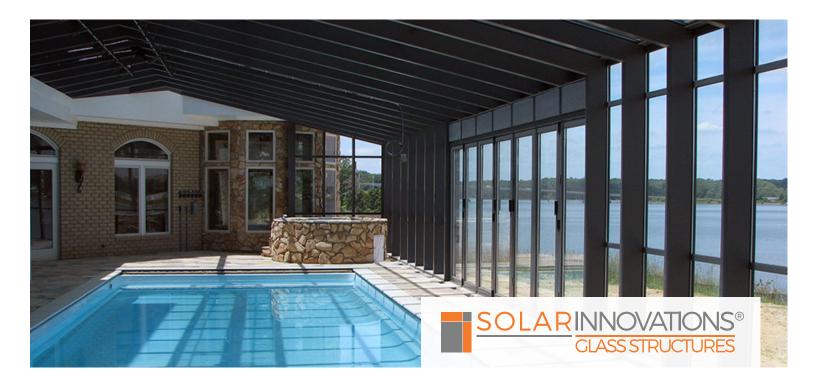# POOL & SPA ENCLOSURE OPTIONS

DECORATIVE

- Cast aluminum ridge cresting & finials
- Decorative extruded trims, grids, moldings, & gutters

ENVIRONMENT

- Heaters (propane, natural gas, or electric)
- Circulation fans
- Dehumidification systems
- Automated control systems
- Shades (motorized or manual, interior or exterior)

ENTRY

- 3'-0 x 6'-8' Residential (up to 4' x 10' based on engineering requirements) or 3'-0 x 7'-0 Commercial doors
- 5'-0/6'-0 x 6'-8' Residential or 6'-0 x 7'-0 Commercial French doors
- 6'-0 x 6'-8' Residential or 6'-0 x 7'-0 Commercial swing doors
- 5'-0/6'-0 x 6'-8' Residential or 6'-0 x 7'-0 Commercial double doors (panic hardware available)
- 5'-0/6'-0 x 6'-8' Residential sliding and folding doors
- 12'-0 x 6'-8' OXXO sliding and folding doors
- 3'-0 x 6'-8' combination storm screens doors
- 3'-0 x 6'-8' full view storm doors
- Multiple bay sliding doors and window
- Custom screen doors available (folding, dual track sliding, multi-track sliding, and fixed)
- Custom sizes available in all product offerings

VENTILATION

- Casement windows with crank operator
- Awning windows (slide bar or crank operator)
- Sliding & folding windows
- Tilt-Turn windows
- Ridge & eave vents (motorized or manual)
- Motorized intake & exhaust fans
- Retractable glass or polycarbonate skylight panels (up to 9' x 9' per panel)

POOL & SPA ENCLOSURES

RESIDENCE
BETHLEHEM, PA

Design Considerations

Building Materials
When adding a pool enclosure, many important factors must be considered. First and foremost, the attachment materials must be reviewed. Maintaining easy access to the pool by attaching the enclosure to the home or business is a wise choice; however convenient as this may be, there are certain measures that must be taken to ensure the long term success of the structure in this application. The main structure's wall, which will be exposed to the pool environment, should not be drywall. Due to the high humidity and the potential for water to come in direct contact with the wall, materials such as marble, brick, stone, and cement blocks are better selections since they can be water-sealed. When walls are sealed, mold and fungus cannot inhabit the material or develop behind them. Sealed walls create a safer environment for the occupants of the main structure and the new enclosure.

Environmentally Appropriate Décor
It can be common with any pool enclosure for moisture to build-up in the air. If the air becomes saturated, moisture can cover windows and cause damage to interior décor and furniture. For this reason, it is important to ensure all poolside furniture selections, storage containers, and any other items in the room are safe for the high humidity and water exposure. Outdoor materials such as vinyl and natural stone will not rust or rot, and can be safely utilized for the enclosure. Outdoor lighting with enclosed bulbs, flooring with slip resistant traction, and water tight storage containers are all good choices to consider when designing the interior of the pool enclosure.

Environmental Control Systems
To minimize humidity and create a more comfortable atmosphere, an environmental control system including dehumidification options is recommended. This system can control the entire environment automatically including ridge and eave vents for air circulation, and heating/cooling systems. Dehumidifiers create a more enjoyable environment within the pool enclosure. A dehumidification system can both cool and heat the air inside the enclosure as well as alter the water temperature. By controlling the moisture in the environment, the ability for mold and fungus to develop will be greatly reduced.

If an environment for plants and pools is desired, Solar Innovations, Inc. can create a unique control system that will water the vegetation in addition to controlling the humidity, temperature, and air circulation. Solar Innovations, Inc. representatives will work with you to achieve the desired balance between interior temperature and humidity levels.