

# Data Sheet

## Flash Tank / Blow-down Vessel

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Flash tank / blow-down vessel for flashing of boiler water. Also as mixing cooler for additional cooling of the waste water. Design as upright cylindrical vessel with dished heads, made of steel, standing on feet.

Connections for boiler water inlet, vapours outlet, waste water outlet, draining, cooling water inlet (in case of mixing cooler). Length of sockets 150 mm, supposed for insulation 100 mm thick.

Accessories: Shut-off valve for draining. For mixing cooler additionally thermometer, thermostatic valve with temperature probe, strainer and shut-off valve.

### Flash tank, operating overpressure max. 0,5 bar, operating temperature max. 110 °C

diameter	300 mm	400 mm	500 mm	600 mm	700 mm	800 mm	900 mm	1000 mm	1200 mm	1400 mm	1600 mm
cylindrical shell height	1000 mm	1000 mm	1000 mm	1000 mm	1500 mm	1500 mm	1500 mm	2000 mm	2000 mm	2000 mm	2000 mm
total height	1478 mm	1502 mm	1527 mm	1546 mm	2066 mm	2090 mm	2109 mm	2629 mm	2668 mm	2707 mm	2750 mm
wall thickness shell	4 mm	4 mm	4 mm	4 mm	4 mm	4 mm	4 mm	5 mm	5 mm	5 mm	5 mm
wall thickness heads	4 mm	4 mm	4 mm	4 mm	4 mm	4 mm	4 mm	5 mm	5 mm	5 mm	5 mm
total volume	75 l	140 l	227 l	335 l	655 l	876 l	1128 l	1795 l	2648 l	3693 l	4952 l
insulation surface	2,1 m <sup>2</sup>	2,6 m <sup>2</sup>	3,2 m <sup>2</sup>	3,8 m <sup>2</sup>	5,8 m <sup>2</sup>	6,7 m <sup>2</sup>	7,6 m <sup>2</sup>	10,4 m <sup>2</sup>	12,7 m <sup>2</sup>	15,1 m <sup>2</sup>	17,7 m <sup>2</sup>
empty weight	50 kg	70 kg	80 kg	110 kg	160 kg	190 kg	220 kg	360 kg	450 kg	550 kg	660 kg
operating weight	88 kg	140 kg	193 kg	278 kg	488 kg	628 kg	784 kg	1257 kg	1774 kg	2396 kg	3136 kg

### Capacity data for operation at atmospheric pressure

<b>vapours t=100 °C</b>	<b>65 kg/h</b>	<b>120 kg/h</b>	<b>195 kg/h</b>	<b>288 kg/h</b>	<b>564 kg/h</b>	<b>754 kg/h</b>	<b>970 kg/h</b>	<b>1544 kg/h</b>	<b>2278 kg/h</b>	<b>3177 kg/h</b>	<b>4261 kg/h</b>
heat capacity vapours	48 kW	89 kW	145 kW	214 kW	419 kW	560 kW	721 kW	1147 kW	1693 kW	2361 kW	3166 kW
<b>boiler water t=150 °C</b>	<b>684 kg/h</b>	<b>1272 kg/h</b>	<b>2065 kg/h</b>	<b>3051 kg/h</b>	<b>5964 kg/h</b>	<b>7975 kg/h</b>	<b>10267 kg/h</b>	<b>16335 kg/h</b>	<b>24100 kg/h</b>	<b>33613 kg/h</b>	<b>45076 kg/h</b>
cooling water t=12 °C	518 kg/h	962 kg/h	1562 kg/h	2308 kg/h	4511 kg/h	6032 kg/h	7766 kg/h	12355 kg/h	18229 kg/h	25424 kg/h	34095 kg/h
waste water t=60 °C	1137 kg/h	2114 kg/h	3432 kg/h	5071 kg/h	9912 kg/h	13254 kg/h	17062 kg/h	27146 kg/h	40051 kg/h	55860 kg/h	74910 kg/h
<b>boiler water t=200 °C</b>	<b>337 kg/h</b>	<b>626 kg/h</b>	<b>1016 kg/h</b>	<b>1502 kg/h</b>	<b>2935 kg/h</b>	<b>3925 kg/h</b>	<b>5052 kg/h</b>	<b>8038 kg/h</b>	<b>11859 kg/h</b>	<b>16541 kg/h</b>	<b>22182 kg/h</b>
cooling water t=12 °C	227 kg/h	423 kg/h	686 kg/h	1013 kg/h	1981 kg/h	2649 kg/h	3410 kg/h	5425 kg/h	8004 kg/h	11163 kg/h	14970 kg/h
waste water t=60 °C	499 kg/h	928 kg/h	1507 kg/h	2227 kg/h	4352 kg/h	5820 kg/h	7492 kg/h	11919 kg/h	17585 kg/h	24527 kg/h	32891 kg/h
<b>boiler water t=250 °C</b>	<b>278 kg/h</b>	<b>517 kg/h</b>	<b>840 kg/h</b>	<b>1240 kg/h</b>	<b>2425 kg/h</b>	<b>3242 kg/h</b>	<b>4174 kg/h</b>	<b>6640 kg/h</b>	<b>9797 kg/h</b>	<b>13664 kg/h</b>	<b>18324 kg/h</b>
cooling water t=12 °C	178 kg/h	332 kg/h	538 kg/h	795 kg/h	1554 kg/h	2079 kg/h	2676 kg/h	4257 kg/h	6281 kg/h	8760 kg/h	11748 kg/h
waste water t=60 °C	392 kg/h	729 kg/h	1183 kg/h	1747 kg/h	3415 kg/h	4567 kg/h	5879 kg/h	9354 kg/h	13800 kg/h	19247 kg/h	25811 kg/h