

Smart Natural Ventilation Technology

Experts at Solving Heat w/ Free Charge & Maintenance



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Certification for 2014 Pittsburgh International Invention Contest Double Sliver Awards





About Us

Established in 1985, SAVCO is dedicated to "green energy, environmental protection, and energy conservation." Through innovative ventilation, cooling and energy-saving solutions.

SAVCOOL product line employs non-powered natural ventilation technology to effectively solve heat-related building issues, reduce energy consumption, and help user enhance operational efficiency in comfortable and efficient work environments for various building materials.

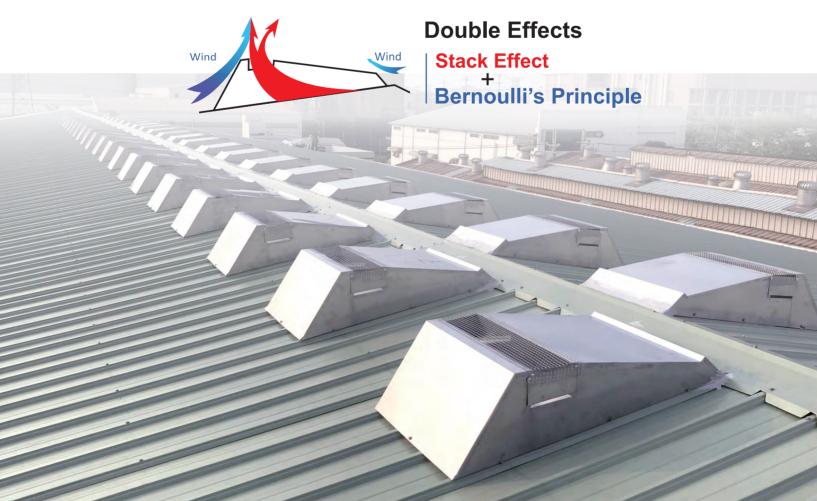


SAVCOOL Ventilator

Smart Natural Convection of Patent Ventilator

For Both Metal & Shingle Roof Usage





SAVCOOL Ventilator

Easy Install & Maintenance-Free

Simple to install, suitable for both residential and commercial buildings, no maintenance and no operate with its static design.

3 in 1 Functionality

Combines window, skylight, and ventilation features into one innovative solution.

5x Ventilation Efficiency

Delivers five times the ventilation efficiency compared to traditional ventilators, keeping your space cool and fresh.



Analysis for internal paths design

SAVCOOL Ventilator Upwards buoyancy & short paths

Upwards Buoyancy

The hot air is upwards buoyant.

Shorter internal path is the quickest way for exhausting heat and therefore the design of internal path would maximize the capacity of eruption.

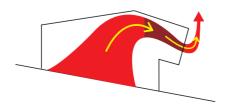




Other Ventilators

Downwards buoyancy & sharp turns

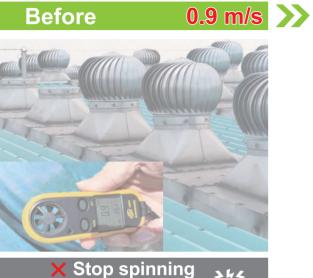
Too many internal sharp turns and downwards paths would slow down hot air to be exhausted out and therefore, the design of internal path would minimize the capacity of airflow.





SAVCOOL Ventilator

Turbine Vent vs. SAVCOOL Vent





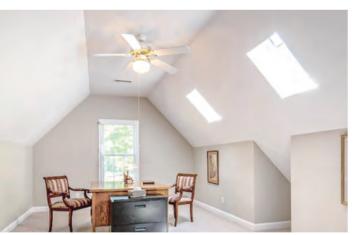






Embrace Natural Light & Enjoy Cozy Ambience

Maximum of Light Coverage





Optimizing your home or office with bright natural light. Expanding and brightening up your internal area.



SAVCOOL Airflow Tower Ventilation





Faster Heat Exhaust



Smoke Vents



Zero Carbon Emissions

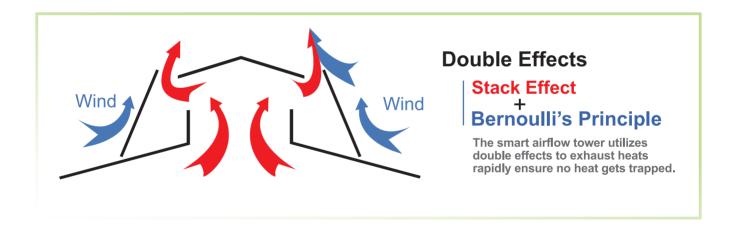


Free Power Driven

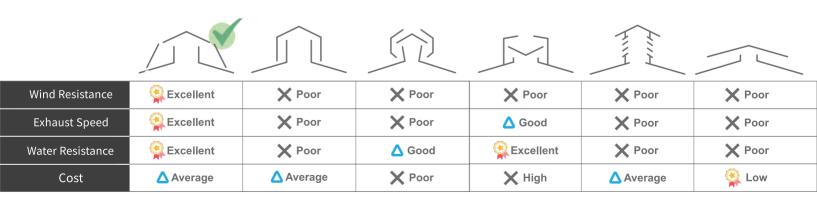


Free Maintenance

Maximum Efficiency of Convection



Comparison with Various Types



SAVCOOL Airflow Tower Ventilation

Analysis of Issues in Traditional Airflow Towers

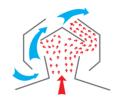
Crosswind Effect

Cold wind (high density) could block inside hot air from exhausting out. Hot Air (low density) is stagnant and difficult to move around.





If the side-wind effect is strong enough, it would prevent inside hot air from venting out and the efficiency of heat exhaust would decrease.

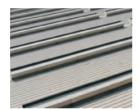




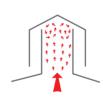
Meandering Flow Path

The design for too many internal sharp turns can cause the efficiency of heat exhaust to be slows down.





Although this can block rain from entering, it can also block heat exhaust.





Cases Study



Wind Power System Ventilation





Air Convection



Carbon Free





Rain/Wind Resistance







Conserve Energy

Energy saving up to 42%

Energy Saving of Friendly Environment

Problem

The lab requires constant temperature of 61°F to implement high standard certification for TAF \ UL and TUV.



Result

After installation, the temperature dropped by 11 °F and electricity cost during summer time were reduced about 42%

Month	Electricity Bill	Electricity Saving
May-Jun	USD 4,000	None
Jul-Aug	USD 2,700	USD 1,300
Sep-Oct	USD 2,300	USD 400
Ratio of Electricity Saving		42%

Conditional Requirement: Air conditioning is on 24/7 all year round with window shut.

From Ventilation to Power

Integrating efficient heat exhaust with solar energy for a fully upgraded roof.

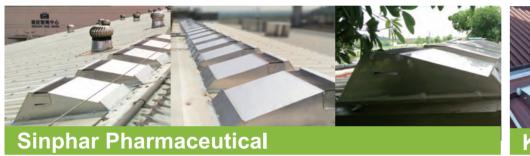




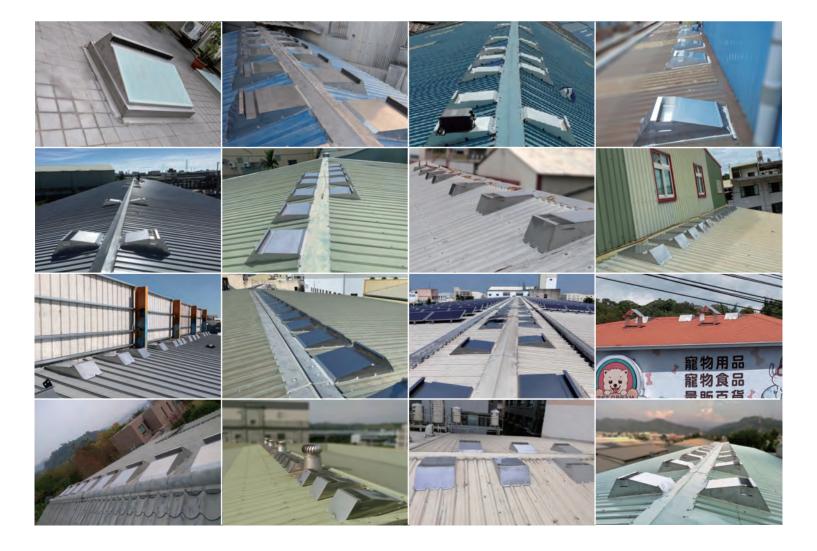


Cases Study

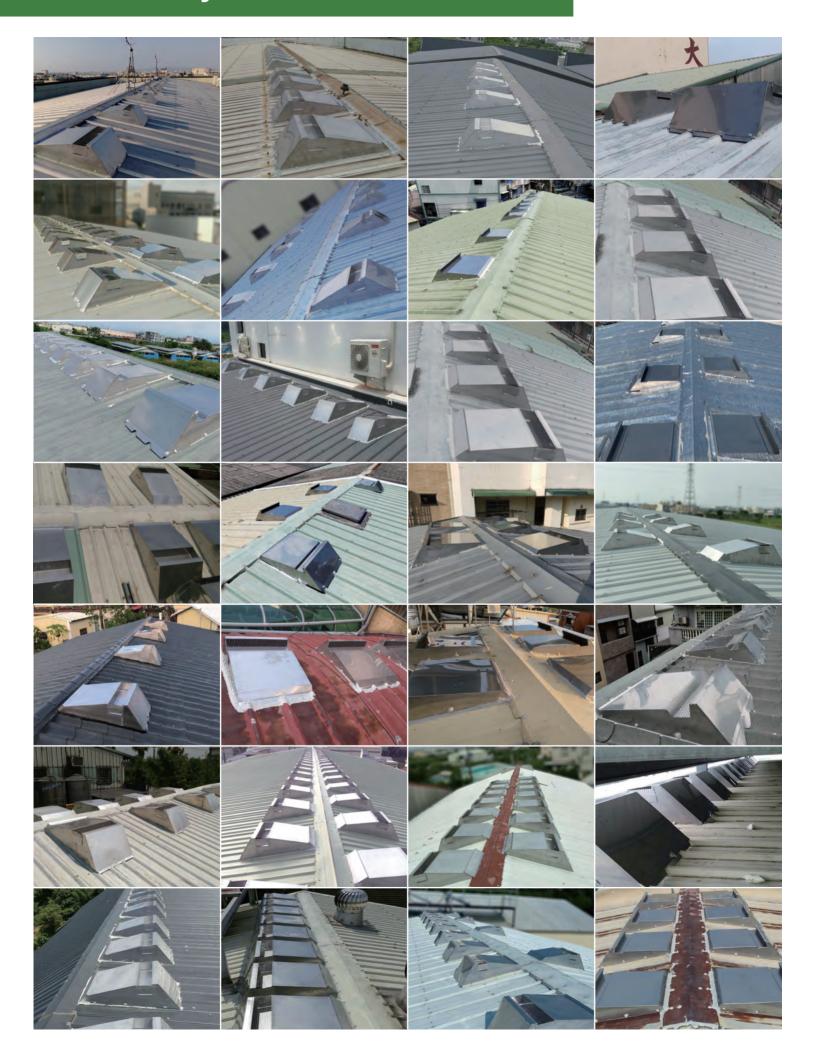








Cases Study







Carbon Free



Free Power Driven



Rain Protection

Efficiency Boost

Sustainable Ecology

Linked in



SAVCO Link





SAVCO Corporation

80, Kwang Jeng Rd., Dail 41278, Taichung, Taiwan

T:886.4.2491.5555 / 6666 www.savco.biz F:886.4.2491.7777

savco@savco.biz / savco.savco@msa.hinet.net