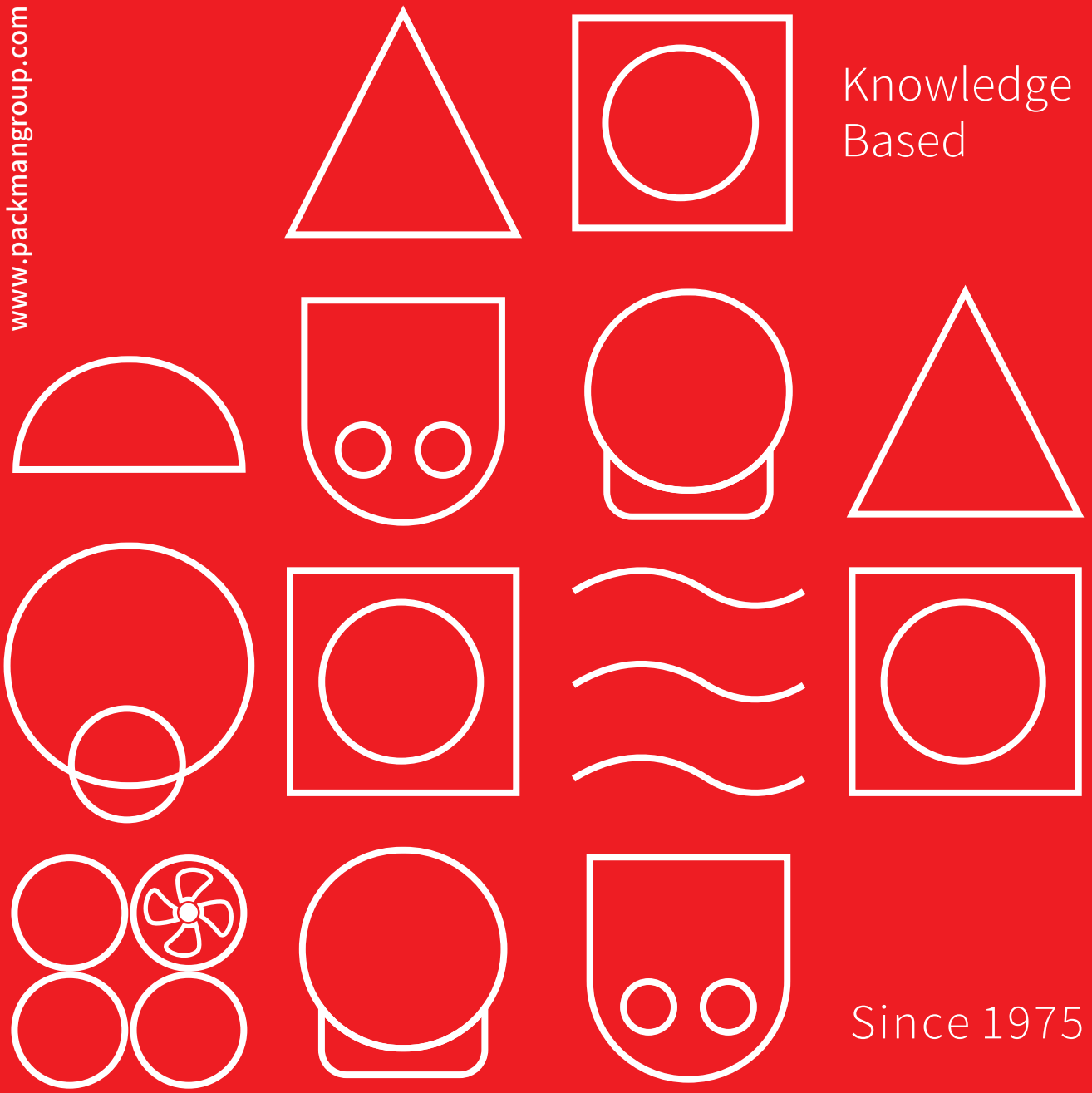


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Knowledge Based

Since 1975



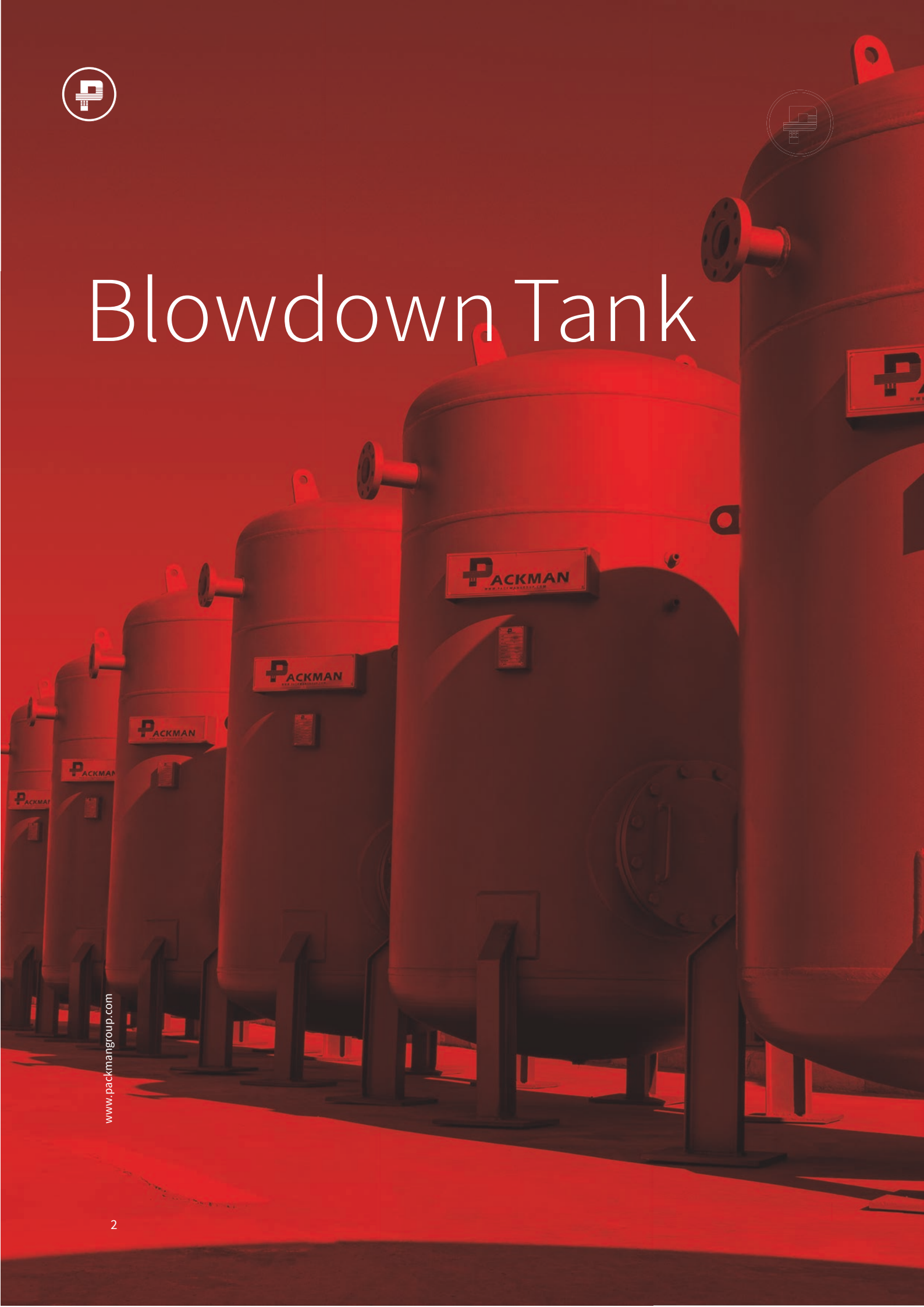
PACKMAN
Industrial Group

 Blowdown Tank

powered by PACKMAN industrial group



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.

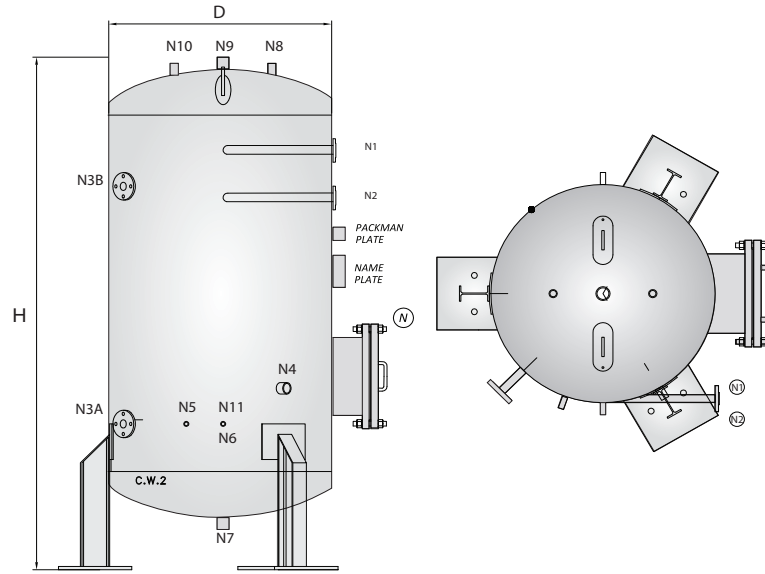
Manufacturing Standards

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-400	PBT-500	PBT-800	PBT-1000	PBT-1500	PBT-2000	PBT-2500	PBT-3000	PBT-3500	PBT-4000	PBT-5000	PBT-6000
Technical Data														
Design Standard	-	ASME SEC. VIII. DIV.1												
Vessel Type	-	VERTICAL												
Volume Capacity	liter	300	400	500	800	1000	1500	2000	2500	3000	3500	4000	5000	6000
Connectoin Size														
Hand Hole(N)	in	8	8	8	-	-	-	-	-	-	-	-	-	-
Man Hole(N)	in	-	-	-	14	14	14	14	14	16	16	16	16	16
Blow Water Inlet 1 (N1)	in	1	1	1	1	1	1	2	2	2	2	2	3	3
Blow Water Inlet 2 (N2)	in	1	1	1	1	1	1	2	2	2	2	2	3	3
Level Gauge (N3A) , (N3B)	in	1	1	1	1	1	1	1	1	1	1	1	1	1
Water Outlet (N4)	in	1	1	1	1	1	1	2	2	2	2	2	2	2
Temperature Switch High (N5)	in	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Temperature Switch Low (N6)	in	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Drain (N7)	in	1	1	1	1	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 (N8)	in	1	1	1	1	1	1	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	2	2
Vent (N9)	in	2	2	2	2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	3	3
Temperature Indicator (N10)	in	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
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	600	600	600	800	900	1100	1200	1320	1320	1320	1320	1592	1750
Vessel Height (H)	mm	1750	1950	2250	2300	2350	2400	2450	2500	2900	3200	3600	3350	3400

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

Knowledge Based



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