



SVPro: calculation of power output

Modelling at 800kWh/m²/year

Estimated air flow: M ³ air/m ² per hour	100	M ³
Yearly kWh sun radiation/m ²	800	kWh/m ² /year

SolarVenti products	Product area m ²	Utilisation of sun radiation/ efficiency	Estimated average energy saving kWh/m ² per year	Estimated energy saving kWh/SV-unit/year
collector area 1m ²	1.00	55%	440	440
collector area 2m ²	2.00	57%	456	912
collector area 5m ²	5.00	62%	496	2,480
collector area 10m ²	10.00	66%	528	5,280
collector area 20m ²	20.00	67%	536	10,720
collector area 45m ²	45.00	67%	536	24,120

The extra dehumidification effect is not included, so the savings may be substantially higher.

Modelling at 1000kWh/m²/year

Estimated air flow: M ³ air/m ² per hour	100	M ³
Yearly kWh sun radiation/m ²	1,000	kWh/m ² /year

SolarVenti products	Product area m ²	Utilisation of sun radiation/ efficiency	Estimated average energy saving kWh/m ² per year	Estimated energy saving kWh/SV-unit/year
collector area 1m ²	1.00	55%	550	550
collector area 2m ²	2.00	57%	570	1,140
collector area 5m ²	5.00	62%	620	3,100
collector area 10m ²	10.00	66%	660	6,600
collector area 20m ²	20.00	67%	670	13,400
collector area 45m ²	45.00	67%	670	30,150

The extra dehumidification effect is not included, so the savings may be substantially higher.

Modelling at 1200kWh/m²/year

Estimated air flow: M ³ air/m ² per hour	100	M ³
Yearly kWh sun radiation/m ²	1,200	kWh/m ² /year

SolarVenti products	Product area m ²	Utilisation of sun radiation/ efficiency	Estimated average energy saving kWh/m ² per year	Estimated energy saving kWh/SV-unit/year
collector area 1m ²	1.00	55%	660	660
collector area 2m ²	2.00	57%	684	1,368
collector area 5m ²	5.00	62%	744	3,720
collector area 10m ²	10.00	66%	792	7,920
collector area 20m ²	20.00	67%	804	16,080
collector area 45m ²	45.00	67%	804	36,180

The extra dehumidification effect is not included, so the savings may be substantially higher.