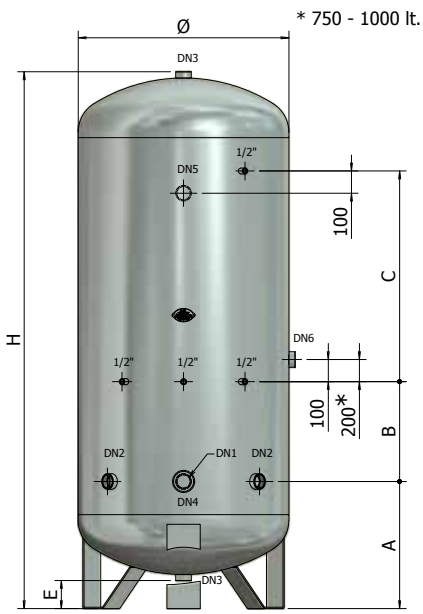
ACM - ACZ

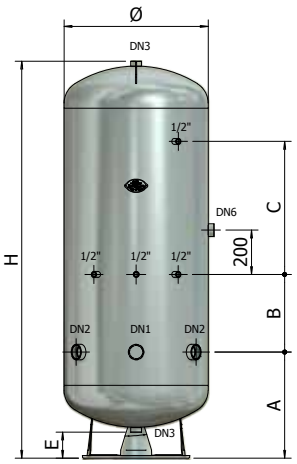
GALVANIZED TANKS FOR COLD WATER, CE CERTIFIED

(100-10.000 LITRES)

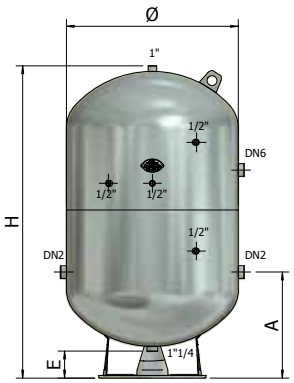
ACZ 750 - 10.000



ACZ 200 - 500



ACM 100 - 500



CE CE certified product

Galvanized

For drinking water

For pressurisation systems

ACM: two sleeve mode
ACZ: traditional model

Pressurised tanks with an air cushion for storage and pressurisation of cold water for residential/industrial use. They are used in all plants where the water mains cannot meet the capacity and pressure demands.
The Galvanized autoclaves of ACM/ACZ series must be supplied with:

- WATER through electric pumps with features that meet the system requirements.
- AIR through the compressor or compressed air network, in order to maintain the air cushion constant.

The air cushion will keep pressure constant in the system and protect the pumps from continuous starts due to intake from the mains water supply.

Safety valve and gauges supplied on request.

WARRANTY: 2 YEARS

Characteristics:
• Min./max. working temperature: -10° - +50°C

Reference standard:
• Declaration of conformity to essential safety requirements according to Directive 97/23/EC (PED).

Installation:
• For hydronic systems

HOW TO SIZE AN AIR CUSHION AUTOCLAVE
Calculation of the total volume of the autoclave:

$$V = 30 \times \frac{Q_{max} \times 60}{A} \times \frac{P_1 + 100}{P_1 - P2}$$

where:
V = volume of the autoclave [litres]
Qmax = maximum simultaneous capacity to supply to the utilities [l/s]
A = maximum number of start-ups of the pump per hour
Ps = pump stop pressure [kPa]
Pa = pump start pressure [kPa]
Calculation of the volume of the air cushion on pump start:

$$Va = \frac{V}{1,25} = 0,80 \times V$$

where:
Va = volume of the air cushion [litres]
V = volume of the autoclave [litres]

MODEL	CODE		P max			A	B	C	E							NOTES
		LITRES	bar	mm	mm	mm	mm	mm	mm	DN1	DN2	DN3	DN4	DN5	DN6	
ACM 100/10	A402L38	100	10	500	785	315	-	-	90	-	1"	-	-	-	1"1/4	
ACM 200/10	A402L47	200	10	600	1025	360	-	-	110	-	1"1/4	-	-	-	1"1/4	
ACM 300/10	A402L51	300	10	650	1210	375	-	-	110	-	1"1/4	-	-	-	1"1/4	
ACM 500/10	A402L55	500	10	775	1410	480	-	-	120	-	1"1/2	-	-	-	1"1/2	
ACZ 200/ 8	A432J47	200	8	500	1365	385	255	430	110	1"1/2	1"1/2	1"1/4	-	-	1"1/2	
ACZ 300/ 8	A432J51	300	8	550	1505	405	285	495	100	2"	2"	1"1/4	-	-	1"1/2	
ACZ 500/ 8	A432J55	500	8	650	1785	470	350	600	105	2"	2"	1"1/4	-	-	1"1/2	
ACZ 750/ 8	A432J59	750	8	800	1920	565	400	600	155	2"	2"	1"1/2	-	-	1"1/2	
ACZ 1000/ 8	A432J62	1000	8	800	2370	565	550	700	130	2"	2"	1"1/2	-	-	1"1/2	
ACZ 1500/ 8	A432J67	1500	8	950	2425	565	450	950	105	2"	2"	2"	-	-	1"1/2	
ACZ 2000/8	A432J70	2000	8	1100	2505	605	500	900	105	2"	2"	2"	-	-	1"1/2	
ACZ 2500/8	A432J72	2500	8	1250	2575	635	530	870	95	3"	3"	2"	-	-	1"1/2	
ACZ 3000/ 8	A432J74	3000	8	1250	2875	635	800	900	95	3"	3"	2"	2"	-	1"1/2	
ACZ 4000/ 8	A432J77	4000	8	1400	3005	725	800	900	145	3"	3"	2"	2"	-	1"1/2	
ACZ 5000/ 8	A432J80	5000	8	1550	3035	715	800	900	95	3"	3"	2"	2"	-	1"1/2	
ACZ 7500/ 8	A432J87	7500	8	1650	4185	895	1200	1450	205	3"	3"	2"	2"	2"	1"1/2	
ACZ 10000/ 8	A432J92	10000	8	1650	5185	895	1200	1450	205	3"	3"	2"	2"	2"	1"1/2	
ACZ 200/12	A432N47	200	12	500	1365	385	255	430	110	1"1/2	1"1/2	1"1/4	-	-	1"1/2	
ACZ 300/12	A432N51	300	12	550	1505	405	285	495	100	2"	2"	1"1/4	-	-	1"1/2	
ACZ 500/12	A432N55	500	12	650	1785	470	350	600	105	2"	2"	1"1/4	-	-	1"1/2	
ACZ 750/12	A432N59	750	12	800	1920	565	400	600	155	2"	2"	1"1/2	-	-	1"1/2	
ACZ 1000/12	A432N62	1000	12	800	2370	565	550	700	130	2"	2"	1"1/2	-	-	1"1/2	
ACZ 1500/12	A432N67	1500	12	950	2425	565	450	950	105	2"	2"	2"	-	-	1"1/2	
ACZ 2000/12	A432N70	2000	12	1100	2505	605	500	900	105	2"	2"	2"	-	-	1"1/2	
ACZ 2500/12	A432N72	2500	12	1250	2575	635	530	870	95	3"	3"	2"	-	-	1"1/2	
ACZ 3000/12	A432N74	3000	12	1250	2875	635	800	900	95	3"	3"	2"	3"	-	1"1/2	
ACZ 4000/12	A432N77	4000	12	1400	3005	725	800	900	145	3"	3"	2"	2"	-	1"1/2	
ACZ 5000/12	A432N80	5000	12	1550	3035	715	800	900	95	3"	3"	2"	2"	-	1"1/2	
ACZ 7500/12	A432N87	7500	12	1650	4185	895	1200	1450	205	3"	3"	2"	2"	2"	1"1/2	
ACZ 10000/12	A432N92	10000	12	1650	5185	895	1200	1450	205	3"	3"	2"	2"	2"	1"1/2	
ACZ 200/16	A432R47	200	16	500	1365	385	255	430	110	1"1/2	1"1/2	1"1/4	-	-	1"1/2	
ACZ 300/16	A432R51	300	16	550	1505	405	285	495	100	3"	3"	1"1/4	-	-	1"1/2	
ACZ 500/16	A432R55	500	16	650	1785	470	350	600	105	2"	2"	1"1/4	-	-	1"1/2	
ACZ 750/16	A432R59	750	16	750	2060	555	445	705	150	2"	2"	1"1/2	-	-	1"1/2	
ACZ 1000/16	A432R62	1000	16	800	2370	565	550	700	130	2"	2"	1"1/2	-	-	1"1/2	
ACZ 1500/16	A432R67	1500	16	950	2425	565	450	950	105	2"	2"	2"	-	-	1"1/2	
ACZ 2000/16	A432R70	2000	16	1100	2505	605	500	900	105	2"	2"	2"	-	-	1"1/2	

Table of the pressure switch calibrations for some building heights

Building height Max (m)	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42
Minimum pressure P_1 (bar)	2,0	2,2	2,5	2,7	3,0	3,2	3,4	3,7	4,0	4,2	4,4	4,6	4,9	5,1	5,3	5,6	5,8	6,0
Maximum pressure P_2(bar)	3,0	3,2	3,5	3,7	4,0	4,2	4,4	4,7	5,0	5,2	5,4	5,6	5,9	6,1	6,3	6,6	6,8	7,0

These calibrations enable circa 1 atmosphere of minimum pressure on use in the highest intake point.