

# EDS<sup>®</sup> Evacuated Tube Solar Collector

8046648 (46530-10)

**FESTO**

LabVolt Series

Datasheet



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## General Description

Ideal for indoor demonstrations of the working principle of direct-flow evacuated tubes. This model allows students to heat water that circulates through the tubes using a powerful lamp and observe the effect on the water temperature. Water can be easily drained from the tubes by tilting the assembly around its central axis.

## Specifications

Parameter	Value
<b>General parameters</b>	
Number of Tubes	6
Average Efficiency	65%
Temperature Range	-40°C to 60°C (-40°F to 140°F)
Max. Operating Pressure	600 kPa (87 psi or 6 bar)
Tilt Angle	45°
Inlet and Outlet Diameters	1.3 cm (0.5 in)
<b>Manifold</b>	
Outer Material	Aluminum alloy
Insulation	PUF and rock wool
<b>U Pipe</b>	
Material	Copper
Diameter	8 mm (0.31 in)
Thickness	1 mm (0.04 in)
<b>Vacuum Tube</b>	
Size	47/1500 mm (1.85/59.05 in)

Reflecting the commitment of Festo Didactic to high quality standards in product, design, development, production, installation, and service, our manufacturing and distribution facility has received the ISO 9001 certification.

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