

HELIO

HEATING

HEATED GLASS



owned by



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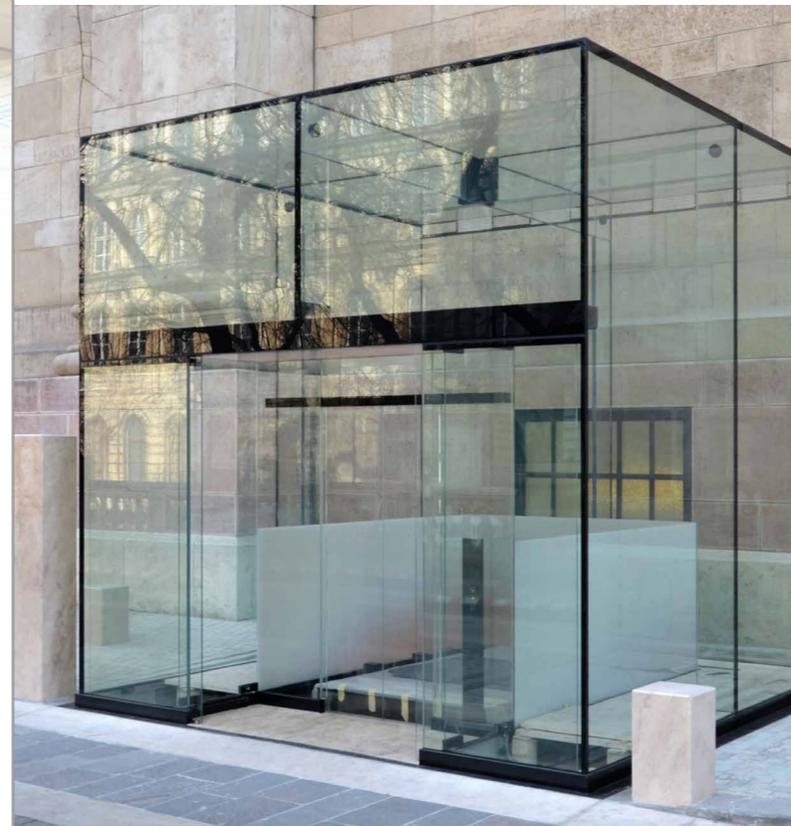
The advantages of heated glass

- economic operation, favorable pricing
- energy efficient
(thanks to the heat mirror coating)
- available in **flat and curved panels** alike
- user friendly
- safe and effective
- multiple control mechanisms available
- healthy, clean, dust-free
- aesthetic
- noiseless
- may be combine with solar panels
- may be used as primary or supplemental heating, for dehumidification or for the melting of snow

The operational principle of heated glass

In all cases, the heated glass structure developed by **Rákosy-Glass Kft.** is composed of multiple – at least two – tempered or heat-strengthened layers of safety glass, in which we laminate the internal, heated layer. The heating layer is a metal conductor surface (coating), administered through nanotechnology, which generates heat due to its resistance to electric current.

In all cases, this coating is located in the interior of the laminated glass layer that is closest to the interior of the space. **Maximum size: 2400 x 4700 mm**



Potential uses

The primary function of heated glass is as a heating solution for buildings, with its supplemental function – providing a sense of comfort – being dehumidification and the melting of snow. The heated glass panels possess **IP44 ingress protection rating**, thus they can be employed in wet rooms as well. It may be utilized in private homes, public buildings, in the protection of historical monuments, and all under sterile conditions. The heated glass can appear in many guises. It may become...

- heated insulated glass
(glass wall, window or door, glass roofing...)
- heated glass as an internal separator
- heated glass railing
- decorated heated glass
(design heated panels with or without casing)
- heated kitchen rear wall

Environmental awareness – technological progress for sustainable development

Combined with a smart control system, the innovative heated glass of **Rákosy-Glass Kft.** offers unparalleled user experience; in addition to the favorable cost of acquisition, its operation is very economical. In contrast with traditional heating solutions, one can obtain a comfortable temperature with air that is heated to around 19–20°C, due to the unique nature of the heating solution.

There is a heat mirror coated glass surface within the heat insulation mechanism, thanks to which the majority of the produced heat is directed indoors.

Previously, most of the energy was dissipated on the glass surfaces, but in the present, due to technological progress, this has changed – depending on its structure, the thermal insulation value of our heating thermal insulation glass panels can reach as much as 0,7 W/m²K. This is why heated glass is a long-term, sustainable, environmentally aware heating solution.



Healthy heating

Heated glass delivers the majority of the heat in the form of radiant heat, which has exceptional benefits from a life sciences perspective, also ensuring a sense of comfort at a lower temperature. There is no convection, thus there is no dust wafting in the air, either. The operation of heated glass is noiseless.

Design and comfort

Thanks to continuous research and development at **Rákosy-Glass Kft.**, heated glass is more transparent than ever. Not even a minute deviation from traditional glass can be detected on the perfectly transparent glass surfaces, thus they can be employed as excellent large sized windows and glass panels as well. In the case of large glass wall surfaces, the development of an aesthetic heating system can be a problem – this is what Helio Heating offers a modern and economical solution for. **Our heated glass panels are available in flat and curved versions alike.**

Customized smart controls

In the interest of achieving the highest level of user experience, we developed our unique smart control system to go with our heated glass; through this system, the heating of buildings can be taken care of while paying attention to energy and cost efficiency considerations. The installation of the control system is simultaneous with the installation of the glass heating elements. Following a simple calibration, controlling the glass surfaces takes place on an online interface or mobile phone application, in accordance with the user's requirements. For smaller projects, we offer a simple control solution.

Heated glass with BASIC controls

Our Basic Package enables the user to manage glass heating on a basic level. We recommend it for smaller projects (e.g. private home), where control is undertaken with a simple room thermostat. Favorable price, simple operation. With this package, within the range of the local WIFI, control is exercised through the smart devices by assigning the glass panels into groups.

Heated glass with EXPERT controls

Efficient power distribution within the building, combined with smart controls – this is the Expert Package. By grouping the glass surfaces within WIFI range, the controls are able to manage the heated glass through various smart devices, or with the aid of simple thermostats. The control unit distributes available power among the glass panels.

Quick and simple needs assessment

To simplify technical coordination, we provide our customers a needs assessment form, through which we can work together easily and efficiently. Even before filling out the form – and afterwards – we provide constant technical support by phone, online, and in person alike, in order to minimize your to-do list in connection with your installation.



customized
SOLUTIONS

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