



FORGET HUMIDITY FOR EVER!



EU STANDARDS

The equipment comply to all of the applicable EU directives and regulations.



MADE IN EUROPE

All components made exclusively by European manufacturers.



VAST EXPERIENCE

Practical experience in the desiccant dehumidification more than 15 years.



CASE OF STUDY

ICE RINK DEHUMIDIFICATION AND VENTILATION

/DA-10000

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Task

At design engineering of air handling system of ice rink Vympel in Korolev (Russia) the project engineers faced a problem of necessary air parameters provision in ice court zone (7-12°C, 40-50% RH). It turned out to be very cash-consuming and technically groundless to provide these parameters by the method of humidity condensation. It is also not realistic to achieve so low humidity at such temperatures by condensation.

Solution

Finally, together with engineers of DT Group, there was made a decision to use desiccant dehumidification method as the only right way out of a situation. Furthermore after the project on ventilation was revised, the decision to combine ventilation and dehumidification in one unit was made. As result special air handling unit with desiccant dehumidification named DA-10000 appeared, consisting the functions of heating, cooling, drying and adjusting return air mixing ratio. For electricity saving the combined reactivation of an desiccant rotor was implemented (water heating to 60°C and electric heating to 90-100°C).

This installation simultaneously provides maintaining of required humidity in a zone of ice rink and also the CO₂ level. The installation is fully autonomous. It is factory equipped with controls system with all necessary field sensors, dampers, actuators, valves, and so on. This project has started successfully and provides excellent quality of ice and comfort.

Distinguishing features of the installation

- Provides excellent comfort and quality of the ice;
- Air handling unit with inbuilt desiccant dehumidifier (2 in 1);
- Combined (water + electricity) regeneration for operation cost saving;
- CO₂ level control.



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