may be suitably ducted to allow air delivery and suction directly into the area.

UNIT CONSTRUCTION

- The unit casing is fabricated from single or double skin panels.
- Each unit has polyethylene and polyester thermal and acoustic insulation.
- The thickness of the insulation changes depending on the model.
- The panels are fixed to the structure with cadmium plated steel screws.
- All the internal components are easily accessible for inspection.
- When necessary, internal components are easily replaceable from below.

FAN

The fan section is fitted with a forward curved centrifugal fan (single inlet for the 03 model, double inlet for the rest of the range), it is mounted on anti vibration mounts, allowing the unit to operate at the maximum speed with lowest possible noise level. The electric motor, directly coupled with the fan, is a 230V / 50Hz single phase type, with one or more speed settings that may be regulated from the control panel.

HEAT RECOVERY

The heat recuperator is a high efficiency static type, with cross airflow. The heat exchanger plates are made of aluminium, and the airflow is kept separate by the utilization of special seals. The heat recuperator is dimensioned in such a way to enable a high degree of thermal efficiency in any condition. Underneath the recuperator, a stainless steel condensation collection tray with a circular drainage pipe is positioned.

AIR FILTER

The filters are of the flat cell corrugated type, with class G3 synthetic fibre filtering material (efficiency 85% - EU3), which can be easily removed and replaced.

ACCESSORIES

Hot water coil • Electric heater • Regulation damper • Speed Control • Control Panel

MODEL: HRU	1	2	3	4	5	6	7	8	9	10
A - Length (mm)	990	990	1150	1350	1450	1700	1700	1700	1700	1900
B - Width (mm)	750	750	860	900	900	1230	1230	1230	1350	1450
C - Height (mm)	270	270	385	410	470	490	530	630	705	755
Air Volume (m ³ /s)	0.02/0.08	0.04/0.14	0.17/0.26	0.24/39	0.28/0.53	0.3/0.69	0.5/0.89	0.83/1.11	1.11/1.39	1.39/1.67



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