Reference











PST	250

PST 250	
Country	Slovenia
Year	2016
Capacity	250
Heating	Heating electricity
Industry	Chemistry

PST 500



PST 1000

	C
Country	Germany
Year	2016
Capacity	1.000 l
Heating	Heating water
Industry	Dairy

PST 1000

Country	Germany
Year	2016
Capacity	1.000 l
Heating	Heating water
Industry	Dairy

PST 3000

PST 3000	
Country	Etiopia
Year	2016
Capacity	3.000 I
Heating	Heating water
Industry	Dairy







Pumping acessories







Ice bank

Pantherm

Hot water





Cleaning In Place (CIP)







Mixing pump

Filling machine

Heating options

HW

Heating up to 100 °C

- \rightarrow connections to an external heating system
- → manual valves

111

Туре

PST 500 HW

PST 750 HW

PST 1000 HW

PST 2000 HW

PST 250 HW 35

PST 1500 HW 95

PST 3000 HW 200

 \rightarrow control panel with basic heating regulation

Heating power (kW) [•]

65

65

95

150



Heating up to 100 °C

- → electrical heaters 20–90 kW
- \rightarrow expansion vessel, safety valve, manometer, pump
- \rightarrow control panel with basic heating regulation



\/	\/
V	V

Heating up to 100 °C

- → electrical heaters 20–60 kW
- \rightarrow expansion vessel, safety valve, manometer, pump
- \rightarrow connections to an external heating system
- \rightarrow control panel with basic heating regulation



Code	Туре	Heating power (kW) ^{**}	Code	Туре	Heating power (kW)**	Code
1.700.00	PST 250 EL	20	1.701.80	PST 250 EW	20	1.701.90
1.700.01	PST 500 EL	36	1.701.83	PST 500 EW	36	1.701.92
1.700.02	PST 750 EL	40	1.701.84	PST 750 EW	40	1.701.94
1.700.03	PST 1000 EL	60	1.701.86	PST 1000 EW	60	1.701.96
1.700.04	PST 1500 EL	90	1.701.87	PST 1500 EW	90	1.701.97
1.700.05	DST 2000 EI	120	1 701 00	DST 2000 EW	120	1 701 09
1.700.06	PST 2000 EL	120	1.701.88	P31 2000 EW	120	1.701.98

* Recommended power for the preparation of hot water with an oil or gas-powered heating boiler. Preparation of hot water is not included. ** Electrical heaters

Measurements



	Dimensions (mm)													
Туре	Inside diameter d	Outside diameter D	Height H	Outflow height C	Water connections	Product inlet	Product outlet							
PST 250	Ø 750	Ø 865	1420	300	5/4"	DN 40	DN 65							
PST 500	Ø 900	Ø 1015	1720	300	5/4"	DN 50	DN 65							
PST 750	Ø 900	Ø 1015	2110	400	5/4"	DN 50	DN 65							
PST 1000	Ø 1185	Ø 1300	1980	400	5/4"	DN 50	DN 65							
PST 1500	Ø 1185	Ø 1300	2450	400	6/4"	DN 50	DN 65							
PST 2000	00 Ø 1430 Ø 1540		2250	400	6/4''	DN 50	DN 65							
PST 3000	Ø 1600	Ø 1735	2800	400	2"	DN 50	DN 80							



PLEVNIK, d.o.o. Podsmreka 56 SI 1356 Dobrova info@plevnik.si + 386 (0)1 200 60 80 Together we have created more than 2,600 succesful business stories



www.plevnik.si

Representative:

In the process of constant improvements, we reserve the right to make technical and design modifications without prior notice.

Produce with ease!

Whey Yogurts Lactic cheese Creams Chocolate Marmalade Pudding Ketchup Sauces

PROCESSING STIRRING TANKS PST 250-3000 |



PROCESSING STIRRING TANKS PST 250–3000 I



The Process Stirring Tank PST

is a universal device used for the thermal reproduction and stirring of many different products with a density up to 50.000 cPs. Can be used in dairy, bakery, cosmetics,



Basic equipment:

• three-part, energy saving, insulated tank with conical bottom, made of stainless steel W.Nr.1.4301 / W.Nr.1.4404 (AISI 304 / AISI316)

500

• laser welded exchanger allows a maximal heat exchanging area on the wall and bottom

750

1000

1500

2000

3000

- maximal working pressure in the exchanger: 3 bar
- maximal temperature in the exchanger: 115 °C

litres 250

- welded cover with manhole and air valve
- electrical (EL), hot water (HW) (boiler, solar, heat pump,...) or combined (EW) heating
- connections for heating or cooling water
- CIP cleaning in place system (closed execution)

 \rightarrow Two simultaneous stirrers \rightarrow Heating up to 2 °C / minute 0 25 50 75 100 125 150 175 200 225 250 Time [min] Lactic



ADVANTAGES:

→ Dedicated stirrers

 \rightarrow Automatized processes

ightarrow Heating is done by: an outside hot water boiler, electrical heaters or electrical heaters in combination with a hot water boiler.

	1	 CIP Cleaning system that provides for a fast and easy everyday clean tank Measurement scale * for the optical measurement of volume 						
	2							
* Ava	3	 TWO stirrers simultaneously * give a greater variety of process choices Stirrers are one of the critical part of process - we develop an entire specific them Pneumatic valves * - automatic control of outgoing products 						
lahle as an o	4							
ntion	5							
	PS		IONS					
	Open e two-	execution, part cover	For easy and greater access into the tank.					

manual cleaning.

Working | platform a stair



🔒 100 °C HEATING UP COOLING DOWN

STIRBING PROCESS:

Produce	STITUTING I I	100233.											IOOL00.						
with ease	Stirrers		Helical TYPE 1 R 25–70 rpm 30–160 m/min	Helical TYPE 2 R 17–50 rpm 21–120 m/min	sraper	Helical TYPE 3 R 25–70 rpm 25–160 m/min	Helical TYPE 4 R 25–70 rpm 30–160 m/min	Propeller TYPE 1 R 19–37 rpm 20–150 m/min	Propeller TYPE 2 R 20–200 rpm	Propeller TYPE 3 R 450–1800 rpm	Propeller TYPE 4 R 60–300 rpm		à	Dispersion LIGHT 500–1500 rpm	Dispersion PRO 600–3000 rpm	Dissolver 500–1500 rpm	Homogeni- zation 500–1500 rpm	Blender 100–400 rpm	Screw 30–120 rpm
Milk Whey Yogurts	Your products	Viscosity (Cps)			98 +							Substance	Viscosity (Cps)						
A THE	Milk	3								-		Guar gum 0.5%	130						
	Guar gum 0.5%	200										Sugar 20%	1000						
Con Can	Whey	500							-	-		Powders - type 1	1000		_				
Lactic	Lactic cheese	500						_	_	_		Sugar 60%	1500		_				
Creams	Liquid yogurt	1000		-						-		Sugar 80%	2000						
X	Ketchup	1000		-								Powders - type 2	3000						
STAL.	Stirred yogurt	2200										Guar gum 1%	4000						
	Yogurt	2600	-									Powders - type 3	4000						
Markey Law	Tomato sauce	2600	-									Guar gum 2%	16000						
Chocolates	Chocolate	2800			+								0.01–0.5 mm	n — — —		-		-	
Marmalades Puddina	Greek yogurt	3500										Solid particles	0.5–2.0 mm			-		-	
	Guar gum 1%	4000										Solid particles	2.0-6,0 mm	-					-
C D	Marmalade	8500			+								6.0 mm	-					
	Pudding	9000			+									The LIGHT	The PRO dispersion	The dissolver	The homo-	The blender	The screw stirrer
1 Contraction of the second se	Rice pudding	10000			+							Highly recommer	ided	dispersion stirrer	stirrer performs a	stirrer is used in emulsification and	genization	stirrer is used for blending.	is used for mixing processes. It
Ketchup	Spreads	15200			+									mixing without	mixing of content in the micro and macro	dispersion pro-	homogenization	mixing, and emulsification	is designed to
Jances Panna cotta	Guar gum 2%	16000										Recommended		stirrer can be used	range without air	signed for mixing	designed for low	processes of semi-viscous	vertical flow
Rice Milk Creamy cheese and much more	As food pro I can make of different with the s setup	a lot a lot foods same	The helical type 1 stirrer is the best stirrer for mixing liquid products with solids, or simply granulated solids. The design of the stirrer provides gentle but effective mixing without damaging the solids.	The helical type 2 stirrer is a universal stirrer. Its design provides a gentle mixing of sthe product and an effective pumping effect. The stirrer is capable of strong displacement of the product from the top to bottom of the tank.	The stirrer acts as a helical type 2 stirrer when rotating clockwise. When rota- ting coun- erclockwise the stirrer acts as a scraper.	The helical type 3 stirrer provides a good pumping effect. Its design (like the letter T) provide a flow in a shape of a spiral which enables a quite gentle mixing of the product and a good pumping effect for semi-viscous products.	The helical type 4 stirrer provides a good pumping effect. Its design (like the letter L) provide a flow which enables a quite gentle mixing of the product and a good pumping effect for low viscous products. The stirrer is positioned from the center.	The propeller type 1 stirrer provides a good pumping effect. Its centered position and the design of the shovels in one/two or more rows ensure the mixing of product from the top to the bottom of the tank.	The propeller type 2 stirrer provides an efficient pumping effect. The position and stirrer design ensure an efficient pumping effect in the vertical direction of the tank, which prevents solid particles from depositing on the bottom.	The propeller type 3 stirrer provides an efficient pumping effect. The position, design and high speed of the stirrer ensure the mixing of n the product from the top to the bottom of the tank, which prevents solid particles from depositing on the bottom.	The propeller type 4 stirrer provides a good pumping effect. The position and stirrer design ensure mixing of the product. The stirrer is especially aggressive on hard solids in the product	Good Good with limitat Accessory	ions	dispersion and homogenization processes of low viscosity products. The dispersion head has custom made holes adapted to the process.	controlled, wetting-out process by separating and breaking down the agglomerates. The stirrer can be used for suspension, dispersion and homo- genization processes of semi-viscous pro- ducts. The dispersion head has custom made slots adapted to the process.	with dispersed solids or for very viscous products.	Note: Rotation s	products. The blender stirrer works in a combination with the helical type 2 stirrer which continuo- usly supplies unmixed pro- duct.	pieces without damaging them and when mixing high viscous pro- ducts. The screw stirrer works in combination with the helical type 2 and 3 stirrers which continuously supplies unmixed product.
Working platform Access to the a a staircase and rail.	tank with d a safety	Dosing funnel	sing with a funnel a practical way to x bulk ingredients d liquids	Pneumatic manual valv	c/ Con ope pose or p tech	trolled tank ning and closing is sible with a manua neumatic unical solution.	s mod	ing ule Plate heat ex is an option, required for	xchanger , which is cooling.	Volume sensor	Aeasures the volume in the vessel with in pressure sensor.	State-of-the- control	art The ler cont enab up to	MC 500 and MC 70 trollers with large tou ole easy and flexible o 10 thermal treatme	0 digital ichscreens operation of ent programs.	- Fibi-sesser	P Rec	rocess cording The o record proce a sim v and s	ptional Jing of sses enables ple, reliable afe production.
		lanual	Pneumatic	Butterfly valve	Sea	tt valve	tic/	•					rese	T1=40,0°C D1=30min	ENTER Info Ntcorder OFF ON Total prometers r the proc	Cocess control. Var nay be changed e ess is in operation	ious para- even while		93,8 133,0 25,1 coord

MIXING PROCESS:





