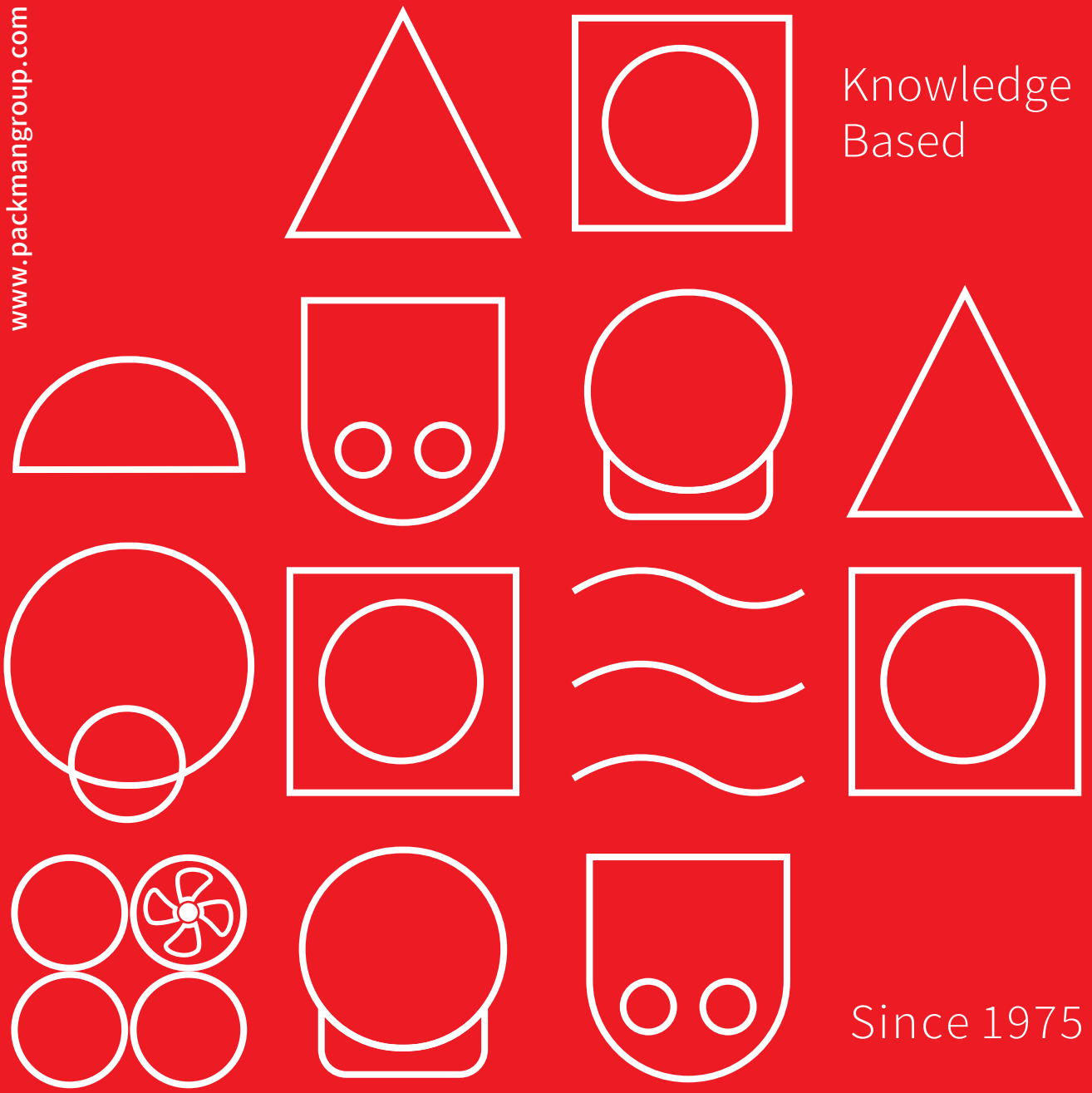


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Since 1975



PACKMAN
Industrial Group

 Blowdown Tank



Blowdown Tank

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Product Description

Blowdown Tanks for boilers are used as an alternative system for cooling the bottom boiler blowdown. These large tanks retain the blowdown water volume from one blow after the flash steam has been vented to the atmosphere and allow the water to cool down by natural convection. The cooled water will be below 140° Fahrenheit when it is displaced by the next blowdown and forced out of the overflow drainpipe.

Boiling water causes scaling and deposits to form resulting in a less efficient boiler and a less efficient boiler means increased costs. Because of this, boilers need to be intermittently, and sometimes continuously, flushed of a certain percentage of their water. Therefore, boiler rooms need blowdown tanks to meet legal regulations and to safely dispose of hot, dirty boiler blowdown.

PACKMAN Blowdown Tank Properties

PACKMAN's Atmospheric Blowdown Tanks are made of SA 36 (St 37.2 in accordance with DIN standard) or in the case of a customer's emphasis they can be made of 17MN4 (which is Suitable for boiler construction) with a certain thickness and without changing the price.

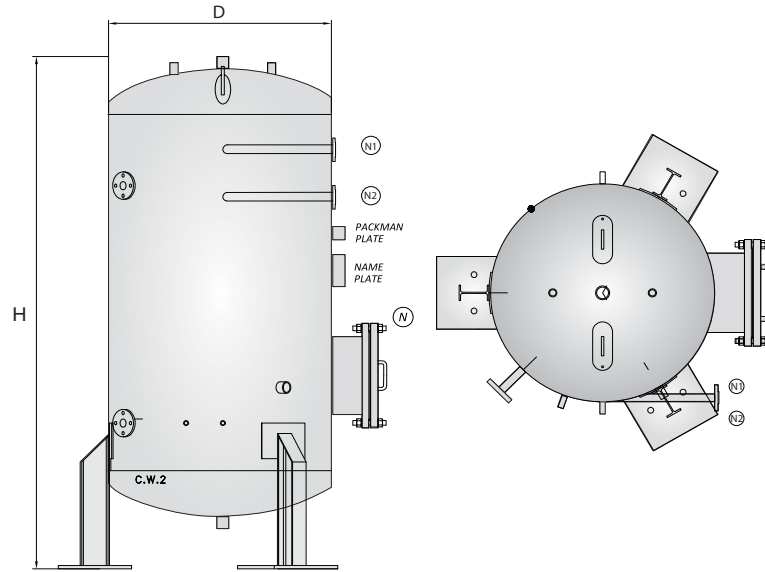
Manufacturing Standards

ASME Sec VIII, Div. 1 is used in the construction of blowdown tanks.

PACKMAN's blowdown tank head is Torispherical. This type of head has a longer life and a higher pressure strength at the same thickness against other shapes. The production price/per kilo of these heads is even up to two times the size of the usual heads on the market.

Welding Procedure

Welding is done by using the Swedish ISBU submerged arc welding equipment. After constructing the tank and welding the lugs, the body of the tank is connected to the heads by welding with a submerged welding method. In addition, the head is welded internally and externally, which increases the time life and the strength of the heads. In the welding root pass, the TIG, argon or welding methods with the 6010 cellulose electrode is used. The EW7018 electrode is used in welding fill pass. The submerged method using EW7018 electrodes in the welding cover pass.



Model	Unit	PBT-300	PBT-600	PBT-800	PBT-1000	PBT-1500	PBT-2000	PBT-2500	PBT-3000	PBT-4000
Technical Data										
Design Standard	-	ASME SEC. VIII. DIV.1								
Vessel Type	-	VERTICAL								
Volume Capacity	litr	300	600	800	1000	1500	2000	2500	3000	4000
Connectoins Size										
Man Hole	in	8	8	8	12	14	16	16	16	16
Blow Water Inlet 1	in	1	1	1	1	1	2	2	2	2
Blow Water Inlet 2	in	1	1	1	1	1	2	2	2	2
Level Gauge	in	1	1	1	1	1	1	1	1	1
Water Outlet	in	1	1	1	1	1 1/2	1 1/2	1 1/2	1 1/2	2
Temperature Switch High	in	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Temperature Switch Low	in	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Drain	in	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	2	2
Service Water Inlet	in	1/2	1/2	1/2	1	1 1/2	2	2	1 1/2	2
Spare	in	1	1	1	1	1	1	1	1	1
Temperature Indicator	in	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Vent	in	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	2	2	2	2
Material										
Shell	-	Carbon Steel								
Toris Head	-	Carbon Steel								
Vessel Dimensions										
Vessel Diameter(D)	mm	610	800	800	900	1100	1200	1320	1200	1592
Vessel Height (H)	mm	1550	2200	2200	2200	2200	2200	2300	3300	2500

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
Water solution

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



RAADMAN
a look to the future

Designer & manufacturer of Industrial Mono & Dual Block Gas, LPG, Light & Heavy Oil Burners, Premixed & Postmixed Burners, Watertube 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

SOME OF Certificates are



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