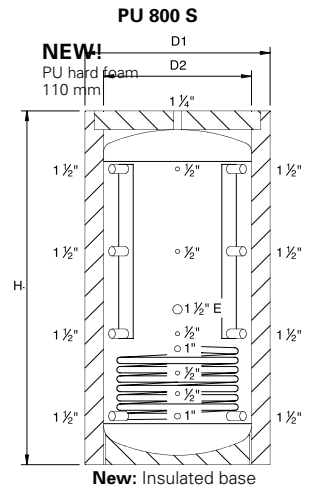
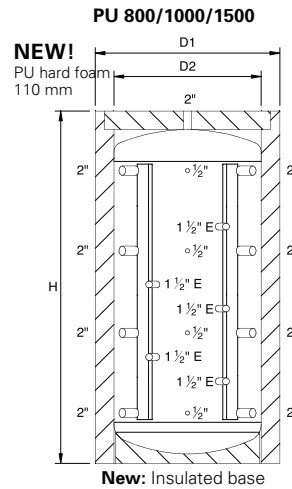
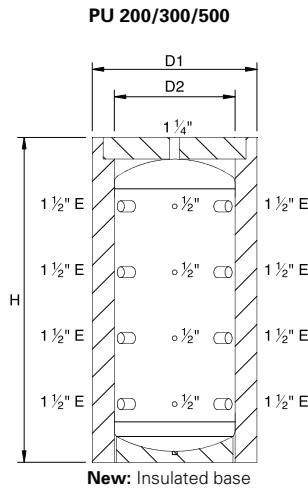




STORAGE TANK

HEAT PUMP SEPARATION TANK De-coupling/buffer tank, including thermal insulation ErP ready For optimum heat pump stratification and highest energy efficiency class

ÖKO-MASTER® SERIES



Type/Artikel	PU200	PU300	PU500	PU800	PU1000	PU1500	PU800S
Order number / delivery class	920590 / I	920591 / I	920592 / I	920594 / I	920595 / I	920596 / I	920593 / I
Price	608,-	682,-	829,-	1.369,-	1.513,-	2.573,-	1.535,-

Recommended storage volume 30 l/kW for MAP promotion * and smartgrid functionality



New: Insulating caps for unused connections 1 1/4", 1 1/2" and 2" included as standard equipment

Technical data:

Height with insulation H	[mm]	1540	1450	1750	1890	2110	2380	1890
Ø with insulation D1	[mm]	650	700	810	1030	1030	1200	1030
Ø without insulation D2	[mm]	450	550	650	790	790	950	790
Weight	[kg]	65	80	110	130	150	200	130
Storage volume	[l]	200	300	500	800	1000	1500	800
E-rod usable up to max.	[kW]	3	6	9	9	9	9	9
Smooth pipe exchanger	[m²]	-	-	-	-	-	-	2,4
Fresh-water exchanger	[l]/[m²]	-	-	-	-	-	-	-
Tilt dimension	[mm]	1530	1480	1780	1950	2160	2450	1950
Material		steel, non-coated – without exchanger – without flange						steel – smooth pipe
Insulation (tank outer wall + base)	[mm]	PU hard 70 mm	PU hard 70 mm	PU hard 70 mm	PU hard 110 mm	PU hard 110 mm	PU hard 110 mm	PU hard 110 mm
Flange 12/8 hole outside ø	[mm]	-	-	-	-	-	-	-
Flange 12/8 hole inside ø	[mm]	-	-	-	-	-	-	-
Bolt-hole circle	[mm]	-	-	-	-	-	-	-
Stand-by heat losses q _{bs} ³⁾	[kWh/d]	2,07	2,36	2,80	3	3,3	4,13	3
No. of sleeves for E-rod		1 - 4	1 - 4	1 - 4	1 - 5	1 - 5	1 - 5	1
Max. operating pressure/test pressure	[bar]	3/4,5	3/4,5	3/4,5	3/4,5	3/4,5	3/4,5	3/4,5
Max. flow rate for heat pump	[m³/h]	1,1	1,7	2,9	4,6	6,0	10,3 ²⁾	2,9

For cascades with heat pump management of OTE 3¹⁾

Standard storage tank		PU 200 DN40 1 1/2" IG	PU 300 DN40 1 1/2" IG	PU 500 DN 40 1 1/2" IG	PU 800 DN 50 2" IG	PU 1000 DN50 2" IG	PU 1500 DN50 2" IG
Max. capacity per HP at standard point	[kW]	5	8	13	21	27	46
Max. capacity of cascades at stand. point	[kW]	23	23	23	47	47	59
Max. total flow rate	[m³/h]	4,0	4,0	4,0	8,0	9,0	9,0
Example: 2 pc. GMLW 25 plus, capacity per HP at standard point (L2/W35) 21,8 kW with nominal flow rate of 4.4 m³/h = cascade capacity of 43,6 kW with total flow rate of 8.8 m³/h → PU 1000 DN 50 1 1/2" IG							

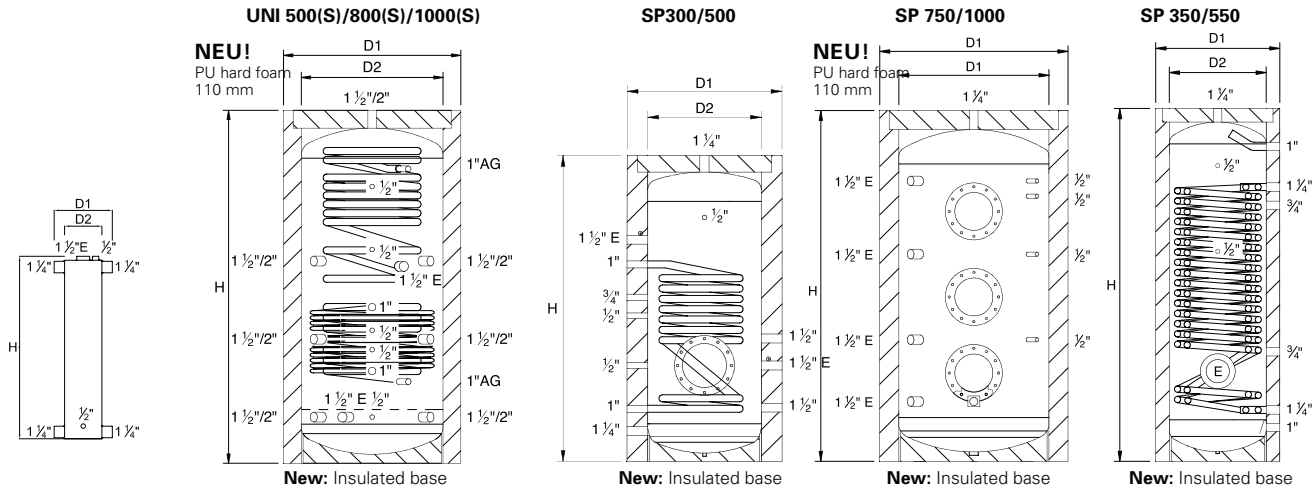
Special tank with flange PN6	New: available as standard	PU 1000 - DN65	PU 1500 - DN65	PU 1500 - DN80	PU 2000 - DN80	PU 2000 - DN100	PU 3000 DN100	PU 3000 DN125
Order number / delivery class	4 Pc. flange	920605 / III	920597 / III	920598 / III	920607 / III	920608 / III	920604 / III	920610 / III
Price		1.786,-	2.874,-	2.909,-	4.181,-	4.275,-	5.869,-	5.927,-
Order number / delivery class	8 Pc. flange	920606 / III	920600 / III	920601 / III	920602 / III	920603 / III	920609 / III	920611 / III
Price		2.088,-	3.175,-	3.245,-	4.518,-	4.703,-	6.298,-	6.414,-
Max. capacity per HP at standard point	[kW]	30	46	46	62	62	92	92
Max. capacity of cascades at stand. point	[kW]	80	80	140	140	200	250	460
Max. total flow rate	[m³/h]	13,0	13,0	27,0	27,0	37,0	49,0	79,0
Example: 3 pc. OLPW 65 plus, capacity per HP at standard point (L2/W35) 65,1 kW with nominal flow rate of 13,0 m³/h = cascade capacity of 195,3 kW with total flow rate of 39,0 m³/h → PU 3000 - DN100								

UNIFRESH®

Fresh hot water heater with or without solar, incl. thermal insulation ErP ready for highest energy efficiency class

HEAT PUMP- HOT WATER STORAGE TANK

incl. thermal insulation ErP ready for highest energy efficiency class



Water distributor	UNI500	UNI800	UNI1000	SP300	SP500	SP750	SP1000	SP350	SP550
990798 / I	920587 / I	920589 / I	920576 / I	920580 / I	920582 / I	920584 / I	920585 / I	920581 / I	920583 / I
240,-	2.005,-	2.931,-	3.350,-	1.173,-	1.529,-	2.407,-	2.586,-	1.714,-	2.115,-
Type Unifresh® with Solar register	UNI500S	UNI800S	UNI1000S	New: Unifresh® up to 1,000 litres factory-fitted with or without Solar register					
Order nr. / del. cl.	920586 / I	920588 / I	920575 / I	Unifresh® Main connection dimensions: 1½" UNI 500 / UNI 500 S / UNI 800 / UNI 800 S 2" UNI 1000 / UNI 1000 S					
Price	2.193,-	3.163,-	3.597,-						

780	1870	1990	2140	1480	1790	1865	2115	1820	2010
189	810	1030	1030	710	810	1030	1030	640	740
159	650	790	790	550	650	790	790	500	600
12	160	190	210	100	140	150	160	130	175
14	558	855	926	305	524	777	900	320	508
9	9	9	9	6	9	9	9	6	6
-	2,3	2,5	3,1	1,5	1,8			4,5 ⁴⁾	5,2 ⁵⁾
-	30 / 5,5	33 / 6,0	33 / 6,0	50 / 9,8					
800	1915	2040	2190	1510	1830	1890	2135	1840	2025
steel, non-coated – without exchanger	steel, non-coated – stainless steel corrugated pipe solar smooth pipe exchanger only at UNI500S/800S/1000S			enamelled steel – with smooth pipe exchanger - 1 flange		steel, enamelled–without exchanger - 3 flange		steel, enamelled–with smooth pipe exchanger - 1 flange ⁶⁾⁷⁾	
PU soft	PU hard 70 mm	PU hard 110 mm	PU hard 110 mm	PU hard 70 mm	PU hard 70 mm	PU hard 110 mm	PU hard 110 mm	PU hard 70 mm	PU hard 70 mm
-	-	-	-	290 x 12-hole	290 x 12-hole	290 x 12-hole	290 x 12-hole	180 x 8-hole	180 x 8-hole
-	-	-	-	200	200	200	200	115	115
-	-	-	-	260	260	260	260	150	150
0,97	2,80	3	3,3	2,36	2,80	3,3	3,6	2,48	2,90
1	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1	1
3/4,5	3/4.5-6/9	3/4.5-6/9	3/4.5-6/9	6/9	6/9	6/9	6/9	6/9	6/9

Sizing of Unifresh®

Type			UNI500	UNI800	UNI1000
			UNI500S	UNI800S	UNI1000S
Hot-water capacity ⁹⁾ , hot-water storage tank only	at 15 l/min	[Litre]	300	500	625
	at 20 l/min	[Litre]	280	450	560
	at 30 l/min	[Litre]	230	370	460
max. HP capacity, hot water only ⁸⁾	[kW]		23	30	36
NL factor at 15 l/min			2,5	3,5	4,4
Hot-water capacity ⁹⁾ Combi buffer tank	at 15 l/min	[Litre]	220	330	410
	at 20 l/min	[Litre]	180	270	340
	at 30 l/min	[Litre]	130	210	260
max. HP capacity for Combi buffer tank	[kW]		11	17	22
NL factor at 15 l/min			1,0	2,5	3,2

Information on hot-water capacity [litres] at 60°C storage tank temperature, 10°C cold-water temperature and 45°C tapping temperature at tapping capacities of 15, 20 or 30 l/min when using a tap with a thermostat function.

1½" E sleeve suitable for E-rod

- E Suitable for installation of E-rod with flange
- 2) Including OSWP 96, OWWP 96, GMLW 60 and OLWP 65 plus
- 3) Stand-by heat losses q_{loss} according to DIN V 4701-10
- 4) Suitable for up to 17 kW at VLT 65°C for max. HW temp. 59 °C at 100% V_{perm}-HP. Capacity at 35°C air temperature must be taken into account when using heat source air!
- 5) Suitable for up to 20 kW at FLT 65°C for max. HW temp. 59 °C at 100% V_{enn}-HP. Capacity at 35°C air temperature must be taken into account when using heat source air!
- 6) Incl. anodesteter
- 7) When sizing the heat exchanger, care must be taken to ensure that the heat pump works with a correspondingly high heat source temperature in summer, thus increasing heat pump capacity. See pages 58-61
- 8) max. heat pump capacity [kW] at standard point (L2/W35; E-1/W35; S0/W35;W10/W35)
- 9) Unifresh® tank to be used exclusively for hot-water heating
- 10) Unifresh® tank to be used as Combi buffer tank in accordance with OCHSNER principles. Hot-water capacity [litres] = hot-water capacity [litres] per loading cycle. It is possible that a larger tank volume may be required for systems utilising cascade management via external control
- 11)

Delivery class I - in-stock
Delivery class III - max. 4-8 weeks, order-based manufacture

Note: The geometry and sizes of connections (sleeves) on our storage tanks are sized for the hydraulics of the system. We provide no warranty for products manufactured by external suppliers.

Recommended buffer volume: 30 l/kW heat-pump capacity
Hydraulic switching suitable only for constant nominal flow rate for heat use and therefore not permitted for single-room regulation and not suitable for cooling. Limiting value W15/ W50 hot-water temperature and at max. 7K differential for heat exchanger in- and outlet.

*in Germany a properly sized buffer tank (30 l/kW normal consumption) is included in the MIP funding.

Prices in €, excl. VAT