



Product Description

An expansion tank or expansion vessel is a small tank used to protect closed (not open to atmospheric pressure) water heating systems and domestic hot water systems from excessive pressure. The tank is partially filled with air, the expansion tank cushions the system from water hammer shocks and absorbs excess water pressure caused by thermal expansion. In other words open Expansion tanks are used as safety accessories in the heating systems where, due to legal reason it is forbidden to install closed expansion tanks. An expansion tank is composed of a cover unit where all the including over flow, supply & circulating water Nozzles are installed. Open expansion Tanks must be installed 2 to 3 meters above the consumer in the highest level. The tanks must have a volume equal to or greater than the expansion volume of the system's total water content, the value of which should be declared.

PACKMAN Open expansion Tank Properties

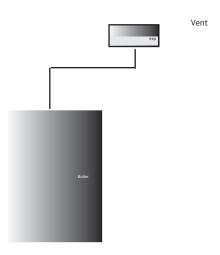
PACKMAN's Open Expansion Tanks are made of SA 36 (St 37.2 in accordance with DIN standard).

Manufacturing Standards

ASME Sec VIII, Div. 1 is observed in the construction of open expansion tanks.

Product Capacity Calculation & Selection:

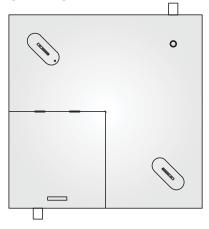
In order to select the capacity of open expansion tank, the expansion volume of the system should be calculated. The volume of the open expansion tank should be about twice the volume change of the system. There are some references for estimation of the system's water content.

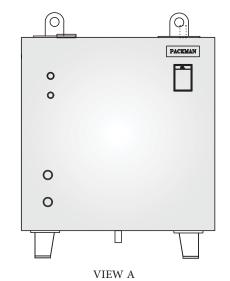






Open Exp Tank-Cubic

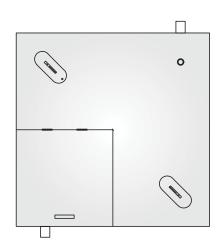




TOP	VIEW	
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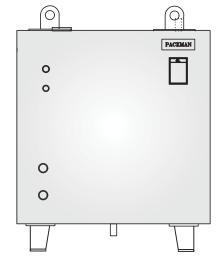
Model	Unit	POET- 100	POET- 200	POET- 300	POET- 500	POET- 700	POET- 800	POET- 1000
Technical Data		100	200	300	300	100	000	1000
Design Standard	-	ASME SEC.VIIII.DIV.1						
Vessel Type	-		Vertical-Cubic					
Volume Capacity	liter	100	100 200 300 500 700				800	1000
Connectoins Size								
Circulation Water	in	3/4	3/4	1	1 1/4	11/4	11/4	11/2
Expansion	in	3/4	3/4	1	11/4	11/4	11/4	11/2
Permanent Filler	in	3/4	3/4	3/4	1	1	1	1
Quick Filler	in	1	1	1	1 1/4	11/4	11/4	11/4
OverFlow	in	11/4	11/4	11/4	11/2	11/2	11/2	11/2
Vent	in	3/4	3/4	3/4	1	1	1	11/4
Drain	in	3/4	3/4	3/4	1	1	1	1
Man Hole	in	500*250	550*250	550*275	720*360	400*900	450*900	550*500
Material								
Shell	-	Carbon Steel						
Vessel Dimensions								
Vessel Height	mm	600	800	1000	1000	1000	1000	1000
Vessel Length	mm	400	500	550	720	900	900	1000
Vessel Width	mm	400	500	550	720	800	900	1000





Vessel Width

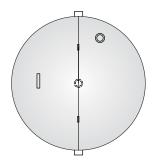
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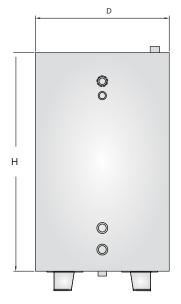


TOP VIEW				VIEW A				
Model	Unit	POET- 1200	POET- 1500	POET- 2000	POET- 2500	POET- 3000	POET- 4000	POET- 5000
Technical Data								
Design Standard	-			ASN	ME SEC.VIIII.D	IV.1		
Vessel Type	-			١	/ertical-Cubi	С		
Volume Capacity	liter	1200	1500	2000	2500	3000	4000	5000
Connectoins Size								
Circulation Water	in	1 1/2	11/2	2	2	2	2	21/2
Expansion	in	1 1/2	11/2	2	2	2	2	21/2
Permanent Filler	in	1	1	11/4	11/4	11/4	11/4	11/2
Quick Filler	in	11/4	11/4	11/2	11/2	11/2	11/2	2
OverFlow	in	11/2	11/2	2	2	2	2	21/2
Vent	in	11/4	11/4	11/2	1 1/2	11/2	11/2	2
Drain	in	1	1	1	1	11/4	11/4	11/2
Man Hole	in	500*500	500*500	500*500	500*500	500*500	500*500	500*500
Material								
Shell	-	Carbon Steel						
Vessel Dimensions								
Vessel Height	mm	1000	1000	1000	1000	1000	1000	1250
Vessel Length	mm	1200	1500	2000	2000	2000	2000	2000



Open Exp Tank-Cylindrical





TOP VIEW

TOP VIEW

Model	Unit	POET-300	POET-500	POET-1000	POET-2000			
Technical Data								
Design Standard	-	ASME SEC. VIII. DIV.1	ASME SEC. VIII. DIV.2	ASME SEC. VIII. DIV.3	ASME SEC. VIII. DIV.4			
Vessel Type	-	Vertical-Cylindrical						
Volume Capacity	liter	300	300 500		2000			
Connectoins Size								
Circulation Water	in	1	1 1/4	1 1/2	2			
Expansion	in	1	1 1/4	1 1/2	2			
Permanent Filler	in	3/4	1	1	1			
Quick Filler	in	1	1 1/4	1 1/4	11/2			
OverFlow	in	11/4	1 1/2	11/2	2			
Vent	in	3/4	1	1 1/4	11/2			
Drain	in	3/4	1	1	1			
Man Hole	in	550*275	720*360	500*500	HALFCIRCLE			
Material								
Shell	-	Carbon Steel						
Head	-	Carbon Steel Carbon Steel						
Vessel Dimensions								
Vessel Diameter	mm	640	820	930	1300			
Vessel Heigth	mm	1000	1000	1520	1520			

PACKMAN GROUP

History

The Packman Company was founded in February 1975, and was soon afterwards registered in companies Registration Office. In early years the Packman construction and service branch focused on building installations. Different mega power plants were built by cooperating with Brown Boveri and Asseck companies in 1976.

The company started its official activities in construction of High-Pressure Vessels such as Hot-Water Boilers, Steam Boilers, Storage Tanks, Softeners and Heat Exchangers from 1984.

Packman Company is one of the first companies which supplied the high quality and standard hot water boilers to the customers.

Packman has exported its products to countries such as Uzbekistan, United Arab Emirates and other countries in the Middle East. It is one of the largest producers of hot-water and steam boilers in the Middle East.

Now we are proud to announce that the Packman industrial group has five major sub-brands that have product titles in all field of HVAC equipment and engineering services, and we do not know this success except with the help and support of our customers.

- 1. Construction Services Industry Association
- 2. Industry Association
- 3. Construction Companies' Syndicate
- 4. Technical Department Association
- 5. Mechanical Engineering Association
- 6. Engineering Standard Association

Departements:

Sales Deps:

- ∩ Power Plant & Petrochemical
- ∩ Industrial
- ∩ Hospitally Service ∩ Commercial & Residential
- ∩ Sport Complex & Pool

Technical Deps:

- Manufacturing R&D
- **■** Innovation Center
- **≡** EPC Execute Unit
- **■** Product Develop Unit
- **■** Sales Engineering Dep.

Others:

- ≈ After Sales Service
- ≈ Project Control
- ≈ Financial Office
- ≈ Commercial Office
- ≈ Marketing Department



PACKMAN GROUP

Brands



PACKMAN

Industrial Group

Designer & manufacturer of Condensing, Hot Water, Steam, Hot Oil & Waste Heat Boilers, Heat Exchangers, Autoclave Pressure & Storage Vessels & etc



GREENMAN

Green mindset, green future

Engineering &
Designing Commercial
Greenhouse Plant, CO2
Dosing System, Flue
gas Condenser &
Special HVAC Systems,
Sustainable Agriculture
& etc



ROMAN

Watersolution

Designer & manufacturer Reverse Osmosis Plant & Package, Water Treatment, Softener & Filters and Chemical Dosing Systems & etc



RAAD**MAN**

a look to the future

Designer&manufacturer of Industrial Mono & Dual Block Gas, LPG, Light & Heavy Oil Burners, Premixed & Postmixed Burners, Water tube burners, Process burners, Special application burners & Combustion Solutions & etc



CHILLMAN

Coolest hvac around

Designer&manufacturer of Air&Water Cooled Chillers, Air Handling Units, Fancoil, HVAC Equipment, Cold Storage Room&etc





1. Isfahan Factory



2. Vilashahr Factory



3. Parand Factory



4. Parand (2) Factory



5. Bonyad Factory

SOMEOF

Certificates are





























































Knowledge Based













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