

Data sheet

Drinking Water Storage Tanks

made of Stainless Steel 1.4571 / 1.4404 SE, SES, SEK-LK

**General description /
Application**

Stainless steel drinking water storage tanks for storage charging systems ThermoDual®, ThermoClean® -Combi, charging by external heat exchanger.

Technical Data

Material	Stainless steel, MN 1.4571/1.4404
Maximum permissible operating temperature:	95 °C
Maximum permissible operating pressure:	10 bar

Surface Treatment

Tank completely pickled and passivated

Certificate

According internal factory norm and PED – Pressure Equipment Directive (2014/68/EU)

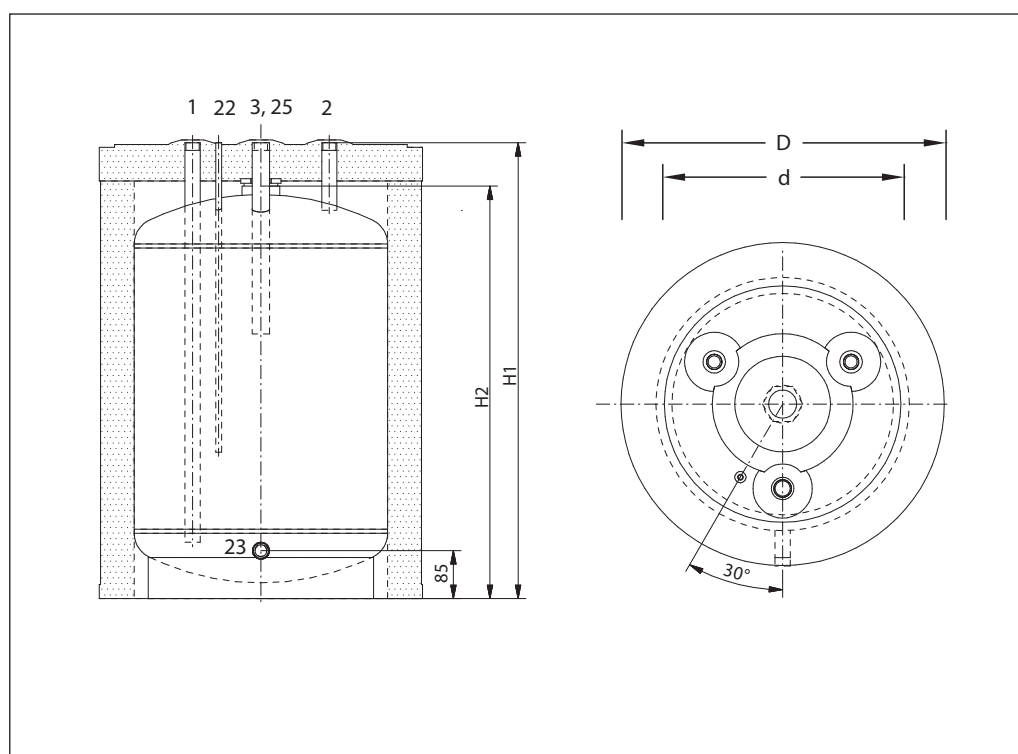
General technical data: Thermal insulation / heat loss data and tilt dimensions

Volume acc. ErP 812/2014 [l]	Tilt dimension [mm]	Limit acc. ErP 814/2014		Data		Type of tank		
		Category B kWh/24h	Category C kWh/24h	Real value kWh/24h	Number of pieces Shell	SE	SES	SEK-LK
105,0	895	1,19	1,66	1,30	2	100	-	-
201,0	1625	1,47	2,06	1,39	1	200	200	-
289,0	1790	1,68	2,36	1,58	1	300	300	-
345,0	1755	1,77	2,48	1,84	2	350	350	350
411,0	1800	1,85	2,06	2,05	2	400	400	-
490,0	1800	2,00	2,80	2,36	2	500	500	500
646,0	1875	2,19	3,07	2,70	2	650	650	-
756,0	2085	2,30	3,22	2,89	2	750	750	750
890,0	1950	2,45	3,44	3,18	2	900	900	-
990,0	2095	2,54	3,57	3,36	2	1000	1000	1000
1215,0	2055	2,75	3,86	3,40	2	1250	-	-
1415,0	2300	2,94	4,13	3,89	2	1500	-	-
1975,0	2635	3,26	4,58	4,31	3	2000	-	-

All the heat loss values are valid for $\Delta T_K = 40K$; determined according EN 12897, e.g. room temperature = 20° and tank temperature = 60°C.

Type SE 100

- 1 Domestic water (cold) R ¾"
- 2 Domestic water (hot) R ¾"
- 3 Circulation (inlet) ISO ¾"
- 22 Pocket for sensor
10 × 1,0 mm
- 23 Drain Rp ½"
- 25 Inspection opening
Rp 2" with plug



Type SE	Volume Liter	H1 mm	H2 mm	D mm	d mm	Connections			Weight app. kg	Code
						1,2 R	3 Rp	23 Rp		
100	100	810	733	590	450	¾"	¾"	½"	36	640U4900

Thermal insulation

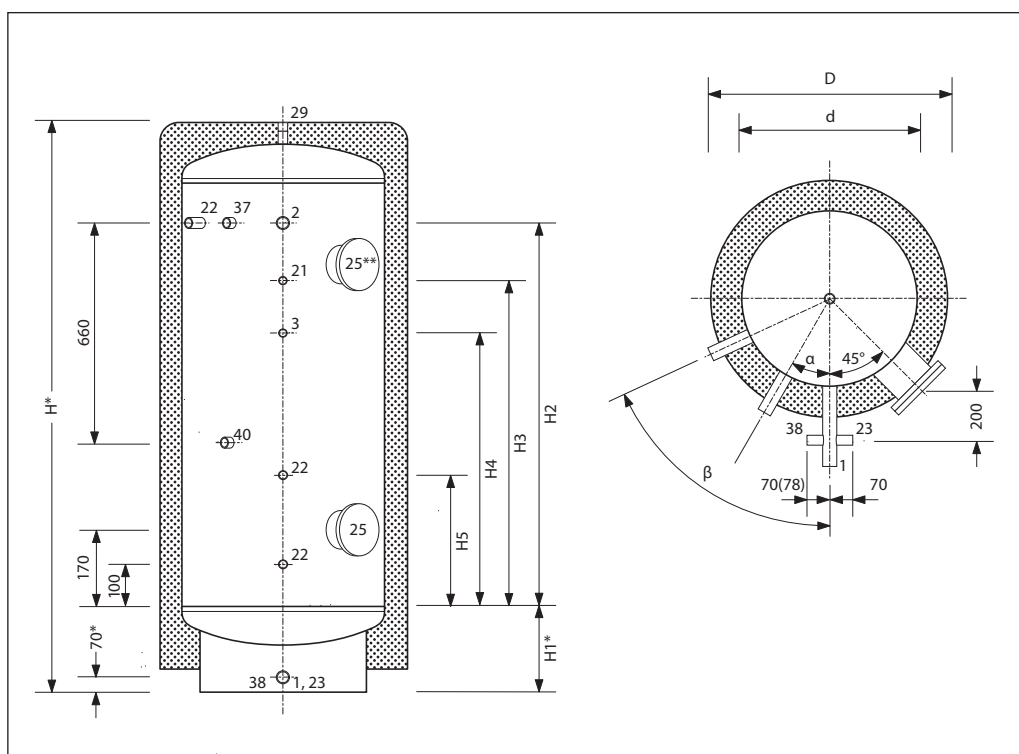
High-quality thermal insulation (CFC-free) made of EPS with laminated fleece for optimum tight on the tank and to avoid convection and chimney effects. Insulation thickness 50/20 = 70mm, thermal conductivity $\lambda = 0,032 / 0,038 \text{ W} / (\text{m} \cdot \text{K})$, with polystyrene cover, color blue RAL 5000. Completely assembled, fire resistance class B2 according to DIN 4102 T1, with hand hole cover and rosettes for all connections. Floor insulation insert made of 50mm fleece. Thermal insulation with hook strip, completely removable. Energy efficiency class „C“ according to ErP Directive 812 + 814/2013 (Eco-design and Label Regulation).

Type SE 200 ... 1000

- 1 Domestic water (cold)
- 2 Domestic water (hot)
- 3 Circulation (inlet)
- 21 Thermometer Rp 1/2"
- 22 Thermostat, STM, STL, sensor Rp 3/4"
- 23 Drain Rp 3/4"
- 25 Inspection 120/180 mm
- 29 Air-vent Rp 3/4"
- 37 Heat exchanger G 1 1/2"
- 38 Charging group G 1 1/4"
- 40 Muff for bracket Rp 1"

* Tolerance: 0 ... +10 mm

** 2'nd inspection hole only for tanks SE 900 & SE 1000



Type SE	Volume Liter	H mm	H1 mm	H2 mm	H3 mm	H4 mm	H5 mm	D mm	d mm	α	β	Connections		Weight app. kg*	Code
												1,2 Rp	3 Rp		
200	200	1595	230	1000	700	600	270	650	450	31,6°	75°	1 1/2"	3/4"	44	640U4901
300	300	1760	240	1150	850	750	435	700	500	30,8°	75°	1 1/2"	3/4"	50	640U4902
350	350	1725	250	1150	840	740	435	750	550	30,1°	75°	1 1/2"	3/4"	57	640U4903
400	400	1745	260	1140	830	730	435	800	600	29,4°	65°	1 1/2"	1"	62	640U4904
500	500	1765	270	1140	820	720	435	850	650	28,8°	65°	1 1/2"	1"	70	640U4905
650	650	1830	300	1160	860	760	435	950	750	27,6°	60°	2"	1"	100	640U4906
750	750	2045	300	1390	1090	990	450	950	750	27,6°	60°	2"	1"	115	640U4907
900	900	1900	300	1220	860	760	435	1050	850	26,6°	60°	2"	1"	120	640U4908
1000	1000	2045	300	1400	1090	990	450	1050	850	26,6°	60°	2"	1"	135	640U4909

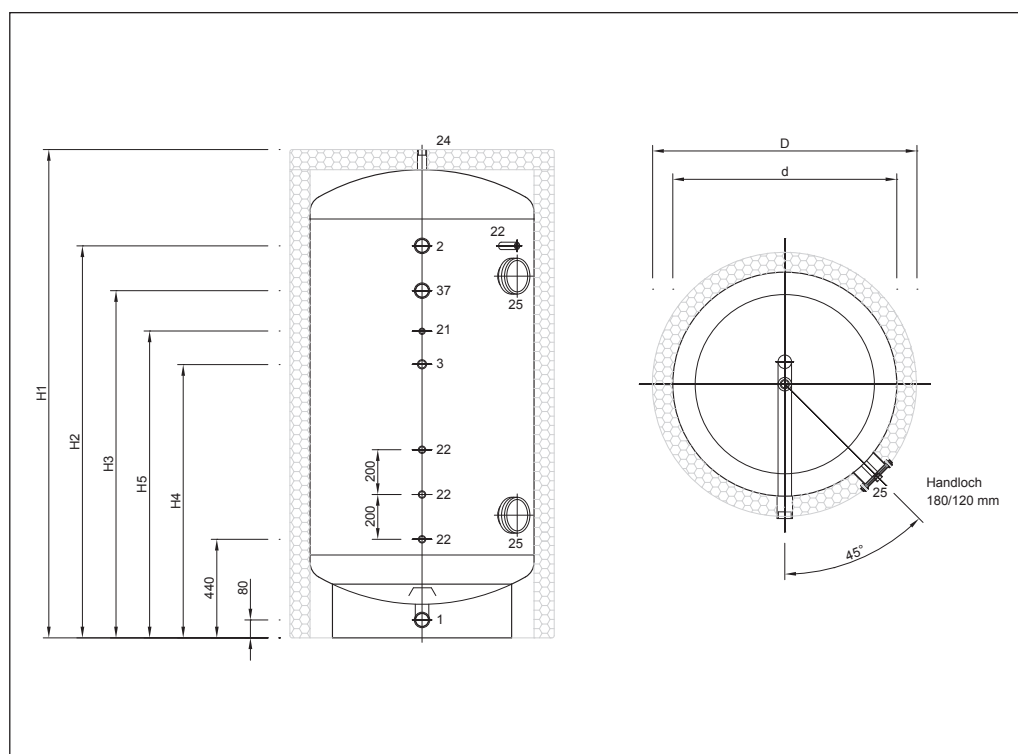
* Weight without thermal insulation

Thermal insulation

High-quality thermal insulation (CFC-free) made of EPS with laminated fleece for optimum tight on the tank and to avoid convection and chimney effects. Insulation thickness 80/20 = 100mm, thermal conductivity $\lambda = 0,032 / 0,038 \text{ W} / (\text{m} \cdot \text{K})$, with polystyrene cover, color blue RAL 5000. Completely assembled, fire resistance class B2 according to DIN 4102 T1, with hand hole cover and rosettes for all connections. Floor insulation insert made of 50mm fleece. Thermal insulation with hook strip, completely removable. Energy efficiency class „C“ according to ErP Directive 812 + 814/2013 (Eco-design and Label Regulation).

Type SE 1250 ... 1500

- 1 Domestic water (cold)
- 2 Domestic water (hot)
- 3 Circulation (inlet)
- 21 Thermometer Rp ½"
- 22 Thermostat, STM, STL, sensor Rp ¾"
- 24 Air-vent Rp 1"
- 25 Inspection 120/180mm
- 37 Heat exchanger



Type SE	Volume Liter	H1 mm	H2 mm	H3 mm	H4 mm	H5 mm	D mm	d mm	Connections			Weight app. kg	Code
									1, 2 Rp	3 Rp	37 Rp		
1250	1250	1995	1480	1280	980	1130	1240	1000	2"	1"	2"	185	640U4911
1500	1500	2245	1750	1550	1220	1370	1240	1000	2"	1"	2"	205	640U4913

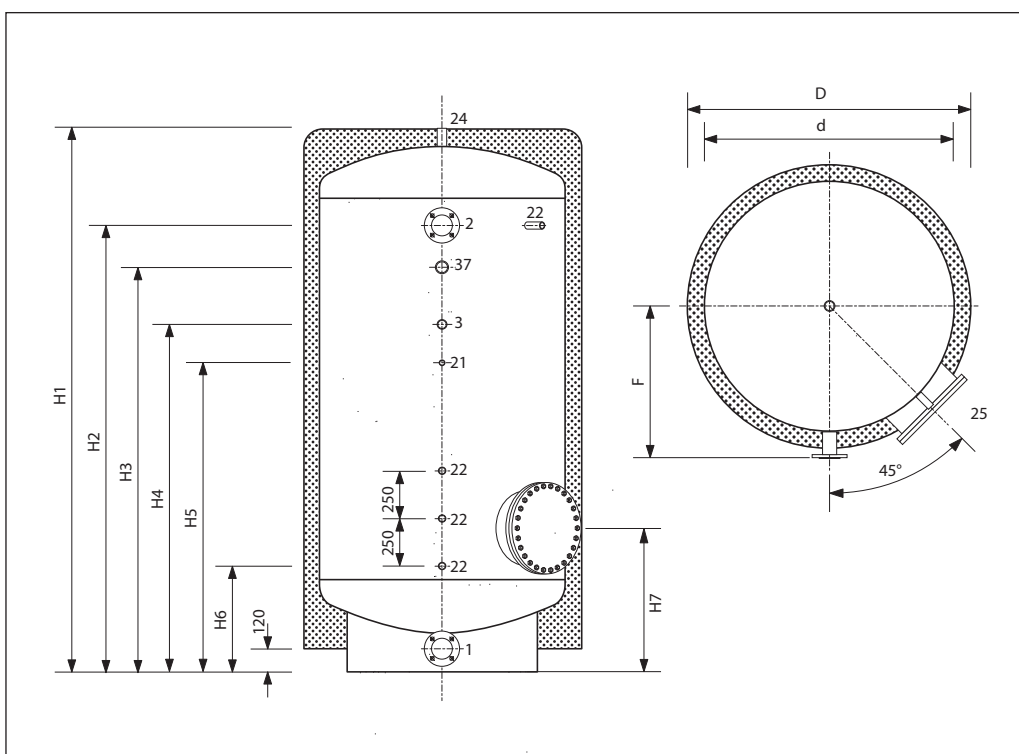
Thermal insulation

High-quality thermal insulation (CFC-free) made of EPS with laminated fleece for optimum tight on the tank and to avoid convection and chimney effects. Insulation thickness 100/20 = 120mm, thermal conductivity $\lambda = 0,032 / 0,038 \text{ W} / (\text{m} \cdot \text{K})$, with polystyrene cover, color blue RAL 5000. Fire resistance class B2 according to DIN 4102 T1, with hand hole cover and rosettes for all connections. Floor insulation insert made of 50mm fleece. Thermal insulation with hook strip, completely removable. Energy efficiency class „C“ according to ErP Directive 812 + 814/2013 (Eco-design and Label Regulation). Thermal insulation will delivered separately packed, easy to assemble.

Type SE	Thermal insulation Code
1250	640U4959
1500	640U4960

Type SE 2000 ... 4000

- 1 Domestic water (cold)
- 2 Domestic water (hot)
- 3 Circulation (inlet)
- 21 Thermometer Rp ½"
- 22 Thermostat, STM, STL, sensor Rp ¾"
- 24 Air-vent Rp 1"
- 25 Inspection 400/480 mm
- 37 Heat exchanger



Type SE	Volume Liter	H1 mm	H2 mm	H3 mm	H4 mm	H5 mm	H6 mm	H7 mm	D mm	d mm	F mm	Connections			Weight app. kg	Code
												1,2	3 Rp	37 Rp		
2000	2000	2600	2060	1840	1640	1440	520	720	1340	1100	730	DN 65	1¼"	2"	240	640U4914
2500	2500	2420	1845	1625	1425	1225	555	755	1540	1300	830	DN 65	1¼"	2"	340	640U4915
3000	3000	2920	2345	2125	1825	1625	555	755	1540	1300	830	DN 65	1¼"	2"	410	640U4916
3500	3500	3170	2595	2375	1975	1725	555	755	1540	1300	830	DN 65	1¼"	2"	445	640U4917
4000	4000	3545	2970	2750	2250	1800	555	755	1540	1300	830	DN 65	1¼"	2"	500	640U4918

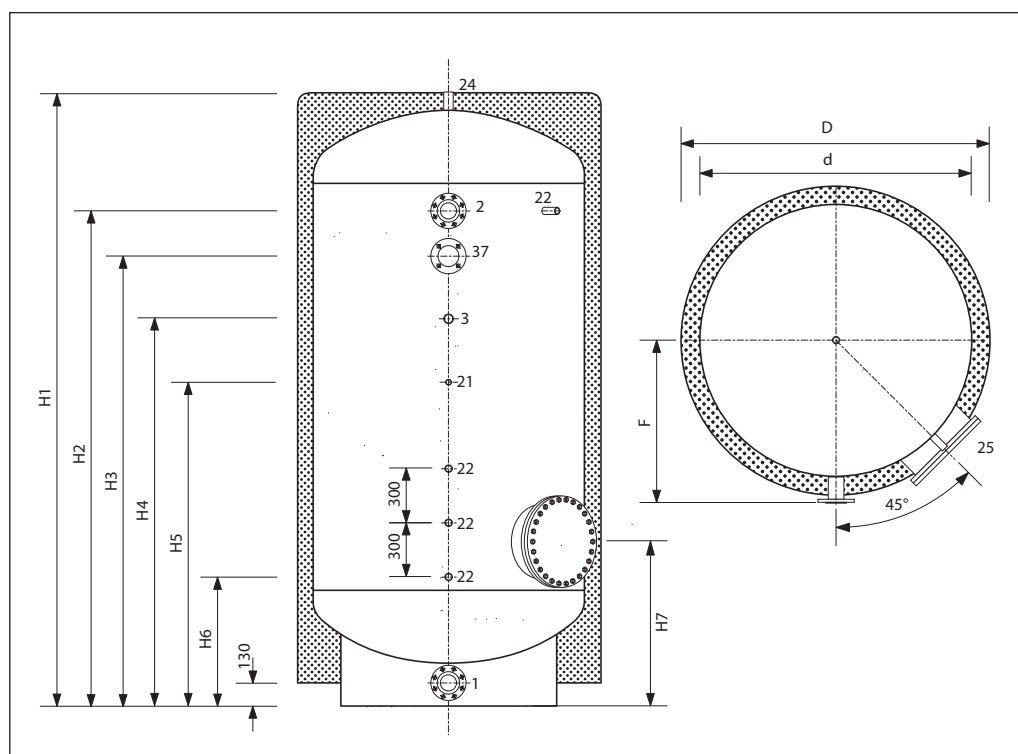
Thermal insulation

High-quality thermal insulation (CFC-free) made of EPS with laminated fleece for optimum tight on the tank and to avoid convection and chimney effects. Insulation thickness 100/20 = 120mm, thermal conductivity $\lambda = 0,032 / 0,038 \text{ W} / (\text{m} \cdot \text{K})$, with polystyrene cover, color blue RAL 5000. Fire resistance class B2 according to DIN 4102 T1, with hand hole cover and rosettes for all connections. Floor insulation insert made of 50mm fleece. Thermal insulation with hook strip, completely removable. Energy efficiency class „C“ (2000 l) according to ErP Directive 812 + 814/2013 (Eco-design and Label Regulation). Bigger volumes are not under ErP Directive. Thermal insulation will delivered separately packed, easy to assemble.

Type SE	Thermal insulation Code
2000	640U4961
2500	640U4962
3000	640U4963
3500	640U4964
4000	640U4965

Type SE 5000 ... 8000

- 1 Domestic water (cold)
- 2 Domestic water (hot)
- 3 Circulation (inlet)
- 21 Thermometer Rp 1/2"
- 22 Thermostat, STM, STL, sensor Rp 3/4"
- 24 Air-vent Rp 1"
- 25 Inspection 400/480 mm
- 37 Heat exchanger



Type SE	Volume Liter	H1	H2	H3	H4	H5	H6	H7	D	d	F	Connections			Weight app. kg	Code
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	1,2	3 Rp	37		
5000	5000	3435	2745	2495	2145	1795	715	915	1760	1500	930	DN 80	1 1/2"	DN 65	790	640U4919
6000	6000	3975	3245	2995	2495	1995	715	920	1760	1500	930	DN 80	1 1/2"	DN 65	940	640U4920
7000	7000	3330	2575	2325	2025	1775	795	995	2060	1800	1080	DN 80	1 1/2"	DN 65	1190	640U4921
8000	8000	3830	3075	2825	2425	1995	795	995	2060	1800	1080	DN 80	1 1/2"	DN 65	1300	640U4922

Thermal insulation

High quality, solid polyester fleece thermal insulation (CFC-free), insulation thickness 130 mm, thermal conductivity $\lambda = 0.038 \text{ W / (m * K)}$, fire resistance class B2 according to DIN 4102 T1, with polystyrene cover, color blue RAL 5000. Completely with hand hole cover and rosettes for all connections. Thermal insulation will delivered separately packed, easy to assemble.

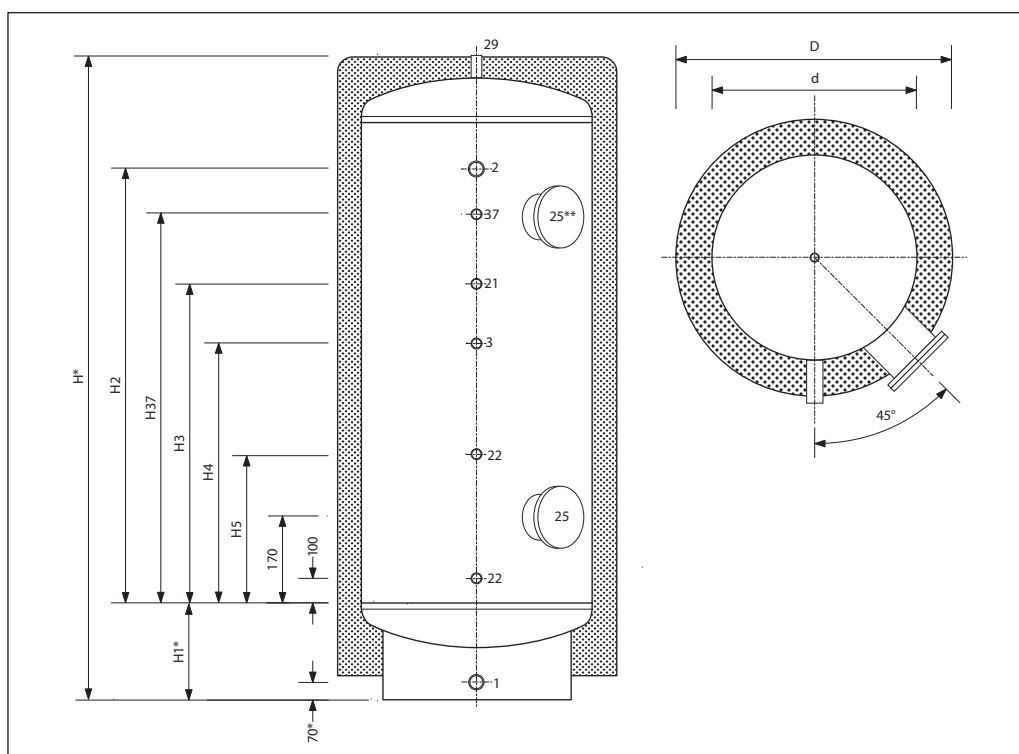
Type SE	Thermal insulation Code
5000	640U4966
6000	640U4967
7000	640U4968
8000	640U4969

Type SES 200 ... 1000

- 1 Domestic water (cold)
- 2 Domestic water (hot)
- 3 Circulation (inlet)
- 21 Thermometer Rp ½"
- 22 Thermostat, STM, STL, sensor Rp ¾"
- 25 Inspection 120/180 mm
- 29 Air-vent Rp ¾"
- 37 Heat exchanger

* Tolerance: 0 ... +10 mm

** 2nd inspection hole only for tanks SES 900 & SES 1000



Type SES	Volume Liter	H mm	H1 mm	H2 mm	H3 mm	H4 mm	H5 mm	H37 mm	D mm	d mm	Connections			Weight app. kg*	Code
											37 G	1,2 Rp	3 Rp		
200	200	1595	230	1000	700	600	270	900	650	450	1½"	1½"	¾"	42	640U4923
300	300	1760	240	1150	850	750	435	1050	700	500	1½"	1½"	¾"	48	640U4924
350	350	1725	250	1150	840	740	435	1040	750	550	1½"	1½"	¾"	54	640U4925
400	400	1745	260	1140	830	730	435	1030	800	600	1½"	1½"	1"	59	640U4926
500	500	1765	270	1140	820	720	435	1020	850	650	1½"	1½"	1"	67	640U4927
650	650	1830	300	1160	860	760	435	1060	950	750	1½"	2"	1"	97	640U4928
750	750	2045	300	1390	1090	990	450	1290	950	750	1½"	2"	1"	112	640U4929
900	900	1900	300	1220	860	760	435	1060	1050	850	1½"	2"	1"	117	640U4930
1000	1000	2045	300	1400	1090	990	450	1290	1050	850	1½"	2"	1"	132	640U4931

* Weight without thermal insulation

Thermal insulation

High-quality thermal insulation (CFC-free) made of EPS with laminated fleece for optimum tight on the tank and to avoid convection and chimney effects. Insulation thickness 80/20 = 100mm, thermal conductivity $\lambda = 0,032 / 0,038 \text{ W} / (\text{m} \cdot \text{K})$, with polystyrene cover, color blue RAL 5000. Completely assembled, fire resistance class B2 according to DIN 4102 T1, with hand hole cover and rosettes for all connections. Floor insulation insert made of 50mm fleece. Thermal insulation with hook strip, completely removable. Energy efficiency class „C“ according to ErP Directive 812 + 814/2013 (Eco-design and Label Regulation).

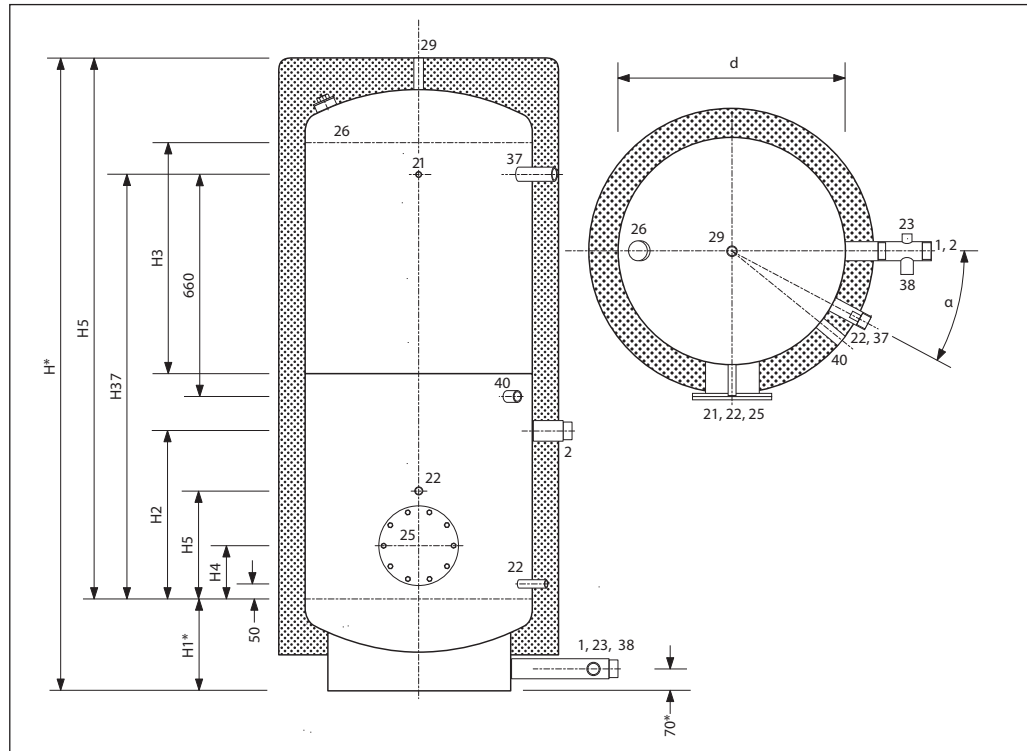
Data sheet

Drinking Water Storage Tanks Stainless Steel

Type SEK-LK
350 ... 1000

- 1 Domestic water (cold)
- 2 Domestic water (hot)
- 21 Thermometer Rp ½"
- 22 Thermostat, STM, STL, sensor Rp ½"
- 23 Drain Rp ¾"
- 25 Inspection 120/180 mm (up to 750 l), 180/260 (1000 l)
- 26 Inspection hole Rp 2"
- 29 Air-vent Rp ¾"
- 37 Heat exchanger G 1½"
- 38 Charging group G 1¼"
- 40 Muff for bracket Rp 1"

* Tolerance: 0 ... +10 mm



Type SEK-LK	Volume Liter	Volume Disinfection Liter	H mm	H1 mm	H2 mm	H3 mm	H4 mm	H5 mm	H37 mm	D mm	d mm	α	Connections 1, 2 G	Weight app. kg*	Code
350-100	350	100	1730	250	483	330	170	350	1150	750	550	30,1 °	1½"	70	640U4939
350-130	350	130				455									640U4940
350-180	350	180				675									640U4941
500-130	500	130	1770	270	463	290	170	350	1140	850	650	28,8 °	1½"	90	640U4942
500-170	500	170				410									640U4943
500-260	500	260				685									640U4944
750-160	750	160	2045	300	553	260	175	355	1390	950	750	27,6 °	2"	145	640U4945
750-210	750	210				370									640U4946
1000-240	1000	240	2045	300	553	300	175	355	1400	1050	850	26,6 °	2"	195	640U4948

* Weight without thermal insulation

Thermal insulation

High-quality thermal insulation (CFC-free) made of EPS with laminated fleece for optimum tight on the tank and to avoid convection and chimney effects. Insulation thickness 80/20 = 100mm, thermal conductivity $\lambda = 0,032 / 0,038 \text{ W} / (\text{m} \cdot \text{K})$, with polystyrene cover, color blue RAL 5000. Completely assembled, fire resistance class B2 according to DIN 4102 T1, with hand hole cover and rosettes for all connections. Floor insulation insert made of 50mm fleece. Thermal insulation with hook strip, completely removable. Energy efficiency class „C“ according to ErP Directive 812 + 814/2013 (Eco-design and Label Regulation).

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