



BETA KAZAN
BETA KAZAN Boiler Company

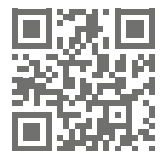


BHW MODEL

**Liquid-Gas Fueled Three Pass
Superheated Water Boiler**

Technical Specifications

Your Industrial Energy Strength



www.betakazan.com



Company Profile

With a solid 15 years' experience in the industry, **BETA KAZAN Boiler Company** offers energy solutions for domestic and industrial applications of all sizes thanks to its extensive portfolio and activities that include steam, hot water and hot oil boilers, solid fuel and waste burning systems, heat exchangers, feed water preparation systems, chimney filtration systems and dust collection.

BETA KAZAN Boiler Company is dedicated to swiftly fulfill its commitments, even amidst competitive market conditions, as well as to fully meet customers' expectations while offering top tier services thanks to its professional team, consequently establishing the company as a trusted partners in more than 500 projects both locally and internationally.

All **BETA KAZAN Boiler Company's** products are built in the capital Ankara which makes it easy to deliver at all kinds of points throughout the Middle East, Eastern Europe and Western and Central Asia.

BETA KAZAN Boiler Company is proud to be certified in TS EN ISO 9001, reflecting its commitment to quality management; TS EN ISO 14001, demonstrating its dedication to effective environmental management; and TS EN ISO 45001, showcasing its focus on maintaining a safe and healthy work environment. These certifications affirm the company's adherence to top international standards in quality, sustainability, and occupational health and safety.

BETA KAZAN Boiler Company is an honorable member of:



**Boiler and Pressure Vessel
Industrialists Association**



**Turkish HVAC&R
Exporters Association**



Üretim standartları, PED basınçlı kaplar direktifine, TS EN303-1, TS EN12953 standartlarına uygun olarak bilgisayar destekli tasarım ve yüksek imalat teknolojisi ile üretilmektedir.

Düşük duman yolu direnci sayesinde brülör elektrik sarfiyatı azalmakla beraber daha rahat yanma sağlanmaktadır.

Ondüle tip külhan sayesinde yanma odası mukavemeti artırılmış ve termik gerilmelere karşı esnek hale getirilmiştir.

Üç geçişli kazan dizaynı sayesinde yanma odası yükü 1.2 MW/m³'den daha düşüktür. Düşük yanma odası yükü sayesinde yüksek verimli bir yanma ile çevreye duyarlı düşük emisyon oranları sağlanmaktadır.

Alev duman borularının aynalara kaynaklı olmasından dolayı emniyetli çalışmaya uygundur ve boru değişiminin kolay olması kazan ömrünü uzatmaktadır.

Baca gazı ısısından ekonomizer ile dönüş suyuna veya brülör yakma havasına ısı transferi ile sistem verimi kapasiteye bağlı olarak %5 daha arttırılabilmektedir.

Yüksek yoğunluklu optimum izolasyon malzemesi kullanımıyla ısı kayıpları minimum düzeye indirilerek kazan verimi arttırılmaktadır.

İşletme basıncına bağlı olarak kazan verimi ekonomizer olmadan %91'e kadar çıkmakta olup bu sayede minimum yakıt sarfiyatı ile maksimum verim alınmaktadır.

Yüksek basınç altında kaynama nedeniyle buharlaşmaya uğramadan sıcak su üretimi yapan kazanlarımız ağır çalışma şartlarında, ani enerji çekişlerinde her çeşit brülöre çalışma imkanı vermektedir.

It is produced with computer aided design and high manufacturing technology in accordance with production standards, PED pressure vessels directive, TS EN303-1, TS EN12953 standards.

Thanks to the low smoke path resistance, burner electricity consumption is reduced, and smoother combustion is provided.

Thanks to the corrugated type combustion chamber, the strength of the combustion chamber has been increased and it has been made resilient against thermal stresses.

The advantage of using three-pass boiler design is to reduce the load in the combustion chamber up to 1.2 MW/m³, hence providing an efficient combustion while keeping emission rates low making it environmentally friendly.

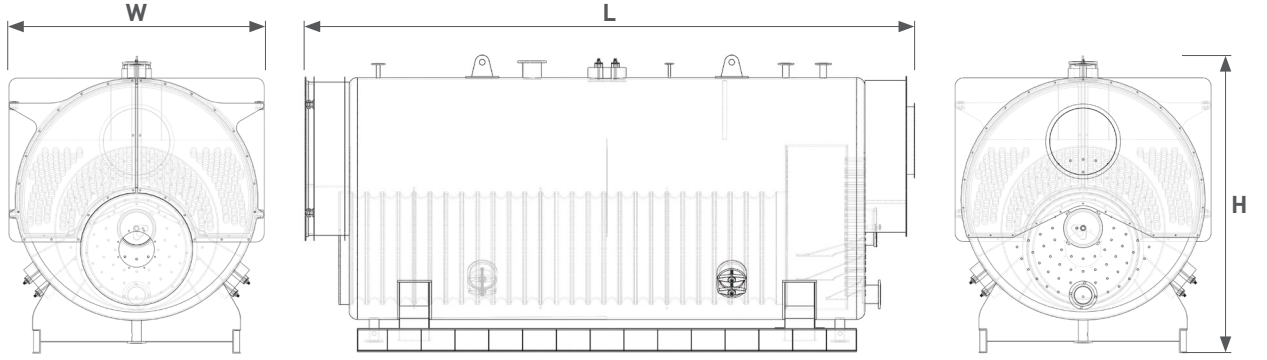
Since the smoke pipes are welded to the plates, it is suitable for safe operation and pipe replacement task is made effortless, extending the boiler's life.

The efficiency of the boiler can be increased by 5%, depending on the capacity, if flue gas heat is transferred to the feed water or burner's combustion air in an economizer.

With the use of optimum insulation material with high density, heat losses are reduced to a minimum and boiler efficiency is further increased.

Depending on the operating pressure, the boiler efficiency goes up to 91% without an economizer, thus achieving maximum efficiency with minimum fuel consumption.

Our boilers produce superheated water without evaporation while boiling under high pressure. At the same time, they allow all types of burners to operate under heavy working conditions and sudden energy draws.



Sıvı-Gaz Yakıtlı Kızgın Su Kazanı Teknik Bilgiler Liquid-Gas Fuel Superheated Water Boiler's Technical Information

Model Model	Kapasite Capacity		Isıtma Yüzeyi Heating Surface (m ²)	Genişlik Width W (mm)	Uzunluk Length L (mm)	Yükseklik Height H (mm)	Ağırlık Weight (kg)	Baca Çıkış Çapı Chimney Outlet Diameter ø (mm)	Su Hacmi Water Volume (lt)	Gidiş/Dö- nüş Flanşı Inlet/Outlet Flange DN (mm)	Kazan Karşı Basınç Backpressure (mbar)
	(kcal/h)	(kW)									
BHW-15	375.000	436	15	1.450	1.750	2.865	2.400	220	1.800	80	5
BHW-25	625.000	726	25	1.600	1.900	3.265	3.000	300	2.300	125	5
BHW-40	1.000.000	1.163	40	1.850	2.150	3.765	4.200	350	3.500	125	6
BHW-50	1.250.000	1.454	50	1.900	2.200	3.815	4.700	400	3.700	150	6
BHW-60	1.500.000	1.744	60	2.000	2.300	4.115	5.400	400	4.500	150	6.5
BHW-70	1.750.000	2.035	70	2.200	2.500	4.315	6.300	400	6.600	150	6.5
BHW-80	2.000.000	2.325	80	2.350	2.650	4.515	7.200	450	8.200	150	7
BHW-90	2.250.000	2.600	90	2.350	2.650	4.725	7.700	500	8.800	200	7
BHW-100	2.500.000	2.907	100	2.450	2.750	5.015	8.500	500	10.000	200	7
BHW-125	3.125.000	3.634	125	2.450	2.750	5.500	9.500	600	10.600	200	7.5
BHW-150	3.750.000	4.360	150	2.600	2.900	5.850	12.100	650	12.500	200	8
BHW-175	4.375.000	5.087	175	2.700	3.000	6.000	13.300	700	14.000	250	8
BHW-200	5.000.000	5.814	200	2.800	3.100	6.575	14.900	750	16.900	250	8
BHW-225	5.625.000	6.540	225	2.800	3.100	6.800	15.800	800	17.200	250	8.5
BHW-250	6.250.000	7.267	250	3.000	3.300	7.000	17.400	850	21.100	250	9
BHW-275	6.875.000	7.994	275	3.050	3.350	7.150	18.600	900	22.000	250	9
BHW-300	7.500.000	8.721	300	3.050	3.350	7.450	19.500	900	23.600	250	9.5
BHW-325	8.125.000	9.448	325	3.200	3.500	7.200	23.100	900	26.300	250	10
BHW-350	8.750.000	10.175	350	3.600	3.940	6.950	26.800	950	29.100	300	10.5
BHW-400	10.000.000	11.720	400	3.700	4.050	7.100	29.000	1.000	32.000	300	11
BHW-450	11.250.000	13.081	450	3.800	4.140	7.370	31.800	1.000	35.000	300	11.5
BHW-500	12.500.000	14.535	500	3.900	4.240	7.470	24.200	1.100	37.400	300	12

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A custom design is possible.



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