

# Solar Heating System Factsheet

## Sammler SWH-PF-150



<b>System model</b>	<b>SWH-PF-150</b>
<b>System type</b>	Thermosiphonsystem
<b>Manufacturer</b>	Honeywell Technologies Sàrl
<b>Address</b>	Z.A. La Pièce 16 CH-1180 Rolle
<b>Phone</b>	+42 (0) 532 111 172
<b>Fax</b>	--
<b>E-mail</b>	info@honeywell.com
<b>Internet</b>	www.honeywell.com
<b>Date of test</b>	05.2017

- Performance test EN12976:2006
- Quality test EN12976:2006

- Solar Keymark



### System-Data

<b>No. of collector modules</b>	1
<b>Gross collector area</b>	1.98 m <sup>2</sup>
<b>Storage tank volume</b>	150 l
<b>Design load<sup>*)</sup></b>	150 l/d

### Types of collector mounting

- Construction for sloping roof
- Integration into sloping roof
- On flat roof with stand
- Facade

<b>Gross dimension flat roof (DxWxH)</b>	1943 mm x 1195 mm x 1305 mm
<b>Gross dimension sloping roof (LxW)</b>	1329 mm x 1195 mm

### Collector

<b>Model</b>	SWH-CBP	<b>Total width</b>	1138 mm
<b>Type</b>	Flat plate collector	<b>Gross area</b>	1.980 m <sup>2</sup>
<b>Total length</b>	1739 mm	<b>Weight empty</b>	32 kg

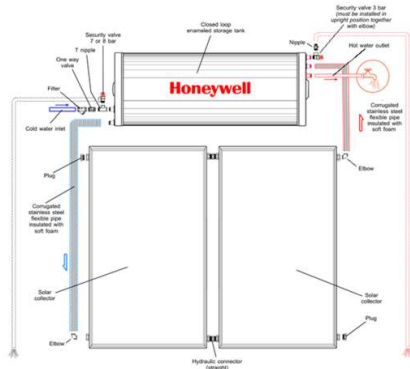
### Storage tank

<b>Model</b>	SWH-CL-T150EH	<b>Outside diameter</b>	600 mm
<b>Type</b>	Horizontal / Mantle HE	<b>Weight empty</b>	58 kg
<b>Insulation material</b>	Polyurethane foam	<b>Electrical heater</b>	optional kW
<b>Corrosion protection</b>	Enameled, Mg sacrificial anode	<b>Max. operating pressure</b>	8 bar
<b>Total length</b>	952 mm	<b>Max. storage temperature</b>	95 °C

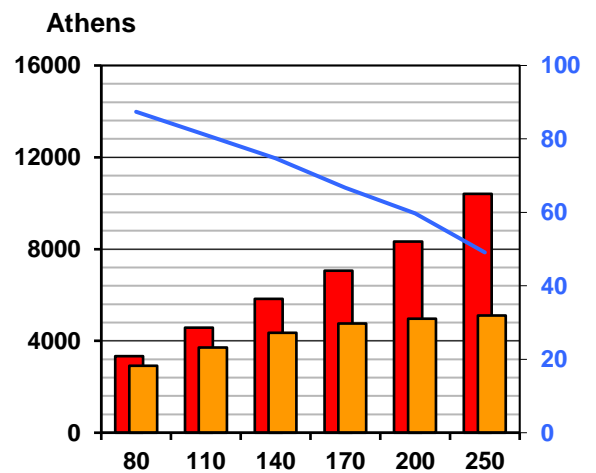
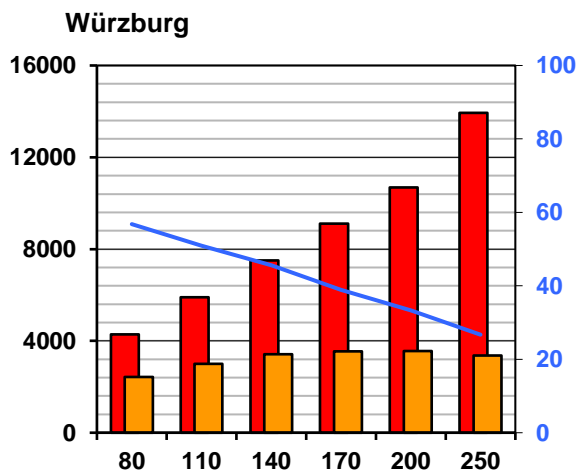
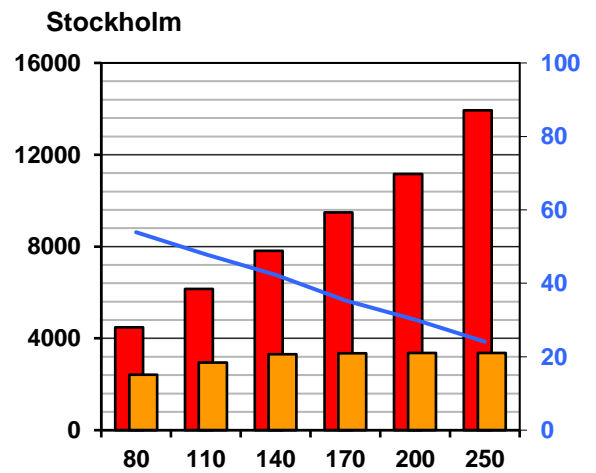
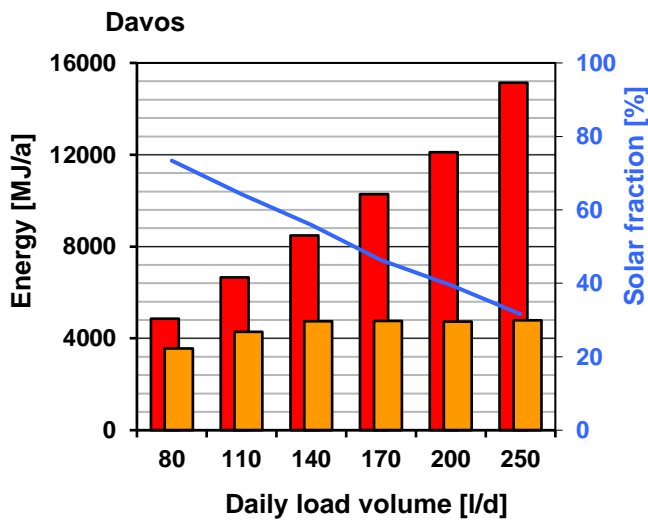
### Heat transfer medium solar loop

<b>Manufacturer</b>	Honeywell	<b>Model name</b>	Honeywell solar glycol
<b>Type</b>	Water-Glycol	<b>Concentration/Freezing point</b>	Various

Schematic of system



Annual performance prediction and solar fraction for the EN locations<sup>\*)</sup>



Reference conditions according to EN 12976

- Collector alignment South, tilt angle 45°
- Hot water temperature 45°C
- Draw-off 6 h after solar noon; 100 %

Performance indicators

- ~  $f_{sol}$ : Solar fraction in % ( $f_{sol} = Q_L/Q_d$ )
- $Q_L$ : Heat delivered by the solar system (load)
- $Q_d$ : Heat demand

<sup>\*)</sup> The reference conditions for performance prediction in accordance with EN 12976:2006 is described in the accompanying document to the system factsheets.

# Solar Heating System Factsheet

## SWH-PF-200 – sub system

This system configuration was tested as part of a system family according to the CEN Keymark Scheme Rules for Solar Thermal Products<sup>1</sup>. The annual performance prediction for the system configuration has been determined using the results of the medium system of the system family. For more information about the medium system please check the factsheet of system **S215**.



### General

<b>System model</b>	<b>SWH-PF-200</b>	<b>Phone</b>	+42 (0) 532 111 172
<b>System type</b>	Thermosiphon system	<b>Fax</b>	--
<b>Manufacturer</b>	Honeywell Technologies Sàrl	<b>E-Mail</b>	info@honeywell.com
		<b>Internet</b>	www.honeywell.com
<b>Address</b>	Z.A. La Pièce 16 CH-1180 Rolle	<b>Testdatum</b>	05.2017

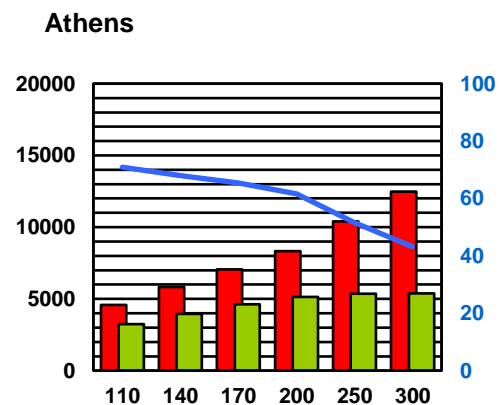
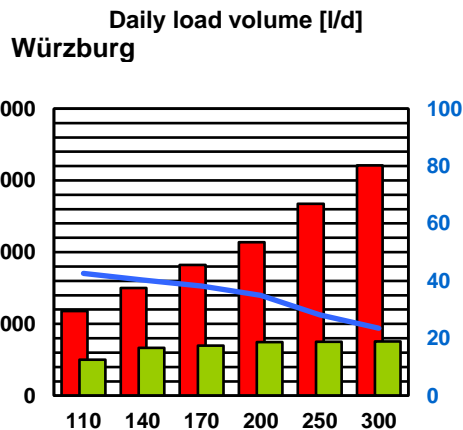
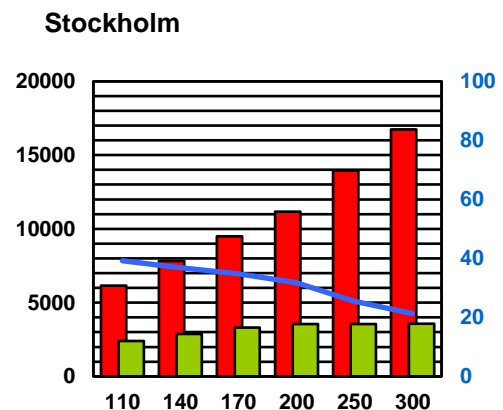
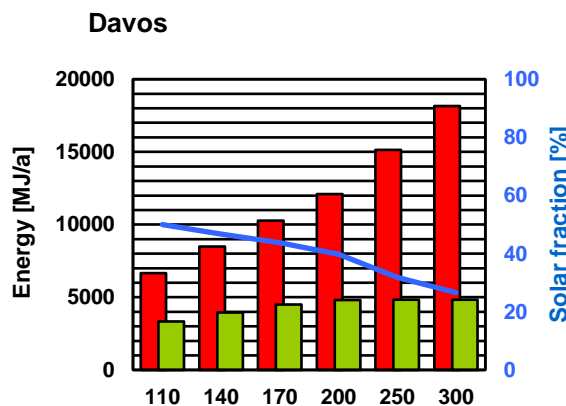
### System-Data

<b>No. of collector modules / pipes</b>	1
<b>Gross collector array area</b>	1.980 m <sup>2</sup>
<b>Storage tank volume</b>	200 l
<b>Design load</b>	200 l/d

### Types of collector mounting

- Construction for sloping roof
- Integration into sloping roof
- On flat roof with stand
- Facade

### Annual performance prediction and solar fraction for the EN locations



—  $f_{sol}$ : Solar fraction % ( $f_{sol} = Q_L/Q_d$ )    ■  $Q_L$ : Heat delivered by the solar system (load)    ■  $Q_d$ : Heat demand

<sup>1</sup> Homepage of Solar Keymark, URL: [www.solarkeymark.org](http://www.solarkeymark.org)

# Solar Heating System Factsheet

## SWH-PF-300 – sub system

This system configuration was tested as part of a system family according to the CEN Keymark Scheme Rules for Solar Thermal Products<sup>1</sup>. The annual performance prediction for the system configuration has been determined using the results of the medium system of the system family. For more information about the medium system please check the factsheet of system **S215**.



### General

<b>System model</b>	<b>SWH-PF-300</b>	<b>Phone</b>	+42 (0) 532 111 172
<b>System type</b>	Thermosiphon system	<b>Fax</b>	--
<b>Manufacturer</b>	Honeywell Technologies Sàrl	<b>E-Mail</b>	info@honeywell.com
		<b>Internet</b>	www.honeywell.com
<b>Address</b>	Z.A. La Pièce 16 CH-1180 Rolle	<b>Testdatum</b>	05.2017

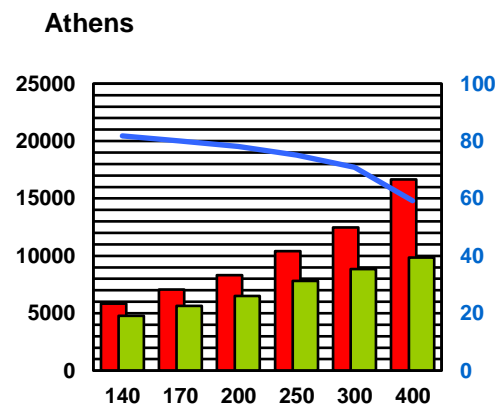
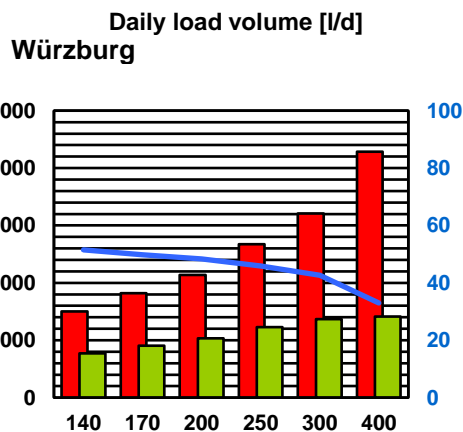
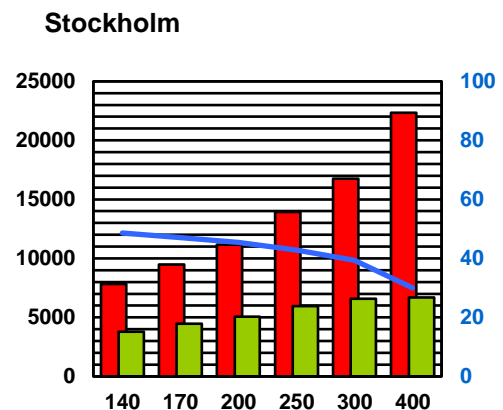
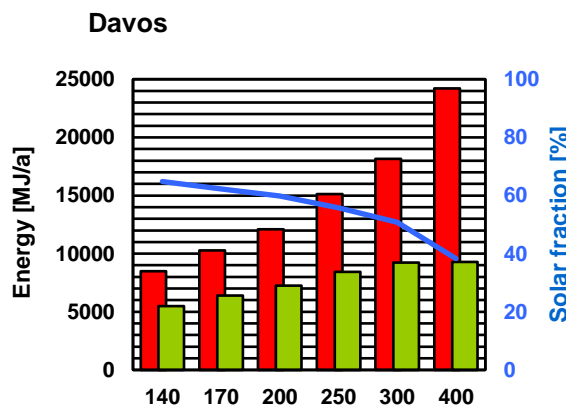
### System-Data

<b>No. of collector modules / pipes</b>	2
<b>Gross collector array area</b>	3.960 m <sup>2</sup>
<b>Storage tank volume</b>	300 l
<b>Design load</b>	300 l/d

### Types of collector mounting

- Construction for sloping roof
- Integration into sloping roof
- On flat roof with stand
- Facade

### Annual performance prediction and solar fraction for the EN locations



—  $f_{sol}$ : Solar fraction % ( $f_{sol} = Q_L/Q_d$ )    ■  $Q_L$ : Heat delivered by the solar system (load)    ■  $Q_d$ : Heat demand

<sup>1</sup> Homepage of Solar Keymark, URL: [www.solarkeymark.org](http://www.solarkeymark.org)