

Makes You Experience the Change..

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PRO.. SERIES HOT WATER ACCUMULATION TANKS

WHERE IT IS USED...

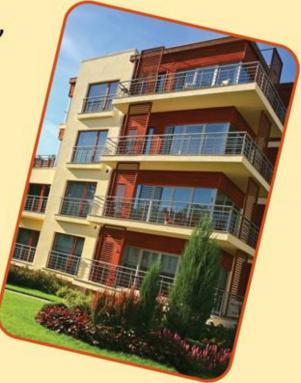


In gated communities, apartment buildings, Detached houses, Tourism and accommodation facilities, Hospitals, Military facilities, Dormitories, boarding schools, Sport facilities, factories...









Hot Water Accumulation Tanks

Ranging in size from 100 to 5000 litres capacity

Heat insulated structure

Resistant to corrosion

Easy mounting





GENERAL FEATURES

PRO.. Series Hot Water Accumulation Tanks



Our hot water tanks are specially designed to store the hot water for utilization in apartment blocks and any facilities equipped with central hot water system.

With TANPERA-ORW series plate heat exchangers, they enable the highest level of efficiency and flexibility in "Water Based Heating and Storing Systems".

Our tanks are available ranging in size from 100 to 5000 litres capacity.

They are delivered in the form of highly insulated thermal storage vessels to minimize theenergy loss and maximize the efficiency.

The tanks are coated with the best available materials to ensure corrosion resistance.

They are delivered ready to install with connection inlets on both sides to enable a flexible installation.

They are fitted with connection inlets for air vent/relief valve, temperature sensor, thermostat, thermometer, etc.

Multiple connection inlets enable Electric Water Heaters with Serpentine (Thermo-Boiler) assembling and installation.

The tanks are tested under 1.5 times more pressure than the operating pressure before delivering to the costumers.

WHY ACCUMULATION TANKS SHOULD BE USED...



Generally hot water usage in houses or facilities tends to peak at certain times of the day and mostly the hot water demand is below average. Besides, any time during the usage, hot water demand may tend to fluctuate. Therefore, using tankless plate heat exchangers may actually increase operating costs and create various disadvantages if the hot water is used during peak times.

In order to eliminate these disadvantages, we suggest you:

To use TANPERA-PRO Series Hot Water Accumulator Tanks in combination with TANPERA-ORW Series Plate Heat Exchangers in hot water systems.

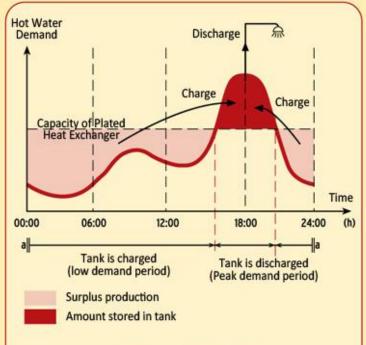
THEREFORE,

You can eliminate fluctuations in water temperature and ensure a comfortable utilization,

You can eliminate the risk of sudden temperature rise that may be caused by sudden fall in hot water demand and increase utilization safety,

You can eliminate the necessity of high capacity equipments such as heat exchanger, central heating boiler, burner, expansion tank and circulation pump to handle the peak demand of hot water at certain times of the day so you can save initial investment costs,

You can eliminate the fluctuations in instant heat level caused by the plate heat exchanger and depending on the automation system you can prevent irregular activation-deactivation process of the burner. By this way, the boiler may operate at the highest level of efficiency, which reduces energy consumption and operating costs.



A typical hot water demand profile for an apartment block







CAPACITY DETERMINATION & PROJECT SUGGESTIONS

First of all, the magnitude and duration of peak demand of hot water for utilization expected in the system and the total daily amount demand should be determined in a realistic manner in order for healthy determination of the volume of hot water required to be stored.

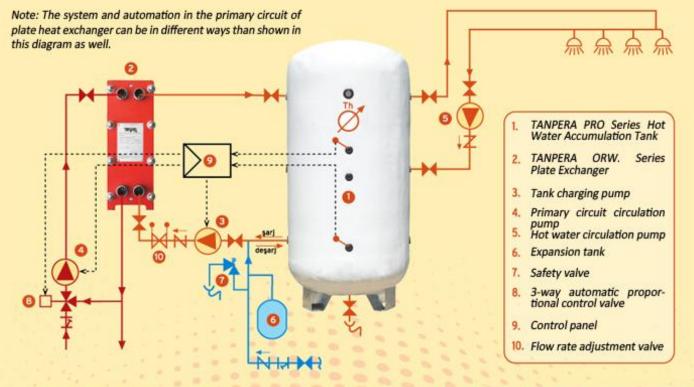
After determining to what extends the heat exchanger will handle the peak demand, the volume of the storage for the remaining part should be calculated. While calculating the storage need, the demand profile, the capacity of the primary heat source for the heat exchanger, the space for the storage together with installation and operating costs should be taken into account.

The size where the storing will be made and its shape must be taken into consideration with the places that the tank should be carried through its own place within the building, so that the tank required total storage capacity, if necessary, must be provided dividing into two or more tanks. The compression height as well as the tank charging pumps flow and the heat exchanger secondary circuit flow should be chosen to meet the pressure downs in this circuit; the semi-dry and wet-rotor pumps should be preferred for this task.

The vertical positioned tanks, except in compulsory situations, should be used to benefit in the most efficient manner from the volume of hot water in the tank ensuring better temperature stratification.

A safety valve that is selected in opening pressure in accord with the tank's operating pressure and the utilization water circuit should be placed; according to tank capacity, the minimum diameter up to 750 liters should be $\frac{1}{2}$ ", up to 3000 liters should be 1", and for larger tanks should be 1 $\frac{1}{2}$ ". In addition, an expansion tank in appropriate capacity is suggested for this circuit.

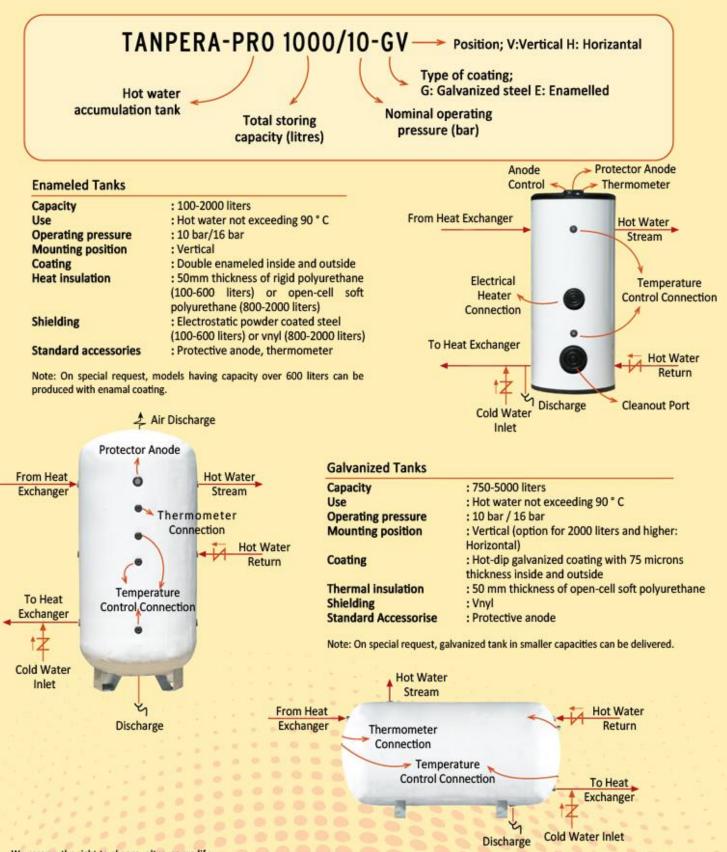
The appropriate security measures must be taken in order to eliminate the users' burning risk by hot water as a result of possible automation failures.



By the installation layout proposed in the above scheme, TANPERA PRO Series Hot Water Accumulation Tank, depending on instant demand, can be discharged regularly by the hot water with desired temperature.

TECHNICAL SPECIFICATIONS



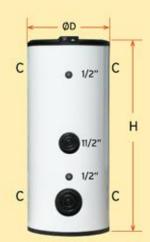




MOUNTING SIZES

PRO.. Series Hot Water Accumulation Tanks

Enamel Tanks	CAPASITY		EMPTY WEIGHT		
	(litres)	øD (mm)	H (mm)	C	(kg)
PRO- 100/10-EV	100	500	1110	1"	55
PRO- 160/10-EV	160	600	1130	1 1/4"	70
PRO- 200/10-EV	200	600	1330	11/4"	85
PRO- 350/10-EV	350	750	1350	1 1/4"	120
PRO- 500/10-EV	500	750	1800	11/4"	150
PRO- 600/10-EV	600	750	2040	11/4"	170
PRO- 800/10-EV	800	900	2150	11/z"	240
PRO- 1000/10-EV	1000	1000	2170	1 1/z"	300
PRO- 1500/10-EV	1500	1150	2500	2"	350
PR0- 2000/10-EV	2000	1250	2520	2"	450



Galvanized Tanks - Vertical Type

DEVICE TYPE	CAPASITY		EMPTY WEIGHT			
	(litres)	øD (mm)	H (mm)	C1	C2	(kg)
PR0- 750/10-GV	750	850	2100	2"	11/2"	190
PRO- 1000/10-GV	1000	950	2160	2"	1 1/2"	220
PRO- 1500/10-GV	1500	1150	2210	2 1/2"	11/2"	370
PRO- 2000/10-GV	2000	1150	2800	2 1/2"	11/2"	440
PR0- 2500/10-GV	2500	1400	2400	3"	2"	550
PRO- 3000/10-GV	3000	1400	2820	3″	2″	600
PRO- 4000/10-GV	4000	1500	3200	3"	2"	810
PRO- 5000/10-GV	5000	1500	3810	3″	2″	930



Galvanized Tanks - Horizontal Type

DEVICE TYPE	CAPASITY (litres)	DIMENSIONS				EMPTY	16			4	
		H (mm)	L (mm)	øD (mm)	C1	C2	(kg)		C1	L	1
PRO- 2000/10-GH	2000	1350	2590	1150	2 1/2"	1 1/2"	450	C1 - 1/2" 1/2"	1	C2	
PRO- 2500/10-GH	2500	1600	2190	1400	3"	2"	560				
PRO- 3000/10-GH	3000	1600	2610	1400	3"	2"	610			ØD	Н
PRO- 4000/10-GH	4000	1700	2990	1500	3"	2"	820			-	·1/2" •C1
PR0- 5000/10-GH	5000	1700	3640	1500	3"	2"	940	1. 1.		*	
									_		C2

Note: The most recent measurements and mounting dimensions that can be used in designs & projects can be seen at <u>www.tanpera.com.tr</u> website.



OTHER PRODUCTS

- PLATED HEAT EXCHANGERS
- ELECTRICAL HOT WATER PREPARATIVES
- HOT WATER SYSTEMS FOR PACKAGE TYPE UTILIZATION
- THERMAL BALANCE (BUFFER) TANKS
- **BOILERS**
- HYDROLIC BALANCE TANKS
- AIR EJECTORS STRAINERS

Great white egret can stand in very cold waters for a long time without freezing as it is able to achieve an efficient heat exchange between the blood returning with 1°C from its feet and the blood coming from heart with 40°C.

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