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# Applications



## Drying

- Preheating drying air in the process technology
- Direct drying of biogenic goods (grain, wood, hops etc.)
- Construction drying



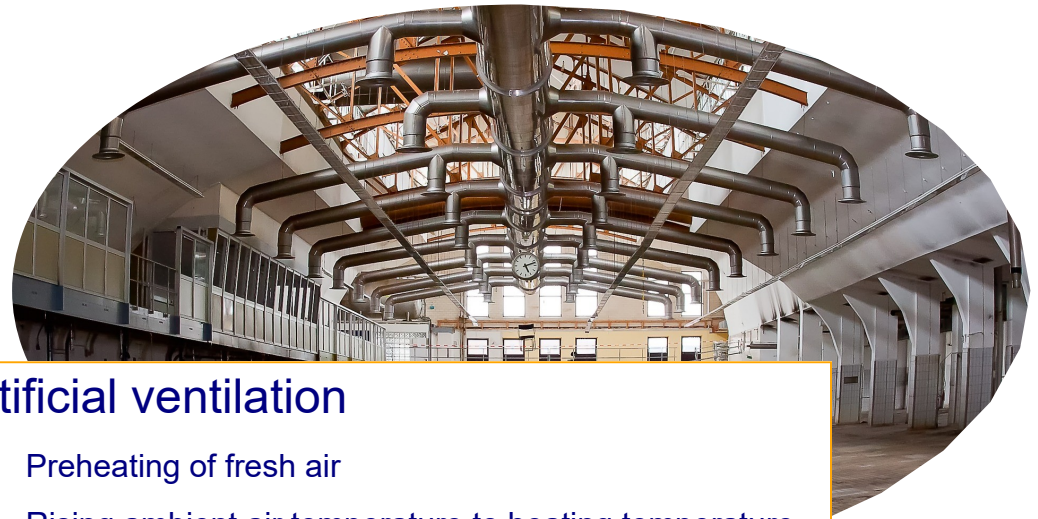
## Heating

- Increase the efficiency of air heat pumps
- Heating industrial buildings with fresh ambient air



## Artificial ventilation

- Preheating of fresh air
- Rising ambient air temperature to heating temperature



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# Function



2

The absorber heats up very quickly due to the low mass (up to a maximum of 130 ° C). The temperature sensor inside the collector sends its signal to the control point 3.

1

The short-wave sun rays (diffuse and direct radiation) pass through the high-tech foil and hit the absorber (black) inside.

3

The control inside the building automatically switches on the fan point 4 at the predefined temperature.

8

3

8

1

2

5

6

4

7

7

The heated air flows through the insulated pipes to the room or use. The volumetric flow point 4 is automatically regulated according to demand via a temperature sensor in the pipe.

The fresh ambient air point 5 flows through the high-tech film into the interior of the collector and heats up there at the hot absorber point 6. The heated air flows through the absorber and is sucked towards the connection point 7.

4

The fan in the pipe system switches on and generates negative pressure inside the collector. Fresh air is sucked into the collector and conveyed into the building interior.

5

6

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# Solutions



## Mobile systems

For forestry and agriculture as well as the construction industry



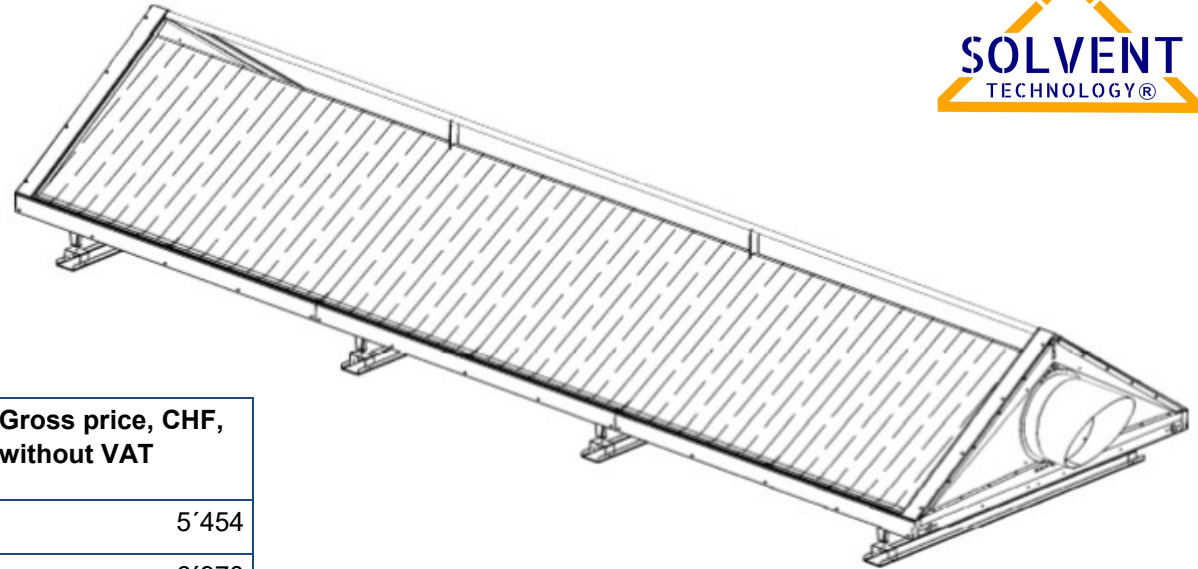
## Stationary systems

For commercial, industrial and service buildings as well as apartment buildings with flat roofs



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# Technical details



## Product examples

| Product                  | Power, kW | Weight, kg | Gross price, CHF, without VAT |
|--------------------------|-----------|------------|-------------------------------|
| Collector 2m x 2m        | 2,8       | 130        | 5'454                         |
| Collector 2m x 4m        | 5,6       | 180        | 6'970                         |
| Collector 2m x 6m        | 8,4       | 230        | 8'416                         |
| Collector mobile, triple | 25,2      | 1100       | 35'672                        |

### Highlights

- Construction made of stainless steel 1.4301, optionally also other steel grades
- Cover film made of high-strength, UV-stable plastic, recyclable
- Selective absorber, weather-resistant
- Snow load q<sub>ks</sub>: 3.5 kN / m (old snow) maximum 65cm snow depth, higher loads easily feasible
- Wind loads Q<sub>p0</sub>: 1.3 kN / m<sup>2</sup> Building height up to 16m, standard, higher requirements possible
- Foot elements for flat roofs, connecting elements for facades
- All variants available with individual colors

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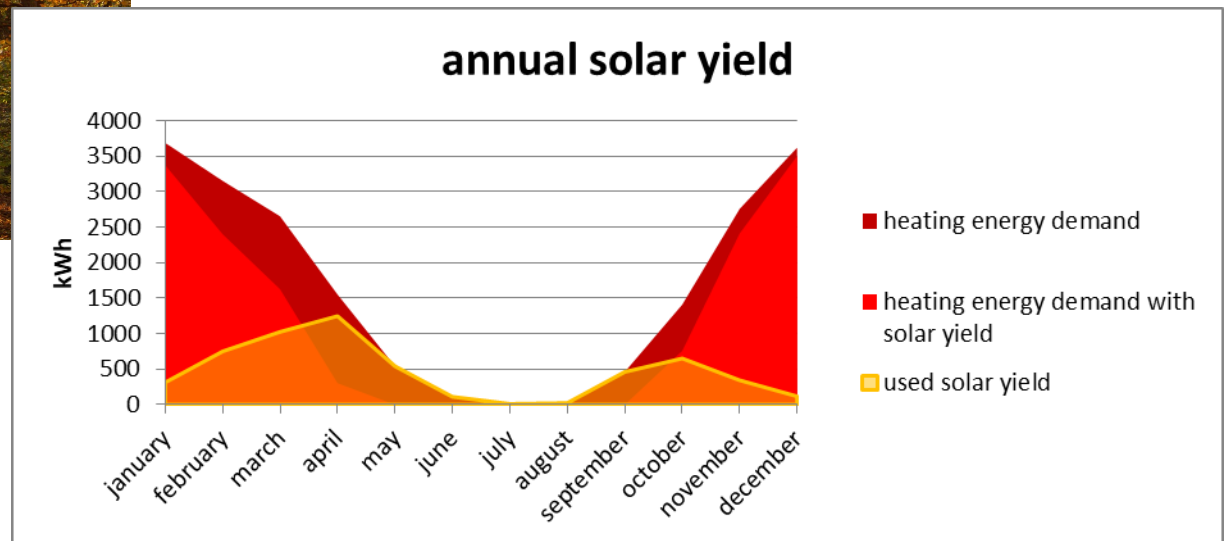


# Energy



## Annual yield

350 to 750 kWh/m<sup>2</sup>



## Efficiency ratio 1:40

Current Input:



Thermal energy output:

