



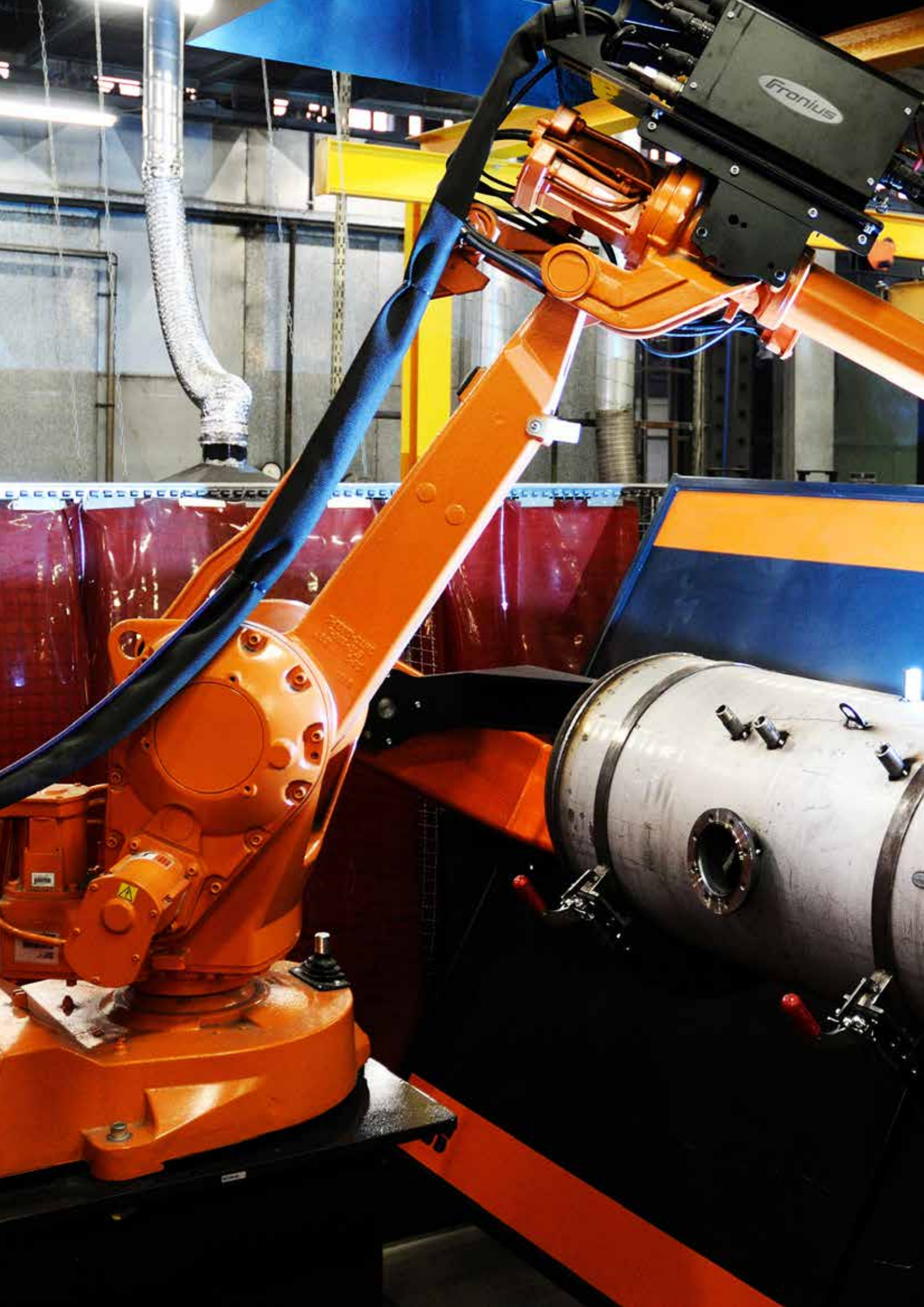
with renewable energy!

A photograph of a woman with her eyes closed and a smile, enjoying a shower. Water is spraying over her hair and shoulders. The image is framed by blue geometric shapes.

PRODUCT CATALOGUE



www.hajdurt.hu





We must observe and continue the traditions of our nearly 70-year old Company Group, the culture of mutual respect, as well as the appreciation of our companies in our environment and by partners, and our recognition as a conservatively organised local company with reliable operation providing security.

HAJDU Group is recognised by our partners and customers, both in Hungary and abroad, as a reliable player in our economy, due mainly to our durable, excellent quality, reliable products.

All these have allowed, and will allow us in the future to ensure employment for our nearly 800 employees, as well as continuously growing living standard for their families.

Our aim is to further increase the good reputation and recognition of our companies building on our traditions.

Lajos Novotni
President of HAJDU Group

HISTORY

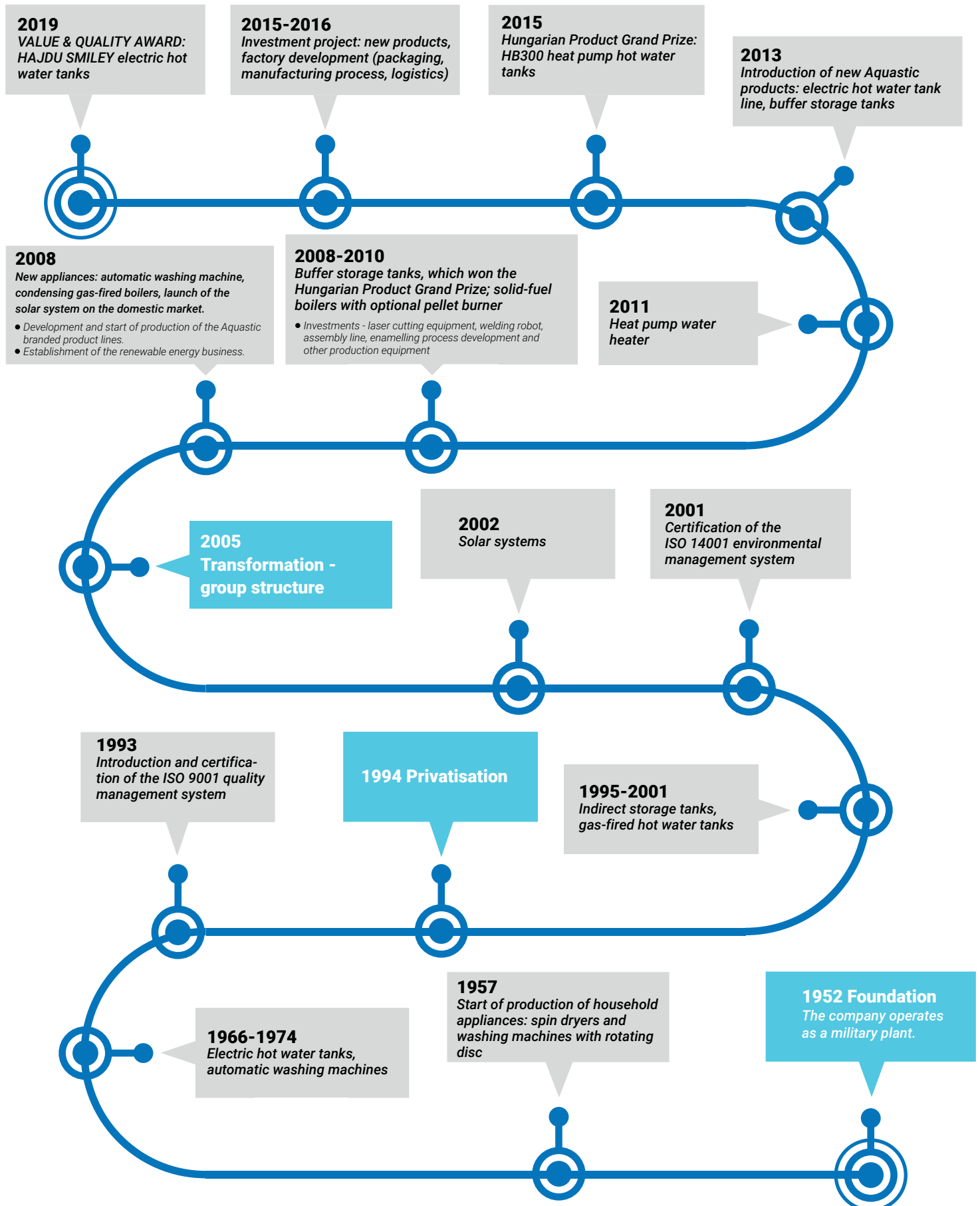


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Electrical or electronic equipment included in this Product Catalogue contain components (for example, cables) which, after becoming waste, are classified as hazardous wastes. Hazardous substances in electrical, electronic equipment have a harmful impact on the environment (in particular, the soil and groundwater) and human health, if they are not used and operated in compliance with the relevant environmental regulations. Thus, you are requested to comply with the following requirements, in the interest environment protection:



CONFORMS TO THE
EUROPEAN SAFETY
REGULATIONS



CONFORMS TO THE
EUROPEAN ENERGY
EFFICIENCY
REGULATIONS

- Electrical and electronic equipment that has become waste must be collected separately, it may not be placed in the same waste receptacle as municipal wastes, and it cannot be disposed of as municipal waste.
- You can leave used and waste electrical and electronic equipment free of charge at the point of sale, or with any distributor selling electrical and electronic equipment that is identical in nature with or has the same functionality as the used and waste electrical or electronic equipment.
- By proceeding this way, you can play a valuable role in the re-use, and preparation for re-use of electrical and electronic equipment, and in the reduction of the quantity, the recovery or other forms of recycling of electrical and electronic equipment that has become waste.
- As a manufacturer, we will bear all costs arising in connection with the fulfilment of the abovementioned obligations and expectations. Furthermore, we commit ourselves to paying these costs by issuing the present declaration.

HAJDU Zrt. reserves the right to implement changes. Valid from February 2021



ELECTRIC HOT WATER STORAGE TANKS

Z..., AQ..., C..., SY..., SMART, F...

Electric hot water storage tanks are designed to supply hot water needs. The tank of electric water heaters is made of steel, while protection against corrosion is ensured by a special titanium enamel coating and magnesium active anode. These appliances can supply multiple water withdrawal locations and faucets with shower. The thermal insulation of the appliances consists of freon-free polyurethane insulating foam. The versions with metal housing are applied nanoceramic surface pretreatment.

Our electric hot water storage tanks are available with HAJDU and AQUASTIC brand names, from 10 to 300 litres, and with various positioning options: wall mounted vertical, horizontal and floor-standing design.

The new generation units of the **HAJDU CUBE and SMART** series have **self-learning system with SMART Control** that enables increased efficiency and cost-effectiveness in the production of domestic hot water. The streamlined Aquastic FLAT models already have an accessible temperature regulator; these dual tank units can be installed both vertically and horizontally.

All new generation models are equipped with a ceramic (steatite) heater, whose great advantages include low scaling, longer service life and significantly lower servicing costs.

The **SMILEY** model features a special split ceramic heater. This unique design developed by HAJDU brings significant energy savings due to the possibility of heating the lower and upper parts of the tank to arbitrarily chosen, different temperatures.



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with renewable energy!





INSTALLATION
WITH ANY FAUCET
TYPE

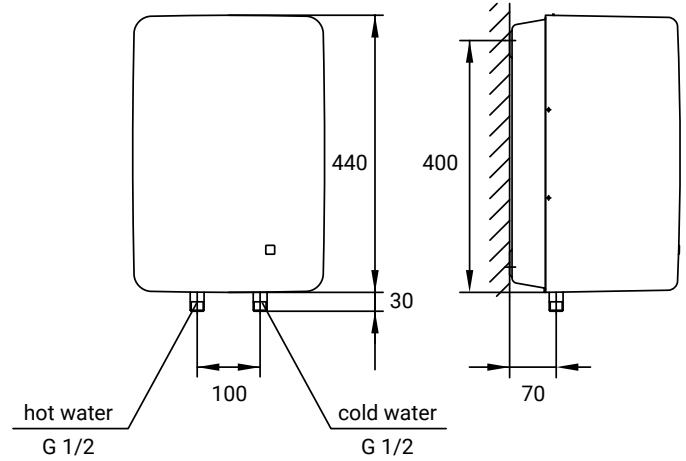


SUPPLY OF
MULTIPLE WATER
WITHDRAWING
LOCATIONS



CORROSION
PROTECTION WITH
ACTIVE ANODES

ZF10 ABOVE-SINK INSTALLATION



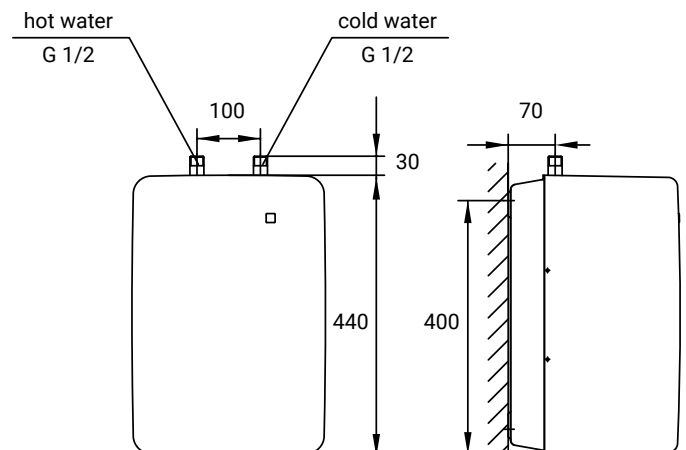
7*
YEAR
WARRANTY

*2 years full
7 year tank warranty

*For more information about
the products and warranty terms,
please visit www.hajdurt.hu

TYPE		ZF10	ZA10
Volume	[litre]	10	
Length	[mm]	440	
Width	[mm]	340	
Depth	[mm]	270	
Water connection		G1/2	
Max. operating pressure	[MPa]	0,6	
Electric power	[kW]	1,2	2
Heat-up time to 65 °C	[minute]	30	18
Standby energy consumption	[kWh/24h]	0,6	
Weight	[kg]	8	
Hot water temperature	[°C]	max. 75	max. 65
Maximum load profile		XS	XS
Energy efficiency class		C	C

ZA10 UNDER-SINK INSTALLATION



ELECTRIC HOT WATER STORAGE TANKS



INSTALLATION WITH ANY FAUCET TYPE



SUPPLY OF MULTIPLE WATER WITHDRAWING LOCATIONS



CORROSION PROTECTION WITH ACTIVE ANODES



ADJUSTABLE WATER TEMPERATURE

AQ10F ABOVE-SINK INSTALLATION



TYPE	AQ10F	AQ10A
Volume [litre]	10	
Electric power [kW]	1,6	2
Heat-up time to 65 °C [minute]	24	18
Standby energy consumption [kWh/24h]	0,5	1
Max. operating pressure [MPa]	0,6	
Weight [kg]	7	
Hot water temperature [°C]	max. 80	
Maximum load profile	XS	XS
Energy efficiency class	C	C

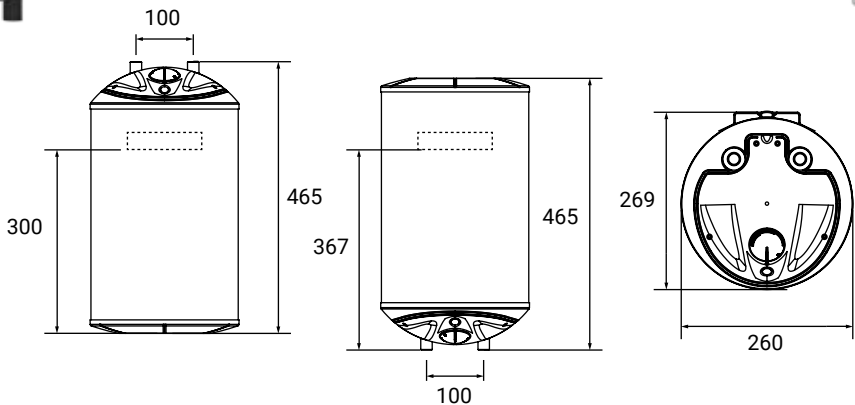
AQ10A UNDER-SINK INSTALLATION



5*
YEAR WARRANTY

*2 years full
5 year tank warranty

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HUNGARIAN PRODUCT

ZF15 ABOVE-SINK INSTALLATION



TYPE	ZF15	ZA15
Volume [litre]	15	
Electric power [kW]	2	
Heat-up time to 65 °C [minute]	30	
Standby energy consumption [kWh/24h]	0,85	
Max. operating pressure [MPa]	0,6	
Weight [kg]	11	
Hot water temperature [°C]	max. 80	
Maximum load profile	XS	XS
Energy efficiency class	C	C

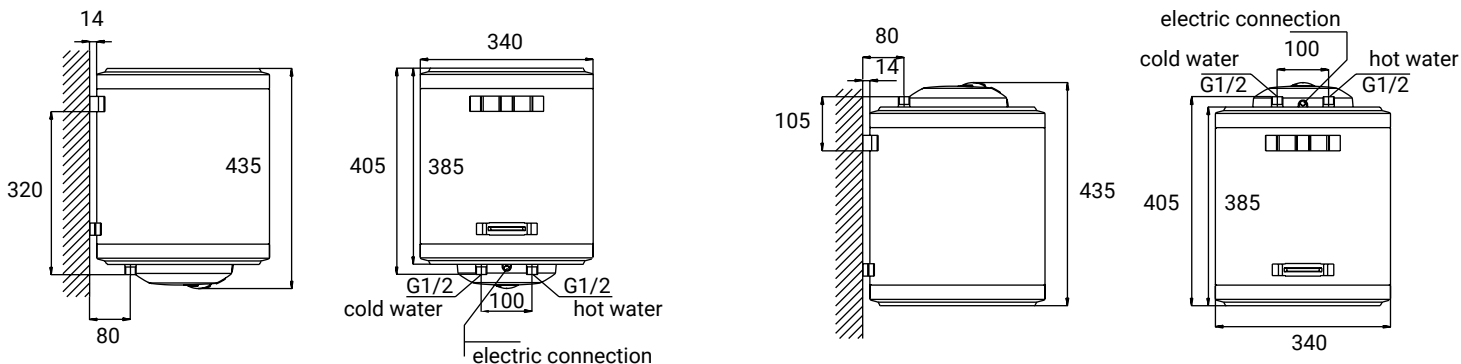
ZA15 UNDER-SINK INSTALLATION



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YEAR WARRANTY

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7 year tank warranty

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ELECTRIC HOT WATER STORAGE TANKS, WALL MOUNTED VERTICAL MODELS



EXCELLENT
THERMAL
INSULATION



CORROSION
PROTECTION WITH
ACTIVE ANODES

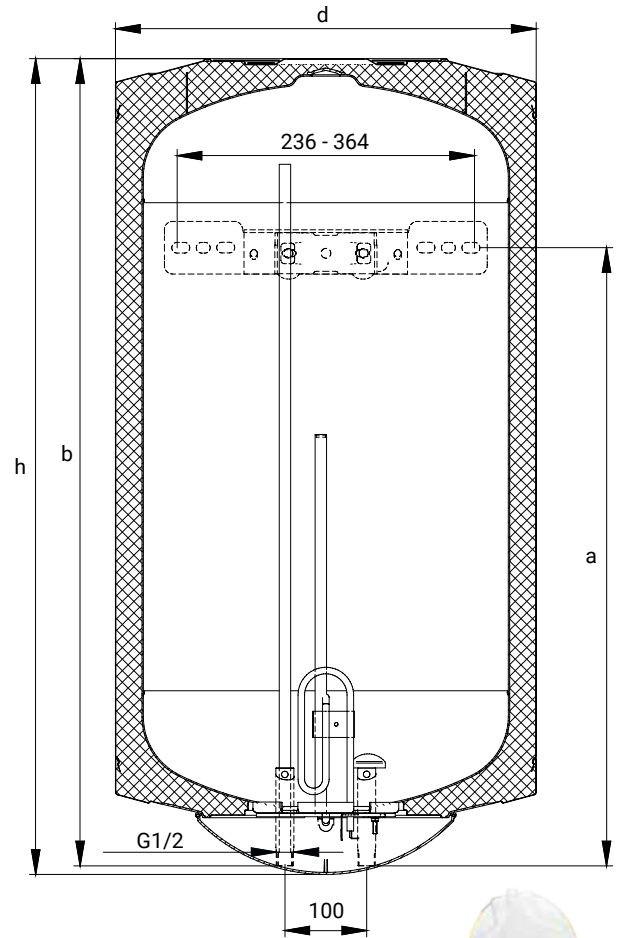


ADJUSTABLE
WATER
TEMPERATURE

Z...ErP



**HUNGARIAN
PRODUCT**



7*
YEAR
WARRANTY

* 2 years full
7 year tank warranty

*For more information about
the products and warranty terms,
please visit www.hajdurt.hu

The tank of electric water heaters is made of steel, while protection against corrosion is ensured by a special titanium enamel coating and magnesium active anode. These appliances can supply multiple water withdrawal locations and faucets with shower.

The thermal insulation of the appliances consists of freon-free polyurethane insulating foam.



TYPE	Z30ErP	Z50ErP	Z80ErP	Z120ErP	Z150ErP	Z200ErP	
Volume [litre]	30	50	80	120	150	200	
h [mm]	540	550	725	1010	1025	1535	
d [mm]	410	515				544	
a [mm]	343	340	500	750	950	1235	
b [mm]	493	480	650	930	1125	1447	
Water connection	G1/2						
Max. operating pressure [MPa]	0,6						
Electric power [kW]				1,8			2,4
Heat-up time to 65°C [h]	1,0	1,8	2,8	4,2	5,3	5,3	
Standby energy consumption [kWh/24h]	0,77	0,89	1,0	1,5	1,5	1,7	
Weight [kg]	16	20	27	33	39	52	
Hot water temperature [°C]	max. 80						
Maximum load profile	S	M	M	L	L	L	
Energy efficiency class	C	C	C	C	C	C	



SMART CONTROL



CERAMIC HEATING ELEMENT, MINIMAL SCALING, LONGER SERVICE LIFE

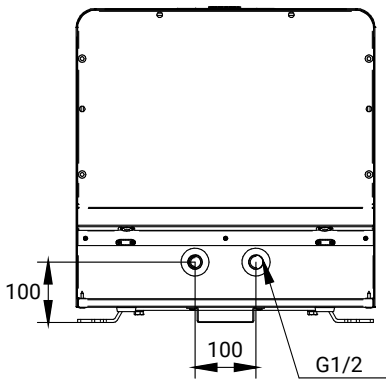
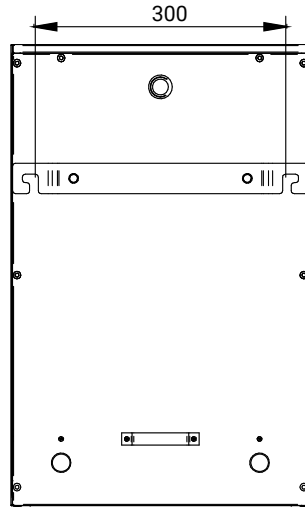
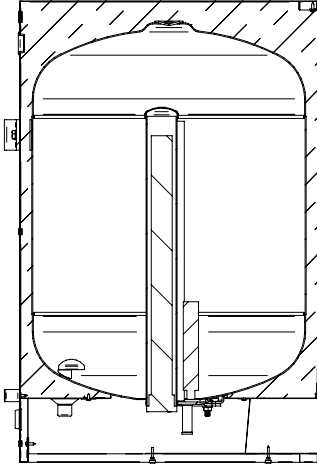


EXCELLENT THERMAL INSULATION

ELECTRIC HOT WATER STORAGE TANKS, WALL MOUNTED VERTICAL MODELS

hajdu

CUBE



C...S

7*
YEAR
WARRANTY

*2 years full
7 year tank warranty

*For more information about the products and warranty terms, please visit www.hajdurt.hu

TYPE		C50S	C80S	C120S	C150S	C200S
Volume	[litre]	50	80	120	150	200
Height	[mm]	587	757	1037		1324
Width	[mm]	490			540	
Depth	[mm]	490			540	
Water connection		G1/2			G3/4	
Max. operating pressure	[MPa]	0,6				
Electric power	[kW]	1,2	2,4			
Heat-up time	[h]	2,63	2,1	3,16	3,95	5,26
Standby energy consumption at 65°C	[kWh/24h]	0,94	1,1	1,38	1,56	1,6
Weight	[kg]	24	38	49	56	68
Hot water temperature	[°C]	max. 75				
Maximum load profile		M	M	M	L	L
Energy efficiency class		B	B	B	C	C

ELECTRIC HOT WATER STORAGE TANKS, WALL MOUNTED VERTICAL MODELS



WATER HEATER WITH
LAYER HEATING
TECHNOLOGY



CERAMIC HEATING
ELEMENT, MINIMAL
SCALING, LONGER
SERVICE LIFE



EXCELLENT
THERMAL
INSULATION

hajdu

SMILEY



**HUNGARIAN
PRODUCT**

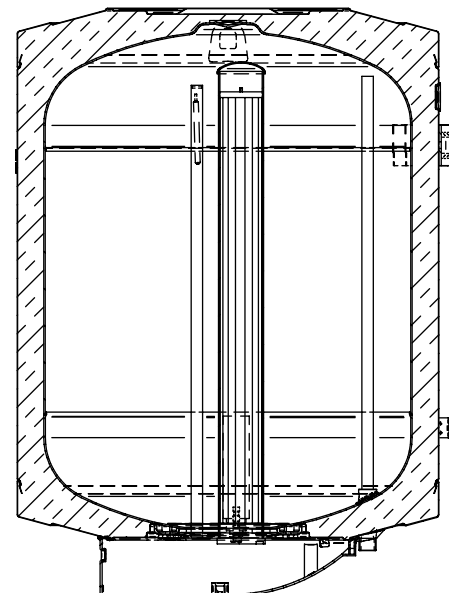
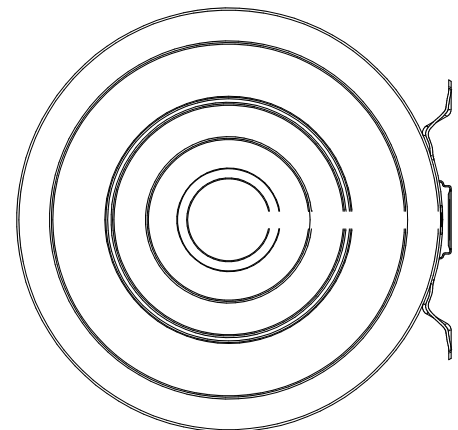
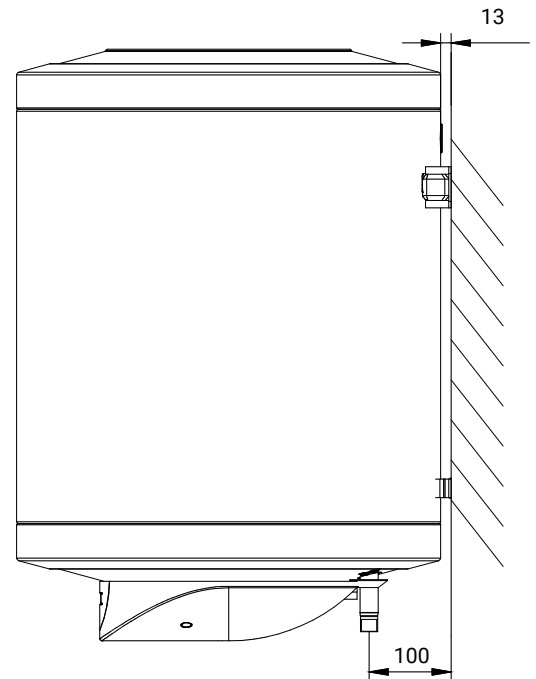
7*
**YEAR
WARRANTY**

*2 years full
7 year tank warranty

*For more information about
the products and warranty terms,
please visit www.hajdurt.hu

SY...R

TYPE		SY80R	SY120R	SY150R
Volume	[litre]	80	120	150
Height	[mm]	720	1000	1195
Diameter	[mm]	515		
Water connection		G1/2		
Max. operating pressure	[MPa]	0,6		
Electric power	[kW]	0,8+0,8 (1,6)	1,6+0,8 (2,4)	
Heat-up time to 65°C	[h]	3,15		3,94
Standby energy consumption [kWh/24h]		0,8	0,93	1,3
Weight	[kg]	28	37	43
Hot water temperature	[°C]	max. 80		
Maximum load profile		M	M	L
Energy efficiency class		B	B	C



ELECTRIC HOT WATER STORAGE TANKS, WALL MOUNTED VERTICAL MODELS



SMART
CONTROL



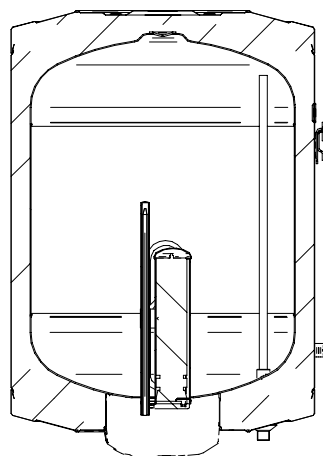
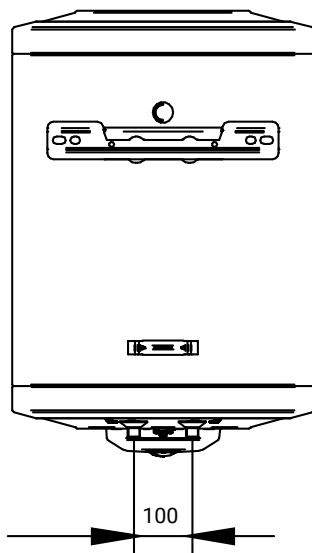
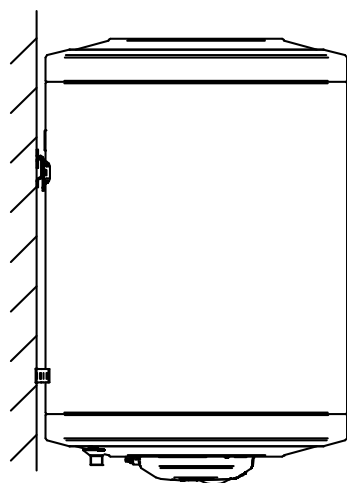
CERAMIC HEATING
ELEMENT, MINIMAL
SCALING, LONGER
SERVICE LIFE



EXCELLENT
THERMAL
INSULATION

hajdu

SMART



**HUNGARIAN
PRODUCT**



Z...SMART

7*
YEAR
WARRANTY

*2 years full
7 year tank warranty

*For more information about
the products and warranty terms,
please visit www.hajdurt.hu

TYPE		Z30SMART	Z50SMART	Z80SMART	Z120SMART	Z150SMART	Z200SMART	
Volume	[litre]	30	50	80	120	150	195	
Height	[mm]	552	592	762	1039	1237	1492	
Diameter	[mm]	410			515			
Water connection		G1/2						
Max. operating pressure	[MPa]	0,6						
Electric power	[kW]				1,8			2,4
Heat-up time to 65°C	[h]	0,9	1,8	2,9	4,2	4,3	5,5	
Standby energy consumption at 65°C [kWh/24h]		0,77	0,82	0,96	1,38	1,59	1,97	
Weight	[kg]	18	22	27	33	45	50	
Hot water temperature	[°C]	max. 65						
Maximum load profile		S	M	M	L	L	L	
Energy efficiency class		B	B	B	C	C	C	

ELECTRIC HOT WATER STORAGE TANKS, WALL MOUNTED HORIZONTAL MODELS



EXCELLENT
THERMAL
INSULATION

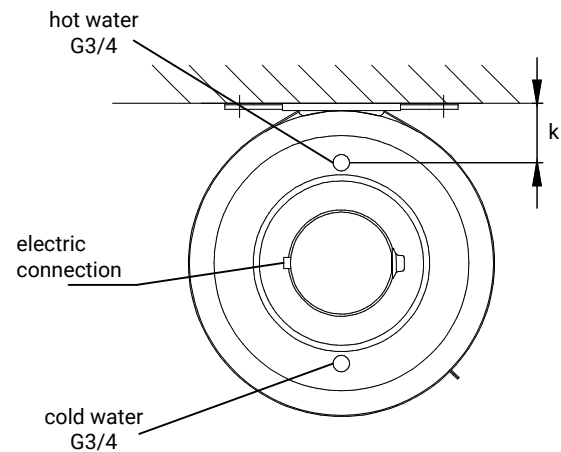
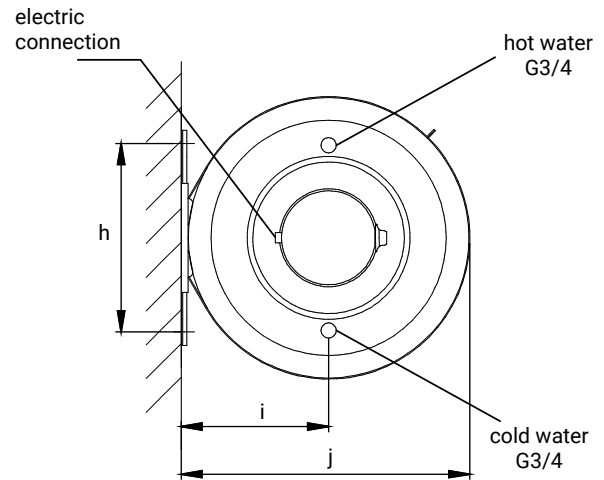
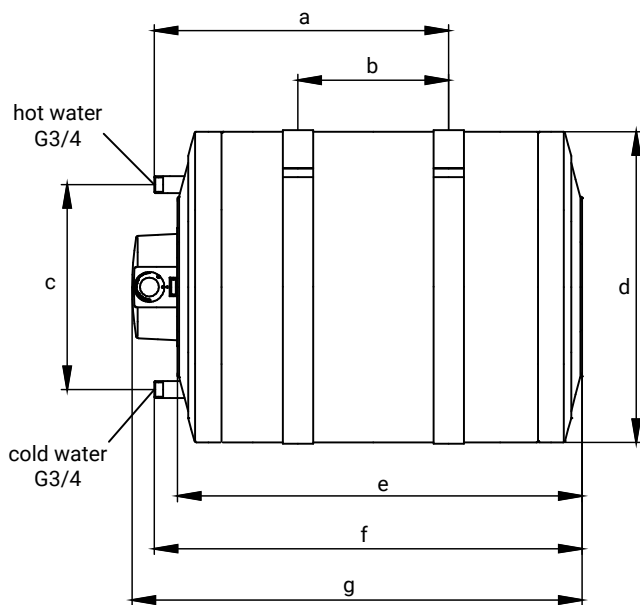


CORROSION
PROTECTION WITH
ACTIVE ANODES



ADJUSTABLE
WATER
TEMPERATURE

ZV...ErP



TYPE		ZV80ErP	ZV120ErP	ZV150ErP	ZV200ErP
Volume	[litre]	80	120	150	200
g	[mm]	775	1055	1255	1345
d	[mm]	515		544	595
a	[mm]	500	750	1035	1050
b	[mm]	250	500	800	
c	[mm]	384			375
e	[mm]	690	970	1170	1260
f	[mm]	725	1005	1205	1298
h	[mm]	300	350	360	440
i	[mm]	273		288	314
j	[mm]	528		557	608
k	[mm]	81		96	123
Water connection		G3/4			
Max. operating pressure	[MPa]	0,6			
Electric power	[kW]	1,2	1,8	2,4	
Heat-up time to 65°C	[h]	4,2		4,0	5,3
Standby energy consumption	[kWh/24h]	1,09	1,31	1,40	1,58
Weight	[kg]	29	36	47	53
Hot water temperature	[°C]	adjustable, max.80			
Maximum load profile		M	L	L	XL
Energy efficiency class		C	C	C	C

- Appliances can be mounted in right or left looking positions on both walls and ceilings.



**HUNGARIAN
PRODUCT**

7*
YEAR
WARRANTY

*2 years full
7 year tank warranty

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CERAMIC HEATING
ELEMENT, MINIMAL
SCALING, LONGER
SERVICE LIFE



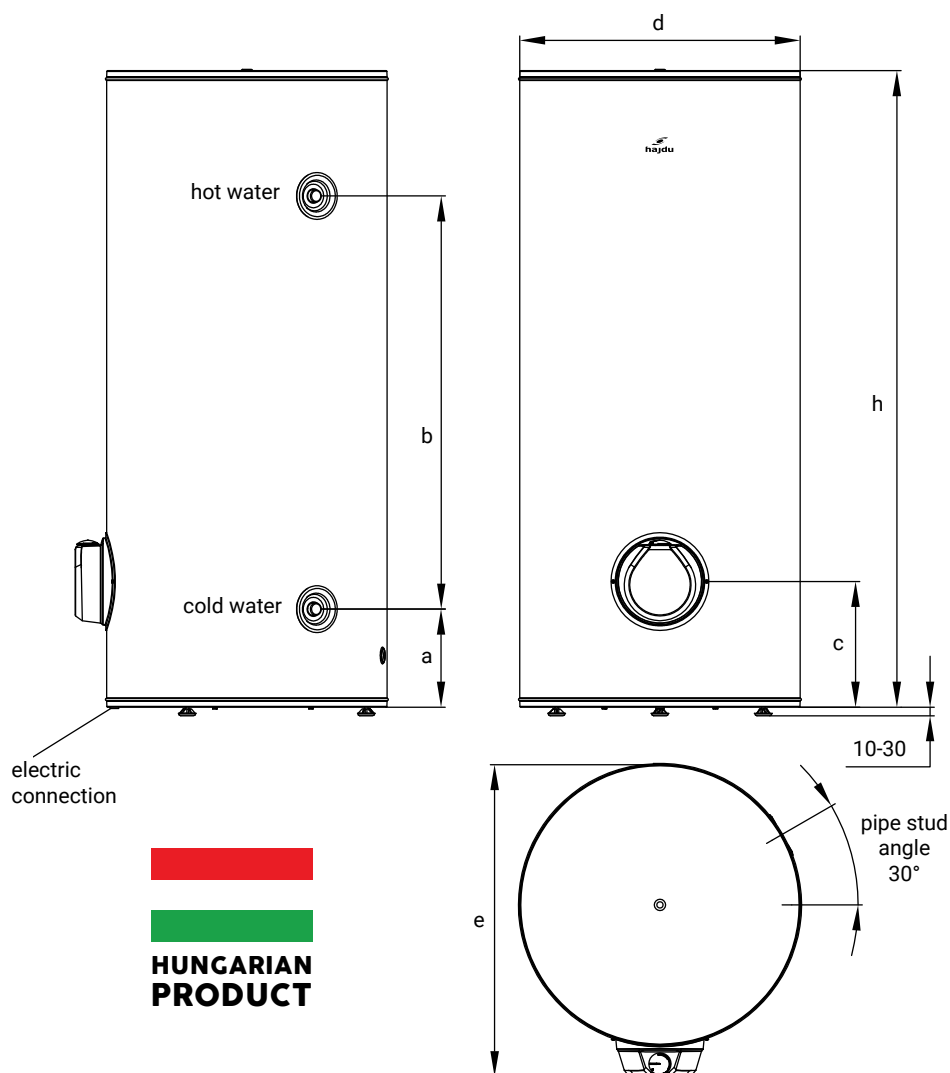
ECONOMICALLY
CONTROLLED WATER
TEMPERATURE, FROST
PROTECTION



1 AND 3 PHASE
CONNECTION

ELECTRIC HOT WATER STORAGE TANKS, WALL MOUNTED AND FLOOR-STANDING MODELS

Z...S ErP




**HUNGARIAN
PRODUCT**



7*
YEAR
WARRANTY

*2 years full
7 year tank warranty

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please visit www.hajdurt.hu

TYPE		Z150S ErP	Z200S ErP	Z300S ErP
Volume	[litre]	150	200	300
h	[mm]	1035	1330	1500
d	[mm]	595		660
a	[mm]	231		
b	[mm]	510	803	972
c	[mm]	317		296
e	[mm]	669		734
Water connection		G3/4		
Max. operating pressure	[MPa]	0,6		
Electric power 1-phase wiring	[W]	2400		3200
Heat-up time to 65°C	[h]	4	5,3	6
Electric power 3-phase wiring	[W]	3x800		3x1066
Heat-up time to 65°C	[h]	4	5,3	6
Standby energy consumption	[kWh/24h]	1,42	1,45	1,89
Weight	[kg]	51	62	92
Hot water temperature	[°C]	max. 65		
Maximum load profile		L	XL	XL
Energy efficiency class		C	C	C

ELECTRIC HOT WATER STORAGE TANKS, WALL MOUNTED VERTICAL MODELS



ADJUSTABLE
WATER
TEMPERATURE



CORROSION
PROTECTION WITH
ACTIVE ANODES

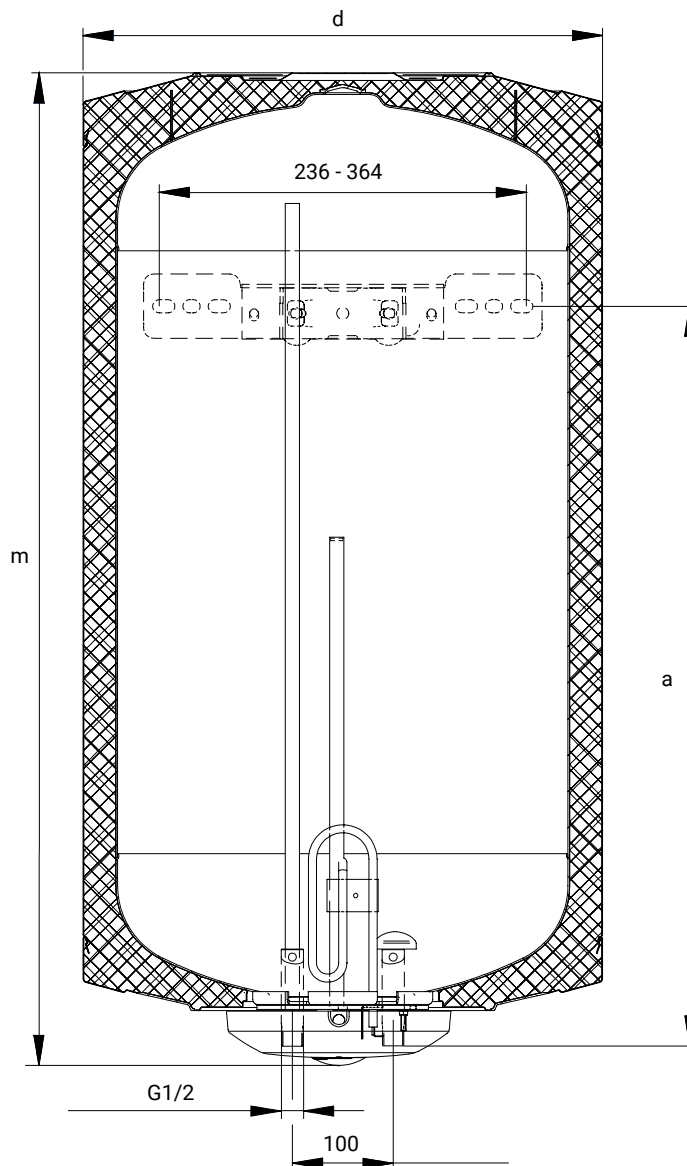


SUPPLY OF MULTIPLE
WATER WITHDRAWING
LOCATIONS

AQ ECO... ErP



**HUNGARIAN
PRODUCT**



5*
YEAR
WARRANTY

*2 years full
5 year tank warranty

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the products and warranty terms,
please visit www.hajdurt.hu

TYPE	AQ ECO 30 ErP	AQ ECO 50 ErP	AQ ECO 80 ErP	AQ ECO 100 ErP	AQ ECO 120 ErP	AQ ECO 150 ErP	AQ ECO 200 ErP
Volume [litre]	30	50	80	100	120	150	200
m [mm]	540	527	697	847	977	1172	1447
d [mm]	410	496					
a [mm]	343	340	500	570	750	950	1230
Water connection	G1/2						
Max. operating pressure [MPa]	0,6						
Electric power [kW]	1,8						2,4
Heat-up time to 65°C [h]	1	1,8	2,8	3,5	4,2	5,3	
Weight [kg]	16	20	26	30	32	39	49
Hot water temperature [°C]	max. 80	max. 65					
Maximum load profile	S	M	M	L	L	L	L
Energy efficiency class	C	C	C	C	C	C	C



ADJUSTABLE
WATER
TEMPERATURE

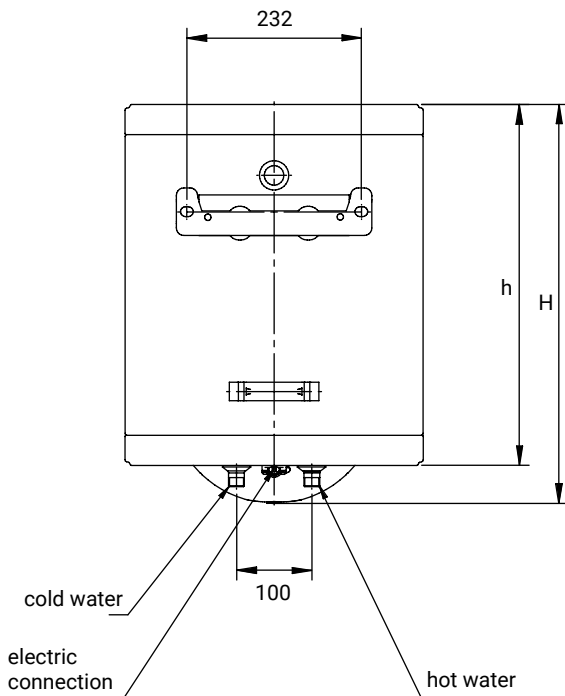
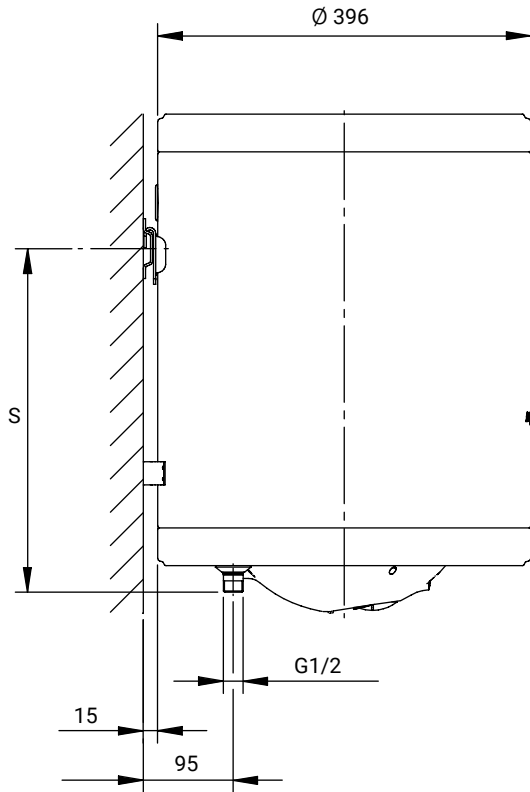


CORROSION
PROTECTION WITH
ACTIVE ANODES



SUPPLY OF MULTIPLE
WATER WITHDRAWING
LOCATIONS

ELECTRIC HOT WATER STORAGE TANKS, WALL MOUNTED VERTICAL MODELS



AQ ECO... SLIM



**HUNGARIAN
PRODUCT**

TYPE	AQ 30 ECO SLIM	AQ 50 ECO SLIM	AQ 80 ECO SLIM
Volume [litre]	30	50	80
H [mm]	530	744	1054
h [mm]	479	693	1003
Diameter [mm]	396		
S [mm]	365	579	889
Water connection	G1/2		
Max. operating pressure [MPa]	0,6		
Electric power [kW]	1,8		
Heat-up time from 15°C to 65°C [h]	1	1,8	2,8
Standby energy cons. to 65°C [kWh/24h]	0,9	1,15	1,58
Weight [kg]	18	24	28
Hot water temperature [°C]	max. 65		
Maximum load profile	S	M	L
Energy efficiency class	C		

5*
YEAR
WARRANTY

*2 years full
5 year tank warranty

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ELECTRIC HOT WATER STORAGE TANKS, WALL MOUNTED VERTICAL/HORIZONTAL MODELS



HORIZONTAL AND
VERTICAL POSITIONING
OPTIONS



FLAT
UNIT



FAST WATER
HEAT-UP

AQUASTIC
FLAT

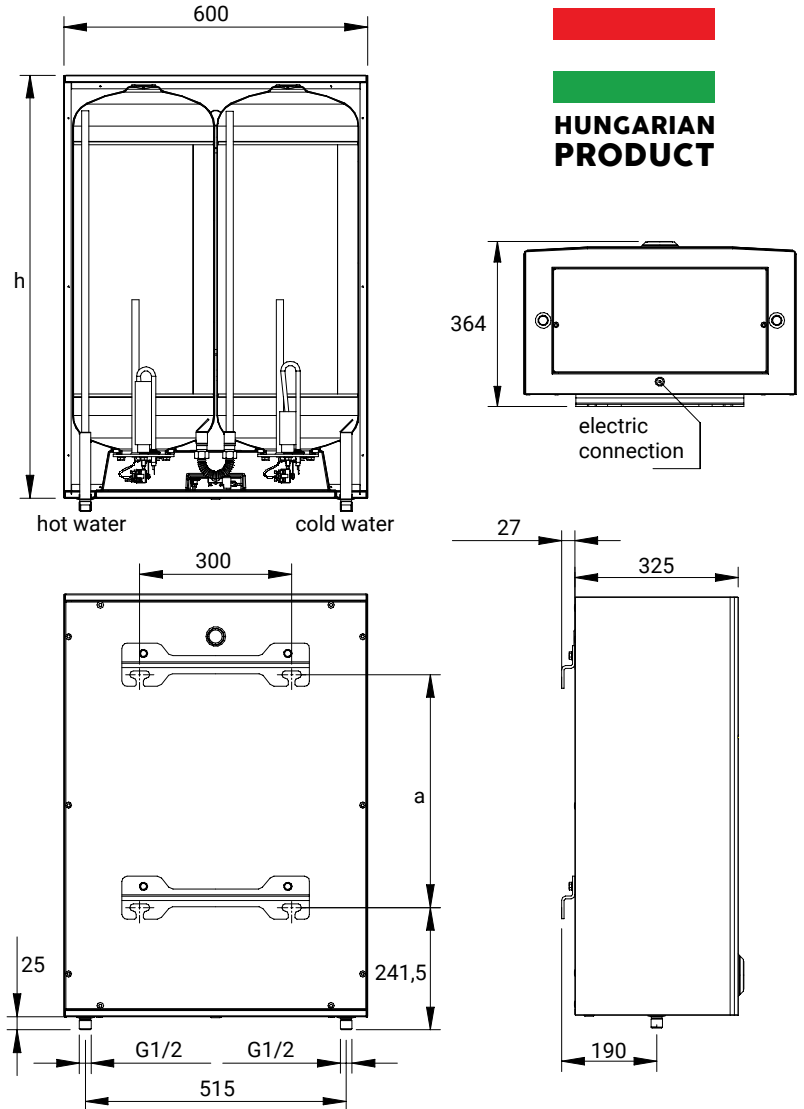


AQ F...ErP

7*
YEAR
WARRANTY

*2 years full
7 year tank warranty

*For more information about
the products and warranty terms,
please visit www.hajdurt.hu



**HUNGARIAN
PRODUCT**

TYPE		AQ F50 ErP	AQ F80 ErP	AQ F120 ErP
Volume	[litre]	50	80	120
h	[mm]	585	835	1135
a	[mm]	210	460	790
Water connection		G1/2		
Max. operating pressure	[MPa]	0,6		
Electric power 1~	[kW]	1,2+0,8 (2)		
Heat-up time, vertical ($\Delta t=65^{\circ}\text{C}$)	[h]	1,3	2	3,4
Heat-up time, horizontal ($\Delta t=65^{\circ}\text{C}$)	[h]	1	1,7	2,9
Standby energy consumption, vertical	[kWh/24h]	0,8	0,93	1,3
Standby energy consumption, horizontal	[kWh/24h]	1,17	1,65	1,71
Weight	[kg]	30	44	51
Hot water temperature max.	[$^{\circ}\text{C}$]	max. 75		
Maximum load profile		M		L
Energy efficiency class		C		



hajdu

with renewable energy!

INDIRECTLY HEATED HOT WATER STORAGE TANKS

AQ IDE...F, IND/IDE..., HR-N..., STXL..., STA..., AQ STA..., HD..., HB..., HPT...

Indirectly heated hot water tanks are available with volumes from 75 to 1000 litres. The domestic water in the tank is heated by the heat exchanger pipe coil in the tank.

They are available as wall mounted **F versions** and floor standing **S versions**.

- **IND...F ErP and IND...S ErP** – indirectly heated hot water tank without electric heater
- **IDE...F ErP and IDE...S ErP** – indirectly heated hot water tank with electric heater

The advantage of the models with electric heating element is that they can provide domestic hot water without a boiler or solar collector. A thermostat can be used to control heat-up by the boiler or solar collector, and to set the temperature of the stored water. This thermostat can be set up to 65 °C.

The HRN high performance tanks enable heat-up by any heat generator appliance. Their heat exchanger has a large surface area, they are especially suited to low-temperature heating systems and condensing boilers. They come with an anode level indicator and a liquid tension thermometer.

High-performance STXL tanks are especially recommended for heat pump systems.

Multi-energy, high-capacity solar STA... tanks include, depending on the model, pipe coils in the lower third of the container (STA...C) or the lower and upper thirds of the container (STA...C2) that heat up the domestic hot water in the tank. Electric heaters can also be installed in the tank.

HD models heated by an external heat exchanger are recommended for use in heating centres at institutions and condominium, and district heating substations. Hot water is produced in instantaneous mode, the tank is designed to relieve and balance withdrawal peaks. All members of this product line high pressure resistance and equipped with connections of large diameters.



hajdu

with renewable energy!



INDIRECTLY HEATED HOT WATER STORAGE TANKS, WALL MOUNTED MODELS



24kW
POWER

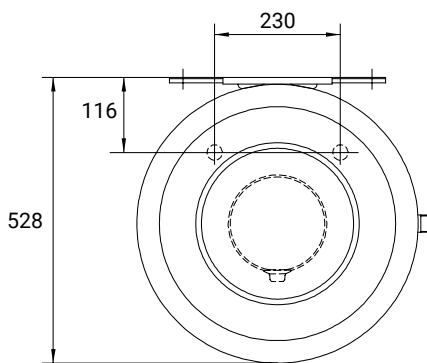
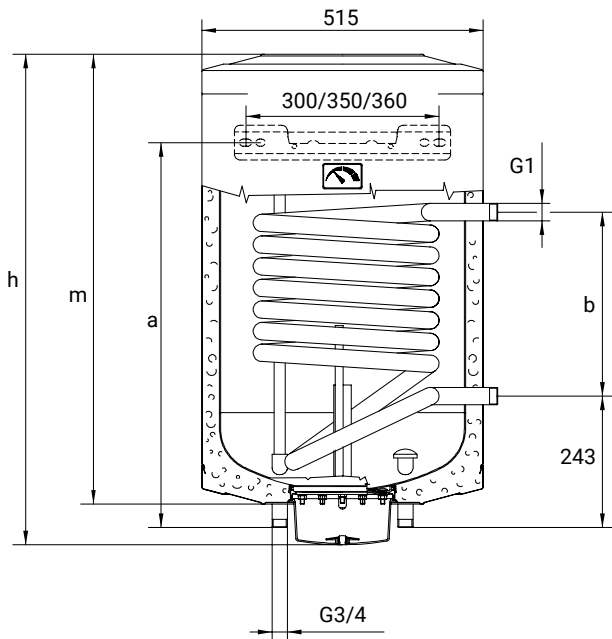


AUXILIARY ELECTRIC
HEATING



HEATING OPTION
FROM AND
EXTERNAL HEATER

AQ IDE...F



**HUNGARIAN
PRODUCT**

5*
YEAR
WARRANTY

*2 years full
5 year tank warranty

*For more information about
the products and warranty terms,
please visit www.hajdurt.hu



TYPE	with auxiliary electric heating	AQ IDE75F	AQ IDE100F	AQ IDE120F	AQ IDE150F	AQ IDE200F
Volume	[litre]	75	100	120	150	200
h	[mm]	750	906	1036	1245	1506
a	[mm]	500	570	795	1050	
b	[mm]	260	340			
m	[mm]	670	840	970	1170	1431
Water connection		G3/4				
Max. operating pressure	[MPa]	0,6				
Electric power, IDE design	[kW]	2,4				
Heat-up time to 65 °C	[h]	1,9	2,5	3,1	3,7	5,0
Heat exchanger surface	[m ²]	0,615	0,81			
Heat exchanger connection		G1				
Heat exchanger flow resistance	[mbar]	82				
Peak performance	[litre/first 10 minutes]	125	155	185	215	255
Continuous power	[litre/h]	450	590			
Continuous power	[kW]	18,5	24			
Hot water temperature	[°C]	max. 65				
Weight	[kg]	39	45	49	57	64
Standby energy consumption	[kWh/24h]	1,1	1,4	1,6	1,8	2,2
Heat loss	[W]	48	52	62	69	82
Energy efficiency class		C				

The performance data are valid for flow water at 80 °C, storage at 60 °C and DHW at 45/10 °C.

INDIRECTLY HEATED HOT WATER STORAGE TANKS, WALL MOUNTED MODELS



24 kW
POWER

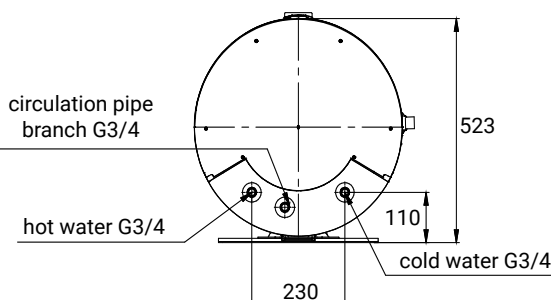
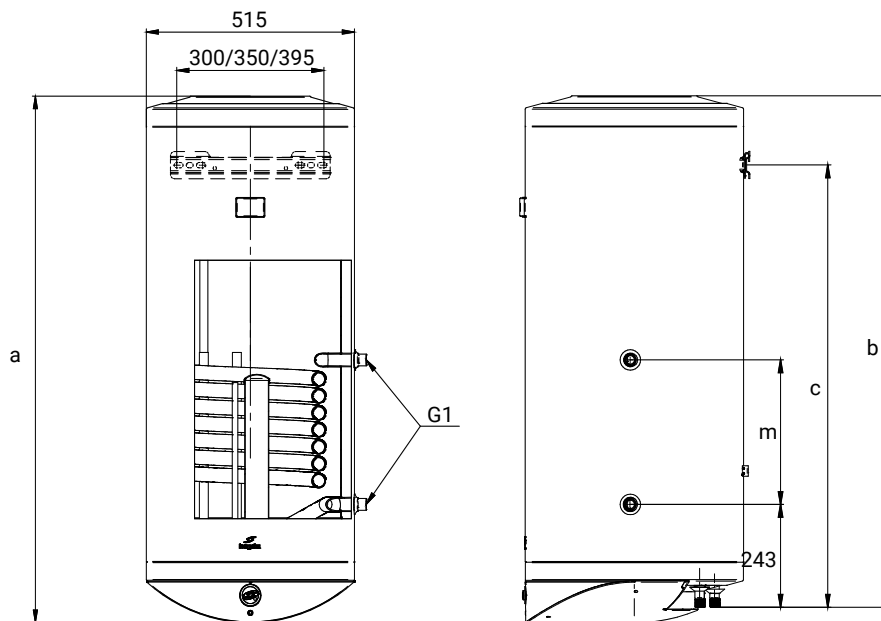


CIRCULATION PIPE
BRANCH



IDE..F ERP MODEL
WITH SPECIAL
CERAMIC HEATER

IDE/IND...F ErP



* 2 years full
7 year tank warranty

* For more information about the products and warranty terms, please visit www.hajdurt.hu

TYPE	with auxiliary electric heating		IDE75F ErP	IDE100F ErP	IDE150F ErP	IDE200F ErP
	without auxiliary electric heating		IND75F ErP	IND100F ErP	IND150F ErP	IND200F ErP
Volume	[litre]		75	100	150	200
a	[mm]		745	905	1235	1505
b	[mm]		710	870	1200	1474
c	[mm]		500	570	1050	
m	[mm]		260		340	
Water connection			G3/4			
Max. operating pressure	[MPa]		0,6			
Electric power (IDE design)	[kW]		2,4			
Heat-up time to 65 °C (IDE design)	[h]		1,9	2,5	3,7	5,0
Heat exchanger surface	[m ²]		0,615		0,81	
Heat exchanger connection			G1			
Heat exchanger flow resistance	[mbar]		82			
Peak performance	[litre/first 10 minutes]		125	155	215	255
Continuous power	[litre/h]		450		590	
Continuous power	[kW]		18,5		24	
Hot water temperature	[°C]		max. 65			
Weight	[kg]		39/38	45/44	56/55	67/66
Standby energy consumption	[kWh/24h]		1,1	1,4	1,8	2,2
Heat loss	[W]		49	53	70	83
Energy efficiency class			C			

The performance data are valid for flow water at 80 °C, storage at 60 °C and DHW at 45/10 °C.



24 kW
POWER



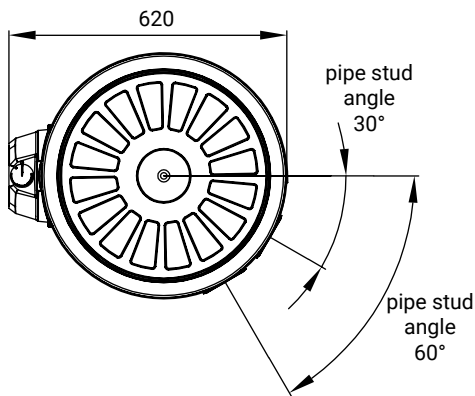
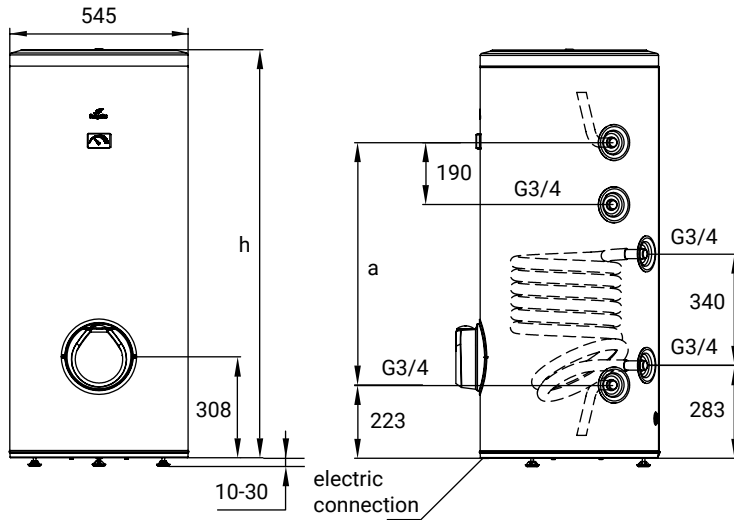
CIRCULATION PIPE
BRANCH



IDE...S ERP TYPE
WITH AUXILIARY
ELECTRIC HEATING

INDIRECTLY HEATED HOT WATER STORAGE TANKS, FLOOR-STANDING MODELS

IDE/IND...S ErP



HUNGARIAN
PRODUCT



7*
YEAR
WARRANTY

*2 years full
7 year tank warranty

*For more information about
the products and warranty terms,
please visit www.hajdurt.hu

TYPE	with auxiliary electric heating		IDE100S ErP	IDE150S ErP	IDE200S ErP
	without auxiliary electric heating		IND100S ErP	IND150S ErP	IND200S ErP
Volume	[litre]		100	150	200
h	[mm]		920	1245	1520
a	[mm]		415	740	1015
Water connection			G3/4		
Max. operating pressure	[MPa]		0,6		
Electric power (IDE design)	[kW]		2,4		
Heat-up time to 65 °C (IDE design)	[h]		2,5	3,7	5,0
Heat exchanger surface	[m ²]		0,81		
Heat exchanger connection			G3/4		
Heat exchanger flow resistance	[mbar]		82		
Peak performance	[litre/first 10 minutes]		155	215	255
Continuous power	[litre/h]		590		
Continuous power	[kW]		24		
Hot water temperature	[°C]		max. 65		
Weight	[kg]		52/51	61/60	70/69
Standby energy consumption at 65 °C	[kWh/24h]		1,48	1,6	1,79
Heat loss	[W]		61	66	74
Energy efficiency class			C		

The performance data are valid for flow water at 80 °C, storage at 60 °C and DHW at 45/10 °C.

HIGH-PERFORMANCE INDIRECTLY HEATED HOT WATER STORAGE TANKS, FLOOR-STANDING MODELS



WITH ANODE SIGNAL

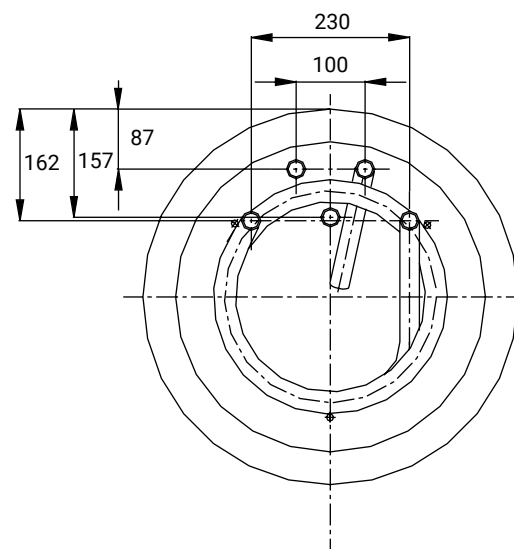
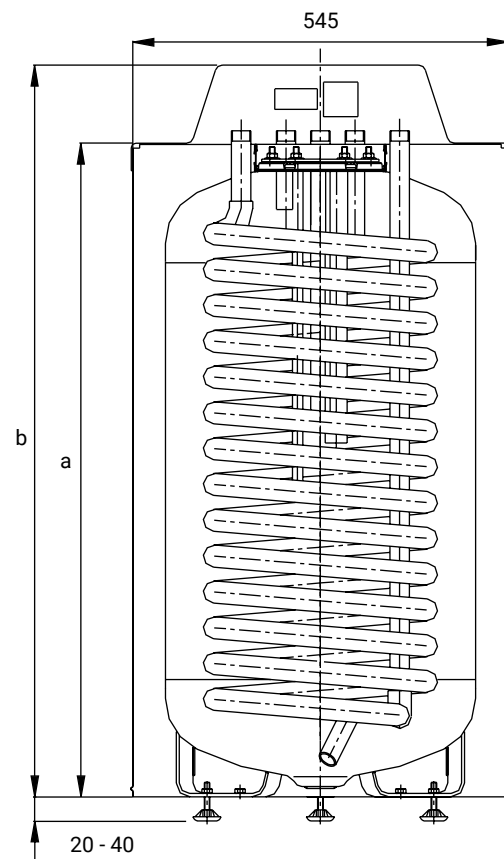


CORROSION PROTECTION WITH ACTIVE ANODES



42kW POWER

HR-N



TYPE		HR-N30	HR-N40
Volume	[litre]	120	160
b	[mm]	1061	1256
a	[mm]	947	1142
Water connection		G3/4	
Max. operating pressure	[MPa]	0,6	
Heat exchanger surface	[m ²]	1,4	
Heat exchanger connection		G3/4	
Heat exchanger flow resistance	[mbar]	120	
Peak performance * [litre/first 10 minutes]		180	215
Continuous power	[litre/h]	1030	
Continuous power *	[kW]	42	
Hot water temperature	[°C]	max. 95	
Weight	[kg]	64	70
Heat loss	[W]	41	49
Energy efficiency class		B	



*2 years full
7 year tank warranty

*For more information about the products and warranty terms, please visit www.hajdurt.hu

* The performance data are valid for flow water at 80 °C, storage at 60 °C and DHW at 45/10 °C.



CIRCULATION PIPE
BRANCH



ADJUSTABLE
WATER
TEMPERATURE



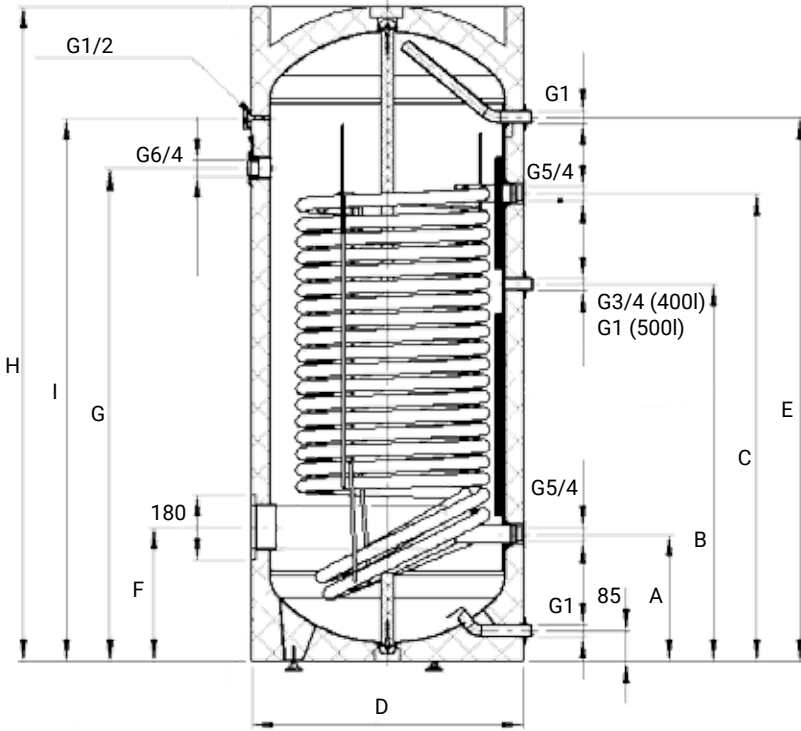
42kW
POWER

HIGH-PERFORMANCE INDIRECTLY HEATED HOT WATER STORAGE TANKS, FLOOR-STANDING MODELS

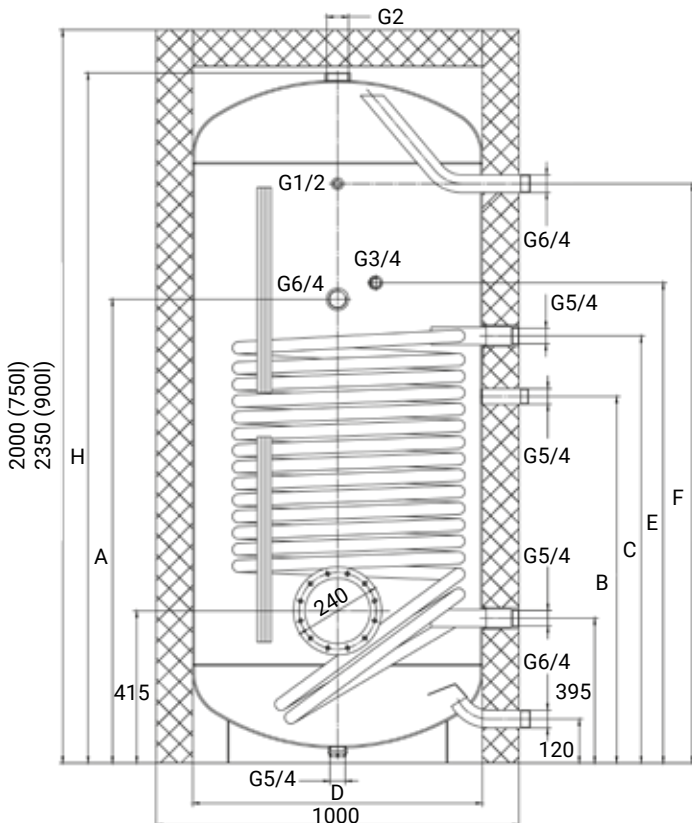
STXL 400-900C



TYPE	Sizes (mm)								
	H	D	A	B	C	E	F	G	I
STXL 400C	1800	680	320	1000	1260	1525	345	1521	1330
STXL 500C	1806	760	350	1040	1290	1500	370	1498	1360



TYPE	Sizes (mm)							
	H	H+Sz	D	A	B	C	E	F
STXL 750C	1882	2000	790	1265	1000	1165	1310	1580
STXL 900C	2228	2350	790	1445	1180	1345	1490	1920



*2 years full
7 year tank warranty

*For more information about
the products and warranty terms,
please visit www.hajdurt.hu

TYPE		STXL 400C	STXL 500C	STXL 750C	STXL 900C
Volume	[litre]	400	500	750	900
Height without insulation	[mm]	-	-	1882	2228
Height with insulation	[mm]	1800	1806	2000	2350
Diameter	[mm]	680	760	790	
Water connection		G1		G6/4	
Max. operating pressure	[MPa]	1			
Circulation pipe connection		G3/4	G1	G5/4	
Heat exchanger surface	[m ²]	5	6	7,5	
Heat exchanger connection		G5/4			
Weight	[kg]	212	254	317	374
Standby energy	[kWh/24h]	1,76	1,9	2,56	2,87
Heat loss	[W]	73,3	79,2	106,7	119,6
Energy efficiency class		B		C	

MULTI-ENERGY (SOLAR) STORAGE TANKS, FLOOR-STANDING MODELS



POSSIBILITY FOR INTEGRATION IN SOLAR SYSTEMS



OPTIONAL CERAMIC HEATING ELEMENT

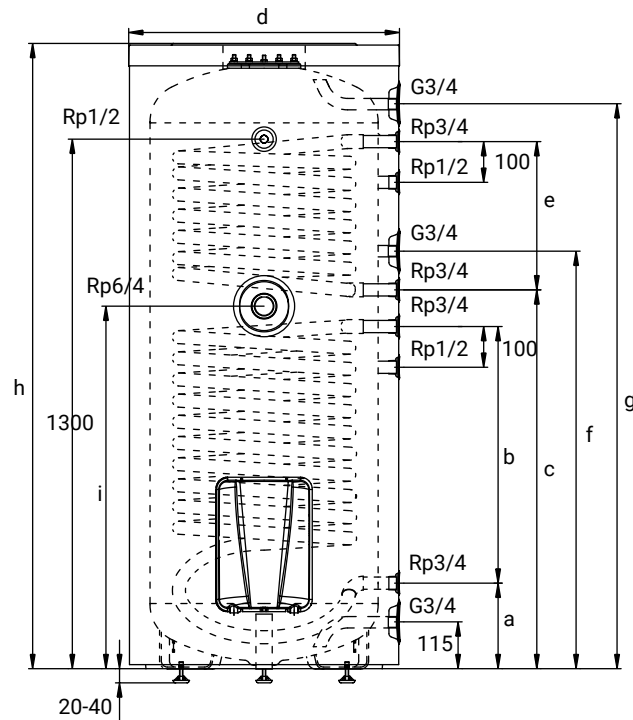


CIRCULATION PIPE BRANCH

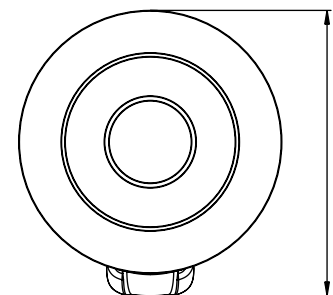
STA...C SZTEA



STA...C2 SZTEA



TYPE		STA200C SZTEA	STA300C SZTEA	STA200C2 SZTEA	STA300C2 SZTEA
Volume	[litre]	200	300	200	300
h	[mm]	1530	1535	1530	1535
d	[mm]	550	665	550	665
a	[mm]	220	210	220	210
b	[mm]	570	630	570	630
c	[mm]	880	930	880	930
e	[mm]	416	364	416	364
f	[mm]	975	1025	975	1025
g	[mm]	1387	1403	1387	1403
i	[mm]	840	890	840	890
j	[mm]	608	720	608	720
Insulating material		FCKW-free PU			
Water connection		G3/4			
Max. operating pressure	[MPa]	0,6			
Standby energy consumption	[kWh/24h]	1,9	2,5	1,9	2,5
Heat exchanger surface	[m ²]	1	1,5	1+0,8	1,5+1
Heat exchanger connection		Rp 3/4			
Heat exchanger flow resistance	[mbar]	90	130	170	220
Peak performance * [litre/first 10 minutes]		340	510	370	545
Continuous power *	[litre/h]	735	1100	1125	1590
Continuous power *	[kW]	30	45	46	65
Hot water temperature	[°C]	max. 95			
Weight	[kg]	73	93	89	109
Heat loss	[W]	71	94	71	94
Energy efficiency class		C			



HUNGARIAN PRODUCT



*2 years full
7 year tank warranty

* For more information about the products and warranty terms, please visit www.hajdurt.hu

* The data apply for indirect heating only. The performance data are valid for flow water at 80 °C, storage at 60 °C and DHW at 45/10 °C.



POSSIBILITY FOR
INTEGRATION IN
SOLAR SYSTEMS



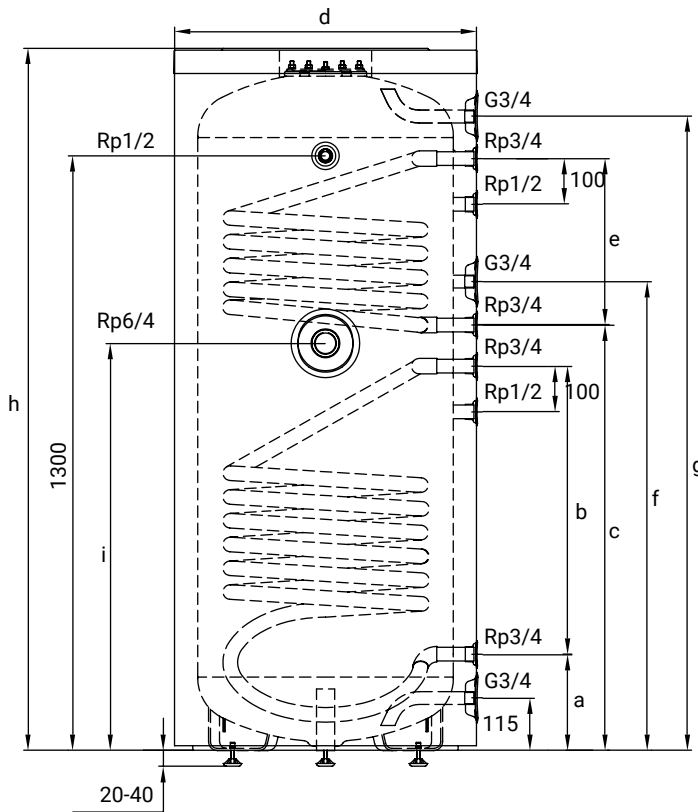
OPTIONAL AUXILIARY CIRCULATION PIPE
ELECTRIC HEATING



CIRCULATION PIPE
BRANCH

MULTI-ENERGY (SOLAR) STORAGE TANKS, FLOOR-STANDING MODELS

(POSSIBILITY TO ADD IMMERSION HEATER)



AQ STA...C/C2



TYPE		AQ STA200C	AQ STA300C	AQ STA200C2	AQ STA300C2
Volume	[litre]	200	300	200	300
h	[mm]	1530	1535	1530	1535
d	[mm]	550	665	550	665
a	[mm]	220	210	220	210
b	[mm]	570	630	570	630
c	[mm]	880	930	880	930
e	[mm]	416	364	416	364
f	[mm]	975	1025	975	1025
g	[mm]	1387	1403	1387	1403
i	[mm]	840	890	840	890
Insulating material		FCKW-free PU			
Water connection		G3/4			
Max. operating pressure	[MPa]	0,6			
Standby energy consumption	[kWh/24h]	1,9	2,5	1,9	2,5
Heat exchanger surface	[m ²]	0,8	1	0,8+0,615	1+0,7
Heat exchanger connection		Rp 3/4			
Heat exchanger flow resistance	[mbar]	80	90	80+65	90+70
Peak performance * [litre/first 10 minutes]		255	460	255+150	460+220
Continuous power * [litre/h]		590	770	590+440	770+500
Continuous power * [kW]		24	31	24+18	31+20
Hot water temperature	[°C]	max. 95			
Weight	[kg]	63	81	83	93
Heat loss	[W]	71	94	71	94
Energy efficiency class		C			



**HUNGARIAN
PRODUCT**



*2 years full
5 year tank warranty

*For more information about the products and warranty terms, please visit www.hajdurt.hu

* The data apply for indirect heating only. The performance data are valid for flow water at 80 °C, storage at 60 °C and DHW at 45/10 °C.

MULTI-ENERGY (SOLAR) STORAGE TANKS, FLOOR-STANDING MODELS



POSSIBILITY FOR INTEGRATION IN SOLAR SYSTEMS



OPTIONAL CERAMIC HEATING ELEMENT



CIRCULATION PIPE BRANCH

STA...C/C2

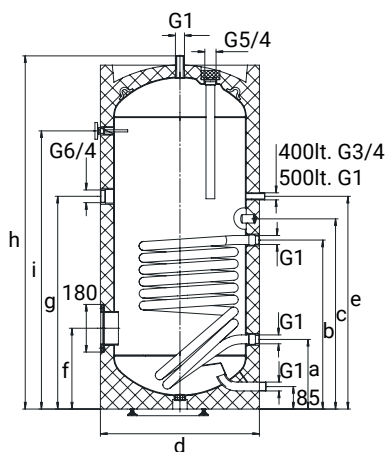
7*
YEAR
WARRANTY

*2 years full
7 year tank warranty

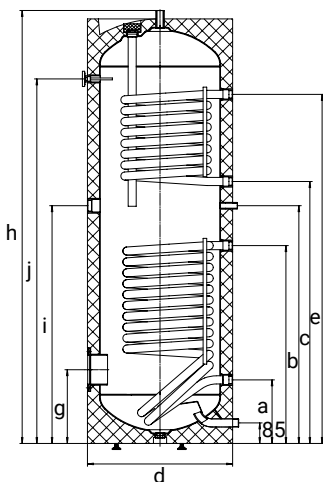
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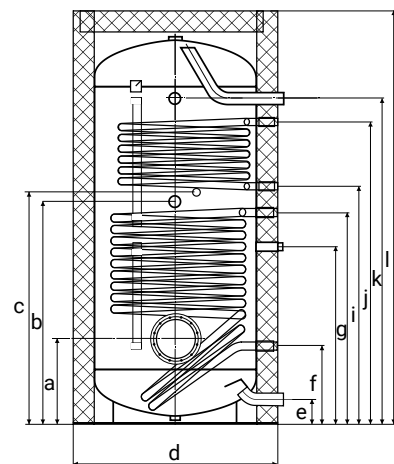
STA400-500C



STA400-500C2



STA800-1000C2**



** STA800C and STA1000C without the upper coil.

TYPE		STA400C	STA500C	STA800C	STA1000C	STA400C2	STA500C2	STA800C2	STA1000C2
Volume	[litre]	400	500	800	1000	400	500	800	1000
h	[mm]	1832	1838	2000	2350	1832	1838	2000	2350
d	[mm]	670	750	1000		670	750	1000	1000
a	[mm]	320	370	415	415	320	370	415	415
b	[mm]	880	930	1080	1255	880	930	1080	1255
c	[mm]	960	1010	1125	1300	1000	1095	1125	1300
e	[mm]	1000	1095	120	120	1100	1195	120	120
f	[mm]	345	370	380	380	1460	1465	380	380
g	[mm]	1000	1095	860	1025	345	370	860	1025
i	[mm]	1521	1498	1025	1190	1000	1095	1025	1190
j	[mm]	-	-	-	-	1521	1498	1150	1335
k	[mm]	-	-	-	-	910	960	1465	1785
l	[mm]	-	-	-	-	1490	1465	1580	1920
m	[mm]	-	-	-	-	560	560	-	-
n	[mm]	-	-	-	-	370	310	-	-
Insulating material		FCKW-free PU		environment-friendly ECO SKIN polyester		FCKW-free PU		environment-friendly ECO SKIN polyester	
Water connection		G1		G6/4		G1		G6/4	
Max. operating pressure	[MPa]	1		0,6		1		0,6	
Heat exchanger surface	[m ²]	1,8	2	2,4	2,4	1,8+1,0	2,0+1,0	2,0+1,2	2,4+1,2
Heat exchanger connection		G1		G5/4		G1+G1		G5/4+G1	
Heat exchanger flow resistance	[mbar]	53	41	42	48	53+12	42+19	42+13	48+27
Peak performance * [litre/first 10 minutes]		600	750	1200	1500	628	785	1257	1570
Continuous power * [litre/h]		863	942	878	952	863+531	942+499	878+572	952+598
Continuous power * [kW]		35	38	36	39	35+22	38+20	36+23	39+24
Hot water temperature	[°C]	max. 95							
Weight	[kg]	145	160	268	284	158	172	284	320
Standby energy consumption	[kWh/24h]	2,45	2,72	2,66	3,09	2,45	2,72	2,66	3,09
Heat loss	[W]	102	113	111	129	102	113	111	129
Energy efficiency class		C	C	-	-	C	C	-	-

* The data apply for indirect heating only. The performance data are valid for flow water at 80 °C, storage at 60 °C and DHW at 45/10 °C.



POSSIBILITY FOR
INTEGRATION IN
SOLAR SYSTEMS



HEATING OPTION
FROM AND
EXTERNAL HEATER



LOW HEAT
LOSS

STORAGE TANKS (EMPTY) HEATED BY AN EXTERNAL HEAT EXCHANGER, FLOOR-STANDING MODELS

HD...

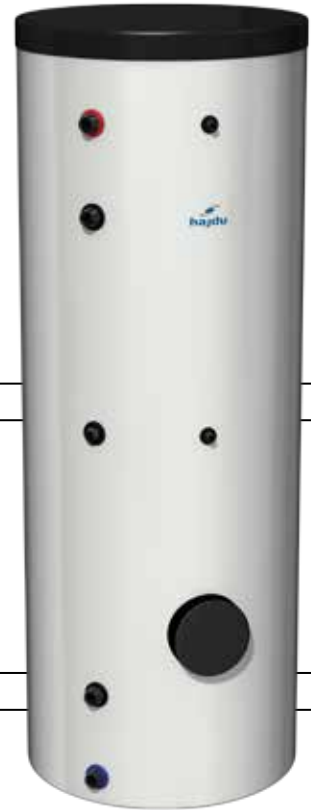
7*
YEAR
WARRANTY

*2 years full
7 year tank warranty

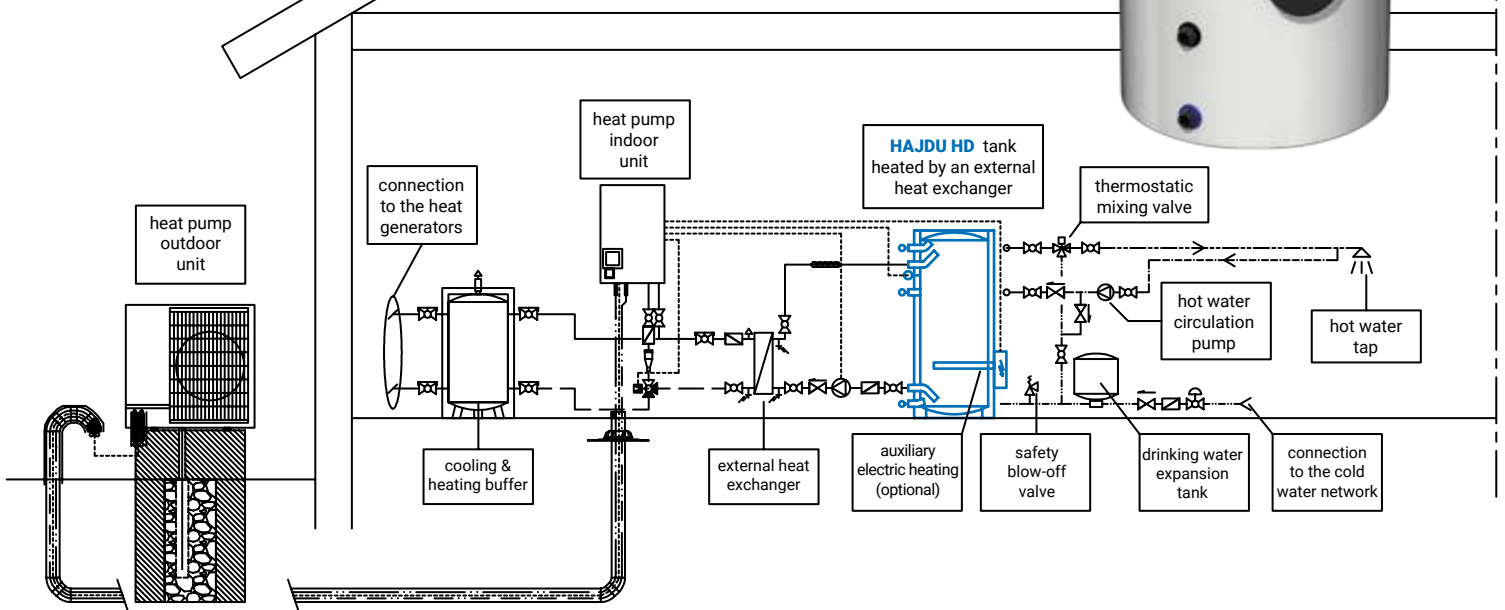
*For more information about
the products and warranty terms,
please visit www.hajdurt.hu



**HUNGARIAN
PRODUCT**



HD storage connection diagram



TYPE		HD 200	HD 300	HD 400	HD 500	HD 800	HD 1000	HD 1500	HD 2000	
Volume	[litre]	200	300	400	500	800	1000	1500	2000	
Height	[mm]	1530		1785	1806	2000	2350	2215	2130	
Diameter	[mm]	545	660	670	750	990		1000	1250	
Water connection		G5/4				G2				
Max. operating pressure	[MPa]						1,0			
Circulation pipe connection		G1			Rp1			G2		
Thermometer pipe branch							Rp1/2			
Regulator pipe branch							Rp1/2			
Weight	[kg]	87	120	141	184	200	270	280	400	
Standby energy	[kWh/24h]	1,9	2,5	2,9	3,2	3,6	4	3,85	4,8	
Heat loss	[W]	83	94	102	113	109	127	160	200	
Energy efficiency class		C					-	-	-	-

HEAT PUMP APPLIANCES

HB..., HPT..., HPAW

The heat pump of the **HB** model hot water tank uses the heat energy of air to heat up the water in the tank. **Appliance with heat pump can produce at least 2 kW of heat from 0.5 kW of energy! This is the most efficient domestic hot water production method known today!**

Interior rooms can be cooled using the air from the heat pump, and the ventilation of a room or home can also be supported by removing the cooled air. The appliance can also be connected to the ventilation system of the house. Thereby, in addition to domestic hot water production, these appliances can also be used to support ventilation, air conditioning and demisting. The **HB... C** type hot water tank with heat pump contains a lower heat exchanger enabling to connect directly to a solar system or boiler.

The **HB300C1** model includes an upper heat exchanger enabling to connect to the heating circuit, whereby it can be used in low temperature heating systems.

The **HP TOWER, HPT** series can be connected to an external solar system and integrated in a Smart Grid system.

Heat pump appliances; The **HPAW** air-to-water heat pump can provide a complete solution for heating, cooling and domestic hot water production in a wide range of environmental conditions. It is an ideal solution for both the setup and modernisation of state-of-the-art and environmentally friendly heating and air-conditioning systems in already existing and newly built properties. It can be added conventional, gas or other heating systems. It has a monobloc design, the heat pump and hydrobox are incorporated in a single housing.



HEAT PUMP HOT WATER STORAGE TANKS, FLOOR-STANDING MODELS



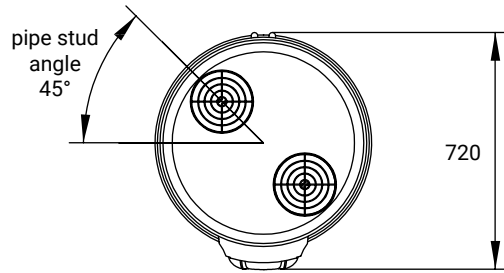
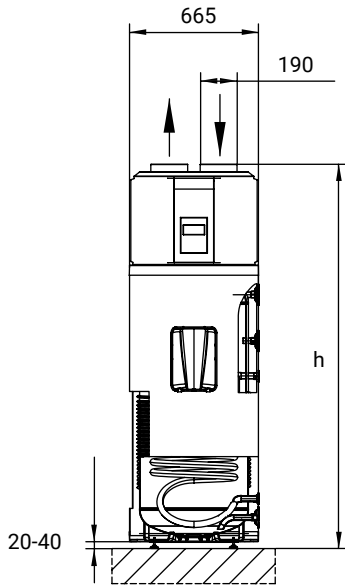
70% ENERGY SAVING



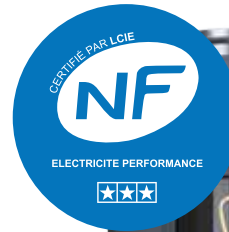
POSSIBILITY FOR INTEGRATION IN SOLAR SYSTEMS



CORROSION PROTECTION WITH ACTIVE ANODES



HB...



TYPE	HB 200	HB 200C	HB 300	HB 300C	HB 300C1
Diameter/height(h)/depth [mm]	661/1517/720		661/1950/720		
Voltage/frequency	L/N/PE 230V~ / 50Hz				
Fuse [A]	16				
TANK					
Rated pressure [MPa]	0,6				
Rated volume [liter]	194	182	295	287	289
Water connection	G3/4				
Exchanger surface [m²]	-	1,45	-	1,5	0,7
Corrosion protection	special enamel + Mg anode				
HEAT PUMP					
Type	air (indoor)				
Ventilation connector (inlet/outlet) [Ø mm]	190				
Condenser	safety heat exchanger				
Coolant/quantity	R134a / 1100 g				
Max. power consumption [W]	1200				
Average Power Consumption [W]	850				
Air flow [m³/h]	~ 500				
Operating temperature range [°C]	- 7- +43				
Max. water temperature [°C]	60				
COP 7 °C (EN 16147)	2,43	2,48	2,15	2,44	2,45
COP 15 °C (EN 16147)	-	-	2,62	-	-
ELECTRICAL HEATING					
Nominal output [W]	1800				
Max. water temperature [°C]	60				
OTHER					
Control	programmable electronic				
Mg anode maintenance	Anode consumption display				
Electrical connection	fixed				
Legs	adjustable				
Maximum load profile	L	L	L	L	L
Energy efficiency class	A	A	A	A	A



RÉGLEMENTATION THERMIQUE 2012

7*
YEAR WARRANTY

*2 years full 7 year tank warranty

*For more information about the products and warranty terms, please visit www.hajdurt.hu

HEAT PUMP HOT WATER STORAGE TANKS, FLOOR-STANDING MODELS



142%
WATER HEATING
EFFICIENCY



SMART GRID
READY



CORROSION
PROTECTION WITH
ACTIVE ANODES



HP-TOWER



HPT...



*2 years full
7 year tank warranty

*For more information about
the products and warranty terms,
please visit www.hajdurt.hu

TYPE	HPT200	HPT200C	HPT300	HPT300C
Diameter/height/depth [mm]	667/1480/720		667/1810/720	
Voltage/frequency	L/N/PE 230V~ / 50Hz			
TANK				
Rated pressure [MPa]	0,6			
Rated volume [litre]	194	182	295	287
Water connection	G3/4			
Exchanger surface [m ²]	-	1,45	-	1,5
Heat insulation/thickness	freon free PUR insulation / 50 mm			
Corrosion protection	special enamel + Mg anode			
HEAT PUMP				
Type	air (indoor) + optional air duct connection			
Ventilation connector (inlet/outlet) [mm]	160			
Condenser	safety heat exchanger			
Coolant/quantity	R134a / 1100 g			
Max. power consumption [W]	515			
Air flow [m ³ /h]	450			
Operating temperature range [°C]	- 7- +38			
Water heating efficiency at 20°C conforming to EN 16147: 2017	139% (A+)		142% (A+)	
Water heating efficiency at 7°C conforming to EN 16147: 2017	121% (A)		128% (A)	
Noise power [Lw(A)]	With air duct: 52 dB(A); Without air duct: 58 dB(A)			
ELECTRICAL HEATING				
Nominal output [W]	1800			
Max. water temperature [°C]	65			
OTHER				
Control	Programmable, PV, Smart Grid ready, Holiday, Frost protection, Child Lock			
Certificates	CE, TÜV CB, EHPA			
Maximum load profile	L	L	XL	XL
Energy efficiency class	A*	A*	A*	A*

PRODUCT FEATURES

- Energy efficient: Energy class A*!
- Suitable also for indoor cooling
- Smart Grid Ready
- Outer metal housing with nanoceramic finish and titanium enamel coated inner tank surface
- Child lock, self-diagnostics
- Hidden electronic display
- Ergonomic design
- Simple, cheap installation
- Hidden air duct
- Hot-gas bypass defrosting
- Operation from solar cells
- Smart control pre-programmable for each day of one week

OPERATING MODES

- Only heat pump
- Heat pump or electric heating with automatic heat source selection
- Anti-legionella function at 65 °C (simultaneous heat pump and electric heating)
- Quick heat-up function (simultaneous heat pump and electric heating)
- Program
- Off peak
- Real time clock
- PV – operation from solar cells

SENSORS

- Water temperature sensor
- Evaporator temperature sensor
- Air temperature sensor
- High pressure switch
- Safety thermostat

AIR-TO-WATER HEAT PUMP



SILENT

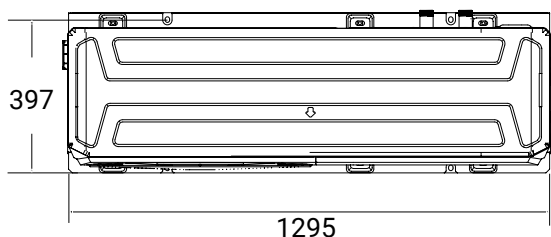
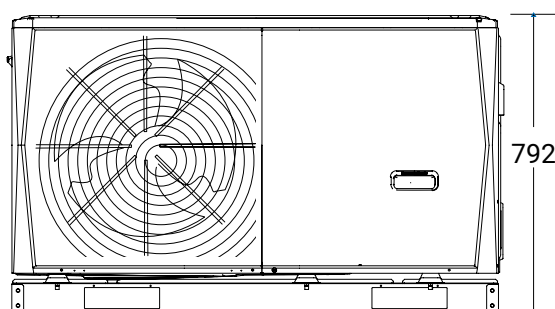


HIGH TEMPERATURE
HEATING WATER



IT WORKS EVEN
IN COLD AMBIENT
TEMPERATURE

4/6 KW



hajdu
HPAW



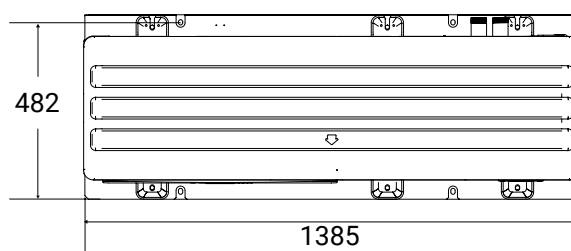
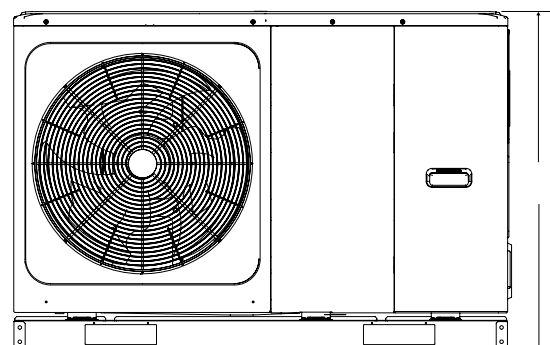
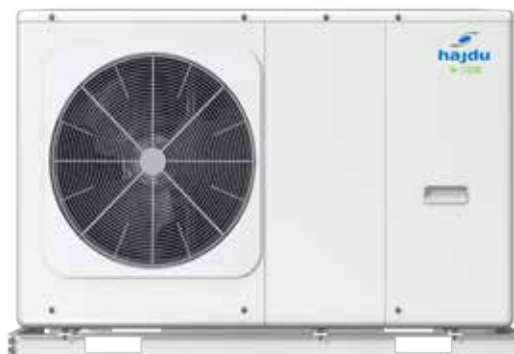
ENVIRONMENTALLY
FRIENDLY



*3 years full
5 year tank warranty

* For more information about
the products and warranty
terms, please visit
www.hajdurt.hu

8/10/12/14/16 KW



MODEL			HPAW-4	HPAW-6	HPAW-8	HPAW-10	HPAW-12 3N	HPAW-14 3N	HPAW-16 3N
Voltage/Phase/Frequency		V/PH/Hz	230/1/50				400/3/50		
Heating ²	Capacity	kW	4,30	6,30	8,10	10,00	12,30	14,10	16,00
	Rated input	kW	1,13	1,70	2,10	2,67	3,32	3,92	4,57
	COP		3,80	3,70	3,85	3,75	3,70	3,60	3,50
Seasonal space heating energy efficiency class ⁶	Leaving water temperature 35°C	class	A+++						
	Leaving water temperature 55°C	class	A++						
Sound power level ⁷		dB	55	58	59	60	65	65	68
Unit dimensions (W×H×D)		mm	1295×792×429			1385×945×526			
Outdoor air temperature range	Cooling	°C	-5~43						
	Heating	°C	-25~35						
	DHW	°C	-25~43						
Backup E-heater	Standard mounting	kW	3,00				9,00		
	Power supply	V/Ph/Hz	220-240/1/50				380-415/3/50		
Leaving water temperature range	Cooling	°C	5~25						
	Heating	°C	25~65						
	DHW (tank)	°C	30~60						

² Outside air 7°C, 85% R.H., heating water in/out 40/45°C

⁶ Seasonal space heating energy efficiency class tests with average climate and normal conditions.

⁷ Testing standard: EN12102-1.

⁸ Relevant EU standards and legislation: EN14511; EN14825; EN50564; EN12102; (EU) No 811/2013; (EU) No 813/2013; OJ 2014/C 207/02:2014.

ELECTRIC OPEN OUTLET WATER HEATERS

FT., FTA., 5F, 5A

HAJDU open outlet (point of use) **electric water heaters** are suitable for applications that require less water (kitchen sink, hand-washing device). The **FT...** and **FTA...** types with volumes of 5 and 10 litres can deliver water to no more than one water withdrawal location and function reliably with the faucet supplied by the manufacturer only (**the use of faucets with shower or brush head is prohibited**). The stored hot water is suitable for both sanitary and eating purposes.

The small-footprint appliances can be mounted on the wall vertically only, either above (FT types) or under (FTA types) the basin, sink or kitchen counter. The external casing of water heaters is made of high gloss white, high-strength plastic.

The desired water temperature can be set up to 80 °C using a knob.

Aquastic 5F, 5A water heaters are available in various designs, with wall mounting options above or under sink, and they include the faucets. Their principle of operation is identical with the FT/FTA types.

OPEN OUTLET WATER HEATERS SUPPLYING ONE WATER WITHDRAWING LOCATION



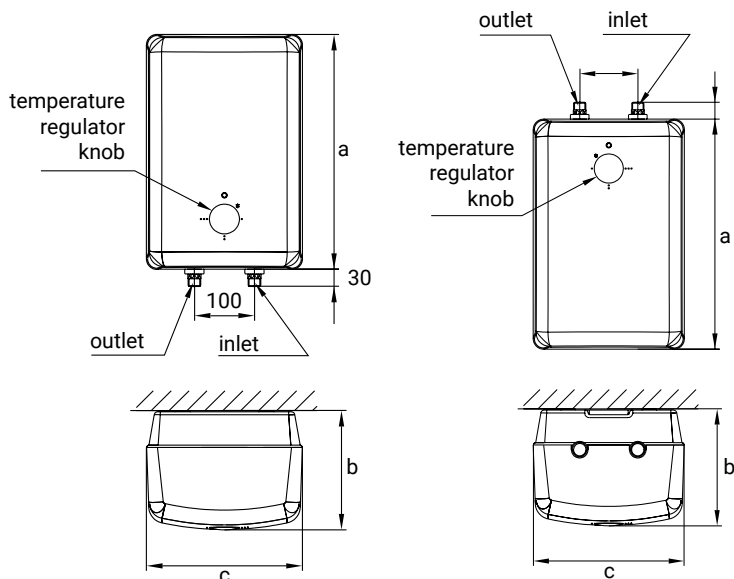
**FAST WATER HEAT-UP,
HOT WATER IN AS
SHORT AS 10 MINUTES**



**ADJUSTABLE
WATER
TEMPERATURE**



**FAUCET
INCLUDED**



FT...

FTA...



TYPE		FT5 (above-sink)	FT10 (above-sink)	FTA5 (under-sink)	FTA10 (under-sink)
Volume	[litre]	5	10	5	10
a	[mm]	396	440	396	440
b	[mm]	260	305	260	305
c	[mm]	200	270	200	270
Water connection		G1/2	G1/2	G3/8	G3/8
Max. operating pressure	[MPa]	0			
Electric power	[kW]	1,5			
Heat-up time to 65 °C	[min]	14	28	14	28
Standby energy consumption at 65 °C	[kWh/24h]	0,55	0,65	0,55	0,65
Weight	[kg]	3,5	5	3,5	5
Hot water temperature	[°C]	controllable, max. 80			
Maximum load profile		XXS	S	XXS	S
Energy efficiency class		A	C	A	C



- Accessories: faucet, connection pipe
- Outer cover: white plastic



***2 years full
5 year tank warranty**

*For more information about the products and warranty terms, please visit www.hajdurt.hu



TYPE		5F (above-sink)	5A (under-sink)
Volume	[liter]	5	
Length (without faucet)	[mm]	422	
Depth	[mm]	260	
Width	[mm]	200	
Water connection		G1/2	G3/8
Rated operating pressure	[MPa]	0	
Voltage	[V]	230	
Electric power	[W]	1500 or 2000	
Heat-up time to 65°C	[min]	12	
Weight	[kg]	2,6	
Hot water temperature	[°C]	controllable, max. 80	
Maximum load profile		XXS	XXS
Energy efficiency class		A	A



***1 year full
4 year tank warranty**

*For more information about the products and warranty terms, please visit www.hajdurt.hu

5F

5A



BUFFER STORAGE TANKS

The energy store for buffer storage heating systems. Buffer storage tanks compensate for the differences between the times when energy is generated and when there is an actual energy demand, thereby ensuring efficient heating energy use.

The **PT ... CF** models include an internal heat exchanger for the direct connection of heat generator equipment, and a flexible stainless steel heat exchanger for domestic hot water production.

The **AQ PT** models of 500 to 2000 litres capacity are available both without, and with single or double heat exchanger. The double heat exchanger versions allow greater flexibility when used with heat generator equipment.

The storage tanks have thermal insulation, which can be installed on site for volumes of at least 500 litres. This solution makes it easier to transport and install the tanks.





HEAT STORAGE FOR
HOT WATER BASED CLO-
SED OR OPEN HEATING
SYSTEMS



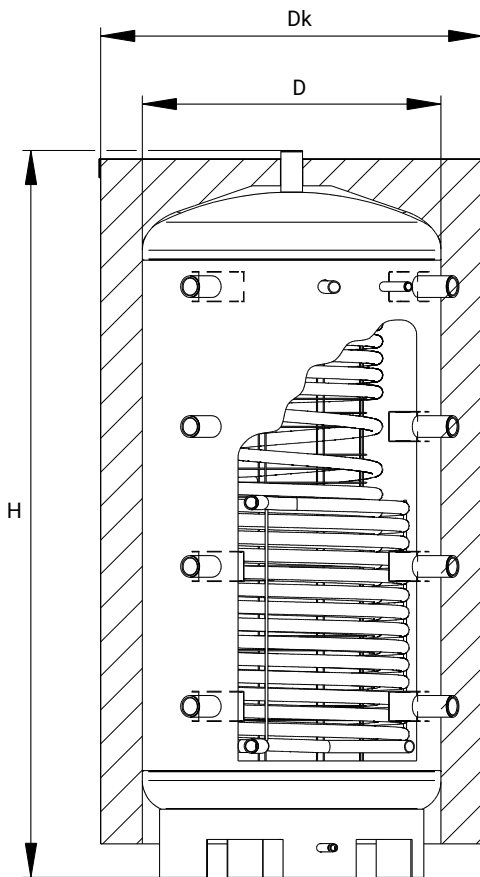
DISCHARGE
OUTLET



POSSIBILITY FOR
INTEGRATION IN SOLAR
SYSTEMS

BUFFER STORAGE TANKS

PT...CF ErP



*3 year full

*For more information about
the products and warranty terms,
please visit www.hajdurt.hu

TYPE		PT300 ErP	PT500CF ErP	PT750CF ErP	PT1000CF ErP
Rated volume	[litre]	300	500	750	1000
Height H	[mm]	1535	1890	1920	2320
Diameter (without insulation) D	[mm]	-	650	790	
Diameter (with insulation) Dk	[mm]	660	870	1010	
Maximum operating pressure					
- tank	[MPa]	0,6		0,5	
- solar exchanger	[MPa]	-		0,6	
- DHW pipe	[MPa]	-		1	
Water connection		Rp6/4			
Electric heating element connection		Rp6/4			
Sensor connections		Rp1/2			
DHW connections		-		G1"	
Heat exchanger surface	[m ²]	-	2,2	2,8	
DHW exchanger surface	[m ²]	-		6,8	
Weight (with insulation)	[kg]	87	142	172	177
Heat loss	[W]	86	78	92	98
Energy efficiency class		C	B	B	B

BUFFER STORAGE TANKS

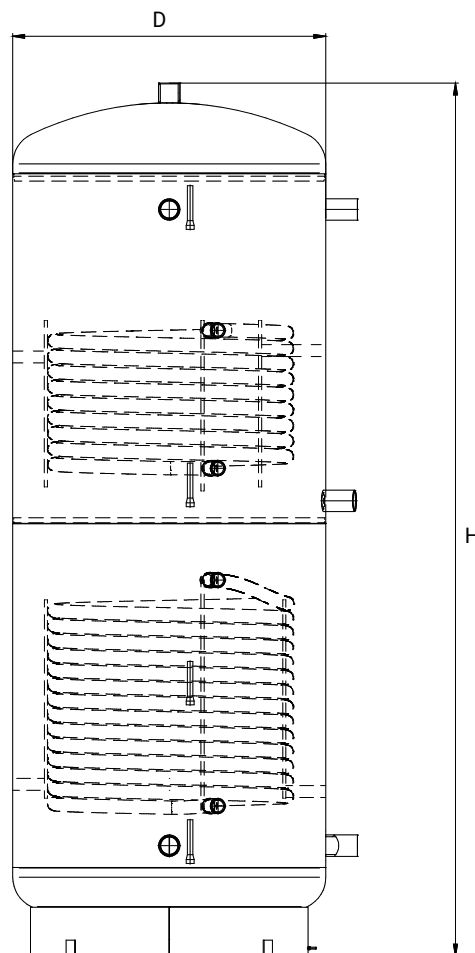
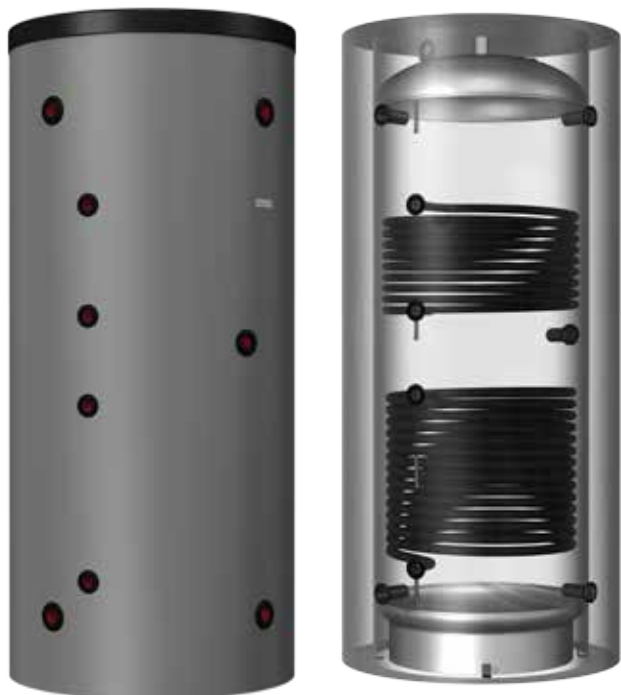


HEAT STORAGE FOR HOT
WATER BASED CLOSED OR
OPEN HEATING SYSTEMS



POSSIBILITY FOR
INTEGRATION IN SOLAR
SYSTEMS

AQ PT6.2... ErP



***3 year full**
*For more information about the products and warranty terms, please visit www.hajdurt.hu

TYPE	AQ PT6.2 500 ErP	AQ PT6.2 750 ErP	AQ PT6.2 1000 ErP	AQ PT6 1500 ErP	AQ PT6 2000 ErP	AQ PT6.2 500C ErP	AQ PT6.2 750C ErP	AQ PT6.2 1000C ErP	AQ PT6 1500C ErP	AQ PT6 2000C ErP	AQ PT6.2 500C2 ErP	AQ PT6.2 750C2 ErP	AQ PT6.2 1000C2 ErP	AQ PT6 1500C2 ErP	AQ PT6 2000C2 ErP	
Rated volume [litre]	500	750	1000	1500	2000	500	750	1000	1500	2000	500	750	1000	1500	2000	
Height (with insulation) H [mm]	1670	1860	2200	2190	2202	1670	1860	2200	2190	2202	1670	1860	2200	2190	2202	
Diameter (without insulation) D [mm]	650	790	1000	1150	1350	650	790	1000	1150	1350	650	790	1000	1150	1350	
Diameter (with insulation) Dk [mm]	850	990	1200	1350	1500	850	990	1200	1350	1500	850	990	1200	1350	1500	
Maximum operating pressure																
- tank [MPa]	0,3															
- lower heat exchanger [MPa]	-			0,6												
- upper heat exchanger [MPa]	-					0,6										
Water connection	Rp6/4															
Electric heating element connection	Rp6/4															
Sensor connections	outer pocket tube															
Exchanger connection	-					Rp1										
Lower exchanger surface [m ²]	-					1,7	2,9	3	3,6	4,2	1,7	2,9	3	3,6	4,2	
Upper exchanger surface [m ²]	-					1 1,8 2 2,4 2,8										
Weight (without insulation) [kg]	66	90	104	182	211	92	126	144	233	274	103	154	169	266	329	
Heat loss [W]	114	132	145	170	190	114	132	145	170	190	114	132	145	170	190	
Energy efficiency class	C															

GAS-FIRED APPLIANCES



Gas-fired storage water heaters are available in two designs: **GB...1** chimney vented, and **GB...2**, non chimney vented. They are wall-mounted, closed system appliances that can supply multiple water withdrawal locations and faucets with shower. The desired water temperature can be set using a knob. Non chimney vented models have the ODS (Oxygen Depletion Sensor) safety feature, i.e. the appliance will turn off before the oxygen content of air decreases to a level constituting health hazard.

HAJDU **condensation gas boilers** offer an all-round solution for setting up heating and hot water systems. Moreover, they are perfectly suitable for integration in solar systems. **HAJDU HGK...** and **HGK Smart** model condensation gas boilers come in wall-mounted design. A specially designed heat exchanger makes enables the production of heat and hot water independently from each other. The heat exchanger is made of aluminium and copper, which ensures a long service life. The application of the most advanced condensation technique results in the highest operational efficiency in this category, while also making the boiler environment-friendly. Since the appliance has neither a sequence valve nor a lamella heat exchanger, it does not require maintenance or replacement of these components either. They are compact appliance with small-footprint, easy and convenient to use, and they require minimum maintenance.

The control of the boiler allows the setting of three types of water heater functions, as needed (conventional – ON/OFF, Comfort – preheated heat exchanger, and ECO – self-learning).

These boilers can be connected to an indirect storage unit. They feature a highly energy-efficient modulation pump. The built-in RF module enables wireless remote control of the boilers via the use of a wireless radio frequency room thermostat. Accurate modulation and the special heat exchanger enable the boiler to function according to the customer's specific needs, whereby they can operate with high water-side efficiency in both heating and water heating mode. While normally running on natural gas (G20), they can be transformed to run on propane (G31).

The appliances are available in versions with maximum heating power of 18, 23, 26, 28, 32 and 41 kW. For higher power requirements, cascading can be applied. The control electronics of the boilers have a built-in weather-aware regulator that enables optimal heating via the connection of an optional external temperature sensor. The boilers can be ordered with a radio frequency room thermostat, HAJDU flue gas deflectors, mounting brackets, as well as a closed expansion tank with safety valve.

GAS-FIRED HOT WATER STORAGE TANKS, CHIMNEY VENTED AND NON CHIMNEY VENTED DESIGN



SUPPLY OF MULTIPLE
WATER WITHDRAWING
LOCATIONS



ENERGY CLASS
„A”



FAST
HEAT-UP

GB...

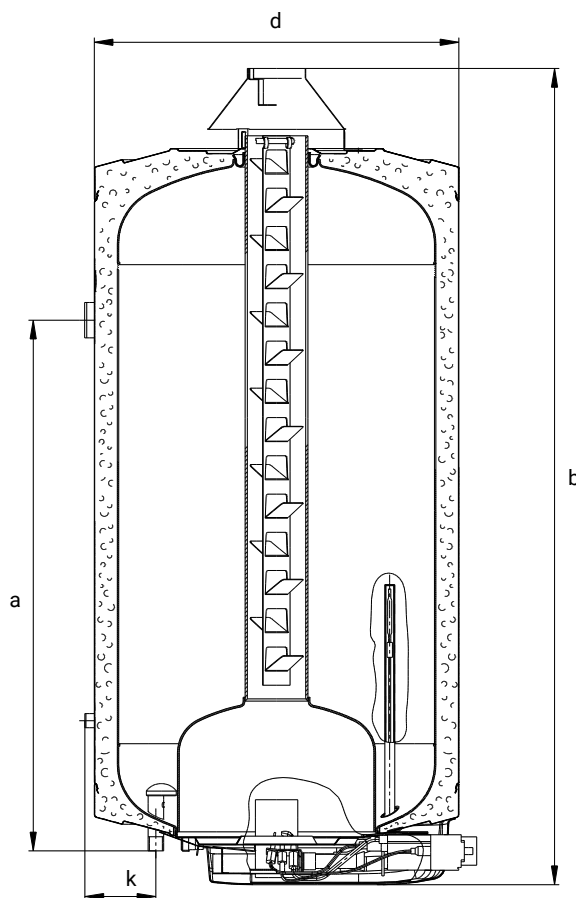


**HUNGARIAN
PRODUCT**

5*
YEAR
WARRANTY

*2 years full
5 year tank warranty

*For more information about
the products and warranty terms,
please visit www.hajdurt.hu



TYPE	CHIMNEY VENTED			NON CHIMNEY VENTED	
	GB80.1	GB120.1	GB150.1	GB80.2	GB120.2
Volume [litre]	80	120	150	80	120
b [mm]	877	1152	1352	859	1124
d [mm]	515				
a [mm]	500	750	1015	500	750
k [mm]	100				
Distance between pipe branches [mm]	100				
Flue gas deflection Ø [mm]	80			-	
Water connection	G1/2				
Max. operating pressure [MPa]	0,6				
Heating capacity for H-gas [kW]	5,3	5,6	6,3	2	
Heating capacity for S-gas [kW]	4,6	4,8	5,7	2	
Efficiency [%]	93*	95*	94*	93	
Heat-up time to 55°C [hour, minute]	0,56	1,09	1,2	2,19	3,37
Gas consumption [m³/h]	0,56	0,59	0,63	0,21	
Net weight [kg]	38	47	56	38	47
Hot water temperature [°C]	controllable, max. 80				
Flame supervision	thermoelectric				
Maximum load profile	M	L	L	M	L
Energy efficiency class	A	A	A	A	A

* factory data; certified value > 84%



HGK SMART AND HGK

- For sale in Hungary only



*2 years full
6 year or heat exchanger

*For more information about
the products and warranty terms,
please visit www.hajdurt.hu



TYPE		HGK-24	HGK-28	HGK-36	HGK-47	HGK Smart 24	HGK Smart 28	HGK Smart 36
DOMESTIC HOT WATER (DHW)								
Nominal output	[kW]	5,6 - 22,1	7,1 - 28,0	7,2 - 32,7	7,2 - 32,7	5,5 - 23,3	7,2 - 29,1	7,5 - 32,7
DHW threshold	[l/min]	2				1,5		
DHW flow at 60 °C	[l/min]	6	7,5	9		6	7,5	9
DHW flow at 40°C	[l/min]	10	12,5	15		10	12,5	15
DHW temperature	[°C]					60		
DHW supply time	[sec]					<1		
Water heater efficiency	[%]	83	85		87	84	87	
HEATING								
Nominal output 80/60°C	[kW]	5,4 - 17,8	6,9 - 22,8	7,1 - 26,3	7,7 - 40,9	5,9 - 22,7	7,7 - 28,4	8,2 - 32,1
Nominal output 50/30°C	[kW]	5,9 - 18,5	7,6 - 23,4	7,8 - 27,1	8,5 - 42,2	5,5 - 23,3	7,2 - 29,1	7,5 - 32,7
Max. heating water pressure	[MPa]					0,3		
Max. heating water temperature	[°C]					90		
Gas consumption (G20)	[m³/h]	0,59 - 2,30	0,75 - 2,90	0,75 - 3,40	0,8 - 4,41	0,59 - 2,30	0,75 - 2,90	0,75 - 3,40
Seasonal room heating efficiency	[%]	93			92	93		94
ELECTRICAL DATA								
Rated voltage	[V]					230		
Protection	[IP]					IP44		
Energy consumption at full load	[Wh]	80			135	80		
Energy consumption in standby mode	[Wh]					2		
BOILER DIMENSIONS AND WEIGHT								
Height	[mm]	590	650	710		590	650	710
Width	[mm]					450		
Depth	[mm]					240		
Weight	[kg]	30	33	36		30	33	36
ENERGY EFFICIENCY								
Maximum load profile		L	XL	XL	XL	L	XL	XL
Energy efficiency class (heating)		A	A	A	A	A	A	A
Energy efficiency class (water heating)		A	A	A	A	A	A	A



SOLAR COLLECTORS

M4 selective flat plate collectors

The **M4-200 flat plate collectors** contain 8 copper absorber tubes each with a diameter of 8 mm, and a selectively coated monolith absorber plate. The absorber plate is a 0,5 mm thick aluminium plate. It is ultrasonic welded to the tubes, which enables high heat transfer performance.

The collector has 40 mm thick heat insulation (made of rock wool with a density of 50 kg/m³) not only on the rear, but also on the sides.

The collector is covered by 3,2 mm thick tempered solar glass with reduced iron content. The glass has a triple seal: EPDM seal, silicone gel and a flexible fixing/clamping plate. The side wall of the collector, which is also a supporting structure element, is made of double-layer anodized aluminium. The back plate is made of anodized aluminium. The collector is fixed to the supporting structure by M8 screws. The screws can be freely moved in the rail formed on the sides of the collectors. The screws are factory-installed in the collector. There are two screws on both the lower left- and right-hand sides, and four screws at the top.

VTS evacuated tube collectors with parabolic reflector

Evacuated tube collectors consist of 1.5 m long evacuated tubes of 47 mm diameter. The tubes contain two concentric glass tubes. The vacuum between the tubes guarantees excellent insulation.

The inner tube comprises a sunray absorbing selective coating, copper absorber plate and a U-shaped copper tube filled with a mixture of antifreeze and water.

Collectors can be ordered with either 12 or 16 tubes. The aluminium parabolic reflective plate placed behind the tubes focuses sunrays to the tubes, thus making the collector more efficient.



70% ENERGY SAVING



VARIOUS ROOF MOUNTING KITS (FOR ANGLED AND FLAT)



RENEWABLE ENERGY

BUFFER STORAGE TANKS

VTS



M4

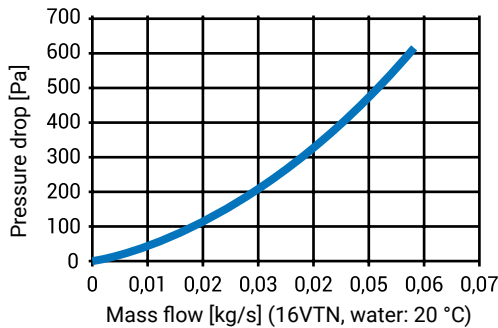


5*
YEAR
WARRANTY

*5 years full

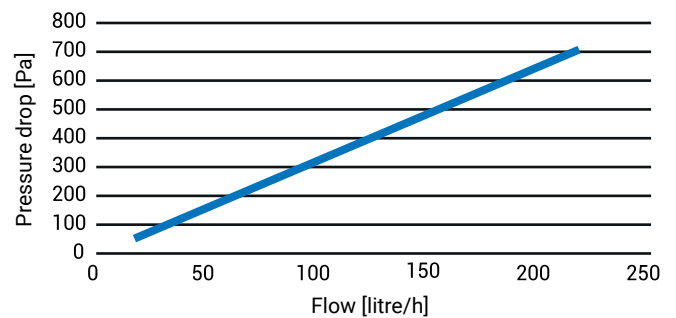
*For more information about the products and warranty terms, please visit www.hajdurt.hu

Pressure drop for 16VTN evacuated tube collectors



Pressure drop for M4-200 evacuated tube collectors

Pressure drop (40% propylene glycol + water mixture; 40°C)



TYPE	12VTS	16VTS
COLLECTOR		
Dimensions: height/width/thickness [mm]	1600/1330/100	1600/1770/100
Weight [kg]	35	45,5
Gross surface area [m ²]	2,13	2,83
Usable surface area [m ²]	1,96	2,61
Number of vacuum tubes	12	16
External diameter of the vacuum tube [mm]	47	
Length of vacuum tube [mm]	1500	
Vacuum tube material	borosilicate	
Tube wall thickness [mm]	1,5	
Pressure [Pa]	p < 0,005	
ABSORBER		
Absorber material: external diameter of the copper tube, copper plate [mm/mm]	9,5 / 0,8	
Coating	selective	
Absorption factor	a > 0,92	
Emission factor	e < 0,08	
Optical efficiency η_0	0,56	
Efficiency factor a_1 [W/(m ² K)]	1,48	
Efficiency factor a_2 [W/(m ² K)]	0,008	
Absorbing glass tube diameter [mm]	33	
Volume [litre]	2,6	3,4
Material of the heat transfer medium	glycol + water mixture	
INSULATION AND HOUSING		
Insulation thickness in house [mm]	30	
Insulating material	fiberglass + polyurethane	
Casing material	aluminium	
Connector size [mm]	18	
LIMIT VALUES		
Maximum operating temperature [°C]	227,3	
Maximum operating pressure [MPa]	1	
Pressure test during production [MPa]	1,5	
Energy output (Germany, Würzburg) [kWh/m ² /year]	650	
CERTIFICATION		
EN 12975-2/ISO 9806-1- Solar Keymark National Technical Assessments (NME) (Government Decree No. 275/2013 (VII.16.))		

TYPE	M4-200
COLLECTOR	
Dimensions: height/width/thickness [mm]	2060/970/90
Weight [kg]	35
Gross surface area [m ²]	2
Cover	3.2 mm heat treated glass
Glass surface (aperture) [m ²]	1,86
ABSORBER	
Absorber surface [m ²]	1,83
Type	monolith
Material	Selectively coated 0,5 mm aluminium plate and copper tube, D = 8 mm
Coating	selective
Absorption factor	a > 0,95
Emission factor	e < 0,05
Optical efficiency η_0	0,755
Efficiency factor a_1 [W/(m ² K)]	3,89
Efficiency factor a_2 [W/(m ² K)]	0,013
Volume [litre]	1,6
INSULATION AND HOUSING	
Insulating material	rock wool
Insulation thickness [mm]	40
Casing (frame/back plate)	anodised aluminium
Sealing	EPDM
Connector size [mm]	22
LIMIT VALUES	
Maximum operating temperature [°C]	177,6
Maximum operating pressure [MPa]	1
Energy output (Germany, Würzburg) [kWh/m ² /year]	690
CERTIFICATION	
EN 12975-2/ISO 9806-1- Solar Keymark National Technical Assessments (NME) (Government Decree No. 275/2013 (VII.16.))	

SOLAR SYSTEMS

Solar collectors absorb sunrays and transform them into heat, which is then delivered to the antifreeze fluid circulated inside of it. The absorber surface of the collectors has a special selective coating, which guarantees high efficiency, good heat resistance and long service life. A pump helps to transfer the fluid from the collector to the hot water tank, where it passes the solar energy through an internal heat exchanger.

The functioning of the system is constantly monitored by a solar regulator that starts or stops the pump depending on the temperature measured by sensors.

Solar systems can be added auxiliary electric heating built into the storage tank or central heating support. For solar collectors, the other elements required to operate the system - hot water storage tank, solar control, expansion tank - are also available.

In addition to the solar collectors, our company also provides all additional components required for functioning of the system (storage tank, solar regulator, expansion vessel). Solar energy produced by these appliances can – in the case of water heating – supply 70–80% of the annual energy demand.



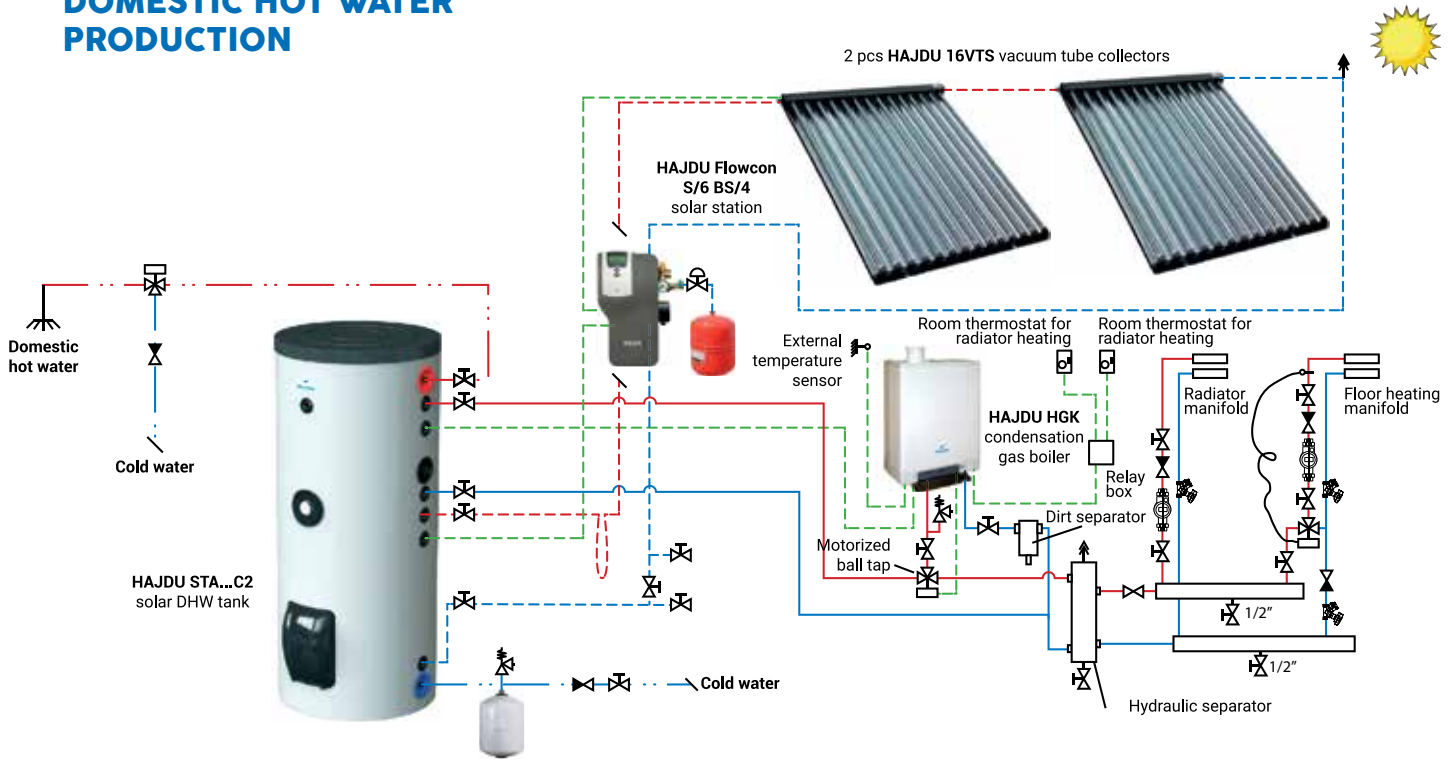


70% ENERGY SAVING

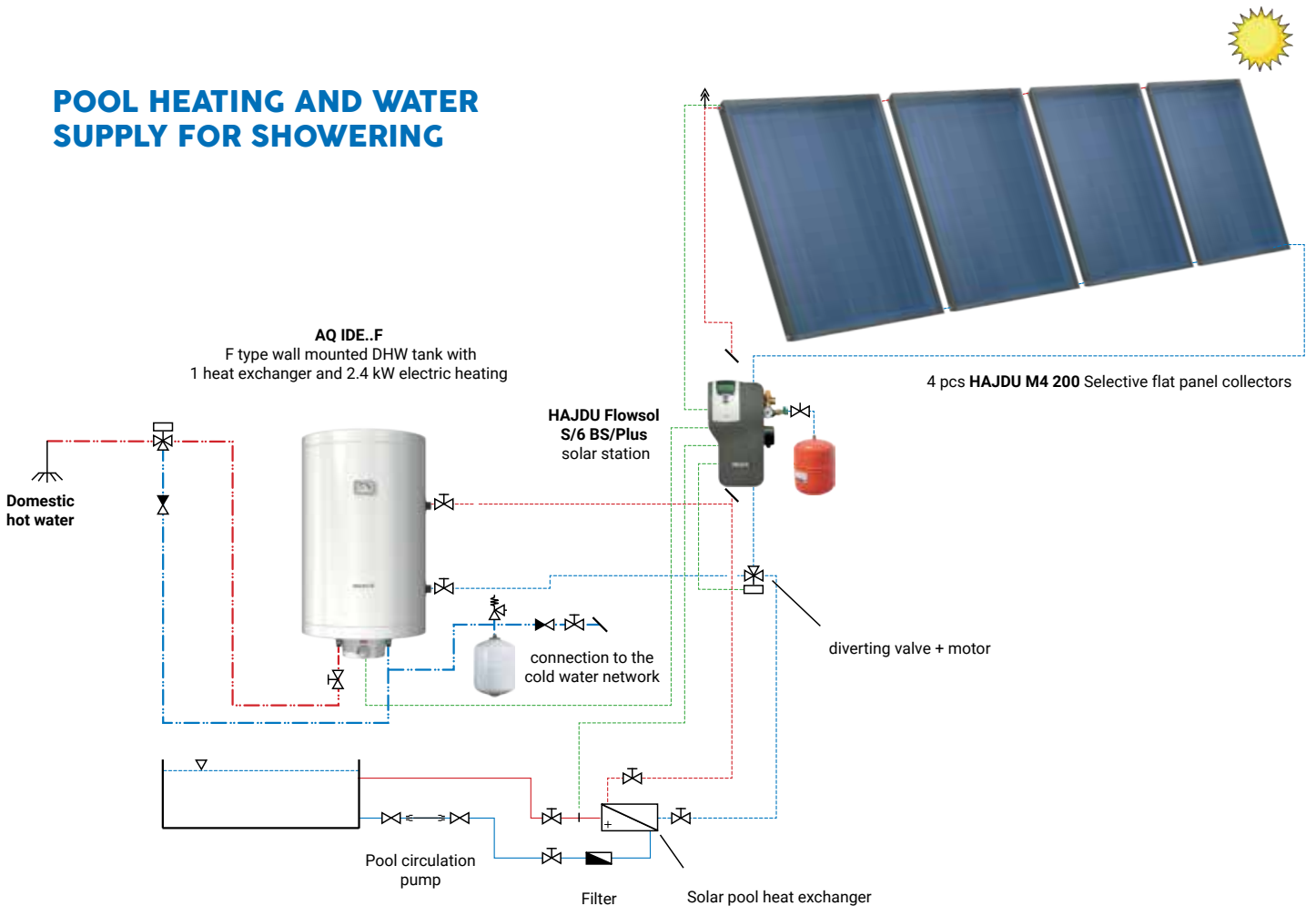


RENEWABLE ENERGY

DOMESTIC HOT WATER PRODUCTION



POOL HEATING AND WATER SUPPLY FOR SHOWERING



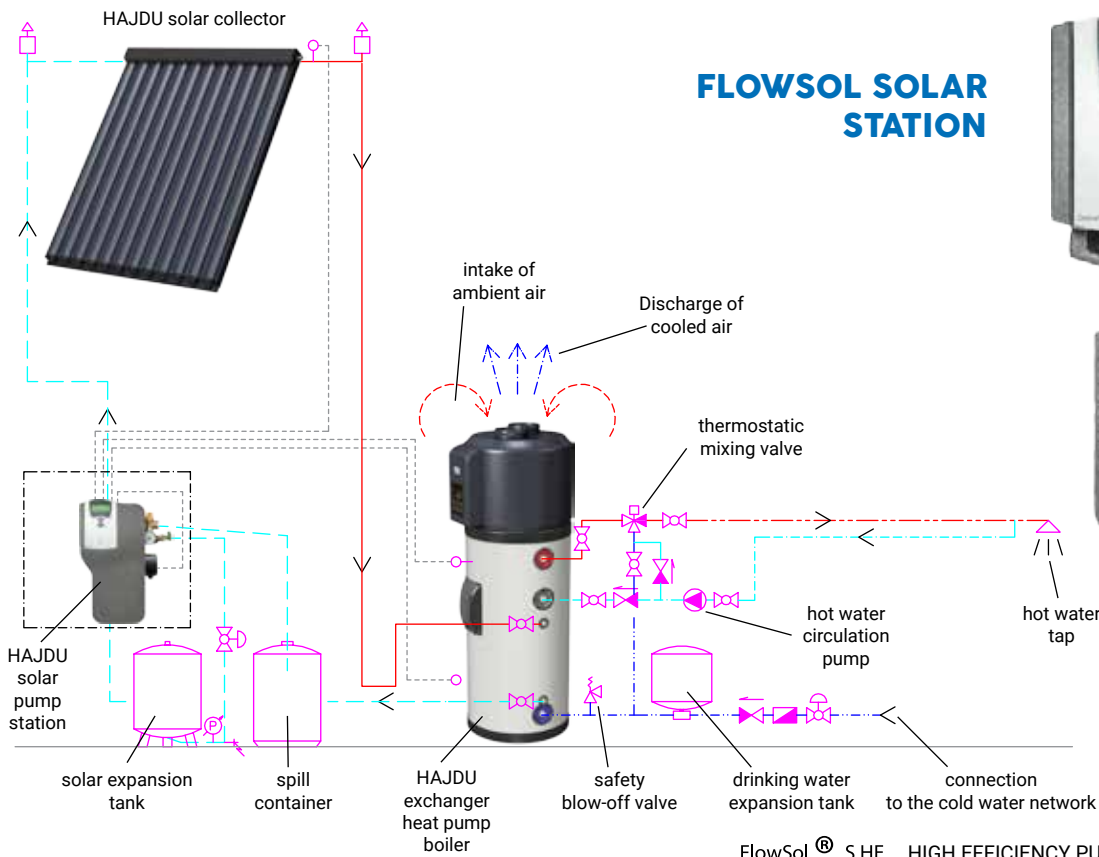
SOLAR SYSTEMS



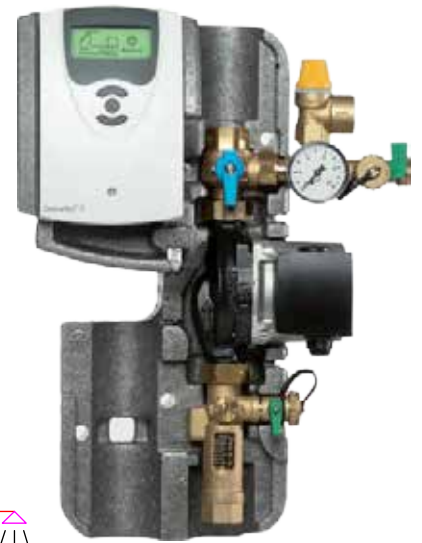
70% ENERGY SAVING



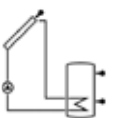
RENEWABLE ENERGY



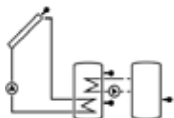
FLOWSOL SOLAR STATION



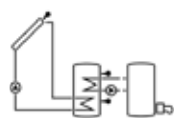
FLOWSOL SYSTEM DESIGNS



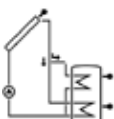
Normal solar system



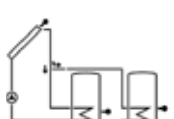
Solar system with heat exchanger



Solar system with reheating



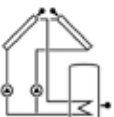
Solar system tanks with layer filling



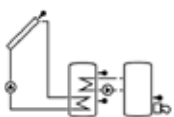
2 tank solar system with valve logic



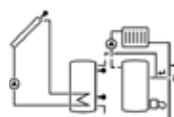
2 tank solar systems with pump logic



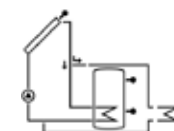
Solar system with 2 collectors and 1 storage tank



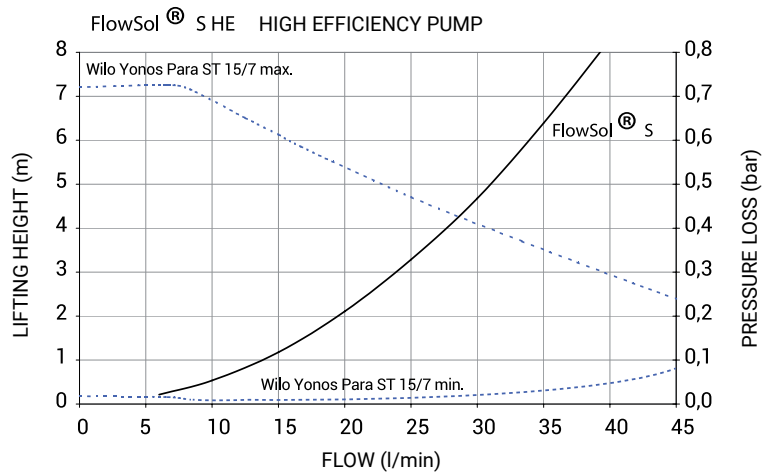
Solar system with reheating by solid-fired boiler



Solar system with return temperature increase in heating circuit



Normal solar system with residual heat removal



TECHNICAL SPECIFICATIONS

Accelerating pump	Wilо Yonos Para ST 15/7.0 PWM2 ERP ready
ErP power consumption (W) (at 50% power)	23
Safety valve (bar)	6
Pressure gauge (bar)	0..10
Flowmeter (liter/minute)	1..13
Closing assembly	1 pc one-way ball valve + 1 pc ball valve in the rotameter
Filling&discharge assembly	2 pcs ball valves
Expansion tank connection	RP 3/4"
Connector size for solar circuit lines	RP 3/4"
Maximum medium temperature	95°C
Maximum pressure (bar)	6
Medium	solar anti-freeze agent, mixture of propylene glycol and water up to 1: 1 dilution ratio
Dimensions (measured with thermal insulation) (mm)	430 x 223 x 193
Materials and fittings	brass
Seals	AFM 34
Thermal insulation foam	EPP

PARTS & ACCESSORIES

HEATERS



PART NUMBER: 2419991045

Heater 3kW,
6/4", 230V, L390; for types
STA, PT, AQ PT...ErP



PART NUMBER: 2419991067

Heater 2kW, 6/4",
230V, L390; for types STA, PT,
AQ PT...ErP



PART NUMBER: 2419991046

Heater 6kW,
6/4", 400V, L620; for types
STA500-1000,
PT 500-1000 ErP, AQ PT 500-2000 ErP



PART NUMBER: 2419991047

Heater 9kW,
6/4", 400V, L780; for types
STA800-1000,
PT 500-1000 ErP, AQ PT 500-2000 ErP



PART NUMBER: 2419991049

Flanged heater
12kW, 400V; for types STA400-500



PART NUMBER: 2419991059

Flanged heater
9kW, 400V; for types STA800-1000



PART NUMBER: 6104550188

Flanged heater with thermostat
and wires 2,4kW, 230V,
for types IND...F



PART NUMBER: 6104550247

Flanged heater with thermostat
and wires 3x1.2 kW, 230/400V,
for types STA 200-300



PART NUMBER: 6104550248

Flanged heater with thermostat
and wires 3x1.6 kW, 230/400V,
for types STA 200-300



PART NUMBER: 6104550256 - 2400 W
PART NUMBER: 6104550257 - 3200 W

Ceramic (steatite) heater with
thermostat and wires
6104550256 - 2400 W (3x800W),
230/400V, for types STA200 Sztea
6104550257 - 3200 W (3x1066W),
230/400V, for types STA300 Sztea



PART NUMBER: 6297129721 - 1800W
PART NUMBER: 6297129607 - 2400W

Immersion heater for type Z...ErP
and AQ...ErP hot water tanks

OTHER PARTS



PART NUMBER: 6312040108

Thermostat for IDE and IND type
hot water tanks



PART NUMBER: 6251373002

Flange gasket for
STA 200-300 Sztea
types



PART NUMBER: 6251373021

Flange gasket



PART NUMBER: 6105500207

Magnesium anode



PART NUMBER: 6312040076
(AQ...ERP 80-200L)

Thermostat for AQ...ErP type
hot water tanks



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