



THERMOSHIPHONIC SOLAR WATER HEATERS WITH GLASS ENAMELLED TANK

MODELS OF SOLAR WATER HEATERS

- 120 lt. tank with 1X2m² collector
- 160 lt. tank with 1X2,3m² collector
- 160 lt. tank with 1X2,5m² collector
- 200 lt. tank with 2x1,5m² collectors
- 300 lt. tank with 2x2m² collectors

Ecofer suggests the integrated systems for flat roof (terrace), which combine excellent quality, high efficiency, easy installation and are the best solution for energy saving.

Manufactured with high quality materials, controlled by quality assurance system ISO 9001:2008, and carrying all certificates and test reports that proofs their quality.

Suitable for households, achieve high production of domestic hot water in less time, saving energy throughout the year, even in areas with little sunshine because of their selective collector surface.



IKONOMOU Z. KOSTAS HEATING - AIR CONDITIONING - SOLAR THERMAL MANUFACTURER
6, ITHOMIS STR. GR-15231 ATHENS GREECE
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Head office 150,XANTHIPPOU STR. GR-15669 ATHENS GREECE

www.smartsoL.gr mail: ecofer@ecofer.gr



The installation can be done easy and fast with the innovative mounting structure, made of galvanized steel, without any welding, and the solar collector can be installed and levelled easy with the internal movable parts.

The range includes 3 types available:

120lt. tank with 1x1,75m² horizontal collector

160lt. tank with 1x2,3m² horizontal collector

200lt. tank with 1x2,75m² horizontal collector

combined with selective surface collectors which are the most beneficial choices on low cost – high efficiency solar systems.



Technical Data		ENERGY+ EVO / ENERGY+ ECO							
Type	Sl	EVO 15	EVO 17	EVO 19	EVO 20	EVO 23	EVO 25	EVO 27	EVO 29
Overall Area	m ²	1.51	1.68	1.96	2.02	2.25	2.52	2.66	2.92
Absorber Area	m ²	1.35	1.51	1.79	1.83	2.03	2.33	2.43	2.71
Length	mm	1503	1420	1503	2006	1893	2006	2261	2006
Width	mm	1007	1183	1305	1007	1183	1257	1183	1457
Height	mm	87	87	87	87	87	87	87	87
Weight (Dry)	Kg	27	29	35	35	36	41	45	47
Absorber Volume Capacity	Ltr.	1.3	1.35	1.5	1.6	1.8	1.9	2	2.1



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SMART collector series

for the Mediterranean climate!

SMART collector series

High aesthetics and functionality are the main characteristics of the solar collector series **SMART ECOFER** innovates with evidence and presents the advantages of the collector series designed for the **Mediterranean climate!**



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SMART collector series

SMART EVO

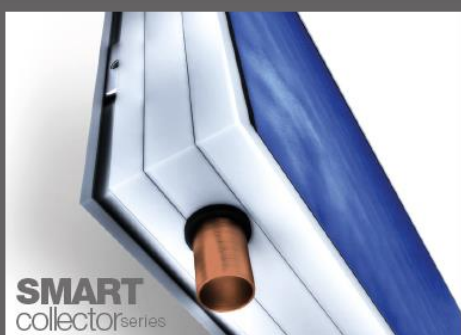
- Absorptive aluminum surface with blue selective PVD coating technology.
- Ø8mm Risers.

SMART ECO for hot climate

- Absorptive aluminum surface with black selective coating.
- Ø8mm Risers.

SMARTARGO for open loop systems

- Absorptive aluminum surface with blue selective PVD coating technology
- Ø15mm Risers.



- 8 available sizes range from 1.5 m² to 2.9 m².
- Global installation system with internal movable parts
- Lightweight for easy transport and installation.
- One-piece anodized profile, non-corrosion technology for ultimate seal against moisture and air micro-particles.
- Safety glass with high permeability.
- Back and side glass-wool insulation.
- HARP type absorber (headers and risers) welded with **Laser** technology
- x2 stainless vents positioned at the bottom.
- Vertically or horizontally mounting possibility
- x2 or x4 outlets Cu D22.

Technical Data		SMART EVO / SMART ECO							
Type	Sl	SE 15	SE 17	SE 19	SE 20	SE 23	SE 25	SE 27	SE 29
Overall Area	m ²	1.51	1.68	1.96	2.02	2.25	2.52	2.66	2.92
Absorber Area	m ²	1.35	1.51	1.79	1.83	2.03	2.33	2.43	2.71
Length Width Height	mm	1503	1420	1503	2006	1893	2006	2261	2006
		1007	1183	1305	1007	1183	1257	1183	1457
		85	85	85	85	85	85	85	85
Weight (Dry)	Kg	21	23	26	27	29	34	36	42
Absorber Volume Capacity	Ltr.	1.3	1.4	1.5	1.6	1.8	1.9	2	2.1

Max Operating Pressure: 10 bar

Technical Data		SMART ARGO							
Type	Sl	SA 15	SA 17	SA 19	SA 20	SA 23	SA 25	SA 27	SA 29
Overall Area	m ²	1.51	1.68	1.96	2.02	2.25	2.52	2.66	2.92
Absorber Area	m ²	1.35	1.51	1.79	1.83	2.03	2.33	2.43	2.71
Length Width Height	mm	1503	1420	1503	2006	1893	2006	2261	2006
		1007	1183	1305	1007	1183	1257	1183	1457
		85	85	85	85	85	85	85	85
Weight (Dry)	Kg	22	24	27	29	31	36	38	44
Absorber Volume Capacity	Ltr.	2.4	2.7	3	3	3.4	4	4.5	5

Max Operating Pressure: 10 bar

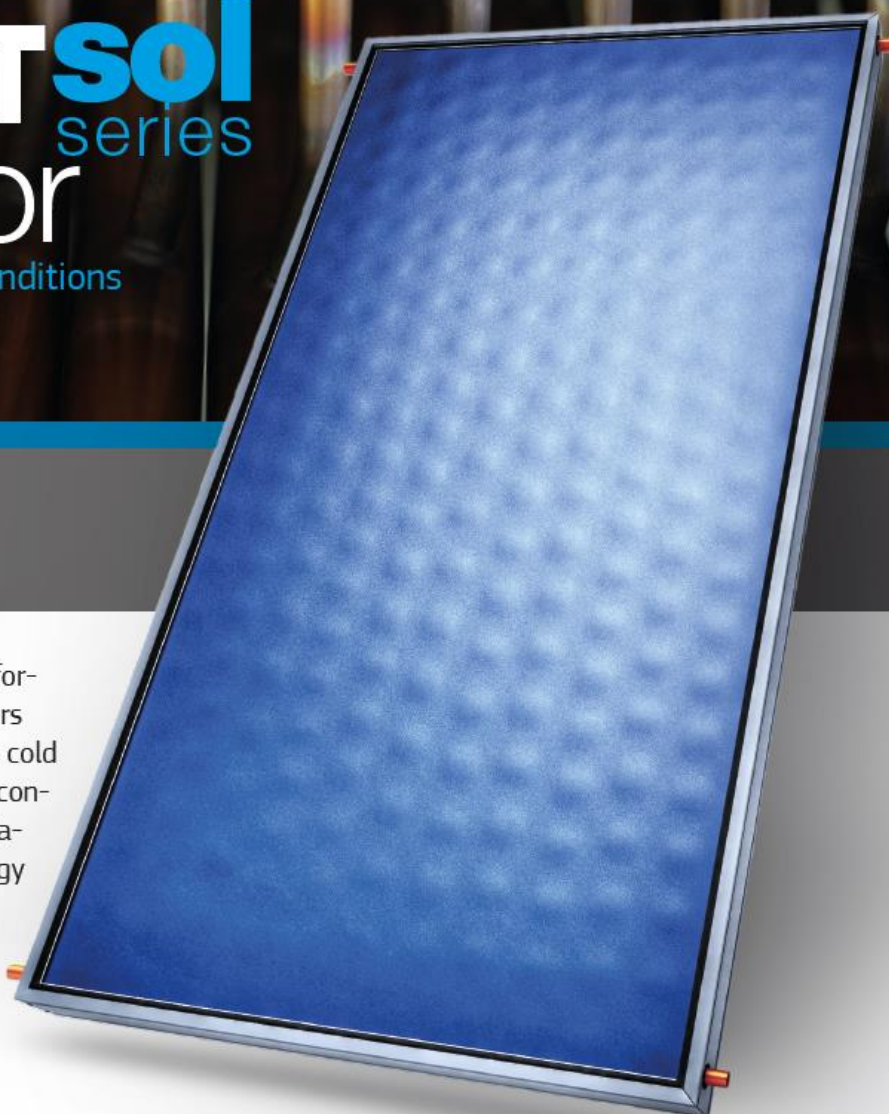


SMARTsol collector

for extreme weather conditions

SMARTsol
collector

Manufactured with high performance excellence. A collectors series, designed to meet the cold continental climate and the conditions of reduced solar radiation, is able to meet its energy needs in the most extreme weather conditions.



Ecofer
SOLAR THERMAL INDUSTRY

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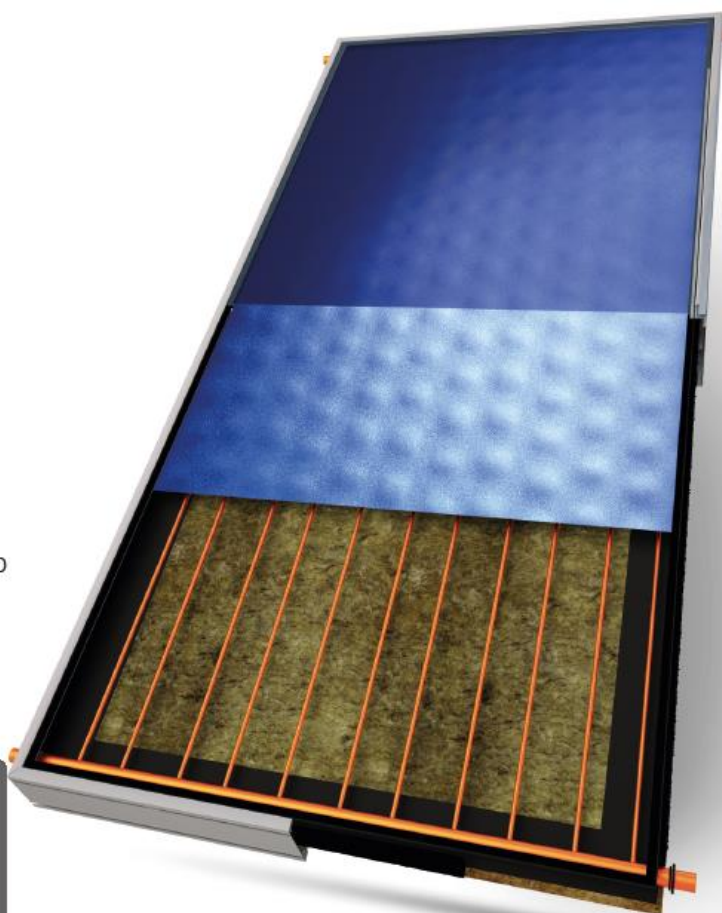
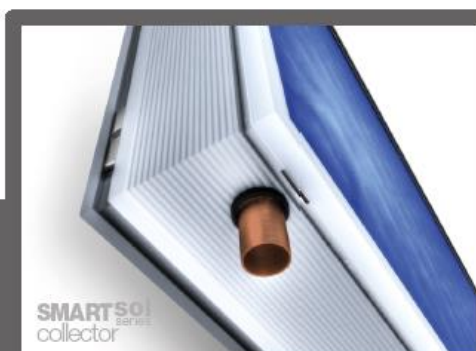
www.smartsol.gr mail: ecofer@ecofer.gr



SMART SOL^{series} collector

SMART SOL

- Absorptive aluminum surface with blue selective PVD coating technology.
- Ø8mm Risers.



- 8 available sizes range from 1.5 m² to 2.9 m².
- Global installation system with internal movable parts
- Lightweight for easy transport and installation.
- One-piece anodized profile, non-corrosion technology for ultimate seal against moisture and air micro-particles.
- Safety glass with high permeability.
- Back and Side rock-wool insulation .
- HARP type absorber (headers and risers) welded with **Laser** technology
- x4 stainless hidden vents.
- Vertically or horizontally mounting possibility
- x2 or x4 outlets Cu D22.

Technical Data		SMART SOL			
Type	SI	S 20	S 23	S 25	S 29
Overall Area	m ²	2.02	2.25	2.52	2.92
Absorber Area	m ²	1.83	2.03	2.33	2.71
Length	mm	2006	1893	2006	2006
Width		1007	1183	1257	1457
Height		103	103	103	103
Weight (Dry)	Kg	31	37	44	50
Absorber Volume Capacity	Ltr.	1.6	1.8	1.9	2.1

Max Operating Pressure: 10 bar



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Ecofer
Cool & Fan & Dry

3in1



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ICE

ΦΟΡΗΤΟ
ΚΛΙΜΑΤΙΣΤΙΚΟ
PORTABLE
AIR CONDITIONER

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Ecofer

3in1

Τεχνικά χαρακτηριστικά

- ▶ 3 σε 1: Ψύξη, αφύγρανση, ανεμιστήρας
- ▶ Λειτουργικός και συμπαγής σχεδιασμός
- ▶ Λευκό φινίρισμα
- ▶ Σχεδιασμός διπλού κινητήρα και διπλό σύστημα ανταλλαγής θερμότητας.
- ▶ Κάθετα ρυθμιζόμενη εξαγωγή αέρα
- ▶ Ψηφιακός πίνακας ελέγχου με οθόνη LED
- ▶ Πολυλειτουργικό τηλεχειριστήριο φιλικό προς το χρήστη
- ▶ Προγραμματιζόμενος χρονοδιακόπτης (0-24 ώρες)
- ▶ Ανεμιστήρας 2 ταχυτήτων
- ▶ Πλενόμενο διπλό φίλτρο για μέγιστο βαθμό ιονισμού του αέρα
- ▶ Αυτόματη συμπύκνωση συμπυκνωμάτων (λειτουργία ψύξης)
- ▶ Βέλτιστη απόδοση ψύξης λόγω ανάκτησης συμπυκνωμάτων
- ▶ Δυνατότητα συνεχούς αποχέτευσης (λειτουργία αφύγρανσης)
- ▶ Ένδειξη πλήρωσης δοχείου συμπυκνωμάτων
- ▶ Λειτουργία αυτοδιάγνωσης σφαλμάτων
- ▶ Λειτουργία "Memory": αυτόματη εκκίνηση και διατήρηση των ρυθμίσεων μετά από διακοπή ρεύματος
- ▶ Εύκολη μεταφορά, διαθέτει χειρολαβές και ροδάκια



Technical characteristics

- ▶ 3 in 1: Cooling, Dehumidification, Fan
- ▶ Functional and compact design
- ▶ White finishing
- ▶ Double engine design and double heat exchange system
- ▶ Vertically adjustable air extraction
- ▶ Digital control panel with LED display
- ▶ User-friendly multi-functional remote control
- ▶ Programmable timer (0-24 hours)
- ▶ 2-speed fan
- ▶ Washable double filter for maximum degree of ionization
- ▶ Automatic vaporization of condensate (Cooling Mode)
- ▶ Optimum cooling efficiency due to condensate recovery
- ▶ Possibility of continuous drainage (dehumidification function)
- ▶ Water tank full indicator
- ▶ Self-diagnosis function
- ▶ "Memory" function: automatic startup and maintenance of the settings after a power failure
- ▶ Easy to transport, with side-handles and wheels



ΦΟΡΗΤΟ
ΚΛΙΜΑΤΙΣΤΙΚΟ
PORTABLE
AIR CONDITIONER

ICE

TANK
0.5L



Drain valve
(tube not included)



Remote control

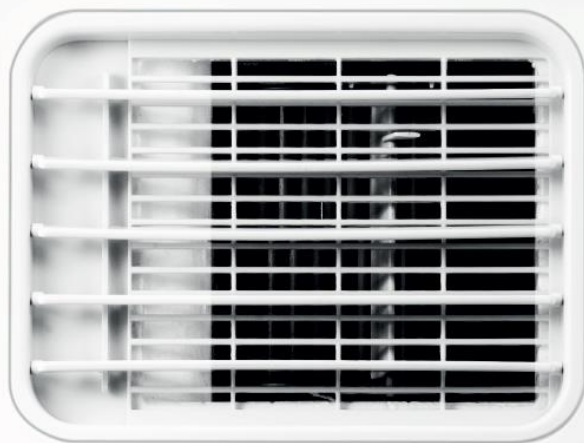


Τεχνικές προδιαγραφές Technical specifications

A



	MM/units	
Ψυκτική απόδοση/ Cooling capacity	kW	2.05
EER		2.61
Ενεργειακή κλάση/Energy class		A
Ικανότητα αφύγρανσης/ Dehumidification capacity	Lt/Day	21
Ταχύτητες ανεμιστήρα/Fan speeds	No.	2
Ψυκτικό μέσο/Refrigerant		R290
Παροχή ηλεκτρικού ρεύματος/ Power supply	V/F/HZ	230/1/50
Κλάση προστασίας/ Resistance class		IP 20
Πλήρωση ψυκτικού μέσου / Refrigerant charge	gr	140
Κατανάλωση / Input power	W	785
Καθαρό βάρος/ Net weight	Kg	18
Διαστάσεις (Υ/Μ/Β) / Net dimensions (H/W/D)	mm	680/330/280



Ecofer
Cool & Fan & Dry

ICE
ΦΟΡΗΤΟ ΚΛΙΜΑΤΙΣΤΙΚΟ
PORTABLE AIR CONDITIONER

ΟΙΚΟΝΟΜΟΥ Ζ. ΚΩΣΤΑΣ
HEATING - AIR CONDITIONING - SOLAR THERMAL MANUFACTURER

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Cool & Heat & Fan & Dry

4 in 1



Ecofer
Cool & Heat & Fan & Dry

ΨΥΞΗ / ΘΕΡΜΑΝΣΗ
COOL / HEAT

4seasons

ΦΟΡΗΤΟ
ΚΛΙΜΑΤΙΣΤΙΚΟ
Νέας τεχνολογίας υλικά
Compact σχεδιασμός
Αντλία θερμότητας 4 Seasons

PORTABLE
AIR CONDITIONER
Hi-tech materials
Compact & linear design
"4 Seasons" heat pump

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Ecofer

4 in 1

Τεχνικά χαρακτηριστικά

- ▶ 4 σε 1: Ψύξη, θέρμανση, αφύγρανση, ανεμιστήρας
- ▶ Λειτουργικός και συμπαγής σχεδιασμός
- ▶ Λευκό φινιρίσμα
- ▶ Σχεδιασμός διπλού κινητήρα και διπλό σύστημα ανταλλαγής θερμότητας.
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- ▶ Εύκολη μεταφορά, διαθέτει χειρολαβές και ροδάκια



Άνοιξη
Spring
Ανεμιστήρας
Fan



Καλοκαίρι
Summer
Ψύξη
Cooling



Φθινόπωρο
Autumn
Αφύγρανση
Dehumidifier



Χειμώνας
Winter
Θέρμανση
Heat

Technical characteristics

- ▶ 4 in 1: Cooling, Heating, Dehumidification, Fan
- ▶ Functional and compact design
- ▶ White finishing
- ▶ Double engine design and double heat exchange system
- ▶ Vertically adjustable air extraction
- ▶ Digital control panel with LED display
- ▶ User-friendly multi-functional remote control
- ▶ Programmable timer (0-24 hours)
- ▶ 2-speed fan
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- ▶ Easy to transport, with side-handles and wheels



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ΨΥΞΗΣ / ΘΕΡΜΑΝΣΗΣ
PORTABLE AIR CONDITIONER
COOL / HEAT

4seasons

TANK
0.5L



Drain valve
(tube not included)



Remote control

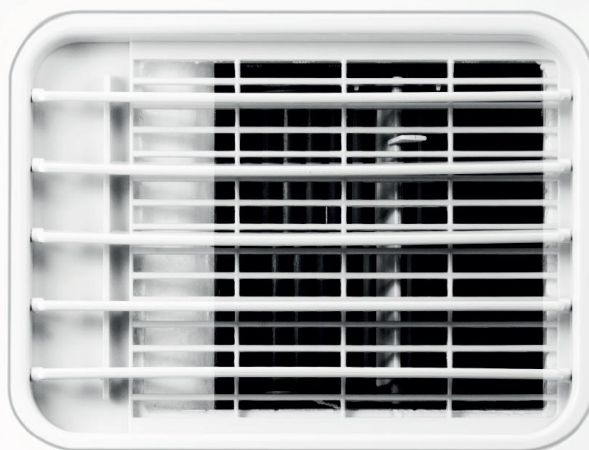


Τεχνικές
προδιαγραφές
Technical
specifications

A



	MM/units	Ψύξη Cooling	Θέρμανση Heating
Ψυκτική και θερμική απόδοση/ Cooling and heating capacity	Btu/h	9000	9000
EER/COP		2.60	2.30
Ενεργειακή κλάση/Energy class		A	A
Ικανότητα αφύγρανσης/ Dehumidification capacity	Lt/Day	34	
Ταχύτητες ανεμιστήρα/Fan speeds	No.	2	
Ψυκτικό μέσο/Refrigerant		R290	
Παροχή ηλεκτρικού ρεύματος/ Power supply	V/F/Hz	230/1/50	
Κλάση προστασίας/ Resistance class		IP 20	
Πλήρωση ψυκτικού μέσου / Refrigerant charge	gr	160	
Κατανάλωση / Input power	W	1000	1043
Καθαρό βάρος/ Net weight	Kg	20	
Διαστάσεις (Υ/Μ/Β) / Net dimensions (H/W/D)	mm	680/330/280	



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Cool & Heat & Fan & Dry

4*seasons*

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PORTABLE AIR CONDITIONER

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