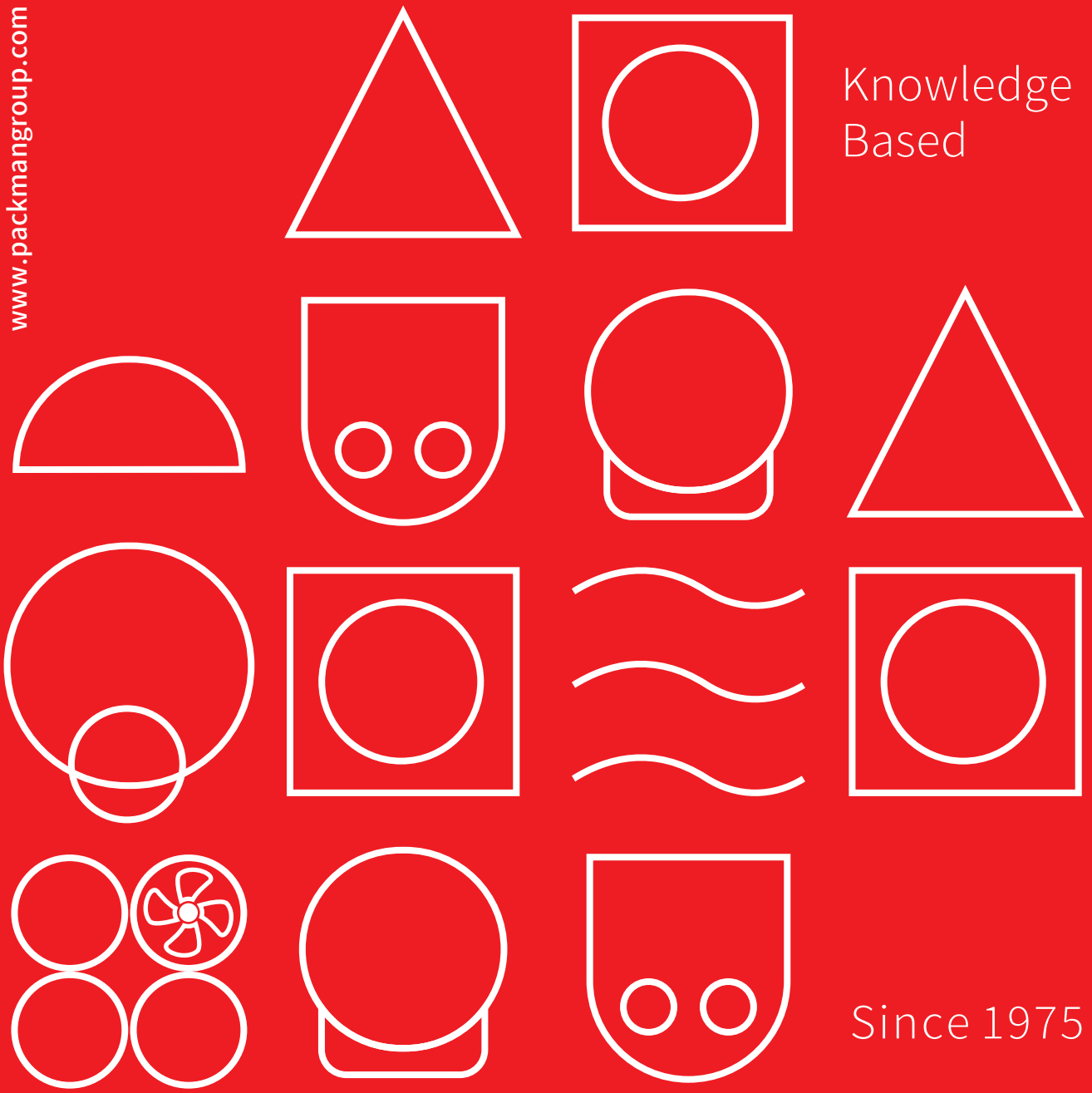


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Knowledge
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Since 1975



PACKMAN
Industrial Group

 Air Separator

powered by PACKMAN industrial group



Air Separator

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Product Description

Air separators eliminate the air from closed loop heating and cooling systems quickly and efficiently. Water enters and exits through unique tangential nozzle connections, which promote a low velocity vortex effect in the center of the unit. Natural centrifugal forces allow the heavier air-free water to move towards the outer edges, while entrained air is captured by the stainless steel collection tube and released to the top of the separator. This air can then be redirected to the compression tank, or released out of the system through an automatic air vent. The bubble free water then exits near the bottom of the unit and the system is thus protected against noise, blockage and damage commonly caused by entrained air.

PACKMAN'S Air Separator Tank Properties

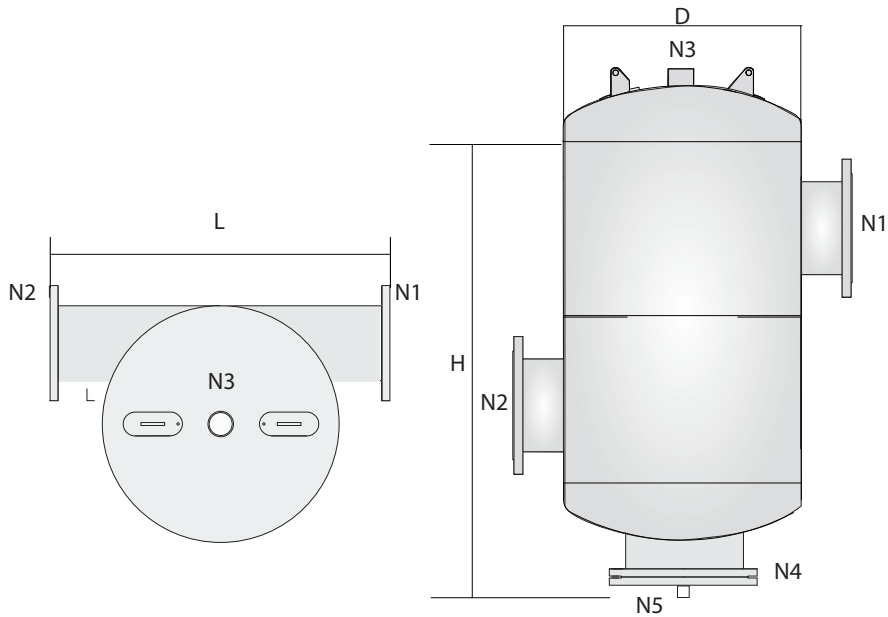
PACKMAN'S Atmospheric Air Separator Tanks are made of SA 36 (St 37.2 in accordance with DIN standard) or in case of customer's emphasis they can be made of 17MN4 (which is Suitable for boiler construction) with suitable thickness and without any change in the price.

Manufacturing Standards

ASME Sec VIII, Div. 1 is observed in the construction of Air Separator tanks. PACKMAN'S Air Separator tank's heads are Torispherical. This type of head has a longer life and a higher pressure strength compared to other shapes with the same thickness. The production price per kilo of these heads can reach up to twice the price ratio of the usual heads on the market.

Welding Procedure

Welding is done with 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 using a submerged arc welding method. The heads are welded internally and externally, which increases their life and strength. In the root pass, the TIG, argon or other welding methods with the 6010 cellulose electrode is used. The EW7018 electrode is used in fill pass. Finally the submerged method with EW7018 electrodes is used in the welding cover pass.



Model	Unit	PAS-300	PAS-500	PAS-700	PAS-1300	PAS-2000	PAS-4400	PAS-6000
Technical Data								
Design Standard	-	ASME SEC. VIII. DIV.1						
Vessel Type	-	VERTICAL						
Flow Rate	gpm	300	500	700	1300	2000	4400	6000
Vessel Water Pressure Drop	bar	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Connectoin Size								
Inlet (N1)	in	5	6	6	8	10	12	14
Outlet (N2)	in	5	6	6	8	10	12	14
Vent (N3)	in	1	1 1/4	1 1/2	2	2 1/2	3	4
Hand Hole (N4)	in	8	10	10	12	12	14	16
Drain (N5)	in	1	1 1/4	1 1/2	2	2 1/2	3	4
Material								
Shell	-	Carbon Steel/Stainless Steel Based on Client Request						
Head	-	Carbon Steel/Stainless Steel Based on Client Request						
Vessel Dimensions								
Vessel Diameter (D)	mm	410	460	460	600	800	900	1100
Vessel Height (H)	mm	1200	1300	1400	1800	2050	2400	2800
Inlet to Outlet Length (L)	mm	600	650	650	900	1200	1400	1600

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 of 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



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2. Vilashahr Factory



3. Parand Factory



4. Parand (2) Factory



5. Bonyad Factory

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