

SolarWall® air heating systems produce substantial energy & economic benefits by:

- Displacing 20-50% of heating fuel consumption & corresponding GHG emissions
- Facilitating any level of LEED® certification by generating up to 10+ LEED® points
- Improving indoor air quality
- Helping clients fulfill a variety of renewable energy & CO₂ displacement objectives

SolarWall: Now honored as one of 80 of the best inventions, inventors and engineering feats of the past two centuries, along with Edison, Ford, the lightbulb and the Panama Canal, by the American Society of Mechanical Engineers (ASME).

Applications

- Manufacturing Buildings
- Industrial Buildings
- Office Buildings
- Multi-Residential
- Process Drying
- Municipal Facilities
- Hospitals & Schools
- Warehouses
- Agriculture
- Military
- Airports

SolarWall: Reduce Your Heating Costs

SolarWall® systems heat the ventilation or process air required in commercial and industrial buildings. They are building integrated and are very architecturally versatile. They can be styled, shaped, and designed in a variety of colors to augment the building envelope & generate on-site energy.

SolarWall systems require no maintenance and generate huge amounts of thermal energy over their 30+ year lifespan, making it a superstar technology in terms of its proven economic & environmental impact.

The SolarWall technology has been used globally for over 25+ years. Clients include: Ford, Toyota, Bombardier, 3M, Owens Corning, FedEx, Auchan, Wal-Mart, NASA, U.S. Military & municipalities around the world.



by **Conserval**

www.solarwall.com

How SolarWall Systems Work

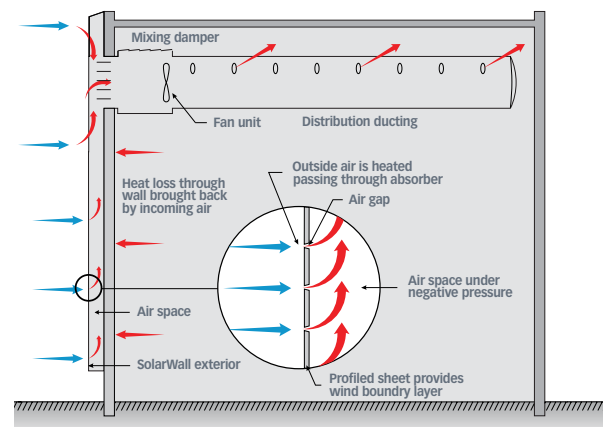
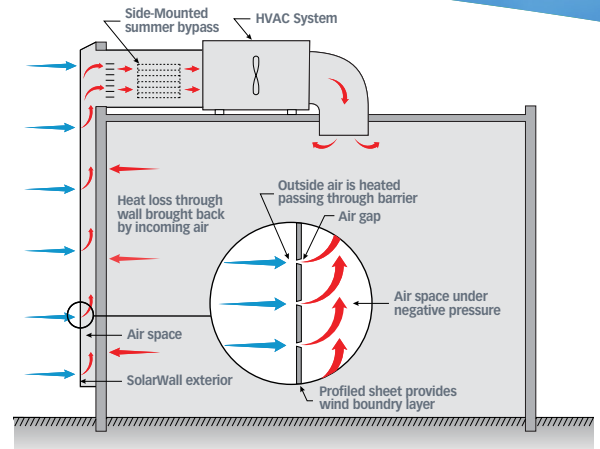
SolarWall systems produce up to 60 watts/ft² (600 watts/m²) of thermal energy (1.5-3.5 therms/ft² or 1.5-3.5 GJ/m² per year). When the sun warms the surface of the collector, the heated air is drawn through thousands of tiny perforations on the surface and ducted to the existing air intake. On a sunny day this air will be heated anywhere from 30-70°F (16-38°C) above ambient. The solar heated air is then distributed throughout the building via the conventional ventilation system or dedicated fans and ducting. The SolarWall technology heats fresh air, so it also improves indoor air quality.

Heating can typically be one of the largest energy expenditures in the building industry. The ability of a SolarWall® system to address this energy usage and to displace a sizable amount of it - and the resulting greenhouse gas emissions - explains why the technology has such a compelling return on investment.

Independent monitoring data indicates that SolarWall systems displace between 20-50% of heating fuel consumption, depending on size and application.

Other Features

- Destratification savings for industrial buildings
- Solar collector efficiency up to 80%
- Roof-mounted configuration with SolarDuct®
- PV/Thermal hybrid generation with SolarDuct® PV/T



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