



SM

Expansion Tanks





EBITT was born from “an idea” and turned into “an ideal”

EBITT is a specialized organization with deep expertise in pump and fluid technologies, capable of accurately interpreting both Turkish and global market demands and translating them into the right solutions.

Founded to be the ideal intersection of supply and demand in fluid technologies, EBITT goes beyond developing and marketing products. It represents a holistic business model built to meet expectations at the highest level.

More than a company, EBITT is a perspective, a system, and a spirit. Its foundation is human capital and accumulated expertise, transferred sustainably like a relay race rather than treated as a traditional capital asset.

For EBITT, innovation is not limited to technological advancement. It is a creative, value-driven approach that prioritizes responsibility, customer expectations, business efficiency, and uncompromising standards for health and safety. Every innovation emerges from this integrated understanding.

Quality, for EBITT, is a non-negotiable standard in all areas involving water and fluids—throughout life. Together with its suppliers, customers, and team members who share this philosophy, EBITT builds long-term, sustainable win-win relationships.

With this mindset, EBITT offers a wide range of products and systems, from basic solutions to process-specific equipment, serving residential, industrial, agricultural, irrigation, pool, treatment, and specialized applications. Beyond standard products, EBITT also delivers tailor-made solutions that maximize added value.

EBITT believes the ideal solution is not always the most expensive one, but the most rational—optimizing needs in the most efficient way.

Positioning itself as a trusted solution provider, EBITT stands out with its values, flexibility, and dynamic structure, ready to respond to evolving demands.

SM

EXPANSION TANKS



In Pressure Boosting Systems

The accumulator vessel with replaceable bladder is a device that, when fitted into a pressurised water system will provide system water at a pre-set, sustained pressure.

Its most common application is to supply systems in which the main supply pressure is too low and a pump is fitted to boost the pressure to an acceptable level. As system demands take place the accumulator vessel will sustain system pressure by feeding additional water into the system at the required pressure. This process will limit the number of times the pump needs to start (pump hunting) in order that system pressure remains at the optimum level.

The process is achieved by the addition of a pre-charged gas (usually air or nitrogen) cushion at higher than atmospheric pressure within the vessel shell. This pre-charged cushion is stored between the water bladder and the inner surface of the tank. Any water pressure rise (pumping) causes the cushion to be additionally compressed. As system demands arise, the gas cushion forces the water from the bladder into the system thus maintaining optimum system pressure.

As the retained pressure finally exhausts and system pressure falls, a pressure switch will turn the pump on, re-pressurising the system and the accumulator ready for further use. This way the accumulator will prevent the need for the pump to start every time there is a demand on the water system and will flatten the system pressure curve at the optimum pressure.

In Closed Heating And Cooling Circuits

Expansion tanks are devices designed to absorb the volume change of water or some other liquids, thus allowing the correct operation of a heating plant during all its operative phases.

Expansion tanks are composed by a tank in sheet steel and a bladder in synthetic material which separates the heating circuit from a chamber previously charged with air.

Features Of Accumulator Vessels

Accumulators with replaceable bladder are manufactured from the highest quality UNI standard steel plate and welded using certified materials and procedures. The version come in capacities ranging from 8 to 5000 litres. All the models have been designed to hold potable (drinking) water and feature specific technical options to prevent the liquid from coming in contact with the inner surface of the tank.

Expansion tanks are equipped with bladders in special rubber against heat and ageing which are resistant up to 110 °C; they are previously charged at a pressure of 4 bars for easy adaptation to the static height of the water column.

Once the construction has been completed, all the models are subjected to a hydraulic test with a pressure of 1.5 times higher than the designed one.

The SM series replaceable bladder accumulators provide a response to the problems of installation in large capacity systems that up until today required either the use of standard accumulators without bladder or the installation of a series of small-sized tanks.

Installing SM series tanks considerably cuts down both installation and maintenance costs.

The SM series come in models with a 8 to 5000 litres capacity thanks to a truly exclusive bladder design.

Supplied in 10 bars and 16 bars versions. Additionally, tailor-made configurations and horizontal versions are available upon request.

Characteristics

- Sturdy construction in prime quality, long life steel. Complete separation between water and air;
- No contact between water and the inner surface of the tank; Non toxic replaceable bladder for alimentary use.
- Working temperatures: -10° + + 110 °C.
- In compliance with essential safety requirements of directive 97/23/EC.
- CE marking.

Tank Type	Model Name	Operating Pressure (bar)	Height (mm)	Diameter (mm)	Connection	Packing Size (mm)	
Vertical	SM-V 8/10	10	320	Ø220	1"	23x23x32	Carton Box
Vertical	SM-V 8/16	16	320	Ø220	1"	23x23x32	Carton Box
Vertical	SM-V 8/25	25	325	Ø220	1"	23x23x33	Carton Box
Vertical	SM-V 12/10	10	450	Ø220	1"	23x23x46	Carton Box
Vertical	SM-V 12/16	16	450	Ø220	1"	23x23x46	Carton Box
Vertical	SM-V 19/10	10	410	Ø260	1"	27x27x43	Carton Box
Vertical	SM-V 19/16	16	410	Ø260	1"	27x27x43	Carton Box
Oval	SM-O 24/10	10	325	Ø360	1"	36x36x33	Carton Box
Vertical	SM-V 24/10	10	470	Ø280	1"	28x28x47	Carton Box
Vertical	SM-V 24/16	16	470	Ø280	1"	28x28x47	Carton Box
Vertical	SM-V 24/25	25	470	Ø260	1"	26x26x47	Carton Box
Vertical	SM-V 35/10	10	470	Ø380	1"	38x38x47	Carton Box

Tank Type	Model Name	Height (mm)	Diameter (mm)	Connection	Packing Size (mm)	
Horizontal	SMH 24/10	470	280	1"	29x47x32	Carton Box
Horizontal	SMH 50/10	620	380	1"	38x62x43	Carton Box
Horizontal	SMH 60/10	670	380	1"	38x67x43	Carton Box
Horizontal	SMH 80/10	720	430	1"	43x72x47	Carton Box
Horizontal	SMH 100/10	800	460	1"	46x80x54	Carton Box

Tank Type	Model Name	Height (mm)	Diameter (mm)	Connection	Packing Size (mm)	
Vertical	SM 50/10	750	380	1"	38x38x75	Carton Box
Vertical	SM 60/10	810	380	1"	38x38x82	Carton Box
Vertical	SM 80/10	960	430	1"	43x43x96	Carton Box
Vertical	SM 100/10	990	460	1"	46x46x99	Carton Box
Vertical	SM 200/10	1120	590	1 1/4"	55x55	Pallet
Vertical	SM 300/10	1230	640	1 1/4"	59x59	Pallet
Vertical	SM 500/10	1550	750	1 1/4"	69x69	Pallet
Vertical	SM 750/10	1950	750	2"	69x69	Pallet
Vertical	SM 1000/10	2180	800	2"	76x76	Pallet
Vertical	SM 1500/10	2380	960	2"	90x90	Pallet
Vertical	SM 2000/10	2520	1100	2"	100x100	Pallet
Vertical	SM 3000/10	2800	1200	2 1/2"	110x110	Pallet
Vertical	SM 4000/10	3100	1450	3"	100x200	Pallet
Vertical	SM 5000/10	3720	1450	3"	100x200	Pallet

Tank Type	Model Name	Height (mm)	Diameter (mm)	Connection	Packing Size (mm)	
Vertical	SM 50/16	750	380	1"	38x38x75	Carton Box
Vertical	SM 100/16	990	460	1"	46x46x99	Carton Box
Vertical	SM 200/16	1120	590	1 1/4"	55x55	Pallet
Vertical	SM 300/16	1230	640	1 1/4"	59x59	Pallet
Vertical	SM 500/16	1550	750	1 1/4"	69x69	Pallet
Vertical	SM 750/16	1850	800	2"	69x69	Pallet
Vertical	SM 1000/16	2180	800	2"	76x76	Pallet
Vertical	SM 1500/16	2380	960	2"	90x90	Pallet
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Vertical	SM 4000/16	3100	1450	3"	100x200	Pallet
Vertical	SM 5000/16	3720	1450	3"	100x200	Pallet

Tank Type	Model Name	Height (mm)	Diameter (mm)	Connection	Packing Size (mm)	
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Vertical	SM 200/25	1120	600	1 1/4"	55x55	Pallet
Vertical	SM 300/25	1230	640	1 1/4"	59x59	Pallet
Vertical	SM 500/25	1550	750	1 1/4"	69x69	Pallet
Vertical	SM 750/25	1850	800	2"	69x69	Pallet
Vertical	SM 1000/25	2180	800	2"	76x76	Pallet
Vertical	SM 1500/25	2380	960	2"	90x90	Pallet

Rubber Material	Height (mm)	Usable For Models	With hole for tie beam
EPDM	248	SM 24	
EPDM	315	SM 35/50	
EPDM	315	SM 60	
EPDM	700	SM 80/100	x
EPDM	750	SM 150	x
EPDM	800	SM 200	x
EPDM	1000	SM 300	x
EPDM	1400	SM 500	x
EPDM	1600	SM 750	x
EPDM	2000	SM 1000	x
EPDM	2000	SM 1500	x
EPDM	2000	SM 2000	x
BUTYL	2515	SM 3000	x
BUTYL	2680	SM 4000	x
BUTYL	3440	SM 5000	x

Counterflange Diameter	Connection	Finish
140	1"	Galvanized
140	1"	AISI304



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