



HYDRONIC SHELL TECHNOLOGIES

A Modular Facade-Integrated HVAC System

Full Building Retrofit

- Zero \$ out-of-pocket
- Quick and Non-Invasive Install
- 90%+ Emissions Reduction
- Cleaner Air & Superior Comfort

Transforming Buildings for Better Living and a Net-Zero Future

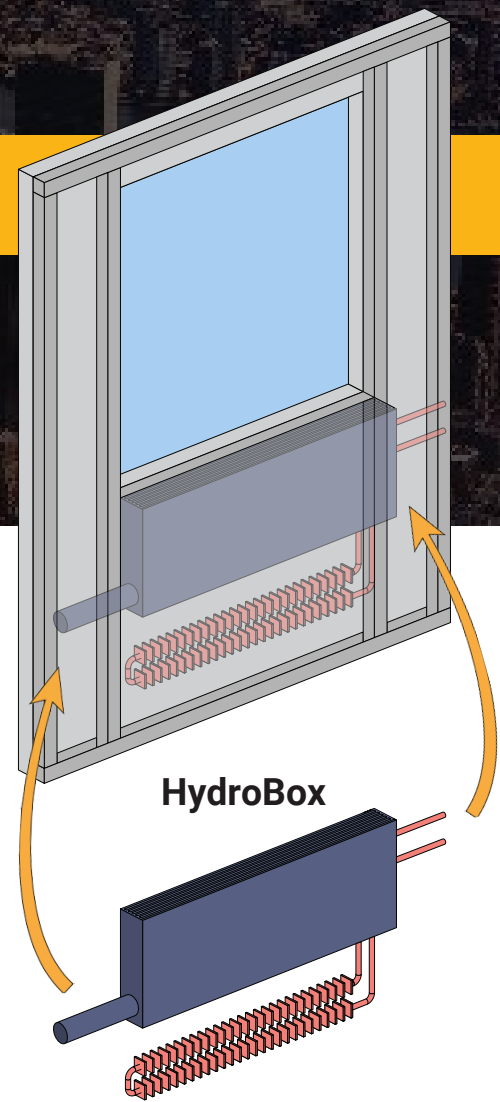
Integrated HydroBox

- Slim form factor
- Quiet Operation
- Easy Maintenance

A High-Performance Modular HVAC System Integrated Within a Super-Insulated Shell

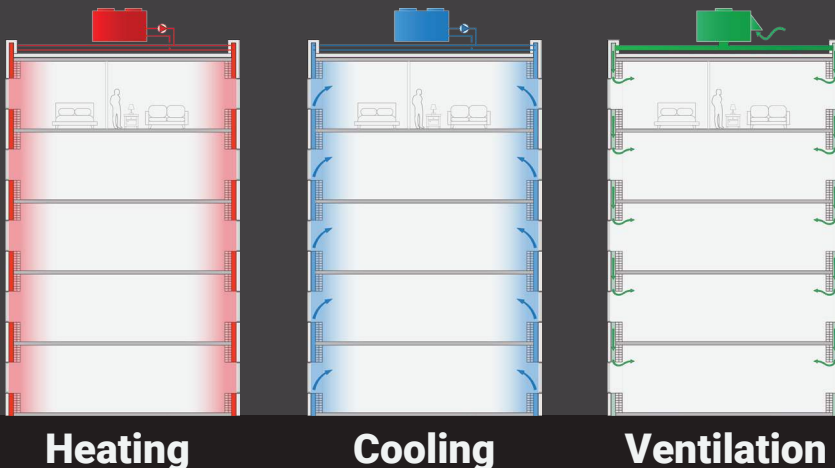
HVAC Reimagined

We're reinventing HVAC for the future of construction with an industrialized approach that leverages technology, prefabrication, and modular assembly to deliver better buildings at lower cost when applied to both retrofits and new construction.



US Patents: 11,415,328 & 11,767,990

Fully Integrated Facade & HVAC Building Wrap



- ✓ Superior Efficiency
- ✓ Health & Comfort
- ✓ Simple Operation
- ✓ Revitalized Appearance

Occupant Health & Thermal Comfort

Ample ventilation with fully conditioned outside air provides a dramatic improvement in indoor air quality while radiant heating and cooling provide superior thermal comfort. Whisper quiet operation and minimal maintenance requirements also contribute to the improved experience and quality of life for the building occupants.

Central Ventilation
provides filtered and conditioned fresh air

Heat Pumps
provide efficient heating and cooling

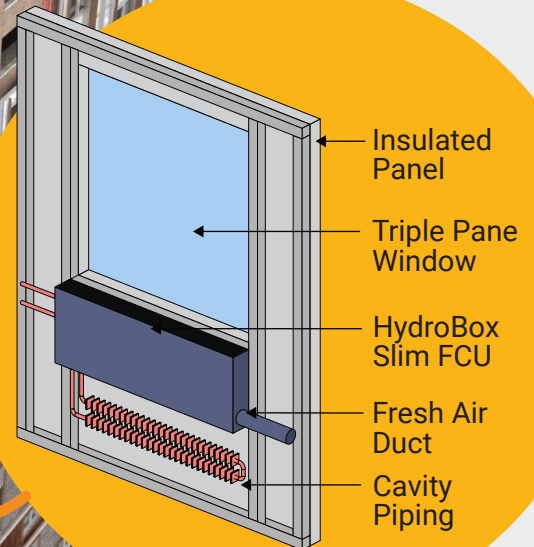
Piping
integrated into the facade distributes hot and chilled water to every room

Ductwork
integrated into the facade distributes fresh air to every room

New Insulated Facade revitalizes the building's appearance

Leveraging Technology

Technology plays a big role in making the entire process efficient, affordable, and scalable. It starts from the beginning of the project with digital scanning and analysis of the existing structure. That data is then carried through the design process, which then translates to the fabrication of the panels. Technology can also be embedded into the panels to include features such as smart controls, data collection and diagnostics, as well as integrated components such as photovoltaics and exterior lighting. All the cables and wiring for such features can be routed within the façade cavity.



Modular Panel
Prefabricated in a factory to reduce costs and installation time

Environmental Justice

Hydronic Shell is optimized for the large multifamily buildings often found in low- and middle-income communities that have traditionally suffered from systematic underinvestment and neglect.