

Solar Air Shutter with Split-System

JL. CANALETTI, C. CRISTOFARI

Université de Corse, U.M.R. CNRS 6134 SPE, Route des Sanguinaires, F-20000 AJACCIO, France

e-mail : christian.cristofari@iut.univ-corse.fr



We present a second version of the solar air shutter, patented and named volet'air®.

The concept of solar air shutter, patented and named volet'air® produces a low temperature heat directly from the sun without any other energy supply. The objective is to provide a part of the hot air needs for maintaining a healthy ambiance in the housing.



It can be used both :

- in principal residence occupied all the year ;
- in secondary residence often no-occupied during a long period of the year and for which the thermal balance and ventilation are just provided by natural energy exchanges from outdoor to indoor;
- in isolated houses not connected to the electrical grid.

This version substitute the air collector by a water collector and the channeling of warm air by a heat exchanger pipe in order to minimise the drill diameter in the wall.

