

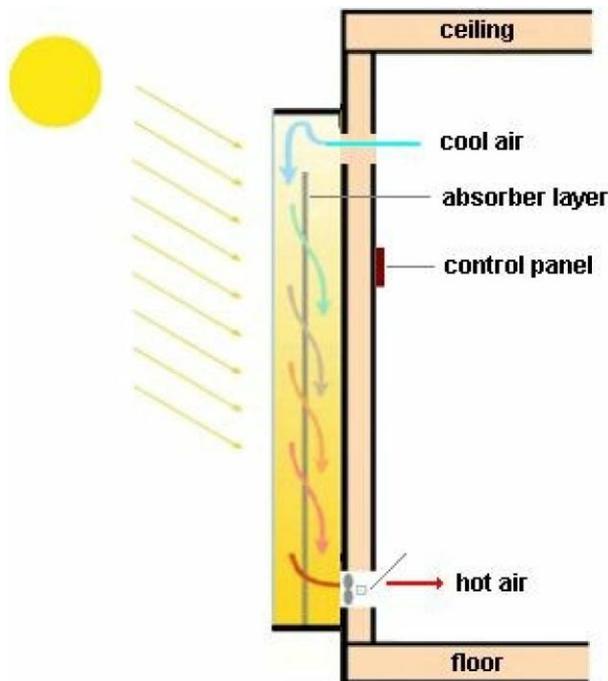


TermoFlow

Hot Air Solar Collectors

TermoFlow is a hot air solar collector for **air heating**. The collector heats air that then is put into the heated room. Beside the main function of independent heating, the collector contributes to improve the air salubrity in locked rooms and houses (second houses, summer cottages) and consequently to **reduce the formation of mould**. The third function is a **slight freshing** in summer nights.

The design of the collector is simple and that simplifies its mounting and operation. The innovative and patented technology inside the collector ensures a high efficiency with no maintenance. The collector continues working even with **variable and cloudy sky**. In the collector there are no circuits with liquids and thus the product is resistant to any low temperatures. A special internal design limits dust accumulation inside while a regular solar irradiation prevents the propagation of dangerous bacteria, for example, legionella.



To mount the collector you just have to drill two simple holes in the sunside wall. Inside you see just two holes covered with registers: behind the upper one there is a fan extracting the air from the room and giving it back through the lower hole. The whole system is regulated by an electronic controller included the collector kit. The controller regulates both heating and summer freshing and is compatible with timers.

The standard TermoFlow size is: 200 x 100 cm. On request we may produce collectors of other sizes. Besides, on request it is possible to get a special design with simplified access to the collector to regulate registers. The absorption surface is produced without paints or other volatile substances. So, no harmful vapours may occur. The absorption layer is particularly sensitive to

the infrared radiation and, consequently, allows to use the inverse radiation to dissipate heat in summer nights to fresh the room.

The system functioning is controlled by a simple PLC (included in the kit). The controller regulates both the heating and the night refreshing mode and is compatible with chronothermostats.



Technical data of TermoFlow solar panels

Size	200x100 cm
Nominal heat power at solar irradiance of 1000 W/sq.m	1400 W
Average temperature delta	30°C
Collector area	2 sq.m
Air flow rate	180 Nm3/h
Weight	16,5 kg
Average heated area	30 sq.m
Absorber layer - special steel alloy with selective treatment.	
Option: forced ventilation kit 220 V	
Option: forced ventilation kit with a PV panel 12 V	



Average energy savings due to a Termoflow collector 150x100 cm

The calculation is made for North Italy versus electrical heating.

