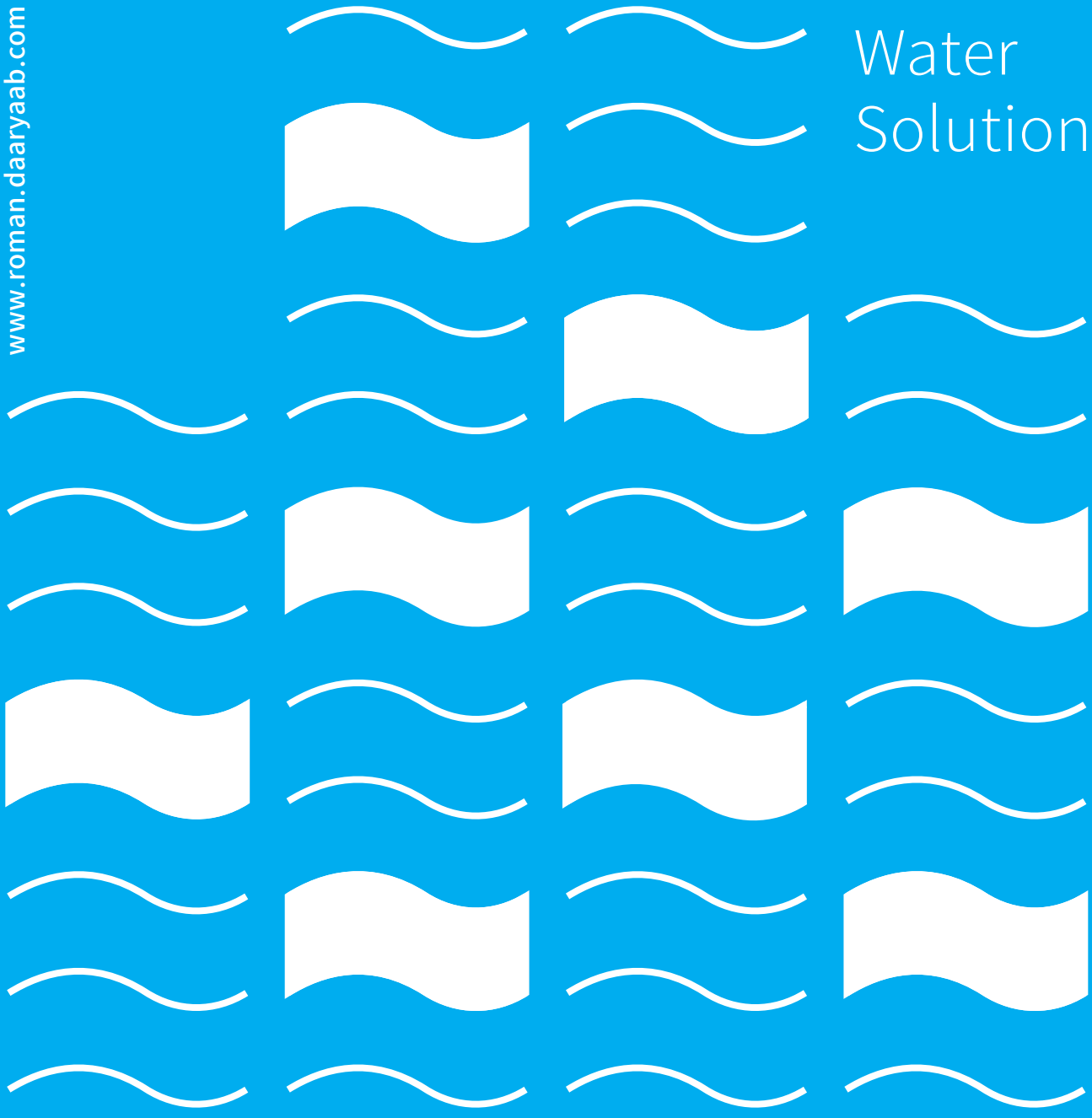


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Water
Solution



ROMAN
Water solution



Multimedia Filter
powered by **PACKMAN** industrial group



Multimedia Filter

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Product Description

Packman's Multimedia Filter generally consist of four layers of sand and one layer of carbon. In fact, these systems have the advantages of sand and carbon filters together. These filters are used to remove coarse insoluble particles along with chemical substances in water. These filters are in the form of vertical cylinders with two heads in different diameters and individually. The diameter of the fitting, quantity of nozzles and filtration velocity are the most important features of Multimedia filters. The installed geyser on top of the multimedia filter, uniforms the water flow and causes the water to pass through the activated carbon substrate in a balanced manner.

Manufacturing Standards

ASME Sec VIII, Div. 1 is observed in construction of Multimedia filter tanks.

Torispherical / Elliptical Head

PACKMAN's Multimedia filter head is Torispherical or Elliptical. This type of head has a longer life and a higher pressure strength compared to other shapes with the same thickness.

Welding Procedure

In the welding of Multimedia filters, sub-powder welding machines of ISAB Sweden are used. After constructing the tank and welding the lugs, the body of the tank is connected to the heads using a submerged welding method.

The lower head is welded by protruding of 6-pass nozzle plates from inside and outside, which increases the life of the weld and the strength of the lower head (which supports all the weight of water and resin).

The heads are welded internally and externally, which increases their life & 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 the fill pass. The submerged method with EW7018 electrodes is than used in the cover pass.

Water Collection Nozzles

At the bottom of Packman's Multimedia filters, there is a plate, on which



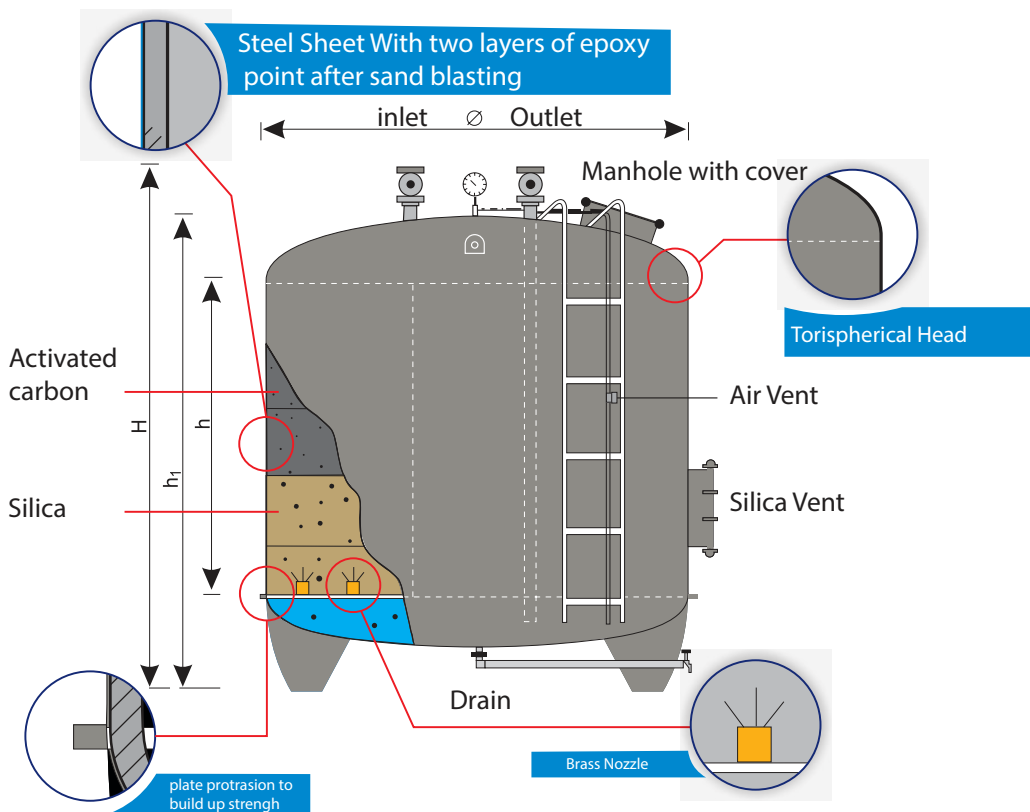
nozzles are placed, which are responsible for collecting purified water. These nozzles are made of brass and about 50 nozzles are placed per square meter of the multimedia filter network surface, which makes the washing done optimally.

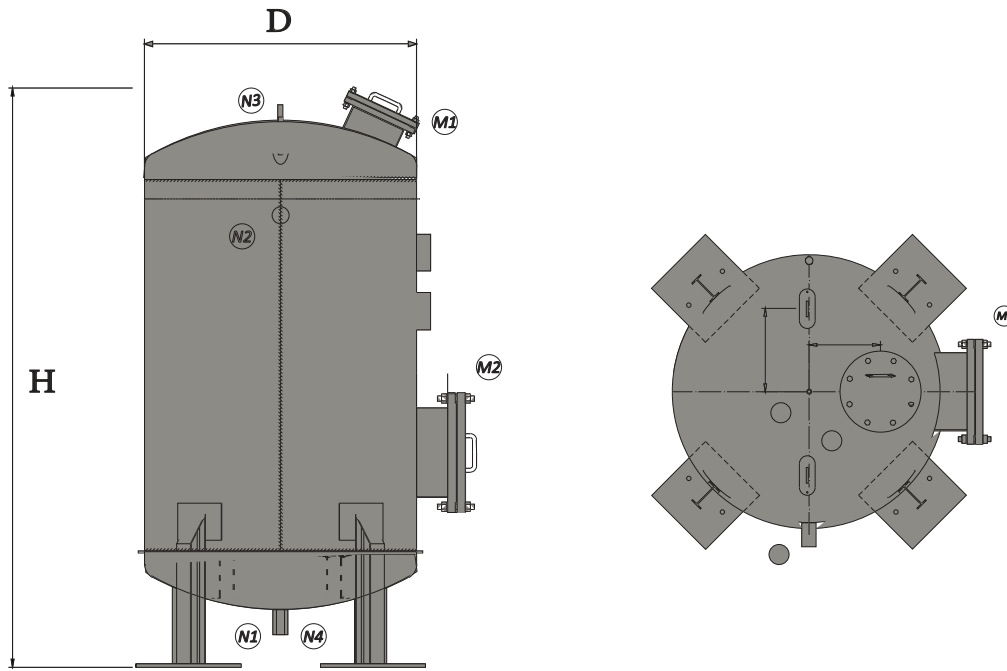
Covering Multimedia Filter

Multimedia filter tanks are acid washed (At the request of the client Sand Blast) in preparation for paint. The outer coating of these filters is also made of special industrial paint and epoxy in three layers (thickness 275 microns) and 100 microns of color coating is applied from the inside.

Beck Wash Piping

Packman's Multimedia filter have a water return valve, and if backwash piping is needed, it is possible with a written request and re-inquiry.





Model	Unit	PMF -24	PMF -32	PMF -44	PMF -50	PMF -60	PMF -70	PMF -80	PMF -90	PMF -100	PMF -120	
Technical Data												
Capacity based on Filtration Speed (m3/h)	15	m/h	4.3	7.6	14.3	18.5	26.5	36	47.2	59.7	73.6	106
	17	m/h	4.8	8.6	16.2	21	30	40.9	53.4	67.6	83.4	120.2
	20	m/h	5.6	10	19	24.6	35.4	48.1	62.9	79.5	98.2	141.4
Vessel Water Pressure drop	bar	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
Working water temperature	°C	30	30	30	30	30	30	30	30	30	30	
Connectoins Size												
Inlet	in	1,1/4	1,1/2	2	2,1/2	3	4	5	5	5	6	
Outlet	in	1,1/4	1,1/2	2	2,1/2	3	4	5	5	5	6	
Man Hole	in	10	14	14	16	16	16	16	16	16	16	
Hand Hole	in	8	8	8	10	10	10	10	10	10	10	
Manometer	in	1/2	1/2	1/2	1/2	1,1/4	1/2	1/2	1/2	1/2	1/2	
Drain	in	1	1	1	1	1	2	2	2	2	2	
Vessel Dimensions												
Vessel Diameter (D)	mm	600	800	1100	1250	1500	1750	2000	2250	2500	3000	
Height or Length (Head to Head) (H)	mm	2200	2400	2900	3200	3300	3800	3800	3800	4100	4100	
Silica And Carbon Weight												
Carbon	Kg	100	150	250	350	450	650	800	1000	1500	2000	
Silica	Kg	400	700	1400	1800	2500	3500	4500	5500	7000	10000	

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



Knowledge Based



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+9821 42 362

www.packmangroup.com

No 14, 10th Alley, Beihaghi St., Argentina Sq., Tehran-Iran