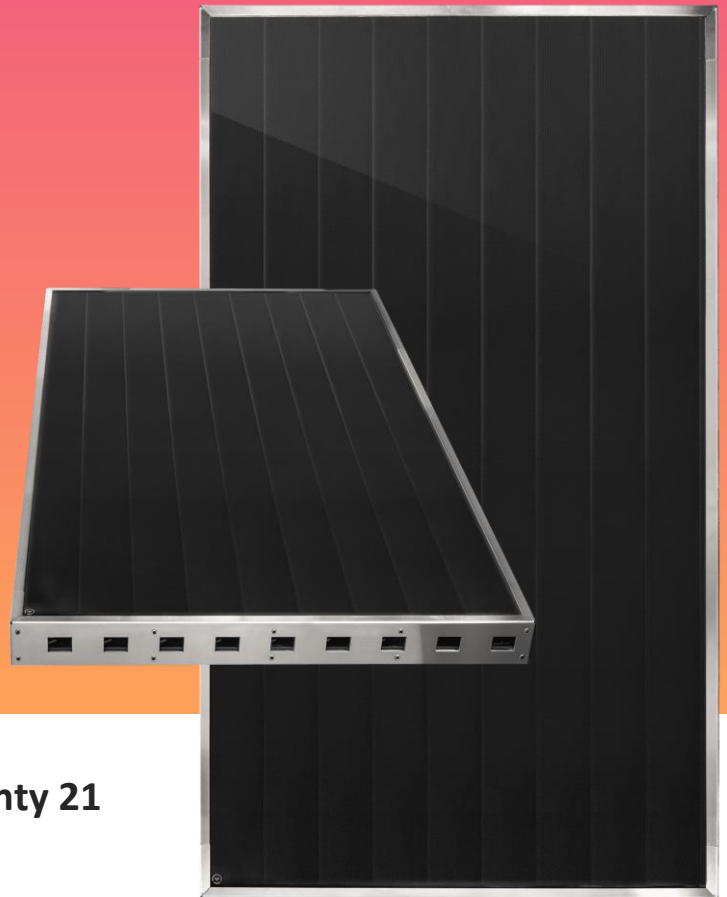


SOLHOTAIR SHA 1240

Solar heating collector

Technical Card



**Manufacturer: Solhotair Sp. z o.o., Planty 21
05-080 Izabelin, Poland**

KEY FEATURES OF THE COLLECTOR



83%

One of the world's highest efficiencies achieved in an air solar heating collector



Possibility to install collectors on roofs and walls of buildings



Due to the high efficiency, the possibility of producing usable and process heat e.g. in drying



 **Fraunhofer**
ISE

TestLab
Solar Thermal
Systems 

DIMENSIONS AND COLLECTOR CASING

Product dimensions: 1800 x 970 x 100 mm
 a. collector dimension: 1680 x 970 x 100 mm
 b. fan module dimension: 970 x 120 x 100 mm

Frame material: aluminum PA 38/PA 11
 Rear material: galvanized steel /HPL
 Protective glass: prismatic glass, hardened

Weight: 25kg



TECHNICAL SPECIFICATIONS

Collector type: flat

Airflow type: meander, forced

Heat transfer medium: air

Nominal heating output:

1240 Wp
 (at G=1000W/m²)

Nominal airflow:

144 kg/h = 120 m³/h

Nominal efficiency:

83 %

Minimum airflow:

90 kg/h

Maximum airflow:

160 kg/h

Gross collector surface area:

1.62 m²

Aperture area:

1.53 m²

Absorber surface area:

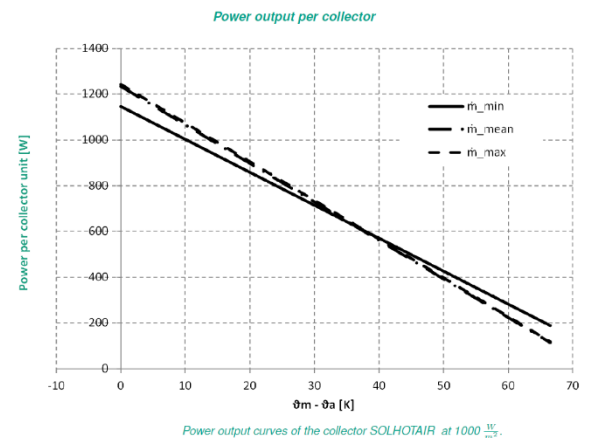
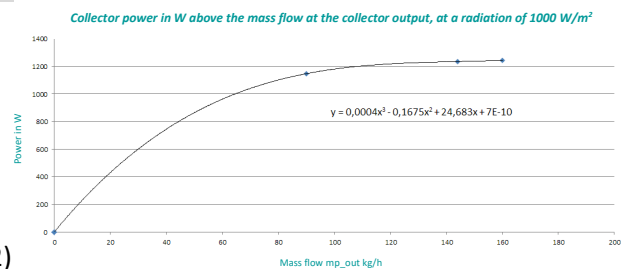
1.49 m²

Fans (power):

from 10W to 50W

Fan power supply:

12 VDC



INSTALLATION

Acceptable mounting methods: roof, building facade

Collector angle range from 60° to 90°C

TESTING AND CERTIFICATION

Fraunhofer ISE Report: KTB 2017-07

Marks: CE, B

Patent protection:

European patent no: 3411637: Solar Air System

Polish patent no: 230038 Title: vortex generator in air solar heating collector

Patent validated in 15 countries of the European Union

WE DECLARATION OF CONFORMITY

Date and Place: 01 June 2019, Izabelin

Manufacturer: Solhotair Sp. z o.o., Planty 21, 05-080 Izabelin, Poland

Declares that the product which is:

Name: Solhotair solar air collector

Model: Solhotair SHA 1240

Serial Numbers: SHA 1240 No.:01...../year of manufacture

Application of product: buildings solar heating, solar dryers

This product fulfils all the requirements of the UE Community directive
2006/42/WE

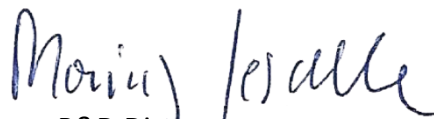
Generalized standards and other technical specifications:

EN 12975-1:2006+A 1:2010

EN ISO 9806:2013

This declaration of conformity is issued under the sole responsibility of the manufacturer.

Official position and signature of
authorized person:



R&D Director

Dipl. Ing. Marius Jeschke

Izabelin, 01 June 2019