Buffer Tanks

Product information

General

Buffer tanks have several different areas of use.

Buffer tanks can be used with external control of the heating system. The heat pump then charges the buffer tanks with floating or fixed condensing. The external control function controls the heat distribution from buffer tanks to the consumer.

If the flow to the heating system can be throttled with radiator thermostats for example, install a buffer tanks as an intermediate tank. This ensures a secure flow for the heat pump.

Buffer tanks also allows a greater flow to the heating system than across the heat pump.

In some installations, so-called heat spikes occur as a result of movements during temperature changes. To eliminate temporary temperature changes, and there by prevent heat spikes, install a Buffer tanks after the heating installation.

Buffer tanks can also be used to increase the system volume.

Buffer line-up

Very good accumulative properties of these devices are ensured by polystyrene insulation and metal housing

Designed for usage with heat pumps

Thermal pockets for installation of a thermal sensor

200l & 300l models‘ have option to be fitted with back-up immersion electric heater, can only be controlled from external, parent system controller

Buffer line-up

Buffer 25 Slim

Buffer 50 Slim

Buffer 50

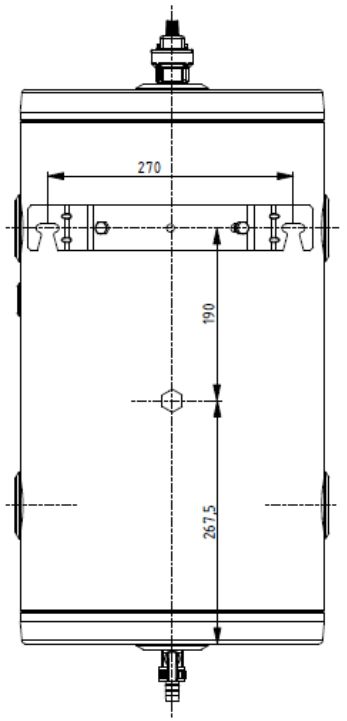
Buffer 100

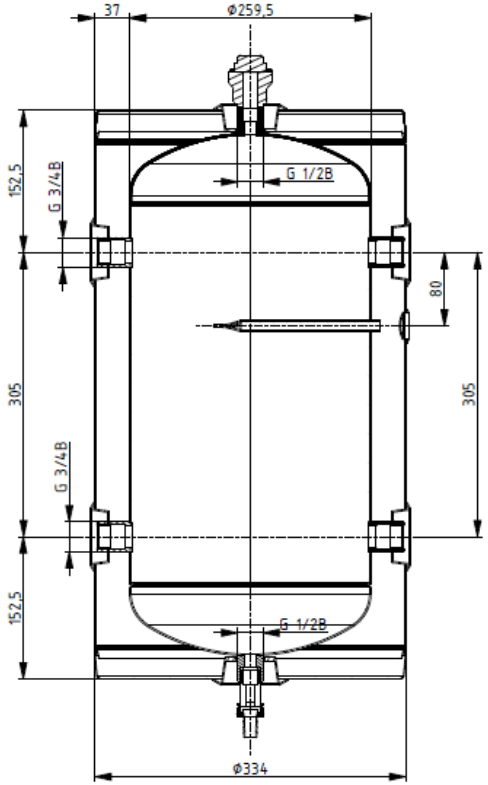
Buffer 200

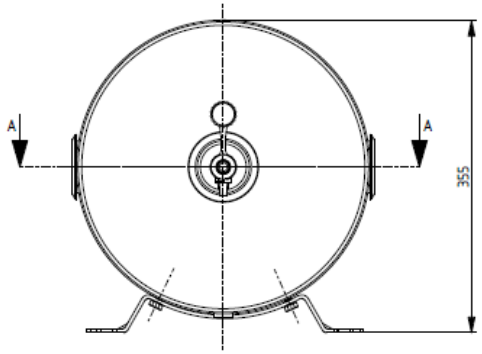
Buffer 300

Technical details - Buffer 25 Slim

Volume	25 l
Height	610 mm
Diameter	Φ334 mm
Powder-coated steel outer cladding in white	
Working pressure	0.6 (6)/1 (10) MPa (bar)
Energy efficiency class	C
Standing loss S	
Heating water supply	G3/4
Heating water outlet	G3/4
Net weight	...
Maximum water temperature	95 ° C
Steel internal boiler	untreated
Average insulation thickness	37 mm
Bleed cup with valve G ½	
Ball filling valve G ½	
Wall mounted	

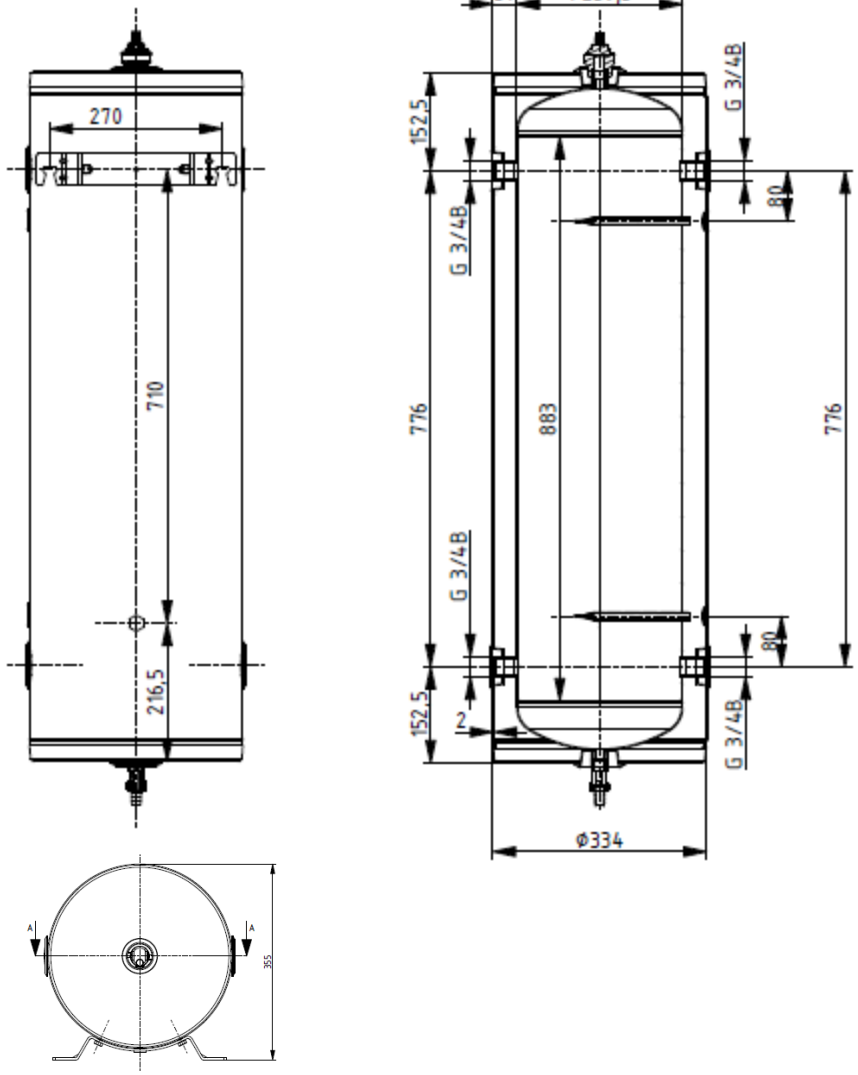






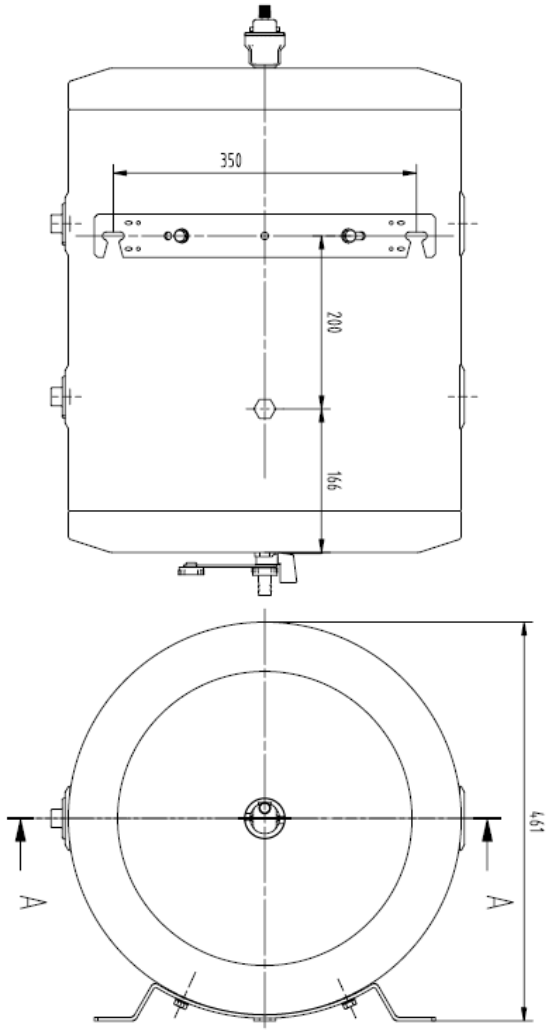
Technical details - Buffer 50 Slim

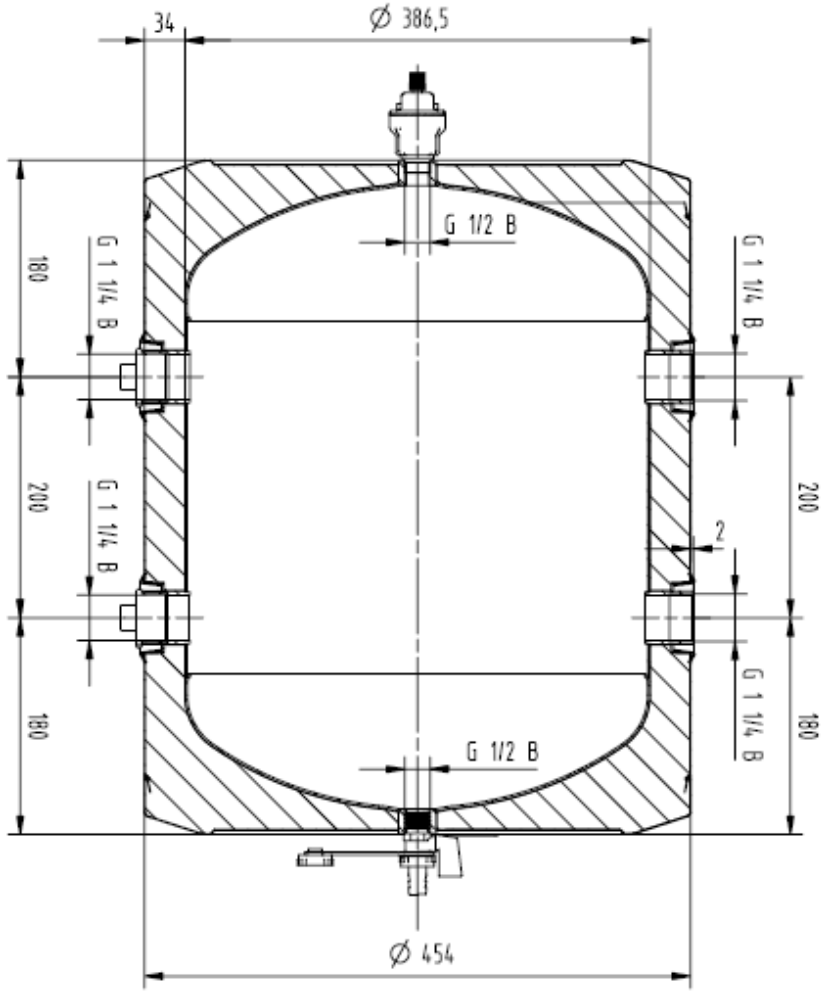
Volume	51 l
Height	1080mm
Diameter	Φ334 mm
Powder-coated steel outer cladding in white	
Working pressure	0.6 (6)/1 (10) MPa (bar)
Energy efficiency class	C
Standing loss S	
Heating water supply	G 3/4
Heating water outlet	G 3/4
Net weight	
Maximum water temperature	95 ° C
Steel internal boiler	untreated
Average insulation thickness	37 mm
Bleed cup with valve G ½	
Ball filling valve G ½	
Wall mounted	



Technical details - Buffer 50

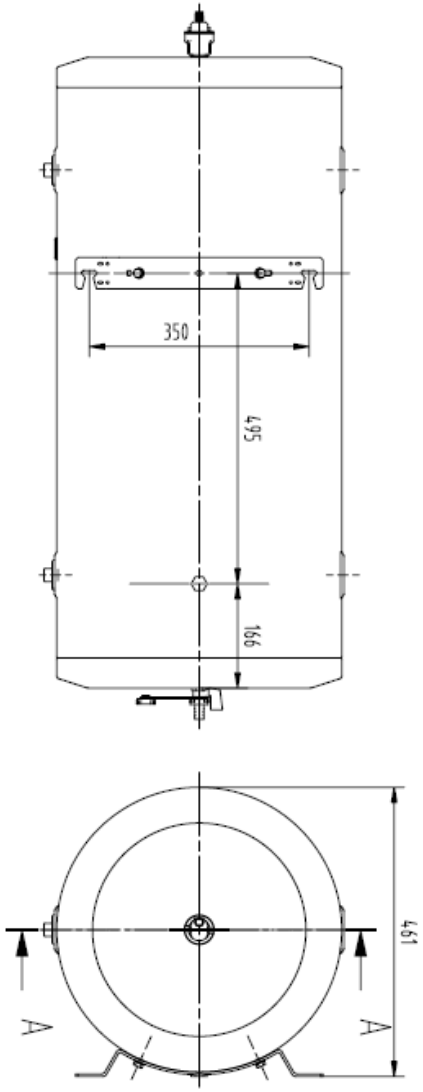
Volume	51 l
Height	570 mm
Diameter	Φ454 mm
Powder-coated steel outer cladding in white	
Working pressure	0.6 (6)/1 (10) MPa (bar)
Energy efficiency class	C
Standing loss S	
Heating water supply	G1 1/4
Heating water outlet	G1 1/4
Net weight	16.5kg
Maximum water temperature	95 ° C
Steel internal boiler	untreated
Average insulation thickness	33 mm
Bleed cup with valve G ½	
Ball filling valve G ½	
Plug G1 1/4-ZN	
Wall mounted	

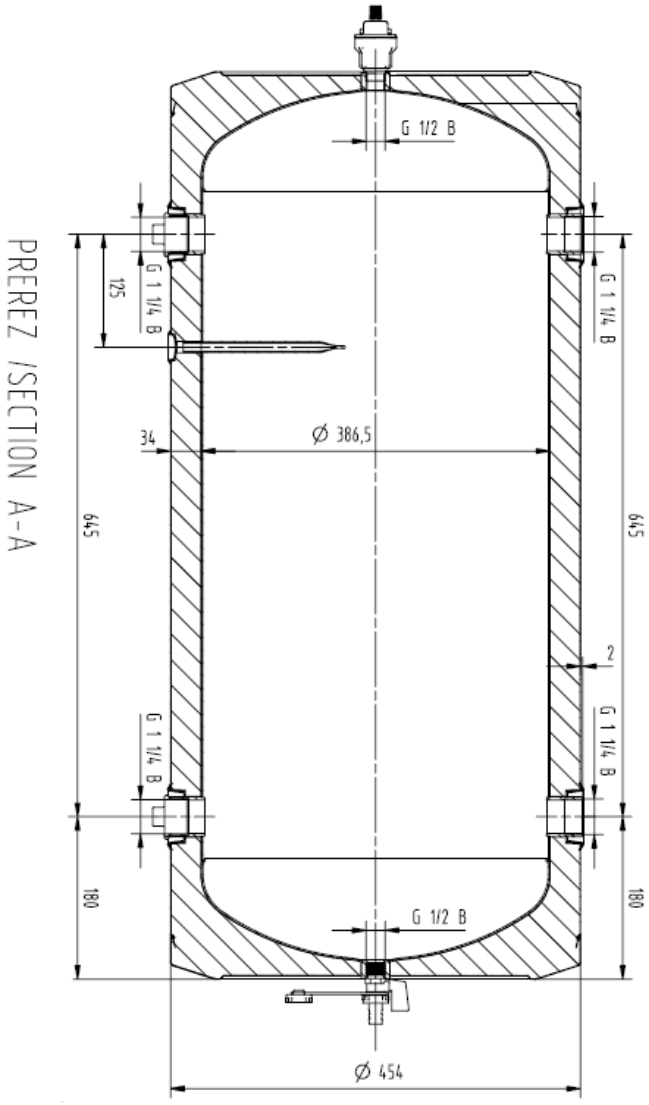




Technical details - Buffer 100

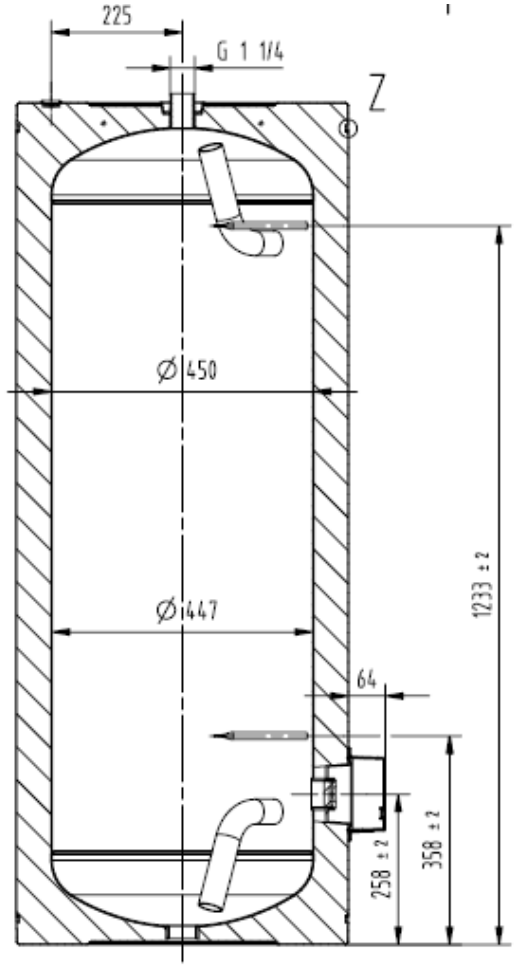
Volume	102 l
Height	1010 mm
Diameter	Φ454 mm
Powder-coated steel outer cladding in white	
Sensor channel for variable sensor positioning	
Working pressure	0.6 (6)/1 (10) MPa (bar)
Energy efficiency class	C
Standing loss S	67 W
Heating water supply	G1 1/4
Heating water outlet	G1 1/4
Net weight	29 kg
Maximum water temperature	95 ° C
Steel internal boiler	untreated
Average insulation thickness	33 mm
Bleed cup with valve G ½	
Ball filling valve G ½	
Plug G1 1/4-ZN	
Wall mounted	





Technical details - Buffer 200

Volume	200 l
Height	1444 mm
Diameter	Φ570 mm
Powder-coated steel outer cladding in white	
Sensor channel for variable sensor positioning	
Working pressure	0.6 (6)MPa (bar)
Test Pressure	1.2 (12)MPa (bar)
Energy efficiency class	C
Standing loss S	
Heating water supply	
Heating water outlet	
Net weight	
Maximum water temperature	95 ° C
Steel internal boiler	untreated
Average insulation thickness	60 mm
Floor standing	



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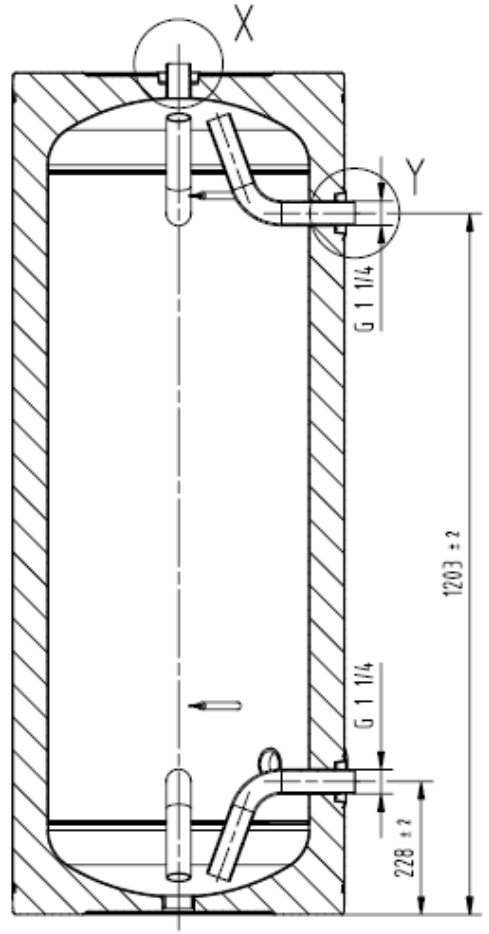

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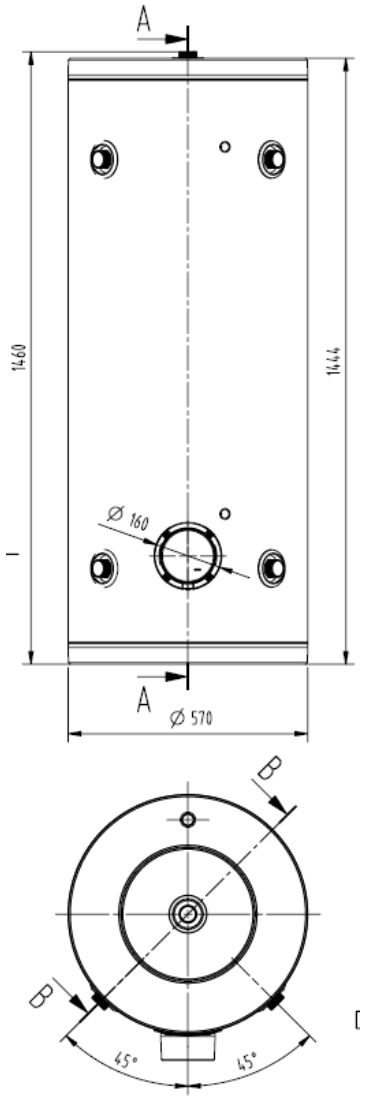
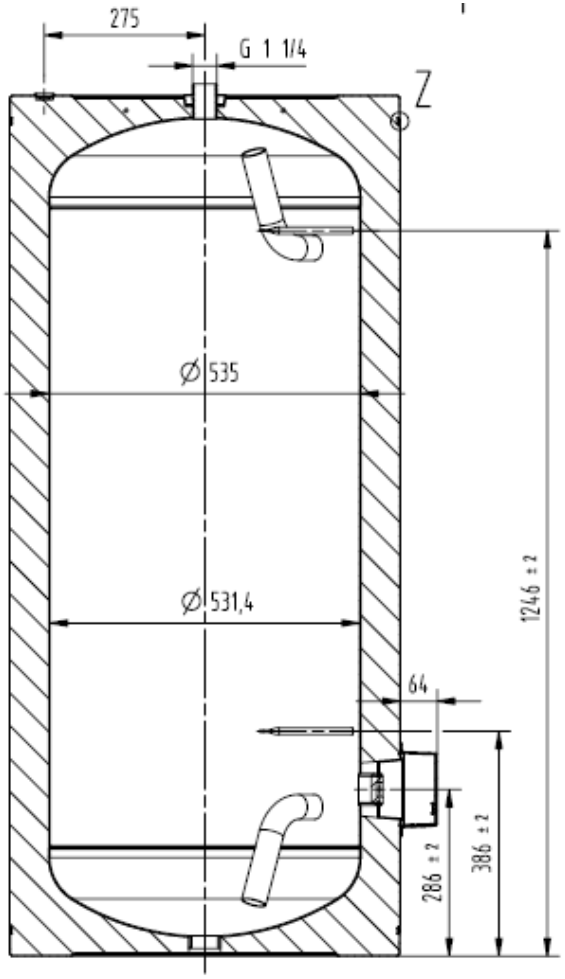


Technical details - Buffer 300

Volume	300 l
Height	1478 mm
Diameter	Φ670 mm
Powder-coated steel outer cladding in white	
Sensor channel for variable sensor positioning	
Working pressure	0.6 (6)MPa (bar)
Test Pressure	1.2 (12)MPa (bar)
Energy efficiency class	C
Standing loss S	
Heating water supply	
Heating water outlet	
Net weight	
Maximum water temperature	95 ° C
Steel internal boiler	untreated
Average insulation thickness	66 mm
Floor standing	



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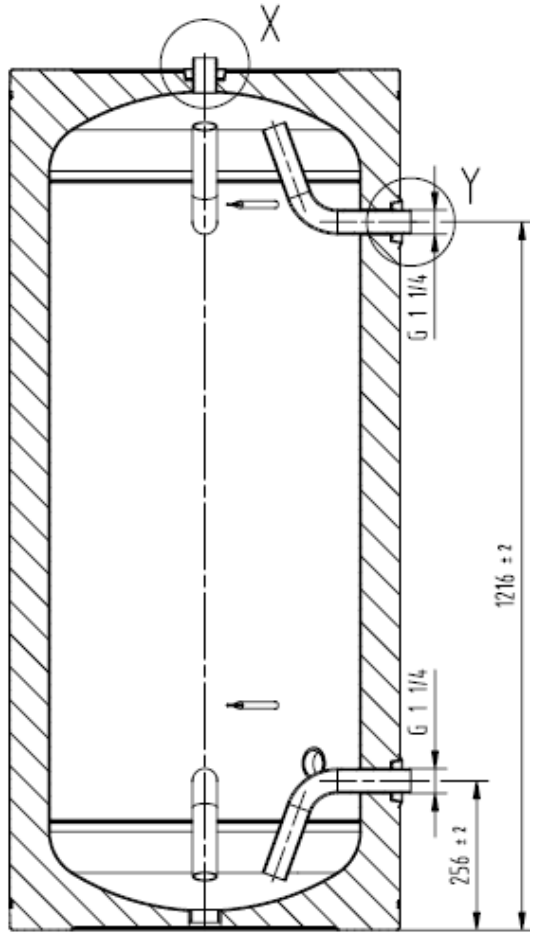

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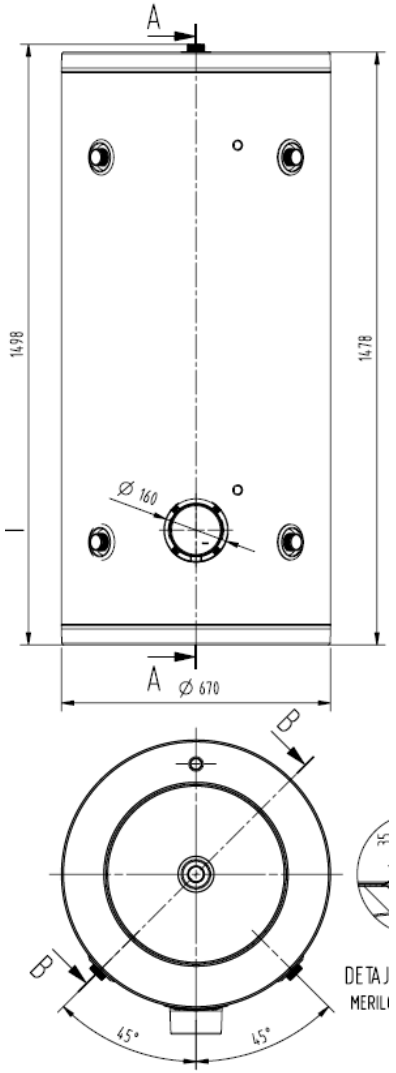

Technical details – Buffer line

MODEL:		Buffer 25S	Buffer 50S	Buffer 50	Buffer 100	Buffer 200	Buffer 300
Energy efficiency class (1)		C	C	C	C	**C**	**C**
Standing loss S (2)	W	35	48	46	68	77	88
Storage volume	l	25	50	51	102	195	288
DIMENSIONS OF CONNECTIONS							
Height	mm	613	1084	570	1010	1460	1500
Diameter	mm	Φ334	Φ334	Φ454	Φ454	Φ570	Φ670
Heating water inlet		G ¾	G 3/4	G1 1/4	G1 1/4	G1 1/4	G1 1/4
Heating water outlet		G ¾	G 3/4	G1 1/4	G1 1/4	G1 1/4	G1 1/4
Net/gross weight/with water	kg	15/17/40	28,9/30,9/79,9	16,5/18,5/66,50	32/34/134	55/67/250	71/84/359
TECHNICAL CHARACTERISTICS							
Working pressure	MPa (bar)	0,6 (6) / 1 (10)	0,6 (6) / 1 (10)	0,6 (6) / 1 (10)	0,6 (6) / 1 (10)	0,6 (6)	0,6 (6)
MAX. Water temperature	°C	95	95	95	95	95	95
Min. water temperature (cooling)	°C	5	5	5	5	5	5
Non-enameled steel tank		+	+	+	+	+	+
Average thickness of insulation	mm	37	37	33	33	59	67
ACCESSORIES							
Air vent pot with valve G ½		+	+	+	+	-	-
Discharge ball valve		+	+	+	+	-	-
Plug 2 pcs G1 1/4		-	-	+	+	-	-
TRANSPORTATION DATA							
Packaging dimensions	mm	375x415x745	375x415x 1215	480x490x595	480x490x1100	760x680x1670	760x760x1710

(1) EU Regulation 812/2013 ; EN 50440

(2) Tested according to EN 12897:2006 or EN 60379:2005

Buffer product line-up

Line-up:

Code	Model	Type	Availability
700080	**Buffer 25S**	ZV25S	Available
700081	**Buffer 50S**	ZV50S	Available
737182	**Buffer 50**	ZV50	Available
737138	**Buffer 100**	ZV100	Available
738073	**Buffer 200**	ZV200	Available
738074	**Buffer 300**	ZV300	Available

Thank You

Andy Miklav