ouraset

ENERGY THAT GIVES LIFE

SOLAR THERMAL SYSTEMS
product catalogue
2012

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the company

a corporation of high aspirations



technology

Ouraset follows the most state-of-the-art technology in the production of solar water heaters. Ultrasonic and laser welding of solar absorbers and fully automated tank welding lines are only a few examples.



training

Continous improvement of production and quality assurance techniques are sustained by constant training at OURASET production facilities. Welders and operators follow strict training programs to improve their welding performance as well as for the establishment of a common superior quality perspective.



r&d

OURASET has proven its pioneering role as an innovative solar company. Ouraset engineers are constantly developing new solar tanks and collectors responding to the requirements of various climatic zones and consumption patterns.

















quality control

****** boilers

Each tank is given a serial number at the initial stage of production to ensure that every material that goes into its production can be traced back to its origin.

Each tank is hydrostatically tested at 9 bar pressure. Welders mark their initials on each welding line. This makes possible that regular reports reveal welder performance.

Tanks soak into 8 different treatment pools before they are baked at around 900° C to ensure the perfect enatech coating.

The inner enamel lining is then inspected individually and a QC mark is assigned separately for the coating.

Final QC is carried out to identify products' compliance to customer specifications.









****** collectors



Once the quality approval mark is stamped on the product, the final QC notes of each product with a given serial number is recorded on a database.



Absorbers are hydrostaticly tested at 9 bar. Each absorber bears the initials of its welder to ensure tracability.



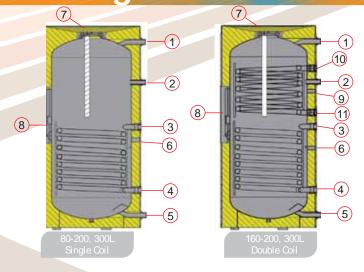
customer satisfaction we HAVE the HAPPIEST customers

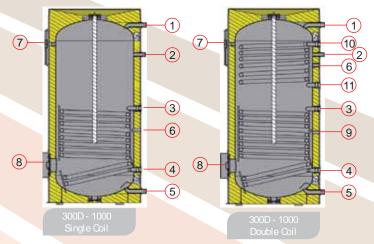
Our objective is to respond every customer request within

40 HOURS! Oustomer Satisfaction and the results of the Final QC Reports are displayed monthly at our premises to motivate our team to reach

96100 satisfaction and quality rates.

storage tanks





- - (8) HEATING ELEMENT SOCKET
 - (9) SENSOR SOCKET
 - 10 UPPER COIL INLET
 - (11) UPPER COIL OUTLET

- HIGHLIGHTS
- Available in 4 different types: accumulation, single coil, double coil or combi storage (800/160 & 1000/200).

1 HOTWATER OUTLET

(3) LOWER COIL INLET

4 LOWER COIL OUTLET

5 COLD WATER INLET6 SENSOR SOCKET7 THERMOMETER

(2) RE-CIRCULATION

- 13 bar body, 8 bar heat exchanger working pressure.
- Enatech porcelain enamel coating, an improved formula for extended corrosion protection.
- ☐ Bectrical heater element optional from 2 kw to 12 kw.
- Zipper-polyester casing avoids any damage during transport- several color options are available.
- Smart design with standard Mg anode and inspection hole.

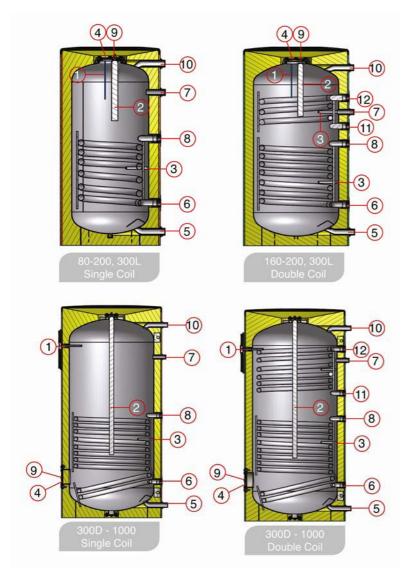
Model	V 80	V 100	V 120	V 160	V 200	V 300L	V 300D	V 400	V 500	V 800	V 1000
Net Capacity (It)	80	100	120	160	200	300	300	400	500	800	1000
Available Types *	[A] [S]	[A] [S]	[A] [S]	[A] [S] [D]	[A] [S] [D]	[A] [S] [D	[A] [S] [D]				
Diameter (ø)(mm)	500	500	600	600	600	600	740	740	740	1050	1050
Length (L)(mm)	900	1050	930	1150	1300	1810	1210	1560	1860	1700	2050
Coil surface (m²)	0,47	0,57	0,63	0,88	1,01	1,64	1,36	1,70	2,05	2,37	3,55
2nd coil surface (m²)				0,38	0,63	1,14	0,51	1,02	1,36	0,95	1,43

^{*}Types: Accumulation [A]



STANDARD SERIES

Schematic Description of Tanks:



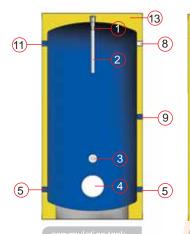
- 1. THERMOMETER INLET
- 2. MG ANODE
- 3. THERMOSTAT INLET
- 4. INSPECTION HOLE
- 5. COLD WATER INLET
- 6. PRIMARY COIL OUTLET
- 7. RECIRCULATION INLET
- 8. PRIMARY COIL INLET
- 9. ELECTRICAL ELEMENT INLET
- 10. HOT WATER OUTLET
- 11. SECONDARY COIL OUTLET
- 12. SECONDARY COIL INLET
- 13. INSULATION MATERIAL

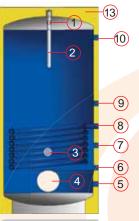
Model	V 80	V 100	V 120	V 160	V 200	V 300L	V 300D	V 400	V 500	V 800	V 1000
Net Capacity (It)	80	100	120	160	200	300	300	400	500	800	1000
Available Types*	(S)	(S)	(S)	(S) (D)							
Diameter (Ø) (mm)	500	500	600	600	600	600	740	740	740	1050	1050
Lenght (L)(mm)	900	1050	930	1150	1300	1810	1210	1580	1860	1700	2050
Coil Surface (m²)	0,47	0,57	0,63	0,88	1,01	1,64	1,36	1,70	2,05	2,37	3,55
2nd coil surface (m²)				0,38	0,63	1,14	0,51	1,02	1,36	0,95	1,43

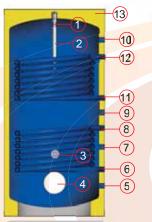
Single Coil [S] Double Coil [D]

^{*}Highlighted columns are models used in standard Villaset range

storage tanks







double coil



- 2 MG ANODE
- (3) THERMOSTAT INLET
- 4) INSPECTION HOLE
- (5) COLD WATER INLET
- 6 PRIMARY COIL OUTLET
- 7 REGROULATION INLET
- 8 PRIMARY COIL INLET
- 9 ELECTRICAL ELEMENT INLET
- 10 HOT WATER OUTLET
- (11) SECONDARY COIL OUTLET
- (12) SECONDARY COIL INLET
- (13) INSULATION MATERIAL



HIGHLIGHTS

- Available in 3 different types: accumulation, single coil, double coil.
- Minimum heat loss due to dense 50 mm polyurethane insulation even in high storage volumes.
- Enatech porcelain enamel coating, an improved formula for extended corrosion protection.
- 10 bar body, 8 bar heat exchanger working pressure.
- Standard Bectrical heater inlet for all-season heating back-up.
- Durable casing, outdoor use thanks to electro-static painted galvanized steel case.
- Smart design with standard Mg anode and inspection hole.

TANK MODELS	G 1000	G1250	G 1500	G2000	G2500	G3000	G 4000
Net Capacity	1000 It	1250 It	1500 It	2000 It	2500 It	3000 lt	4000 lt
Types	[A] [S] [D]						
Diameter (ø)(mm)	1010	1100	1120	1260	1320	1460	1550
Length (L)(mm)	2180	1967	2470	2500	2500	2750	2710
Coil surface (m²)	3,08	2,80	4,97	4,97	4,00	7,00	6,40
2nd coil surface (m²)	1,54	2,80	2,18	2,18	4,00	3,40	6,40

*Types: Accumulation [A]

Single Coil [S]

Double Coil [D]



GIGA SERIES

SINGLE COIL TANKS							
Capacity (It)	Diameter	Height	SERPENTINE SURFACE (m ²)	WEIGHT			
1000	1010	2130	3,8	352			
1500	1120	2420	4,97	407			
2000	1260	2450	4,97	537			
3000	1460	2750	7	810			
4000	1550	2710	6,4	995			

	DOUBLE COIL TANKS								
Capacity (lt)	Diameter	Height	SERPENTINE SURFACE TOP (m²)	SERPENTINE SURFACE BUTTOM (m ²)	WEIGHT				
1000	1010	2130	1,54	3,08	391				
1500	1120	2420	2,18	4,97	447				
2000	1260	2450	2,18	4,97	582				
3000	1460	2750	3,4	7,00	895				
4000	1550	2710	6,4	6,4	1065				

ACCUMULATION TANKS							
Capacity (It)	Diameter	Height	SERPENTINE SURFACE (m ²)	WEIGHT			
1000	1010	2180		302			
1500	1120	2470		350			
2000	1260	2500		470			
3000	1460	2750		640			
4000	1550	2710		925			

• Working pressure: 10 bar

• Test pressure: 15 bar

• Insulation: Polyurethane 50 mm.

• Carbon steel with porcelain enamel coating



HERA MUHENDISLIK TAAH. ve TIC. LTD. STI Adana - Ceyhan Yolu 10. Km 01340 Incirlik-ADANA / TURKEY Tel: +90 322 346 49 00 (PBX) Fax: +90 322 346 50 08



January 10th of 2012 Adana, Turkey

To whom it may concern,

Further to your request, we hereby declare the thickness of the steel on "V" and "G" series boilers as shown below:

VSER	IES BOILERS
Product	Body Thickness (mm)
80 lt	1,8
100 lt	1,8
120 lt	2,5
160 lt	2,5
200 lt	2,5
300 lt	3
400 lt	. 3 - 4
500 lt	3
800 lt	4

G SERIE	S BOILERS	Body Thickness (mm)
G1000	A-S-D	4
G1250	A-S-D	4
G1500	A-S-D	5
G2000	A-S-D	6
G2500	A-S-D	6
G3000	A-S-D	6
G4000	A-S-D	6

Note that HERA MUHENDISLIK delivers large capacity tanks with different specifications to its customers. The thickness of the tanks shown above may differentiate depending on the specifications of the related project and the pressure rate of the tank. Furthermore, HERA MUHENDISLIK keeps its right to change on the standard product range for special projects.

Best Regards,

Çağrı TANSUĞ General Manager

HERA MUHEMDISLIK
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June 15, 2012

DECLARATION OF CONFORMITY

To Whom it may concern,

We hereby declare that the vertical tanks are manufactured accordigng to the following working pressures.

Capacity	V80- V 1000	G 1000- 4000 LT
Model	(Vertical Standard Series Tanks Accumulation- Single/Double Coil)	(Giga Series Tanks Accumulation- Single/Double Coil)
Coil Working Pressure		
	8	8
Body Working Pressure	13	10

Best regards

Adama Coma Kongoliu 10. No. No. 15 Actritivanana Tel: 330, 36 49 00 Fax 0322, 346 50 08 www.tansug.comptr

UTKU TANSUG

TANSUG MAKINA SAN VE TIC LTD STI Managing Director- Sales & Marketing

Certificate

Standard

ISO 9001:2008

Certificate Registr. No. 01 100 093964

TÜV Rheinland Cert GmbH certifies:

Certificate Holder:

TANSUĞ MAKİNA SAN. TİC. LTD. ŞTİ.

Ceyhan Yolu 10. Km İncirlik - Adana / Turkey

Scope:

Design, production and sales of Mechanical Contracting Projects, Various Storage Tanks and Machinery; Solar Thermal Systems, Solar Collectors,

Pressurized Boilers

An audit was performed, Report No. 093964. Proof has been furnished that the requirements according to ISO 9001:2008 are fulfilled.

The due date for all future audits is 28-07.

Validity:

The certificate is valid from 2009-08-17 until 2012-08-16

First certification 2009

Istanbul, 17.08.2009

TÜV Rheinland Cert GmbH *) Am Grauen Stein - 51105 Köln



TGA-ZM-58-95-00

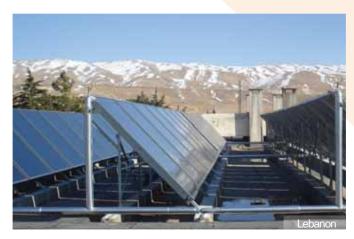




on roofs around the world















MISSION STATEMENT

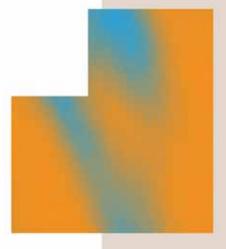


"make available to mass populations systems that work with the clean and economicenergy of the sun"



"make the sun one of the main energy sources of our times"





www.ouraset.com



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