The Genius of Heating Glass

Windows. Windows are without a doubt one of the most taken for granted products of everyday living…that is until one is broken! The reality is that we have passively accepted second best. Why? Probably because that was all that was offered to us. Just sit next to any window you can find on a cold day. Do you feel the cold run up your spine? That’s what normal windows subject you to – cold drafts and chill. Doctors even attribute these cold drafts and surface chill to many common ailments such as headaches, neck and shoulder tension, and arthritis. Scary what they don’t tell us - isn’t it?

IQ glass has changed the way you’ll feel about your glass. Trust us.

IQ glass defined.
IQ Glass is the technological breakthrough of the 21st century. Awed and accoladed for the last decade in Europe, 2004 proudly unveils one of Europe’s best-kept secrets in the United States of America.

It is no wonder Americans have been seeking refuge in Europe when desiring the utmost in luxury and quality. Now we can have all that and more in our very own homes, conservatories, indoor pools, businesses, and aquariums thanks to the revolutionary IQ Glass®.

IQ Glass has transformed the cold surface of the glass itself into a source of heating. That’s right, heating. In fact, your windows can now be used as the sole heating source for your entire home. It’s no joke. It’s intelligent glass. IQ Glass.

IG glass uses the electricity in your home to produce radiant heat to warm you.

Revolutionary. Luxurious. Defying. IQ Glass stands alone in its class.

Connected to the electrical wiring concealed within the walls of the building and frame of the window, IQ Glass heats your room with radiant heat - a healthy, sumptuous heat comparable to that of the sun, minus UV rays.

IQ Glass can be incorporated wherever your imagination places it – in windows, doors, ceilings, walls, aquariums…the sky’s the limit. The temperature is controlled through your very own thermostat, with other options available as well. There are a variety of glass and accompanying features available, all looking just like the glass you know – one would never guess the extraordinary abilities concealed within. Can you recall the feeling you get when you enter your car on a cool, sunny day and your entire body feels deliciously warm? This is what IQ Glass® does since the product warms you before the air around you. IQ Glass® as a heating source stands alone in its class – other entities worldwide have tried to duplicate our glass and have remained unsuccessful.

If we do say so ourselves, our glass is a technological miracle.
That’s why we like to refer to it as intelligent glass. IQ Glass will heat your structure with a healthy, uniform, and succulent warmth, never before attainable for the indoors. Coupled with thermal insulation from out of this world, you can finally live without cold drafts and uncomfortable chill. As if it couldn’t get better, IQ Glass prevents any condensation whatsoever, can serve as an anti-theft, bullet-proof system; is energy
efficient and environmentally friendly; reduces dust build-up and circulation; and can actually improve your health.

IQ Glass consists of a double paned unit of glass that looks like your typical run-of-the-mill glass. Yet, the magic concealed within is anything but ordinary:
The inner pane of IQ Glass has a metal oxide coating so thin, it is invisible to the naked eye. Don’t be fooled by its size. Good things do come in small packages. This coating actually creates an electrical resistance that disperses heat equally. Compare this to central heat and air which simply centralizes air, heats it, and blows it and the rest of the dust and allergen in your home in a relentless dance of germs. All this and you still do not have uniform heat. – You must endure pockets of cold and warm air. With IQ Glass, every inch of air, be it near the ceiling or all the way down to the floor with be warm. If you ask us, there is no comparison. IQ Glass is the only solution.

The outer pane has another invisible coating which reflects the heat inside, while blocking the cold outside. During the hot, summer months, this pane repels the blazing heat and UV rays away from your home. That’s comfort for every day of the year, winter and summer.

A non-toxic, insulating gas is placed between the panes, achieving an amazing level of thermal insulation, currently unmatched in the industry. This means no more cold drafts slipping through your window crevices.

Both pieces of IQ Glass consist of tempered glass (also known as safety glass) 5 times stronger than normal glass. In the event that your glass is broken, it will fracture into distinct fragments, immediately rupturing the glass’ electrical activity and protecting you and your loved ones from any harm.

The outer windowpane of IQ Glass can be connected to your home security system creating an invisible, protective shield for your home. In the event of a burglary, the breaking of the first pane of glass triggers your alarm, notifying you and the police before the burglars have the opportunity to enter. And don’t forget, once the first piece of glass is pierced, the burglars will still have to break through another piece of glass 5 times stronger than normal glass.

**The U-values speak for themselves:**
The following comparisons of U-values (insulation values) clearly reveal that IQ Glass is an uncategorical milestone in the history of glass.

- Single glass: 1.05 (imperial) or 6.0 (international)
- Double-paned glass: .53 (imperial) or 3.0 (international)
- HP glass: .25 (imperial) or 1.4 (international)
- **IQ Glass:** .14 (imperial) 0.8 (international)

**What does this mean in layman’s terms?**
Very little energy is needed to be reached a keep and maintain a room at a comfortable temperature. For the first time ever, you can even sit right next to your window on a chilly day and feel complete comfort.

CEBTP, a renowned scientific control institute in France, conducted a thermal research study comparing a greenhouse heated with the traditional convection system to a greenhouse heated with IQ Glass. In identical climatological circumstances, CEBTP observed
that with the convection-heated greenhouse, the air had to be heated to 77° F for the occupant to experience a sensation of warmth approximating 68° F.

With IQ Glass, air temperatures of only 64° F provided a sensation of warmth of 73°. In effect, IQ Glass provided a feeling of 9° F more warmth with 9° less energy.

**Benefits of IQ Glass.**

- **Unequivocal/ unmatched comfort.** The feeling is similar to the feeling you get when you get into your car on a sunny, yet chilly day: deliciously warm. You will begin feeling the warm sensation within minutes of turning your system on. No need to wait for forced air from a conventional heating system to fill the room. No more disturbing, dusty air circulation. No more dry skin and chapped lips. No more cold drafts. Just blissful comfort. Better than your favorite blankey.

- **Warms you, not the air around you.** Thanks to radiant heat, you feel warm when your household thermostat is set as low as 60°F – much the same way a skier skiing at high altitudes feels warm in lightweight clothing even when the temperature is freezing. And since radiant heat warms you and not the air around you, you will feel the exact same comfortable warmth whether you are upstairs or lying on the floor.

- **Provides immediate gratification.** With IQ Glass you will feel the even warmth within minutes of turning your system on. This is not a false sense of warmth created by convection currents – a warmed air being blown your way, accompanied its by-products of dust and allergens. With IQ Glass heating systems, you are getting a warmth matched only by the sun itself.

- **Healthy.** IQ Glass reduces the severity of a number of health problems associated with convection heating systems and typical window frames. According to doctors, cold drafts emitted from typical windows are often the culprit for your headaches, neck pains, shoulder pains, and arthritis. IQ Glass eliminates these problems, because it eliminates the poorly insulated crevices and cold drafts that they release. And because the absence of convection currents drastically decreases the amount of dust circulating in the air, IQ Glass greatly alleviates allergy and asthma symptoms. Art enthusiasts alike maintain their allegiance to IQ Glass for its minimization of dust. Finally, IQ Glass filters harmful ultraviolet light, enabling you to enjoy the sun’s light and heat without subjecting yourself to its harmful effects.

- **Non-polluting, environmentally friendly.** Heating windows means no toxic fumes or chemicals are being released into the environment, and since you will be able to keep your thermostat at much lower temperatures to achieve cozy warmth, you will be conserving precious energy. If you prefer a complete environmentally sound heating method, your glass can be hooked up to solar panels.

- **Energy efficient.** Studies show IQ Glass uses 30-35% less energy than other heating systems. Room temperature settings 9° lower than you typically rely on can be used to obtain the same comfort-level. Temperatures of 60 to 64 degrees Fahrenheit are quite sufficient to give you an agreeable, warm feeling. You can compare this to the skier at a high altitude that maintains a comfortable temperature wearing only a thin layer of clothing – even when the temperature is near freezing. IQ Glass becomes especially efficient where there are high ceilings…

- **Cost efficient.** Lower-required-temperatures mean less energy consumption and lower utility bills.
• **100% condensation free.** IQ Glass completely eliminates condensation – a major benefit for rooms that are typically subject to moisture damage: bathrooms, kitchens, and indoor swimming pools.

• **Secure.** IQ Glass consists of a double pane structure. The outer pane can be connected to your home security system, triggering the alarm before the second layer of glass is even broken. Furthermore, IQ Glass is 5x stronger than typical glass.

• **Safe.** IQ Glass is made of tempered glass, also known as safety glass. The electrical components are out of sight and completely unreachable for manipulation. In the event your glass breaks, it will fracture into distinct fragments, immediately interrupting the coating’s electrical activity. Furthermore, the surface of the window will never become hotter than your body temperature, making it 100% safe to the touch.

• **Filters harmful ultraviolet rays.** Protects furniture, rugs, and paintings within the confines of your windows from fading.

• **Blocks out sun's heat during hottest months.** IQ Glass works year-round. You receive optimal performance and results in both winter and summer.

• **Maintenance-free.** No filters to change or parts to update.

• **Soundproof.**

• **Aesthetically satiating.** With IQ Glass, designers and architects can play limitlessly with light and space. Large glass surfaces become a genuine ally. Possibilities are unlimited. Whether you desire a classic or more modern look, IQ Glass is the perfect solution.
  
  o **Typical looking glass.** You’d never guess the magic hidden within. Base model comes in a clear glass; solar glass also available.
  
  o **Invisible wiring.** Electrical cables are never visible, never detracting from the beauty of your interior. All wires are concealed within the walls and window frame of your structure.
  
  o **Space-saver.** Eliminate bulky heating systems.
  
  o **Space-creator.** The elimination of bulky heating systems equal more living space. Convert conservatories, sunrooms and porches seldom inhabited in the winter months into coveted parts of your home year round. Even in winter, you will be able to sit in these areas enjoying a complete, cozy bliss. Become one with nature in the confines of your very own home.

• **Perfect as sole or supplemental heating source.** IQ Glass as a sole heating source is not a requirement to reap its benefits. We work with you on an individual basis in order to determine the optimal combination of products for your needs. If you do choose to use IQ Glass as your sole heating system, an important thumb rule is that approximately 1/3 of the room surface needs to have heating glass to ensure optimal performance. A heat-loss calculation is made to ensure such performance.

• **No drafts from convection currents.**

• **No dust circulation.**

• **No dry skin and chapped lips.**

• **Protects rugs and furniture within the confines of your windows.**

• **Improves property value.**
- Maintains uniform temperature throughout the room.
- **Autonomous Room Regulation.** Each IQ Glass system consists of electrical control units (maximum power for each individual system is 23w/ft²), the temperature of which can be set independently for each room. Air temperature is regulated by a programmable clock thermostat, and the surface temperature of the glass can be regulated by a microprocessor.
- **Suitable for both new construction and retrofitting.**
- **.14 U-value.** That’s the best available in the business.
- **Less energy consumption**
- **Low solar heat gain**
- **71% light transmission (versus ___ in typical windows)**
- **Higher comfort at a lower temperature.**
- Guaranteed.

**Features you can add to your IQ Glass:**
- Anti-theft. Can be hooked up to an alarm system.
- Bullet-proofing
- Sound-proofing
- Sun blocking
- Privacy: your glass can become opaque with the flip of a switch.
- Regulate your glass temperature with a microprocessor, in lieu of a thermostat, which sends electrical impulses to glass to maintain a more-consistent temperature. This is more efficient since you aren’t requiring as much energy to heat the glass back up.

**Where can I use IQ Glass?**
Wherever you envision IQ Glass, you can have it. The only limitation is size: the smallest size available is ---. IQ Glass is an energy-efficient solution for residences, office buildings, swimming pools, sunrooms and conservatories, villas, restaurants, hotels, or special industrial applications. Since IQ Glass completely eliminates condensation, we are a favorite in swimming pools, coffee shops, and aquariums, where typically contrasting temperatures would create a blinding amount of condensation. Ever been to an aquarium where you couldn’t even see the fish from all the bubbles and haze? With IQ Glass this is a problem of the past.
In short, anywhere you have glass; IQ Glass is the only solution. Anywhere architecture plays a crucial role, IQ Glass is the only aesthetic solution.

Let’s take a look at some of the typical applications:

**Windows of a home or business**

![Windows of a home or business](image)
IQ Glass has numerous advantages for your residence or office: Energy efficiency and improved insulation. A maintenance-free system. Reduction of dust circulation (a must if you suffer from asthma or allergies). Sumptuous comfort and warmth.

Installation throughout your home or office is not a pre-requisite to reap the benefits of IQ Glass. You can heat rooms or spaces individually. We will work with you on an individual basis, analyzing your particular space or project, ensuring the best fit for your needs.

**Conservatories/sunrooms**

With IQ Glass, structures such as these that receive inadequate use in the winter can become a part of your home year round. Become one with nature. Enjoy a peaceful breakfast beside your snow-filled yard, completely insulated from the cold by the warmth of your IQ Glass.

**Indoor Swimming Pools**

A problem until now, a comfortable temperature in an indoor swimming pool produces approximately 70% humidity. What does this typically equate in outside, colder temperatures? Unsightly condensation on your glass, unhealthy room conditions, and damage to your structure…

With IQ Glass, your intelligent glass, your glass stays 100% condensation-free, even with blizzard-cold temperatures (*do we have numbers to add here?*), or a relative humidity of even ---

What’s more, the heat produced by your IQ Glass will create a cozy, comfortable temperature for swimmers getting in and out of the pool.

**Storefront business windows**
Aquariums

Refrigerator doors

Long a staple in Europe, IQ Glass is a product that once experienced, will make you wonder how you ever survived without it. In fact, when speaking recently with a customer in Belgium, he shared:

“I thank God every day that he introduced me to Pierre (IQ Glass' founding father, Pierre Glorieux ).”

As another satisfied customer, you will soon be able to attest for yourself.