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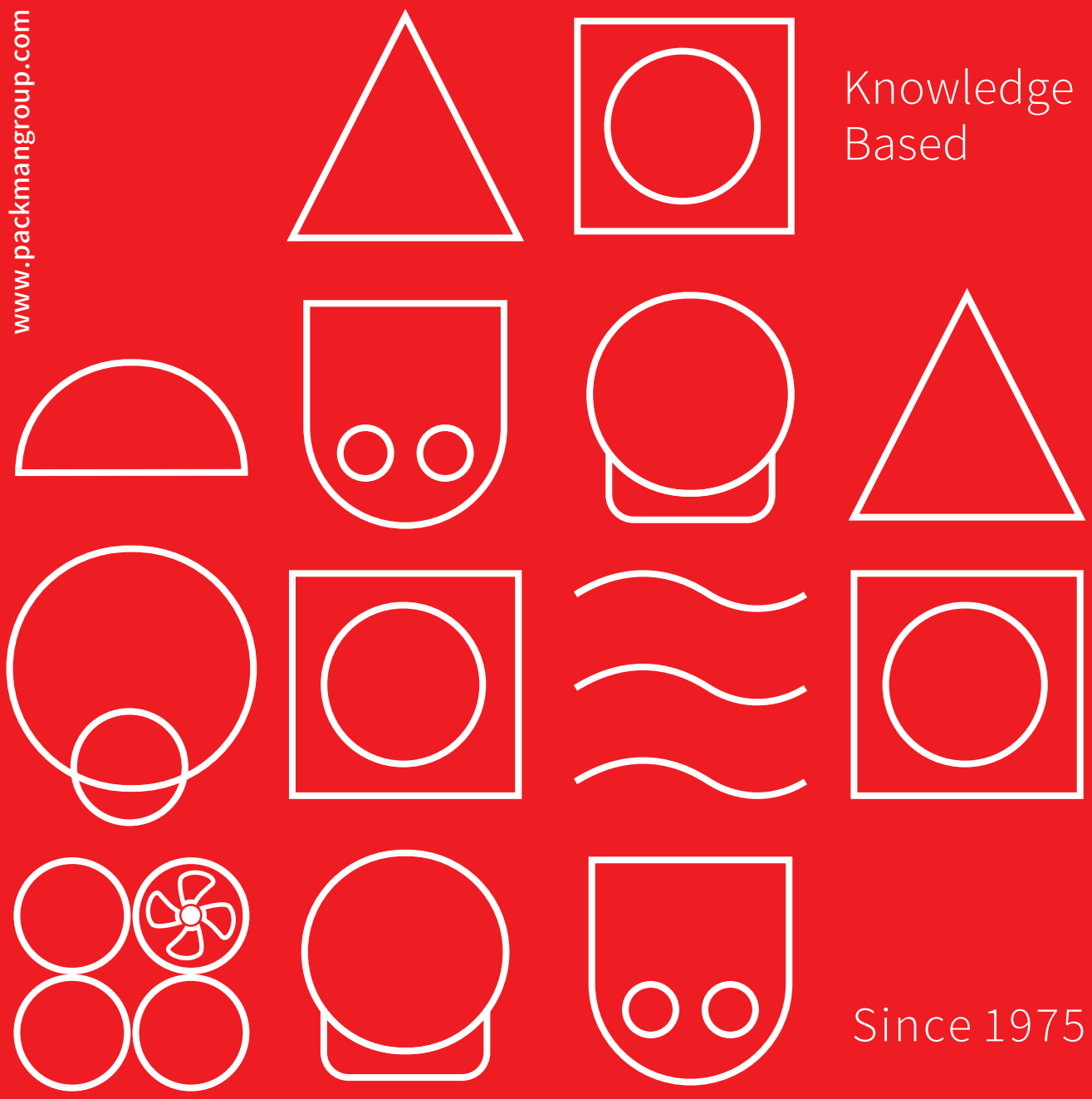
Knowledge
Based



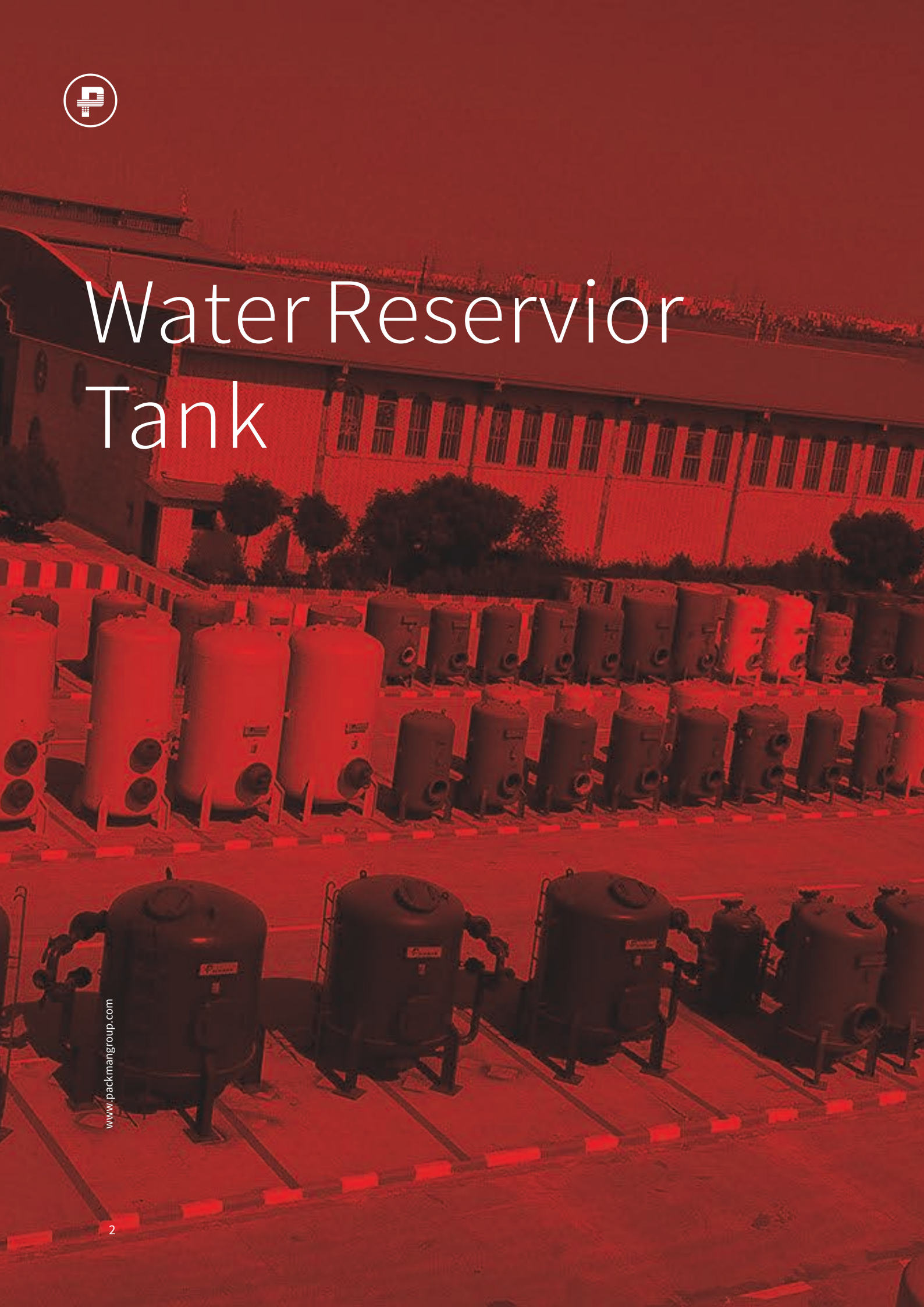
Since 1975

PACKMAN
Industrial Group

# Water Reservior Tank

powered by PACKMAN industrial group

# Water Reservior Tank



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## Product Description

Water Reservior tank is a container for storing water. Water tanks are used to provide storage of water for use in many applications, drinking water, irrigation agriculture, fire suppression, agricultural farming, both for plants and livestock, chemical manufacturing, food preparation as well as many other uses.Water tank parameters include the general design of the tank, and choice of construction materials, linings. Various materials are used for making water tank: plastics (polyethylene, polypropylene), fiberglass, concrete and steel (welded or bolted, carbon, or stainless). Earthen pots also function as water storages.

### PACKMAN Water Storage Tank Properties

PACKMAN Water Storage tanks are made of steel plate of ST37 grade (recommended for the manufacture of pressure vessels-no direct fire contact). In the case of customer request, the tank can be made of 17MN4 (suitable for boiler construction) without any changing in product price.

### Manufacturing Standards

ASME Sec VIII, Div. 1 is used in the construction of water storage tanks.
Torispherical/Elliptical Head PACKMAN's water storage tank head is Elliptical which is more reliable than torispherical heads. 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.

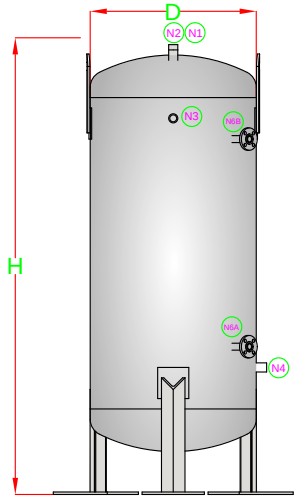
### Welding Procedure

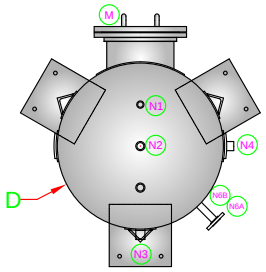
Welding is done by using the Swedish ISBU submerged arc welding equipment. After constructing the tank and welding the lugs, the body of the tank is connected to the heads by welding with a submerged welding method. In addition, the head is welded internally and externally, which increases the time life and the strength of the heads.

### Product Capacity Calculation & Selection

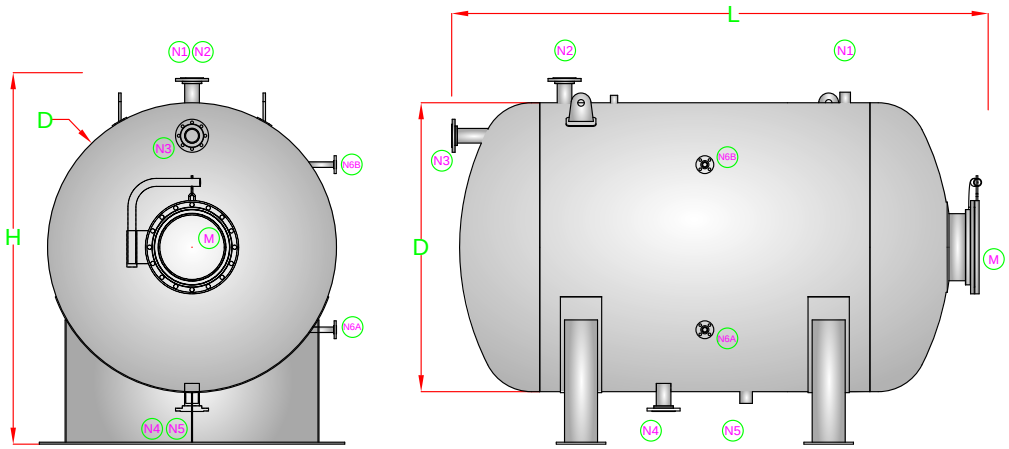
The process of selecting a water or wastewater storage tank starts with

a series of questions and considerations. This is one of the main problems which is witnessed in liquid storage containment applications. In order to ensure that the capacity of water storage tank is approved by the responsible authorized department, it is necessary to prepare and install the equipment according to the instructions Standards. Then one can select the product model by determining the volume of storage tanks.

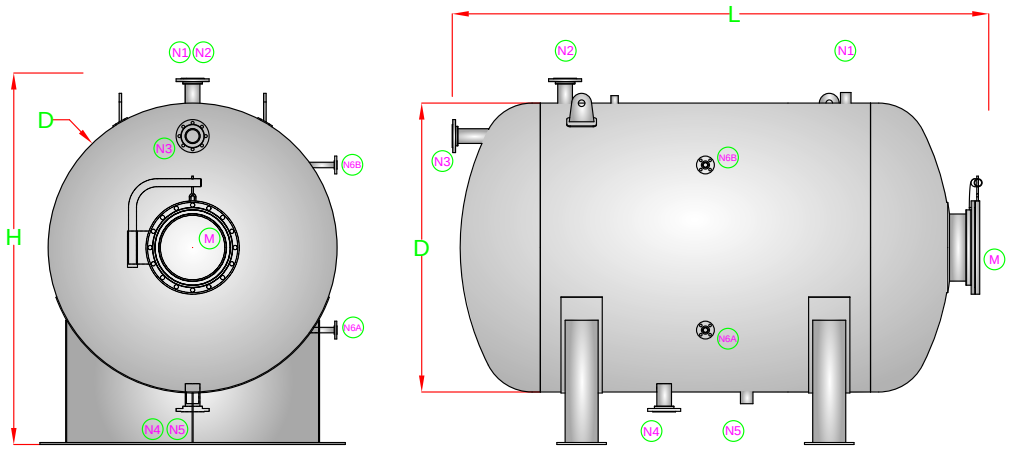



| Model | Unit | PWRT-300 | PWRT-400 | PWRT-500 | PWRT-800 | PWRT-1000 | PWRT-1500 |
|---|---|---|---|---|---|---|---|
| **Technical Data** | | | | | | | |
| Design Standard | - | ASME SEC.VIII.DIV.1 | | | | | |
| Vessel Type | - | Vertical | | | | | |
| Volume Capacity | liter | 300 | 400 | 500 | 800 | 1000 | 1500 |
| **Connectoin Size** | | | | | | | |
| Hand Hole (M) | in | 10 | 10 | 10 | 12 | _ | _ |
| ManHole (M) | in | _ | _ | _ | _ | 14 | 14 |
| Vent (N1) | in | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 | 3/4 |
| Inlet (N2) | in | 1 | 1 | 1 | 1 | 11/2 | 11/2 |
| Over Flow (N3) | in | 1 | 1 | 1 | 1 | 11/2 | 11/2 |
| Outlet (N4) | in | 1 | 1 | 1 | 1 | 11/2 | 11/2 |
| Drain (N5) | in | 1 | 1 | 1 | 1 | 1 | 1 |
| Level Gauge (N6A,N6B) | in | 1 | 1 | 1 | 1 | 1 | 1 |
| **Material** | | | | | | | |
| Shell | - | Carbon Steel/Stainless Steel/Galvanized Steel Based on Client Request | | | | | |
| Head | - | Carbon Steel/Stainless Steel/Galvanized Steel Based on Client Request | | | | | |
| **Vessel Dimensions** | | | | | | | |
| Vessel Diameter | mm | 600 | 600 | 600 | 800 | 900 | 1100 |
| Vessel Height | mm | 1650 | 1850 | 2150 | 2200 | 2250 | 2350 |




| Model | Unit | PWRT-2000 | PWRT-2500 | PWRT-3000 | PWRT-3500 | PWRT-4000 | PWRT-5000 |
|---|---|---|---|---|---|---|---|
| **Technical Data** | | | | | | | |
| Design Standard | - | ASME SEC. VIII. DIV.1 | | | | | |
| Vessel Type | - | Horizantal | | | | | |
| Volume Capacity | liter | 2000 | 2500 | 3000 | 3500 | 4000 | 5000 |
| **Connectoin Size** | | | | | | | |
| Man Hole (M) | in | 14 | 16 | 16 | 16 | 16 | 16 |
| Vent (N1) | in | 1 | 11/2 | 11/2 | 11/2 | 11/2 | 11/2 |
| Inlet (N2) | in | 2 | 21/2 | 21/2 | 3 | 3 | 3 |
| Over Flow (N3) | in | 2 | 21/2 | 21/2 | 3 | 3 | 3 |
| Outlet (N4) | in | 2 | 21/2 | 21/2 | 3 | 3 | 3 |
| Drain (N5) | in | 1 | 11/2 | 2 | 2 | 2 | 2 |
| Level Gauge (N6A,N6B) | in | 1 | 1 | 1 | 1 | 1 | 1 |
| **Material** | | | | | | | |
| Shell | - | Carbon Steel/Stainless Steel/Galvanized Steel Based on Client Request | | | | | |
| Head | - | Carbon Steel/Stainless Steel/Galvanized Steel Based on Client Request | | | | | |
| **Vessel Dimensions** | | | | | | | |
| Vessel Diameter (D) | mm | 1200 | 1320 | 1320 | 1320 | 1320 | 1592 |
| Vessel Height (H) | mm | 2000 | 2100 | 2150 | 1750 | 1750 | 2100 |
| Vessel Length(L) | mm | 2250 | 2250 | 2650 | 3100 | 3500 | 3200 |




| Model | Unit | PWRT-6000 | PWRT-7000 | PWRT-8000 | PWRT-9000 | PWRT-10000 |
|---|---|---|---|---|---|---|
| **Technical Data** | | | | | | |
| Design Standard | - | ASME SEC. VIII. DIV.1 | | | | |
| Vessel Type | - | Horizantal | | | | |
| Volume Capacity | liter | 6000 | 7000 | 8000 | 9000 | 10000 |
| **Connectoin Size** | | | | | | |
| Man Hole (M) | in | 16 | 16 | 16 | 16 | 16 |
| Vent (N1) | in | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 | 1 1/2 |
| Inlet (N2) | in | 3 | 3 | 3 | 3 | 3 |
| Over Flow (N3) | in | 3 | 3 | 3 | 3 | 3 |
| Outlet (N4) | in | 3 | 3 | 3 | 3 | 3 |
| Drain (N5) | in | 2 | 2 | 2 | 2 | 2 |
| Level Gauge (N6A,N6B) | in | 1 | 1 | 1 | 1 | 1 |
| **Material** | | | | | | |
| Shell | - | Carbon Steel/Stainless Steel/Galvanized Steel Based on Client Request | | | | |
| Head | - | Carbon Steel/Stainless Steel/Galvanized Steel Based on Client Request | | | | |
| **Vessel Dimensions** | | | | | | |
| Vessel Diameter (D) | mm | 1750 | 1750 | 1910 | 1910 | 1910 |
| Vessel Height (H) | mm | 2250 | 2250 | 2400 | 2400 | 2400 |
| Vessel Length(L) | mm | 3250 | 3550 | 3450 | 3850 | 4350 |

# 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, 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

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