IDEA

I-HRS
HEAT RECOVERY SYSTEM

of the units to create complete offers (it is required that I-COILS has the feature to calculate the price).

This program is supplied without limitation of licenses and all users are managed by the Client. Web User Management is available and can be customized on Client's request in order to fulfill the needs of current market approach (agents, customers, access, etc.).

A merge between I-COILS and I-HRS can be made, in order that the user uses same offers and customer's data as well as user credentials for both software solutions. In that case, an offer, which consists of HRS and separate calculated coils, can be made. If merged, User Management would be updated to limit the access to one or both software solutions for the same user.

WHY TO USE HEAT RECOVERY SYSTEMS?

Today's regulations are concerned about energy saving more than ever. Our Software can have specific calculations to support those demands, like the **Energetic Analysis**, integration of **Adiabatic Systems,** requirements for **Eurovent** (ESSER, SEER, SCOP), or **Part Load** calculation etc.

About the classification read more on our web page under the Products section.

To cover the demands for energy saving and to be more competitive, producers are offering systems which are working in parallel, where the bigger advantage is to use NOT NEEDED heat energy from the exhaust (outlet air) of one unit, as INLET (inlet air) for another unit. This approach is drastically lowering the energy consumption and as result the unit operation costs.

Depending on the needs, benefits and disadvantages, more systems can be used for the heat recovery. Those are:

- **HRS (coils)**,
- Cross or counter flow plate heat exchangers,
- Rotary heat exchangers.

Our Software is used for the HRS calculation.

I-HRS (HEAT RECOVERY SYSTEMS)

I-HRS is a calculation package for Heat Recovery Systems. The program works using the same dll for coils calculation software I-COILS. In the process of selection, conditions of inlet/outlet air, the requested power, the efficiency of the system and the geometries and dimensions of each coil in the system will be set up.

The user has the possibility to add n number of air handling units for heating or cooling, as well as n number of coils for each of the air handling units. Each coil can be additionally customized in order to have different materials, row numbers, geometry, fin spacing, or other specific data. With this approach, all market requests can be easily managed.

The software uses standard calculation proceedings of exchangers already included in the customer's programs which have participated in the EUROVENT program. The selection can be saved as an offer and opened again to allow modification and printing. The printing report includes the geometrical features and principal thermodynamic parameters from the calculation.

The database connected to the application includes prices