



**NEW**



**INDIRECTLY HEATED WATER TANK**  
with 45° ANGLED INLETS AND OUTLETS

# IHWT | 45° angled inlets and outlets

**TESY** developed a new range of indirectly heated water tanks with 45° angled inlets and outlets for **EASY AND CONVINIENT INSTALLATION**.

Suitable for **NEW INSTALLATIONS** and **RENOVATIONS** of existing systems. Specially designed for mounting in narrow spaces with an **EASY ACCESS** to all openings for maintenance.

Wide range from 200 L to 2000 L models of **FLOOR-STANDING** storage tanks for domestic hot water. Compatible for usage in single and multi-family residential buildings, as well as offices, leisure and industrial premises.

- **SPACE SAVING.** Specially designed for narrow spaces, such as small technical rooms, corner areas or under stairs.
- High quality **ENAMEL COATING** with **TESY CrystalTech PRO** technology.
- **TWO HEAT EXCHANGERS** for connection to **RENEWABLE ENERGY SOURCES**, such as solar panels or other heat sources.
- **LOW POSITION** of the **LOWER HEAT EXCHANGER** to ensure efficient water heating in the cold section of the tank.
- **MAGNESIUM ANODE PROTECTION** of the inner tank surface for extended product life:
  - **ONE MG+** anode for the model 200 L
  - **TWO MG+** anodes for the models from 300 L to 1000 L
  - **THREE MG+** anodes for the models of 1500 L and 2000 L
- **HIGHLY EFFICIENT INSULATION\*** for minimal heat losses.
- **SERVICE OPENING** for easy inspection and maintenance.
- Option for **INSTALLATION** of electric **HEATING ELEMENTS** with different power ratings.
- Thermoregulator installation pocket.
- Pockets for thermo sensors.
- Thermoindicator.

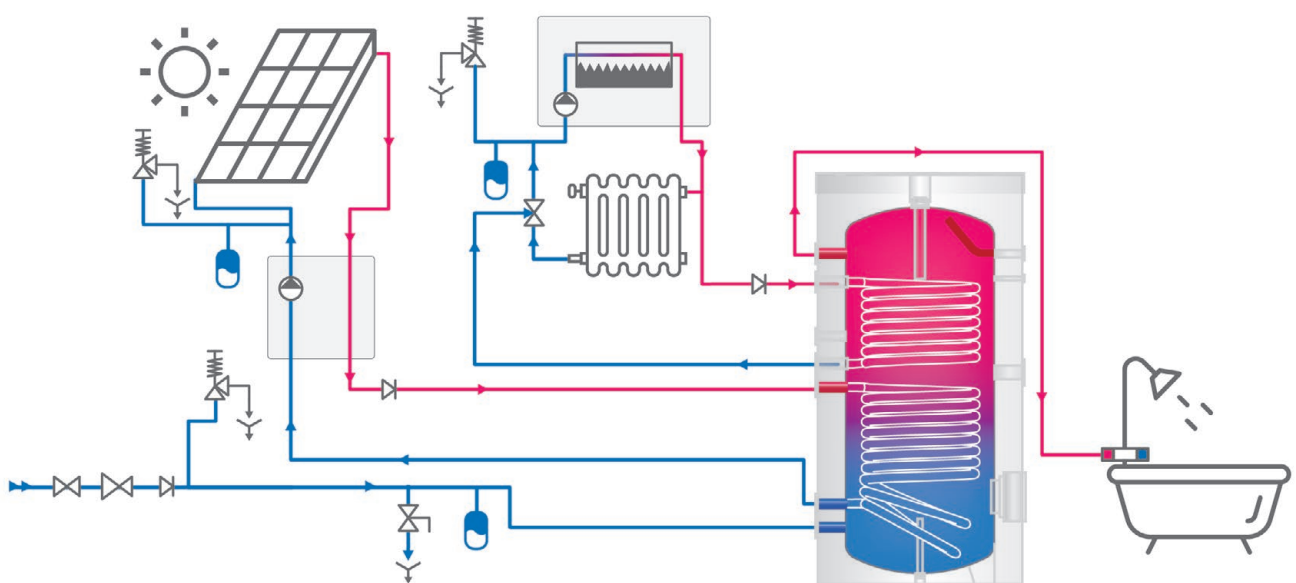
\*CFC free PU foam for models up to 500 L and optimized polyester insulation for the models from 800 L to 2000 L.







## EXAMPLE OF INSTALLATION AND CONNECTION





## IHWT | 45° angled inlets and outlets

MODELS		TESY EV 7/5 S2 200 60 45D	TESY EV 10/7 S2 300 65 45D	TESY EV 15/7 500 75 45D	TESY EV 12/9 S2 800 99 45D	TESY EV 13/7 S2 1000 105 45D	TESY EV 12/8 S2 1500 120 45D	TESY EV 14/9 S2 2000 130 45D
Art.number	Nº	305230	305268	305270	305284	305359	305361	305306
Capacity	L	189	279	464	757	932	1414	1822
Net weight	kg	71	104	157	267	310	468	529
Insulation	mm	50	50	50	100	100	100	100
<b>Heat exchanger surface S1</b>	<b>m²</b>	<b>0.76</b>	<b>1.20</b>	<b>2.18</b>	<b>2.68</b>	<b>3.28</b>	<b>3.43</b>	<b>4.50</b>
Heat exchanger capacity S1	L	4.50	7.40	13.70	23.77	28.55	29.60	41.60
<b>Heat exchanger surface S2</b>	<b>m²</b>	<b>0.55</b>	<b>0.86</b>	<b>1.10</b>	<b>1.45</b>	<b>1.28</b>	<b>2.30</b>	<b>2.75</b>
Heat exchanger capacity S2	L	3.20	5.20	6.40	8.40	7.90	20.50	25.20
Heat losses $\Delta T_{45K}$	W	59	68	95	128	142	158	183
Energy efficiency class		B	B	C	C	C	C	C
Maximum operational temperature	°C	95°	95°	95°	95°	95°	95°	95°
Maximum operational temperature of heat exchanger	°C	110°	110°	110°	110°	110°	110°	110°
Rated pressure	bar	8	8	8	8	8	8	8
Rated pressure of the heat exchanger	bar	6	6	6	6	6	6	6
Heat exchanger reheat performance P at flow rate of primary side (S1)	kW (l/min)	13.5 (21)	21.8 (25)	37.3 (29)	62.2 (100)	77.2 (50)	94.5 (100)	113.1 (100)
Heat exchanger reheat performance P at flow rate of primary side (S2)	kW (l/min)	10.8 (21)	19.9 (25)	23.3 (29)	40.3 (100)	36.5 (50)	64.8 (100)	77.1 (100)
V40 -hot water delivered with a temperature of at least 40 °C (S1)	L	285	380	621	1 271	1 402	Upon request	Upon request
V40 -hot water delivered with a temperature of at least 40 °C (S2)	L	128	173	251	496.6	604	Upon request	Upon request
Reheat time 10-60°C rate at primary side (S1)	min (l/min)	45.1 (21)	38.4 (25)	36.3 (29)	48.8 (50)	50.2 (50)	Upon request	Upon request
Reheat time 10-60°C rate at primary side (S2)	min (l/min)	25.3 (21)	19.4 (25)	23.7 (29)	27.6 (50)	40.5 (50)	Upon request	Upon request
Coil Pressure drop at flow rate m3/h (S1)	mBar (l/min)	39.5 (21)	45.4 (25)	151.3 (29)	95.0 (50)	82.6 (50)	Upon request	Upon request
Coil Pressure drop at flow rate m3/h (S2)	mBar (l/min)	23.4 (21)	32.9 (25)	90.2 (29)	168.8 (50)	174.3 (50)	Upon request	Upon request

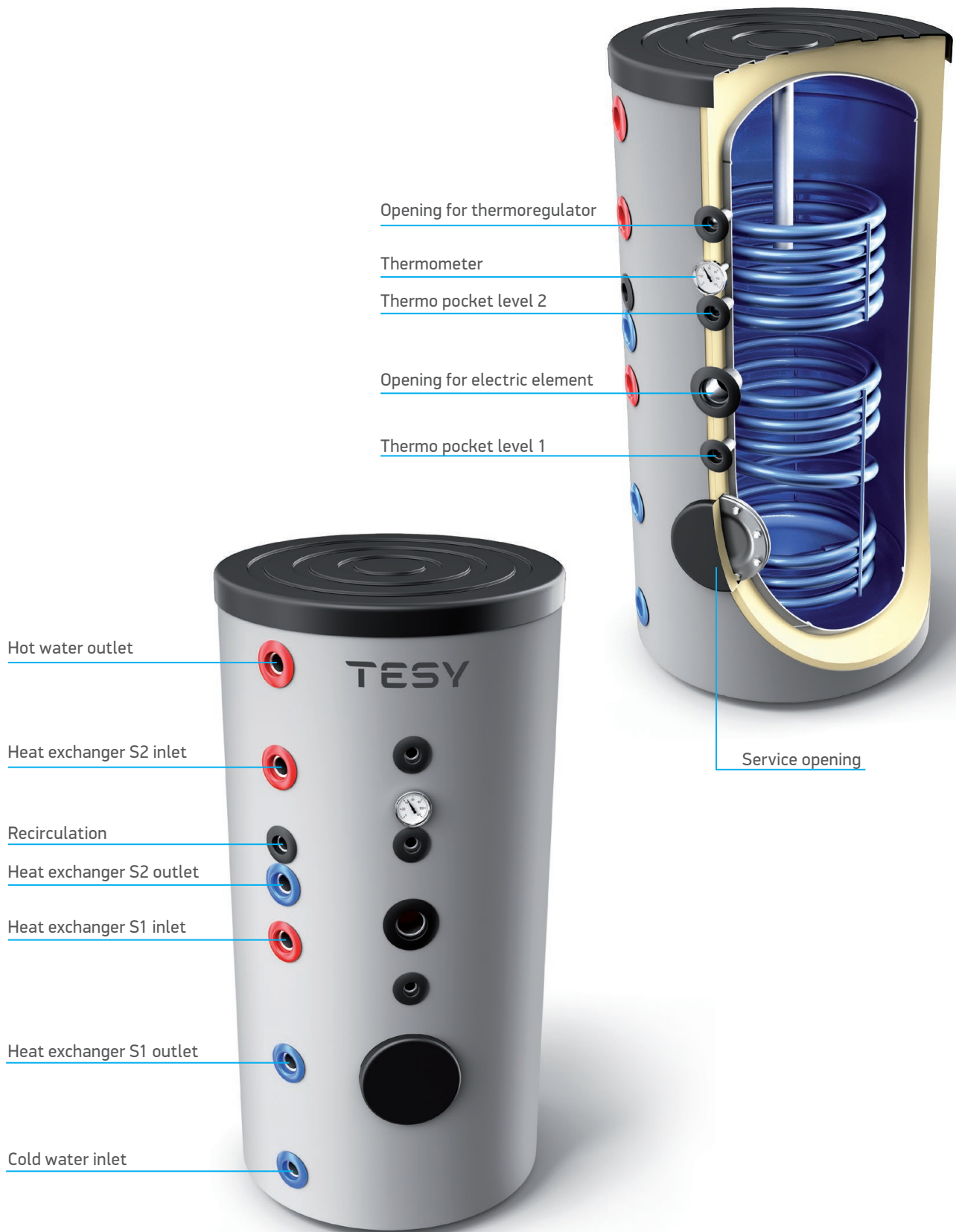
\* - outlet - inlet temperature of the heat transfer fluid

\*\* -10°C - cold water temperature, 60°C - hot water temperature (domestic water)





## IHWT | 45° angled inlets and outlets

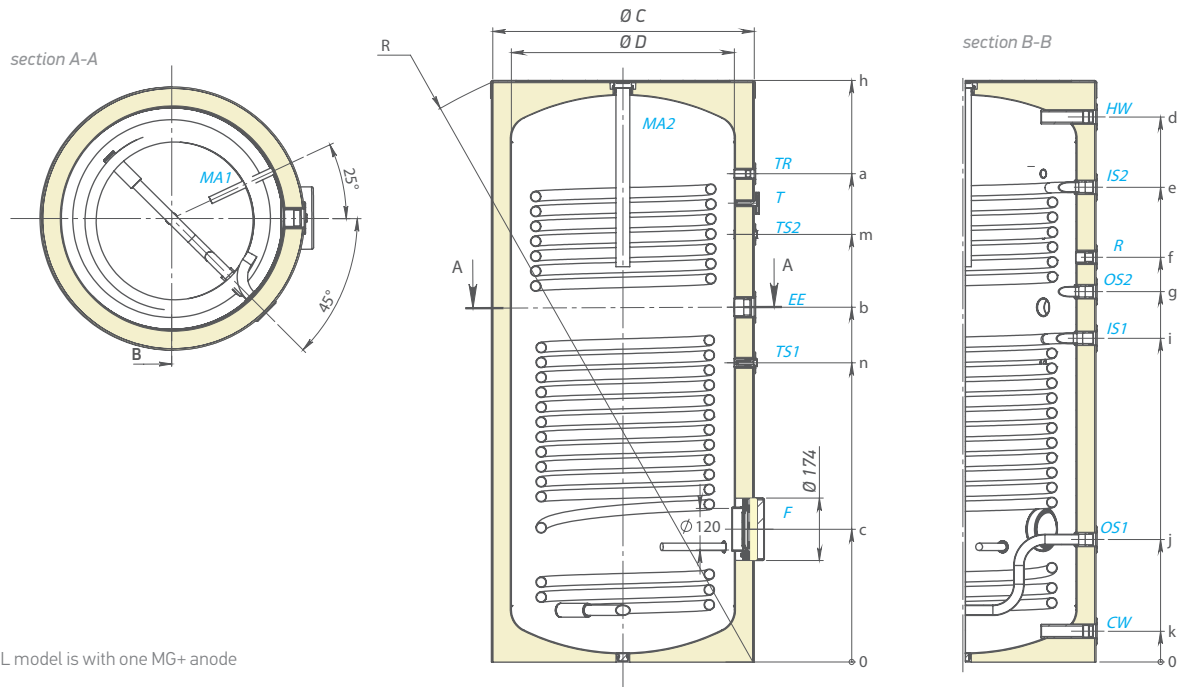




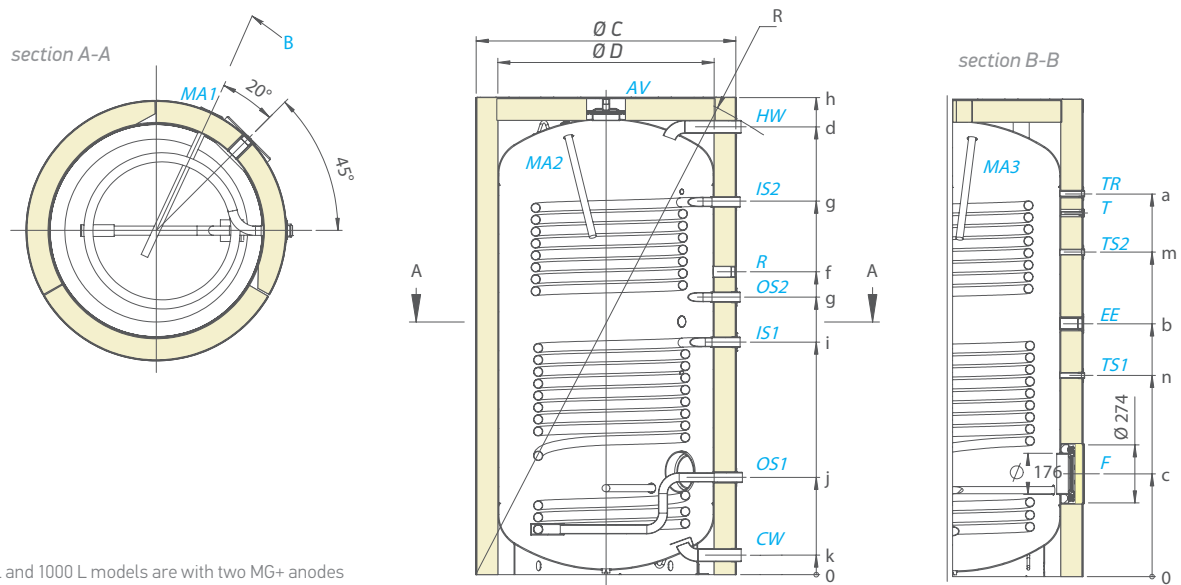


## IHWT | 45° angled inlets and outlets

200 L\* - 500 L



800 L\*\* - 2000 L

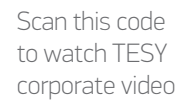
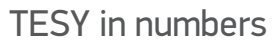


MODELS		TESY EV 7/5 S2 200 60 45D	TESY EV 10/7 S2 300 65 45D	TESY EV 15/7 S2 500 75 45D	TESY EV 12/9 S2 800 99 45D	TESY EV 13/7 S2 1000 105 45D	TESY EV 12/8 S2 1500 120 45D	TESY EV 14/9 S2 2000 130 45D
<b>CW</b>	Cold water inlet	G1	G1	G1	G1 1/2	G1 1/2	G2	G2
<b>HW</b>	Hot water outlet	G1	G1	G1	G1 1/2	G1 1/2	G2	G2
<b>IS1</b>	Heat exchanger inlet	G1	G1	G1	G1 1/2	G1 1/2	G1 1/2	G1 1/2
<b>OS1</b>	Heat exchanger outlet	G1	G1	G1	G1 1/2	G1 1/2	G1 1/2	G1 1/2
<b>IS2</b>	Heat exchanger inlet	G1	G1	G1	G1	G1	G1 1/2	G1 1/2
<b>OS2</b>	Heat exchanger outlet	G1	G1	G1	G1	G1	G1 1/2	G1 1/2
<b>R</b>	Recirculation	G3/4	G3/4	G3/4	G3/4	G3/4	G1 1/2	G1 1/2
<b>T</b>	Thermometer	Ø 14x1.5	Ø 14x1.5	Ø 14x1.5	Ø 14x1.5	Ø 14x1.5	Ø 14x1.5	Ø 14x1.5
<b>TR</b>	Opening for thermoregulator	G1/2	G1/2	G1/2	G1/2	G1/2	G1/2	G1/2
<b>TS1</b>	Thermo pocket level 1	G1/2	G1/2	G1/2	G1/2	G1/2	G1/2	G1/2
<b>TS2</b>	Thermo pocket level 2	G1/2	G1/2	G1/2	G1/2	G1/2	G1/2	G1/2
<b>EE</b>	Opening for electric element	G1 1/2	G1 1/2	G1 1/2	G1 1/2	G1 1/2	G1 1/2	G1 1/2
<b>MA1</b>	Magnesium anode 1	-	G3/4	G3/4	G1 1/4	G1 1/4	G1 1/4	G1 1/4
<b>MA2</b>	Magnesium anode 2	G1 1/2	G1 1/2	G1 1/2	G1 1/4	G1 1/4	G1 1/4	G1 1/4
<b>MA3</b>	Magnesium anode 3	-	-	-	-	-	G1 1/4	G1 1/4

Thread designations according to EN ISO 228-1!

DIMENSIONS ±5mm			TESY EV 7/5 S2 200 60 45D	TESY EV 10/7 S2 300 65 45D	TESY EV 15/7 S2 500 75 45D	TESY EV 12/9 S2 800 99 45D	TESY EV 13/7 S2 1000 105 45D	TESY EV 12/8 S2 1500 120 45D	TESY EV 14/9 S2 2000 130 45D
h	mm	Height	1 202	1 422	1 677	1 947	2 012	2 207	2 412
a	mm	TR	955	1 179	1 408	1 591	1 649	1 770	1 918
b	mm	EE	649	786	1 023	1 110	1 232	1 170	1 338
c	mm	Flange	342	345	383	465	474	475	533
d	mm	HW	1 090	1 415	1 571	1 779	1 846	2 070	2 246
e	mm	IS2	912	1 116	1 369	1 567	1 564	1 723	1 903
f	mm	R	772	915	1 167	1 305	1 414	1 400	1 551
g	mm	OS2	697	815	1 068	1 180	1 263	1 283	1 408
i	mm	IS1	587	700	933	1 040	1 109	1 075	1 243
j	mm	OS1	339	347	353	440	508	450	463
k	mm	CW	105	89	89	82	82	90	90
m	mm	TS1	525	595	863	840	1 017	930	878
n	mm	TS2	797	960	1 233	1 430	1 469	1 500	1 528
R	mm	Diagonal	1 340	1 565	1 838	2 182	2 269	2 512	2 740
ØC	mm	Diameter with insulation	600	650	750	990	1 050	1 200	1 300
ØD	mm	Diameter water tank	500	550	650	790	850	1 000	1 100





TESY is one of the leading European producers of **electric storage water heaters, indirectly heated water tanks, electric heating appliances and heat pump water heaters.**

In the last decade TESI demonstrated a rapid development and introduced a wide range of cutting-edge products and patented solutions that meet the current requirements for energy efficiency and environmental protection.

The company continues its growth by investing in the latest technologies, production capacity and new products.

Since October 2017, **TESY has been an official member of the EHPA** (European Heat Pump Association), which aims to provide technical and financial support to European, national and local authorities on legislative, regulatory and energy efficiency matters.

**TESY is also a member of the European Technical Commission** which focuses on the development of European regulations regarding energy efficiency, for which we carry out laboratory tests and analyses of electric water heaters in order to verify and validate the methodology described in the European regulations.







TESY is committed to integrate Corporate Social Responsibility into all business policies and practices and thus minimise the environmental impact during production.

We strive to constantly improve established processes and we are strictly following all regulations for environmental protection.

As our focus is on efficiency, our appliances can also use alternative sources of energy.



**tesy.com**



**Tesy Ltd.**

Sofia Park, Building 16 V, 2nd Floor  
1766 Sofia, Bulgaria

This is a marketing material and it is not an offer.  
For specific models, please contact your dealer.

Copyright © All Rights Reserved, v. 1 2023 – TESI Ltd.