FLUSSO HORIZONTAL STORAGE TANK

Flusso Horizontal Storage Tank is an innovative product for the production of Domestic Hot Water (DHW) with the possibility of combining two different heat sources (Heat Pump and solar field) to ensure the rapid heating of the water.

This tank can be used in a wide range of applications from simple domestic to hotel applications, while it is ideally combined with **Flusso Solar Station** product.

INOX CONTAINER

ENERGY SAVE

PRODUCT MODELS

MODEL	FLUSSO BL HOR 400/1-1.4	FLUSSO BL HOR 600/1.4-1.8
Tank Capacity (lt)	392	550
Hot, Cold and Recirculation Water Connections	1''	1''
Heat Exchanger and Heat Pump Connections	1''	1''
Tank Length (mm)	1550	2050
Tank Diameter (mm)	800	800
Tank Weight (kg)	127	175

TECHNICAL SPECIFICATIONS	
Auxiliary heat sources	Heat pump - Boiler
Tank material	INOX 316L
Tank insulation	Polyurethane foam (thickness: 85 mm, density: 45 kg/m^3)
Tank outer casing	INOX 304
Tank welding type	Automatic circular welding
Tank protection	Inactivation coating
Tank nominal operating pressure	6 bar
Tank maximum operating pressure	10 bar
Tank maximum operating temperature	100^{o}C
Energy classification	B
Number of immersed heat exchangers	Two (2) (Solar field +Heat pump)
Solar field heat exchanger nominal operating pressure	3 bar
Solar field heat exchanger maximum operating pressure	6 bar
Heat pump heat exchanger nominal operating pressure	3 bar
Heat pump heat exchanger maximum operating pressure	6 bar
Heat exchangers material	INOX 316L
Heat exchangers welding type	Automatic circular welding
Heat exchangers protection	Inactivation coating

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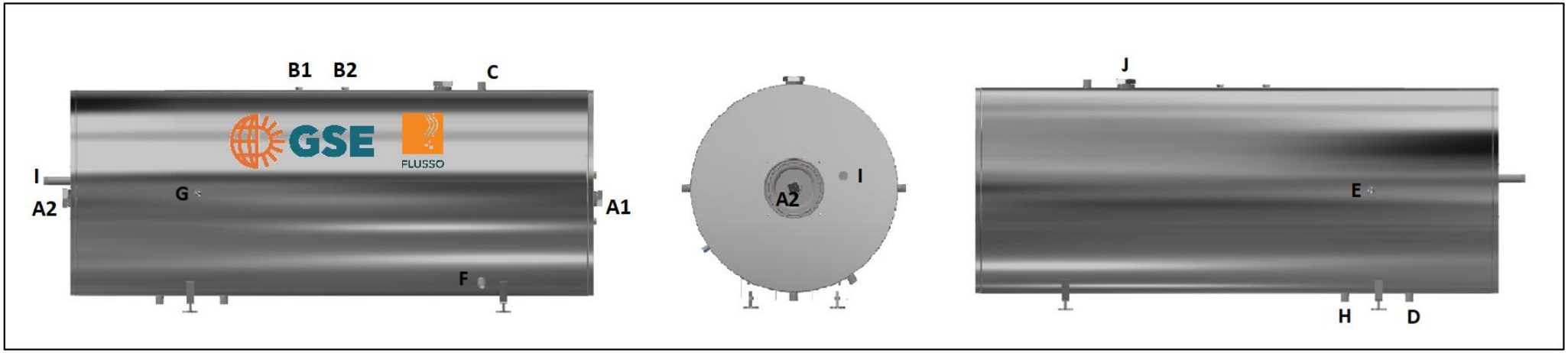
NOMENCLATURE AND HOLES DIAMETERS



HOLES	FLUSSO BL HOR		USE
	400/1-1.4	600/1.4-1.8	
A1	1 1/2" FEMALE		HEATING ELEMENT
A2	1 1/2" FEMALE		HEATING ELEMENT
B1	1/2" FEMALE		TEMPERATURE SENSOR FOR HEATING ELEMENTS
B2	1/2" FEMALE		TEMPERATURE SENSOR FOR HEAT PUMP
C	1" MALE		HOT WATER OUTLET/6 BAR SAFETY VALVE
D	1" MALE		COLD WATER INLET/DRAIN
E	1 " MALE		OTHER AUXILIARY SOURCE OUTLET
F	1 " MALE		OTHER AUXILIARY SOURCE INLET
G	1 " MALE		TO HEAT PUMP
H	1 " MALE		FROM HEAT PUMP
I	1 " MALE		RECIRCULATION RETURN
J	2" FEMALE		ANODE

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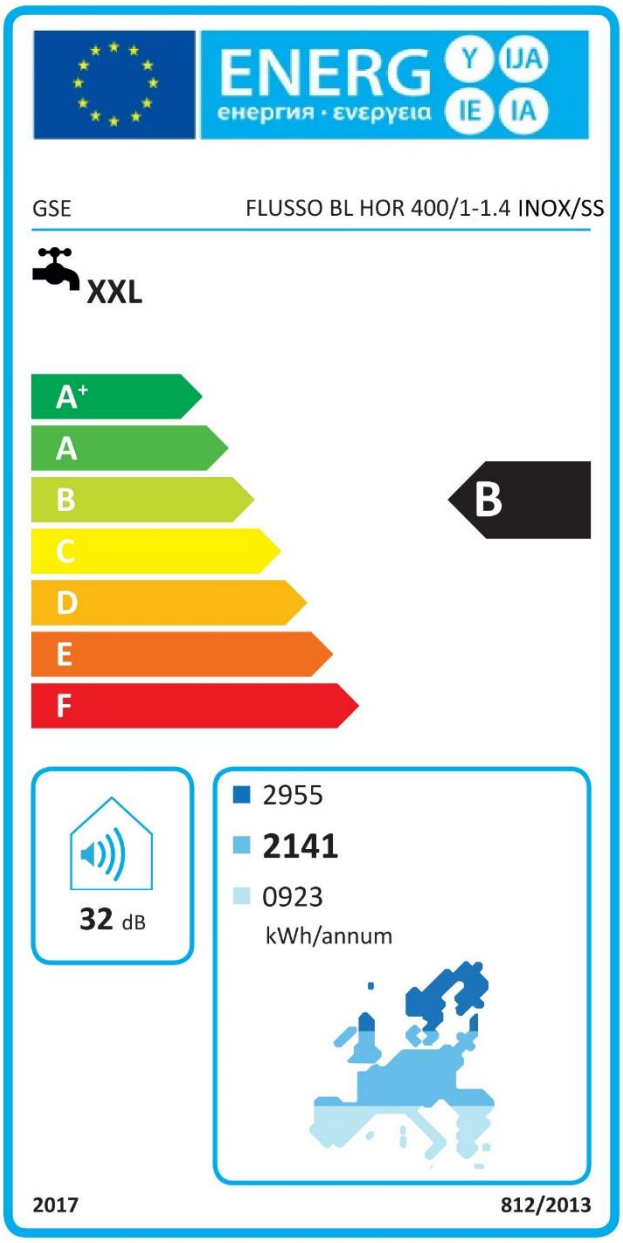
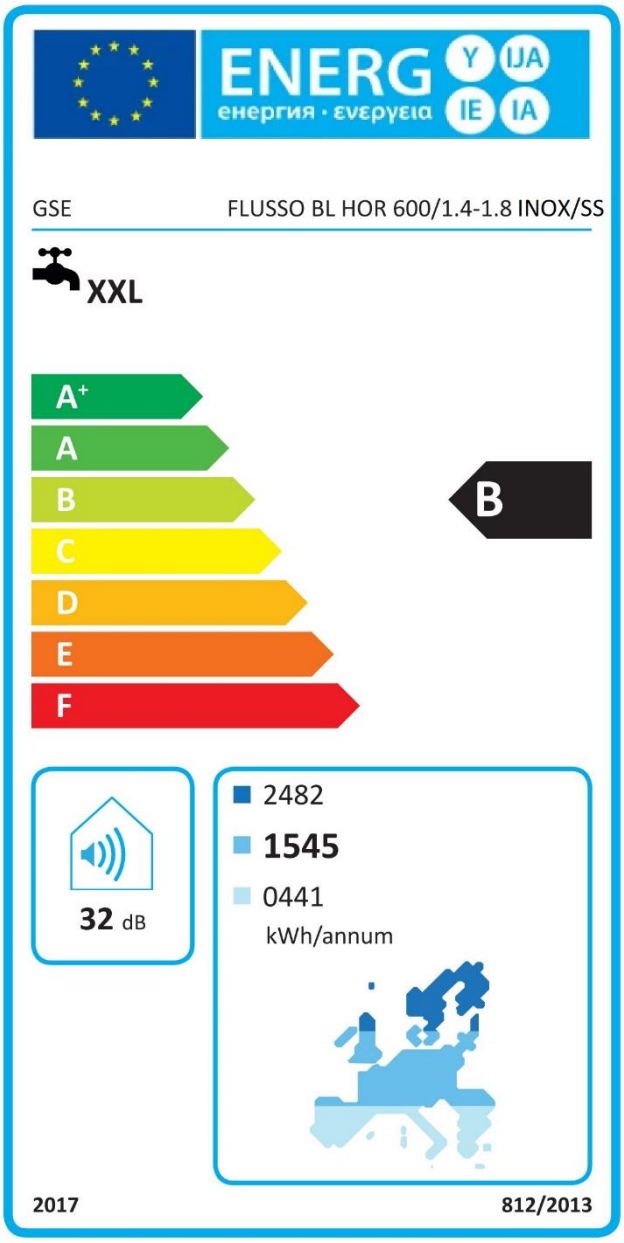
ENERGY LABELS





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QUALITY CHARACTERISTICS

QUALITY CHARACTERISTIC	BENEFIT
Tank body and heat exchangers made of INOX 316L and casing made of INOX 304 stainless steel	**Corrosion resistance** **Maximizes the lifetime of the installation**
Special design and placement of the heat exchangers	**Fast charging of the entire water volume inside the tank** **Ideal thermal stratification of the tank** **Full utilization of the energy sources**
Corrugated formation of the heat exchangers	**Avoiding scale build-up** both at the inner and the outer surfaces of the heat exchangers **Enhancement of the heat transfer** due to the increased exchange area and the enhanced turbulence levels
Triple energy tank	**Charging autonomy**
Energy classification B	**Low thermal losses**
Ergonomic design	**Easy installation and connections** **Space saving in engine rooms**
Low visual nuisance	**Ideal for hotel rooftops**

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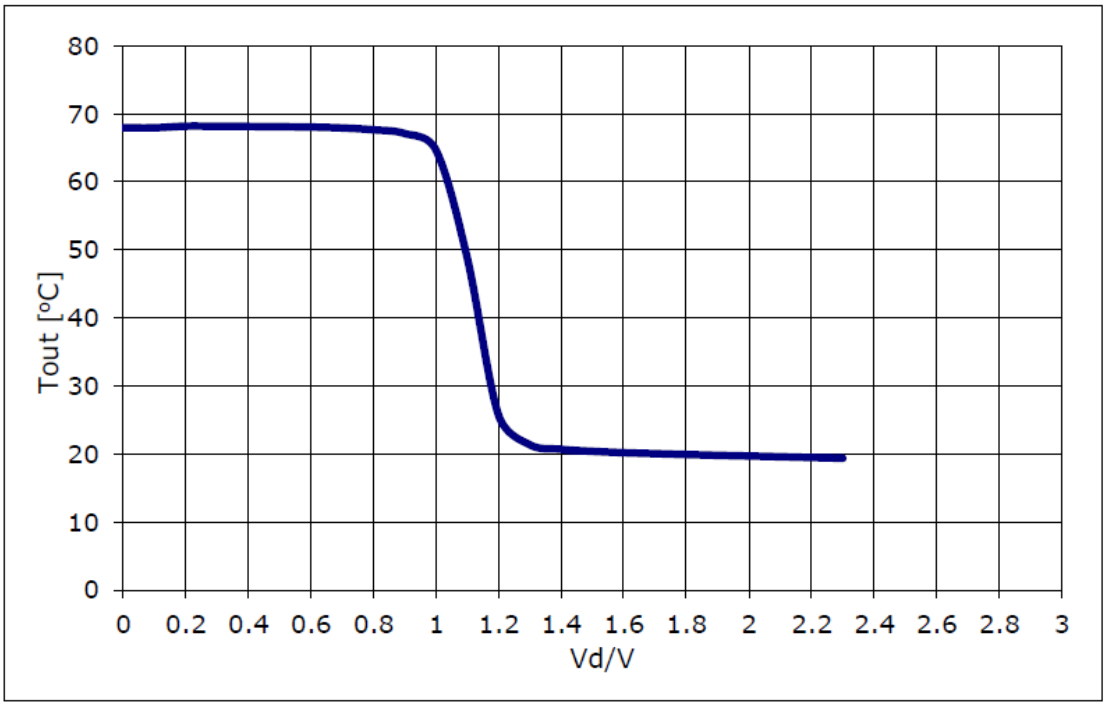
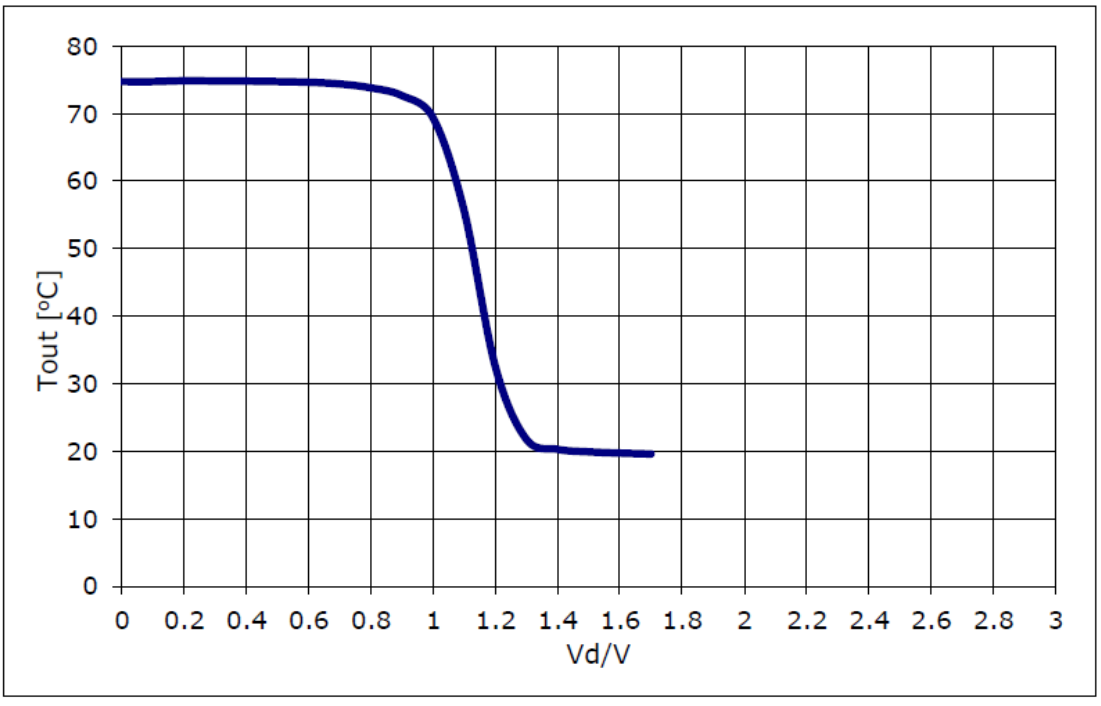
OPERATING CHARTS

1. Temperature distribution (Water supply: 600 lt/h)
(Test report from NATIONAL CENTER FOR SCIENTIFIC RESEARCH "DEMOKRITOS")

FLUSSO BL HOR 400/1-1.4



FLUSSO BL HOR 600/1.4-1.8



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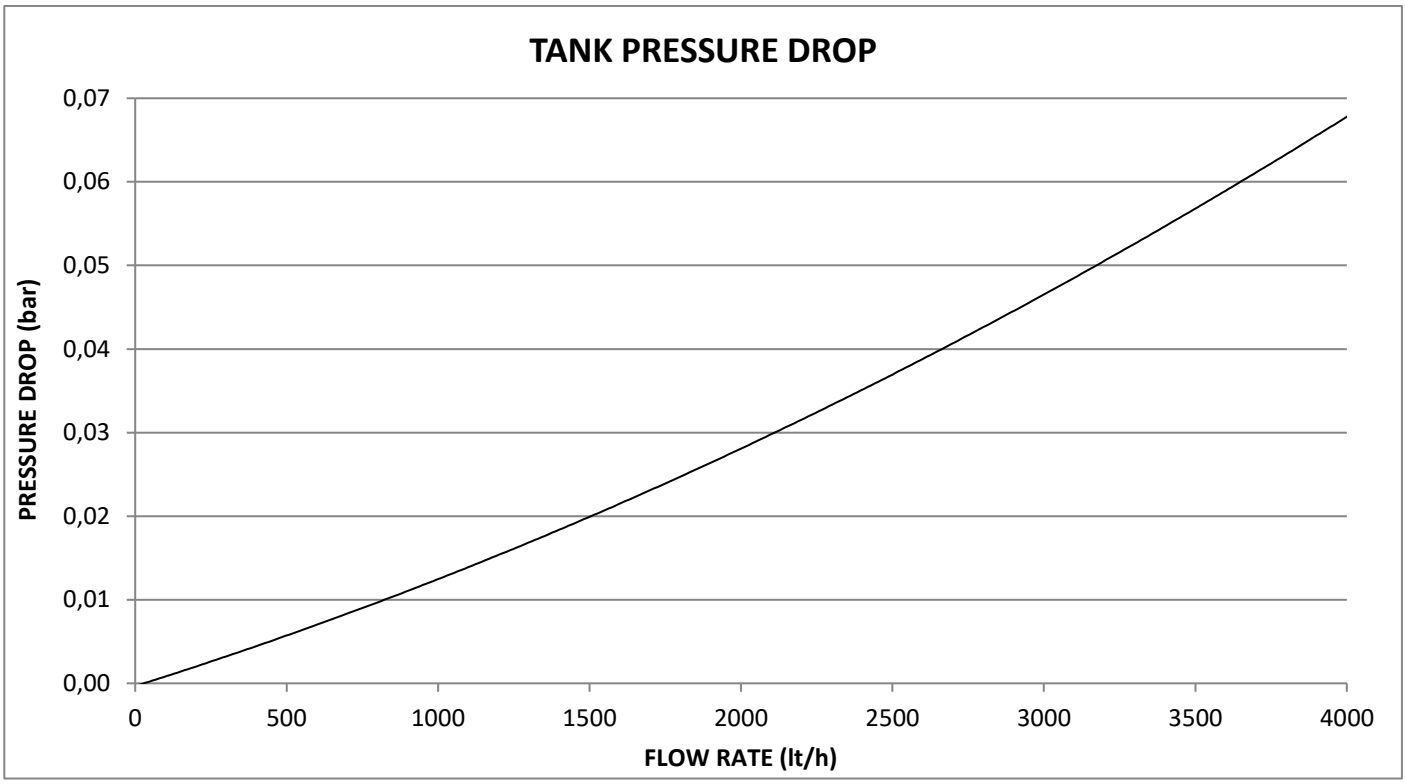
2. Tank pressure drop
(Test report from NATIONAL CENTER FOR SCIENTIFIC RESEARCH “DEMOKRITOS”)



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