

The Dawtec logo is a green square with the word "dawtec" in white lowercase letters.

WHEN GREEN
TECHNOLOGY
MATTERS

Thermosiphon Deema Series

Description

With the increasing demand on Solar Water Heaters, and the increasing technological advancements, two main types of Thermosiphon solar systems have had their way to the top; the first is the closed flat plate collector system, and the second is the open vacuum tube system.

Still each of these systems has its advantages and disadvantages.

Deema solar system combines the advantages of both technologies.

Deema benefits from the small size and high performance of vacuum tube technology, and enjoys the high specifications, mainly pressure rating, durability and reliability of the closed type flat plate technology.

Deema is fabricated with high end manufacturing processes and according to the highest standards in order to provide the best product. *Deema* is designed with special physical characteristics that ensure the perfect integration in all architectural plans.

Key Features

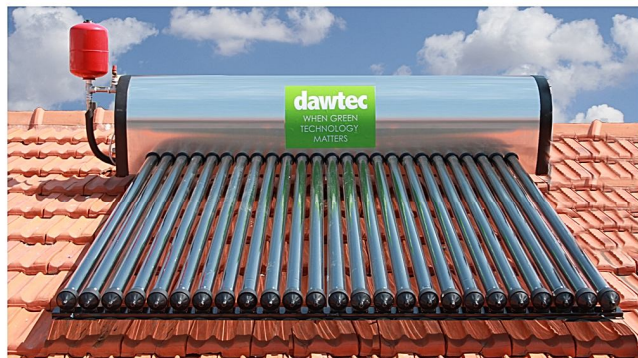
- Optimum performance in medium and high solar gain areas
- Stylish compact model
- Modern design
- Thermosiphon operation: minimum maintenance
- Life expectancy > 20 years

Key Benefits

- Saves up to 85% of energy consumption required for water heating
- High absorption rate > 65 %
- Suitable for high pressure applications
- 5 years warranty



Specifications



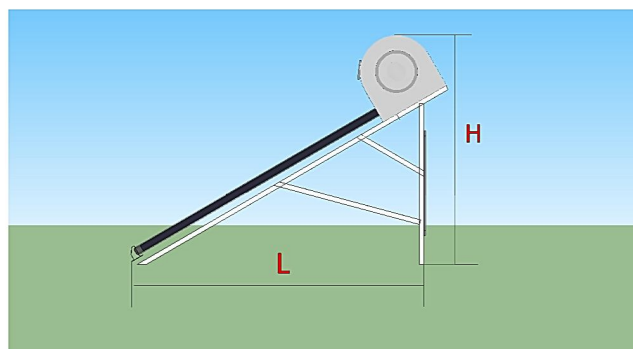
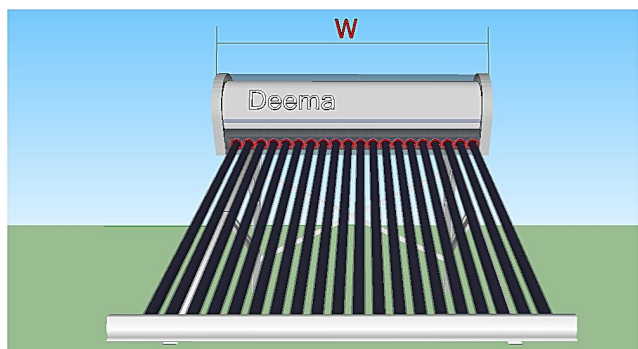
Technical Specifications

Conductivity of Insulation	0.022 W/m.K
Absorptivity of Vacuum Tubes	> 92%
System Efficiency	> 68%
Test Pressure	10 bar
Working Pressure	6 bar
Auxiliary Electric Heater	Conventional 1 1/4" 1500 W or 2000 W
Electric Heater Voltage	Single Phase, 220 VAC
Thermometer Type	Digital RTD

Material Specifications

	Deema	Deema-S
Inner Tank	Galvanized Steel	Stainless Steel 316L
Inner Tank Thickness	4 mm	2 mm
Outer Tank	Galvanized Steel	Galvanized Steel
Outer Tank Thickness	0.6 mm	0.6 mm
Inlets and Outlets	Galvanized Steel	Stainless Steel 316L
Stand Parts	Galvanized 3 mm	Galvanized 3 mm
Absorber	ALN-CU	
Insulation	Polyurethane	
Seals	Silicon	

Capacity and Dimensions



Model		Deema150	Deema150+	Deema200	Deema200+	Deema300	Deema300+
Capacity of System	Liters	150	150	200	200	300	300
	US Gal	40	40	53	53	79	79
Number of Vacuum Tubes		14	14	18	18	25	25
Vacuum Tube Dimensions	mm	58 x 1,800	58 x 1,800	58 x 1,800	58 x 1,800	58 x 1,800	58 x 1,800
Absorber Area	sqm	2.3	2.3	3.2	3.2	3.9	3.9
	sq in	3,565	3,565	4,960	4,960	6,045	6,045
Auxiliary Heater	Electrical	✓	✓	✓	✓	✓	✓
	Boiler		✓		✓		✓
Weight Empty	kg	110	120	150	164	180	198
	lbs	243	265	331	362	397	437
Weight Full	kg	285	295	383	397	530	548
	lbs	629	651	845	876	1,169	1,209
System Width (W)	m	1.3	1.3	1.82	1.82	2.2	2.2
	in	52	52	72	72	87	87
System Length (L)	m	2.1	2.1	2.1	2.1	2.1	2.1
	in	83	83	83	83	83	83
System Height (H)	m	1.5	1.5	1.5	1.5	1.5	1.5
	in	59	59	59	59	59	59
Number of Users		2	2	3	3	5	5

Winner of



for its Pergola Solar System

Finalist in the

GIST International Competition



led by the U.S. Department of State

Winner of

Green Innovation Award 2012



for its Pergola Solar System

+961 -1- 288688
+961-70-288688
+49-15229046069
dawtec@dawtec.com
www.dawtec.com

dawtec
WHEN GREEN
TECHNOLOGY
MATTERS