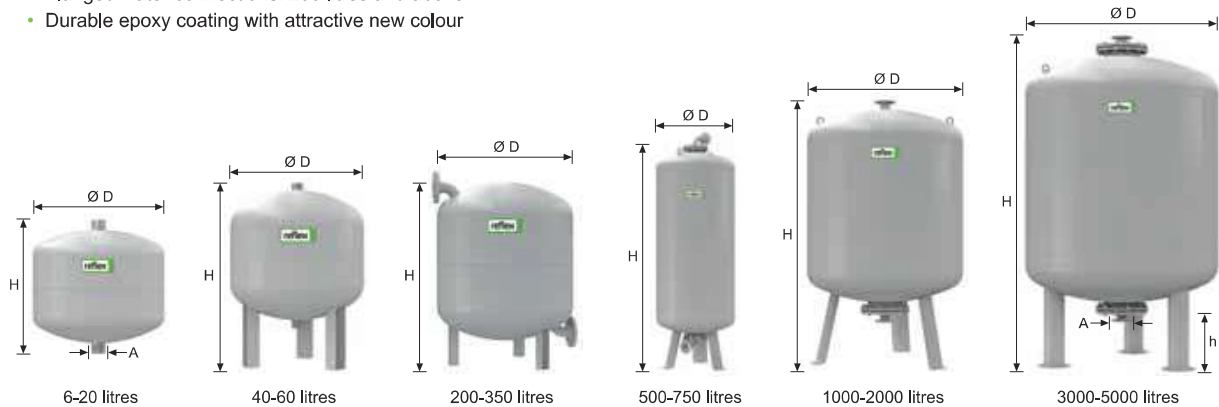


Expansion Vessels For Heating & Chilled Water

Reflex V Intermediate Tank

- Necessary for installations subject to norm EN 13831 with return temperatures $> 70^{\circ}\text{C}$ or cooling systems at $\leq 0^{\circ}\text{C}$
- To avoid faster aging of diaphragm/bladder when subjected to higher temperatures (heating) and to prevent condensation water from freezing (cooling)
- Meets or exceeds EC norms for pressure vessels 97/23/EC
- Flanged water connections: 200 litres and above
- Durable epoxy coating with attractive new colour



CE

6 bar	Type 6 bar / 120°C	Article No Grey	Material Group	PU	Weight kg	Ø D mm	H mm	h mm	A
	V 500	8852800	24	-	160.0	750	1632	210	DN 40/PN 6
	V 750	8851800	24	-	205.0	750	2323	210	DN 40/PN 6
	V 1000	8851905	24	-	310.0	1000	2020	305	DN 65/PN 6
	V 1500	8852305	24	-	445.0	1200	2020	305	DN 65/PN 6
	V 2000	8852405	24	-	545.0	1200	2478	305	DN 65/PN 6
	V 3000	8852505	24	-	775.0	1500	2556	340	DN 65/PN 6
	V 4000	8853405	24	-	1060.0	1500	3131	340	DN 65/PN 6
	V 5000	8854805	24	-	1095.0	1500	3666	340	DN 65/PN 6

10 bar	Type 10 bar / 120°C	Article No Grey	Material Group	PU	Weight kg	Ø D mm	H mm	h mm	A
	V 6	8403100	24	96	2.0	206	244	-	R 3/4
	V 12	8403200	24	72	3.0	280	287	-	R 3/4
	V 20	8402000	24	42	4.0	280	360	-	R 3/4
	V 40	8403400	24	18	7.8	409	562	113	R 1
	V 60	8402600	24	12	23.0	409	732	172	R 1
	V 200	8701800	24	-	43.0	634	901	142	DN 40/PN 16
	V300	8701900	24	-	48.0	634	1201	142	DN 40/PN 16
	V 350	8702400	24	-	51.0	640	1341	210	DN 40/PN 16
	V 1000	8400205	24	-	560.0	1000	2055	286	DN 65/PN 16
	V 1500	8400305	24	-	780.0	1200	2045	284	DN 65/PN 16
	V 2000	8400405	24	-	940.0	1200	2055	284	DN 65/PN 16
	V 3000	8400505	24	-	1405.0	1500	2598	313	DN 65/PN 16
	V 4000	8400605	24	-	1930.0	1500	3178	313	DN 65/PN 16
	V 5000	8400705	24	-	2015.0	1500	3173	313	DN 65/PN 16

↑ V_n Nominal Volume [litres]

Options V Intermediate Tank

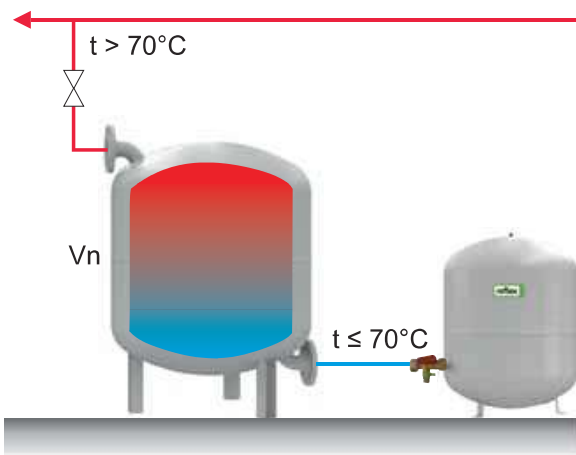
- Operation pressure > 10 bar
- Nominal volume > 5000 litres
- Operation temperature $> 120^{\circ}\text{C}$
- German TÜV factory test certification
- Individual approval carried out by the TÜV [Notified body] in accordance with the Pressure Equipment Directive 97/23/EC

V Intermediate Tank Applications

V Intermediate tank protect the diaphragms of expansion vessels from impermissible temperature loads. According to DIN 4807 T3 and EN 13831, the continuous temperature on the diaphragms must not exceed 70°C. In a cooling water systems, temperatures $\leq 0^\circ\text{C}$ should be avoided.

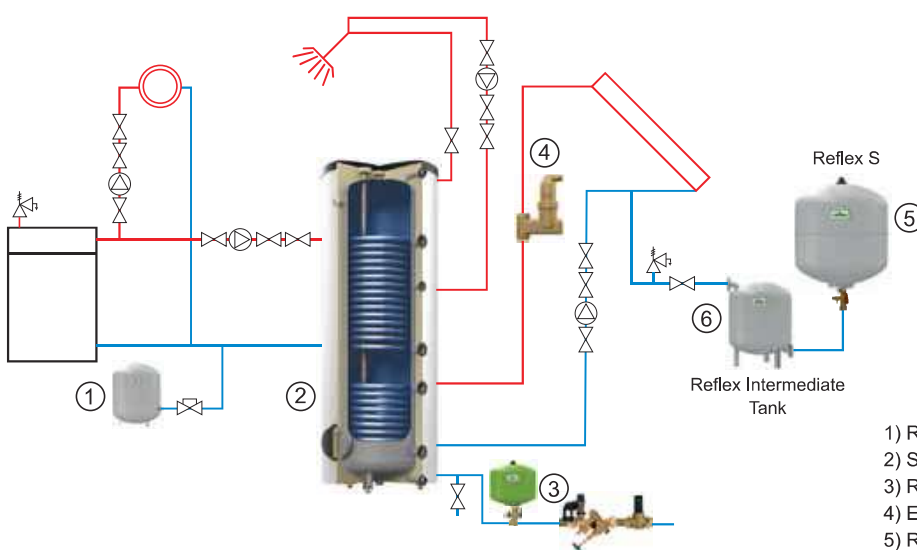
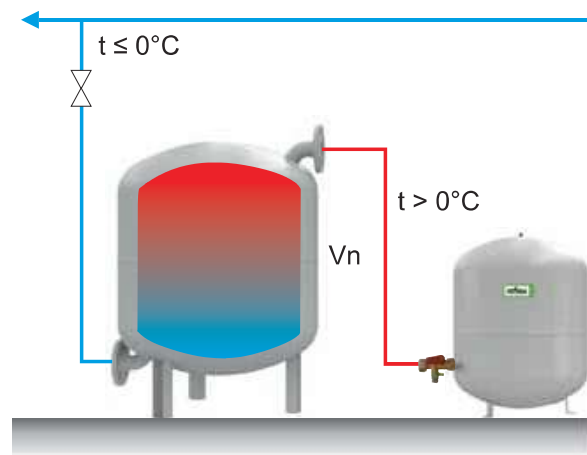
In heating & solar systems

As a rule, heating & solar systems are operated at return temperatures of $\leq 70^\circ\text{C}$. The installation of intermediate tank is not necessary. In the case of older systems and industrial plants, return temperatures $> 70^\circ\text{C}$ are sometimes unavoidable.



In cooling circuits

If temperature is 0°C , we recommend to an intermediate tank will be installed before the cooling vessel. To size the intermediate tank volume (V_n), consult Reflex calculation program.



Applications

- In a solar system application the expansion vessel installed to the flow pipe line therefore, The pump pressure needs to be considered while setting the precharge gas P_0 .
- For the life time of the membrane we recommend to install a Reflex V intermediate tank before the expansion vessel if the return flow is $> 70^\circ\text{C}$

- 1) Reflex N, expansion vessel for boiler circuit
- 2) Storatherm Aqua Solar hot water heater
- 3) Reflex DD, Hygienic expansion vessel
- 4) Exvoid, Air separator for solar circuit
- 5) Reflex S, Expansion vessel for solar system
- 6) Reflex V, Intermediate tank