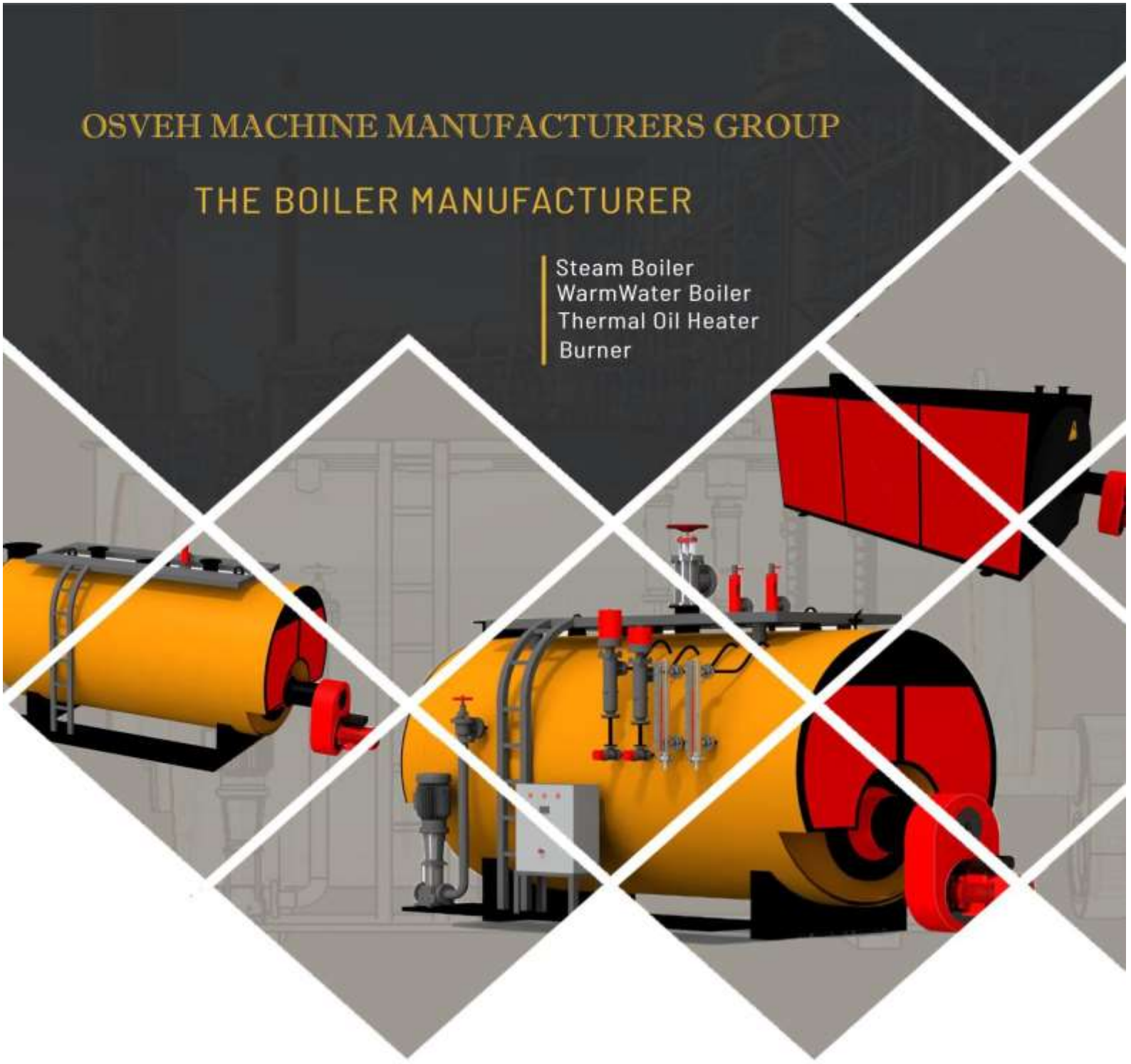
OSVEH MACHINE MANUFACTURERS GROUP

THE BOILER MANUFACTURER

Steam Boiler
WarmWater Boiler
Thermal Oil Heater
Burner



CATALOGUE

01 FIRST PRIORITY
Quality
Quality through 15 years of experience

02 SECOND PRIORITY
Reliability
Highly efficient and reliable process heat

WWW.OSVEHBOILER.COM



OSVEH INDUSTRIAL GROUP

Osveh Industrial Group Is Renowned as a specialist supplier of boiler systems in all sizes and output categories for over 25 years we have providing innovation in industrial boiler construction

QUALITY IS OUR TOP PRIORITY

Steam boiler



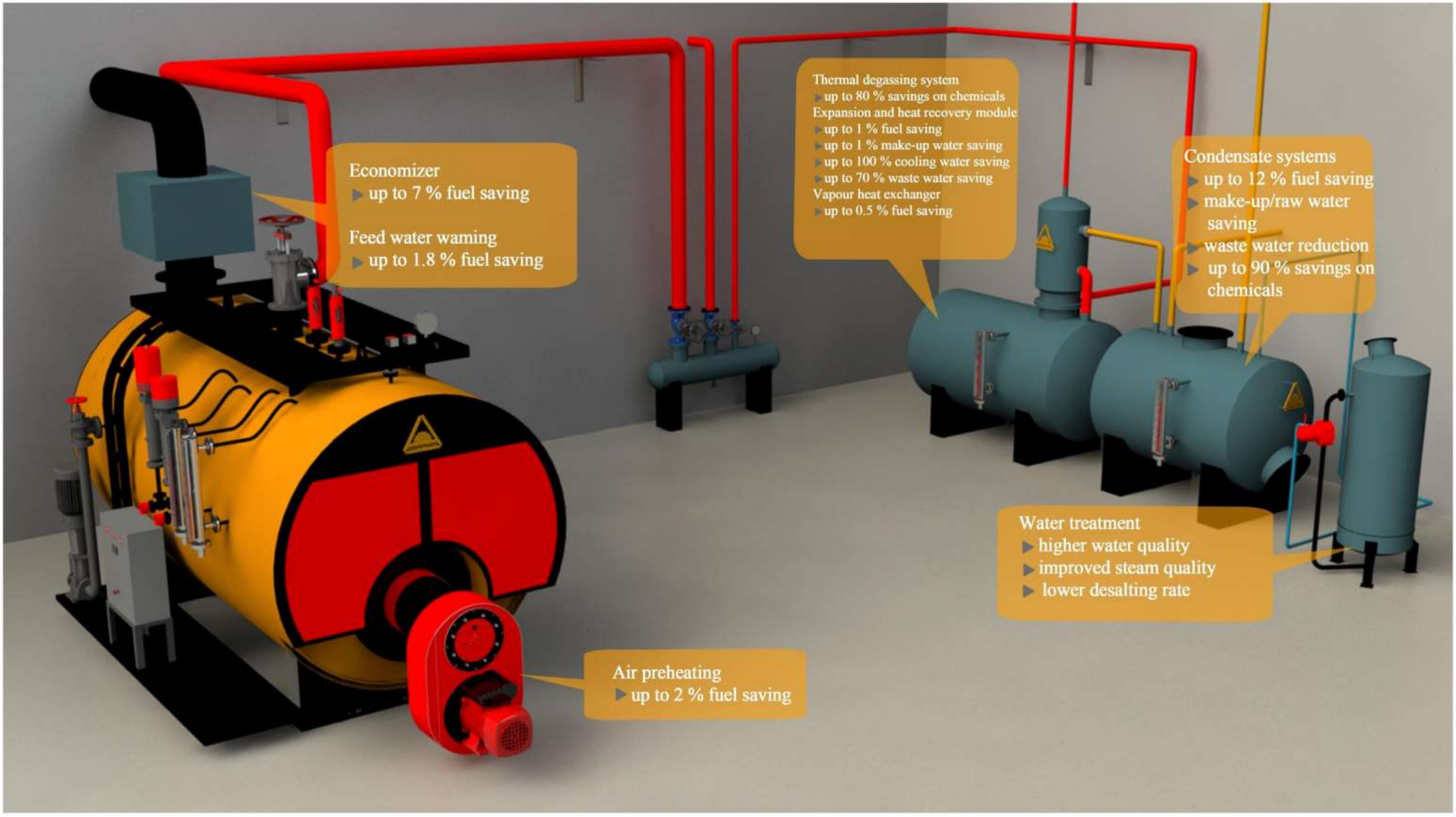
Always there for you

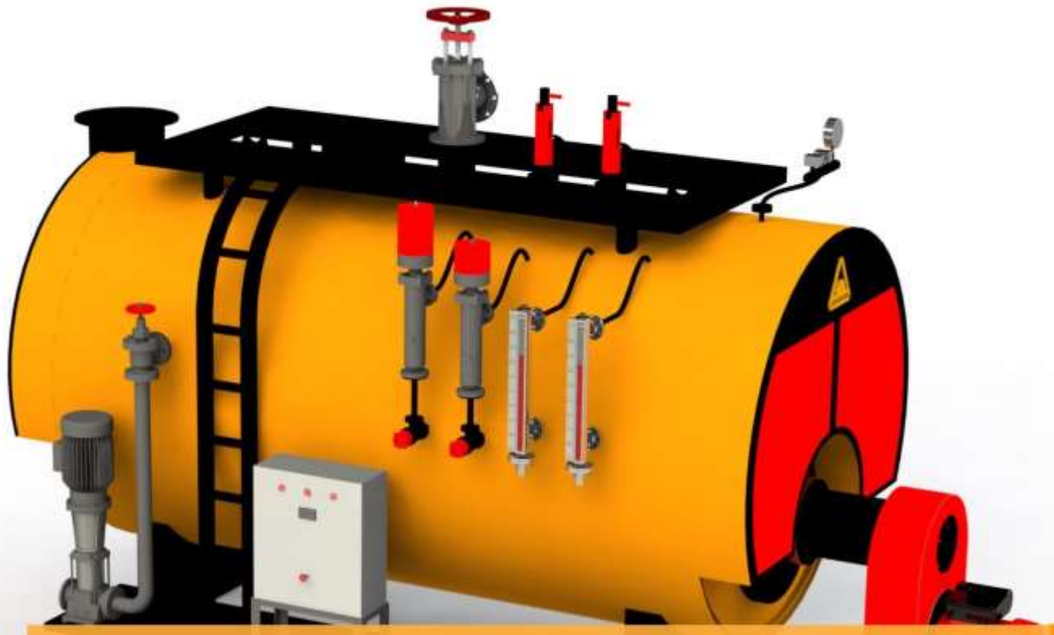
Our Products supplied in More than 100 companies in 10 countries, which confirm the renowned quality, reliability and efficiency of our products. We offer our customers a 24/7 service and ensure the shortest response times through a close network of service areas.

Boiler aftersale service covers

- ✔ Russia
- ✔ Azerbaijan
- ✔ Armenia
- ✔ Kazakhstan
- ✔ Georgia
- ✔ Turkmenistan
- ✔ Afghanistan
- ✔ Venezuela

High level efficiency for reduced operational costs



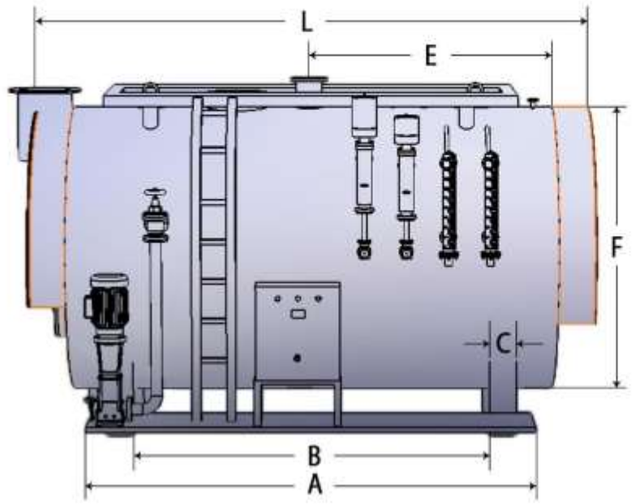


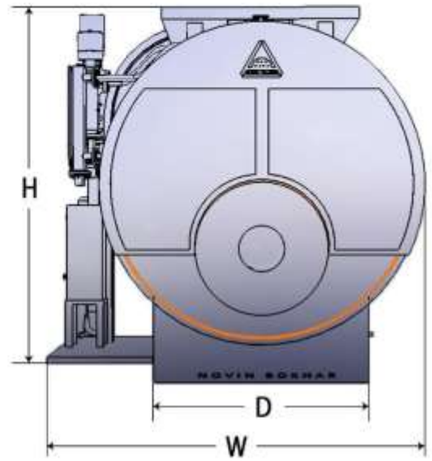
Osveh industrial group Steam Boiler

Compact steam boiler which could also suitable for limited space.By the unique design of steam boiler and burner,the emission of NOx is low with high efficiency. So this is ideal for food,alchol industries,loundries and hotels.

High level efficiency for reduced operational costs

- ✔ High efficiency rating of upto 85% with integrated economizer
- ✔ The integrated economizer used as flue gas heat to reduce fuel consumption and lower the flue gas temperature.
- ✔ Reduce power consumption burner by exclusive fan design which need lower electrical power.
- ✔ low NOx and efficient burner type.





Model		NBW SB0.5	NBW SB0.7	NBW SB1	NBW SB2	NBW SB3	NBW SB5	NBW SB7	NBW SB8	NBWS B10	NBW SB15
Capacity(kg/h)	---	500	700	1000	2000	3000	5000	7000	8000	10,000	15,000
Length (mm)	L	2000	2700	2800	3000	3500	4050	5200	5200	5500	5800
Width (mm)	W	1600	1800	2000	2200	2300	2700	3300	3300	3500	3900
Height (mm)	H	1700	2100	2100	2300	2400	2900	3500	3500	3800	4300
Skid (mm)	A	1420	1950	1770	2210	2700	2800	4100	4100	4100	4110
External skids distance (mm)	B	900	1390	1270	1610	2100	2400	3200	3200	3200	3210
External skid width (mm)	C	160	180	200	200	200	200	350	350	350	350
External skid length (mm)	D	1200	1250	1300	1420	1500	1800	2200	2200	2400	2589
Boiler front to steam outlet (mm)	E	517	850	1080	600	2200	1745	2240	2240	2400	3350
Shell diameter (mm)	F	1268	1272	1340	1600	1690	2026	2536	2536	2700	3100
Steam outlet valve (in)	---	1	1 1/2	2	3	4	6	6	6	8	8
Safety valve (in)	---	1	1	1 1/2	2	2	2	2	2	3	3
Drain (in)	---	1	1	1 1/2	1 1/2	1 1/2	1 1/2	2	2	2	2
Weight (kg)	---	1800	3800	4500	4800	5800	10500	16000	18000	20,000	25,000

OSVEHBOILER.COM

Design

The unique design and high amount of smoke tube guarantee a high level of steam quality in shorter time that proper your process.

The high-quality production of the entire boiler body using submerged are welding allows for particularly high level of rubostness and durability.

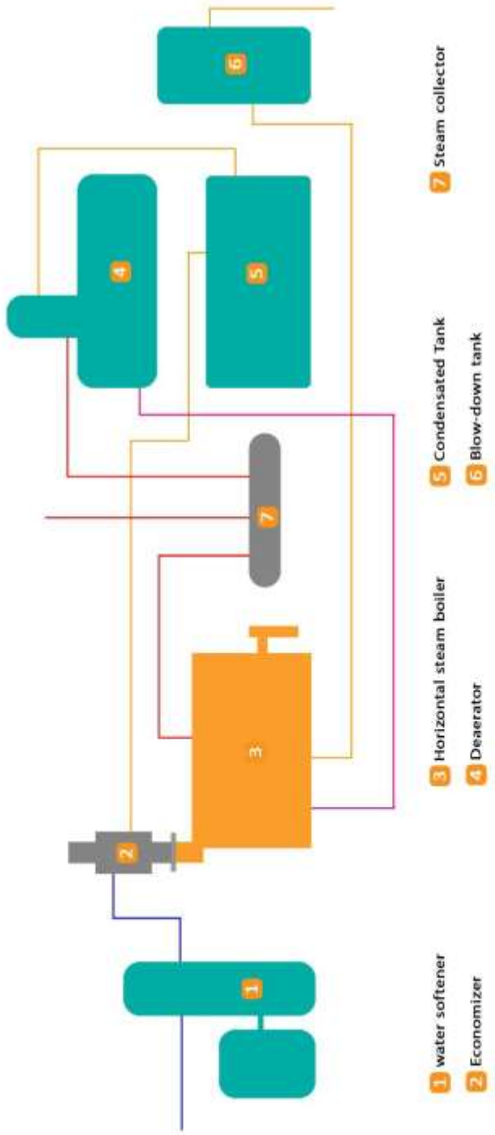
Designed according to the standard of BS2790 and Iranian national standard of ISIRI4231.

Universally applicable with different fuel and multi-fuel firing.

Flexible boiler equipment including, flue gas heat exchanger, water treatment and control system.

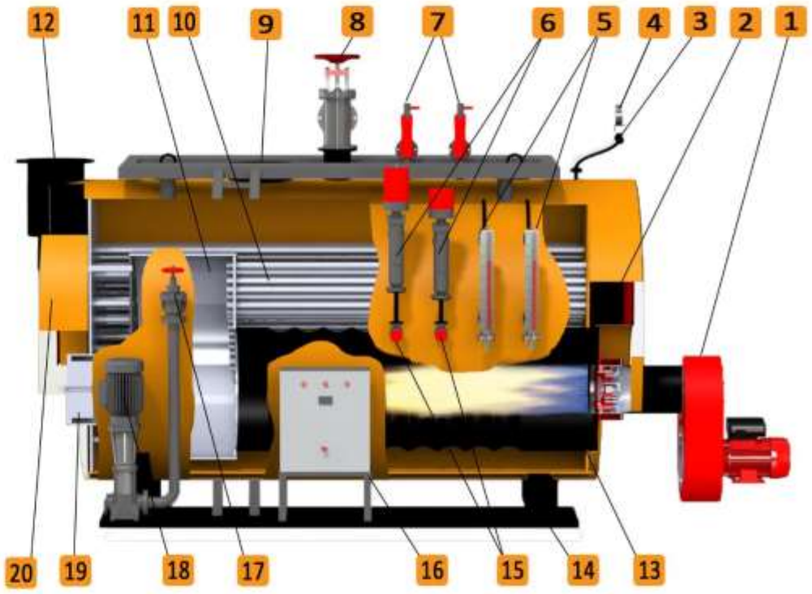
Compatible Product

- Flue Gas heat exchanger
- Condensate services module
- Deaerator module
- Water treatment module
- Economizer module
- Blow-down module
- Steam accumolator module
- Gas line module
- Oil supply module
- Oil circulation module
- oil pressure regulation module
- Oil preheater module
- Compact steam boiler module

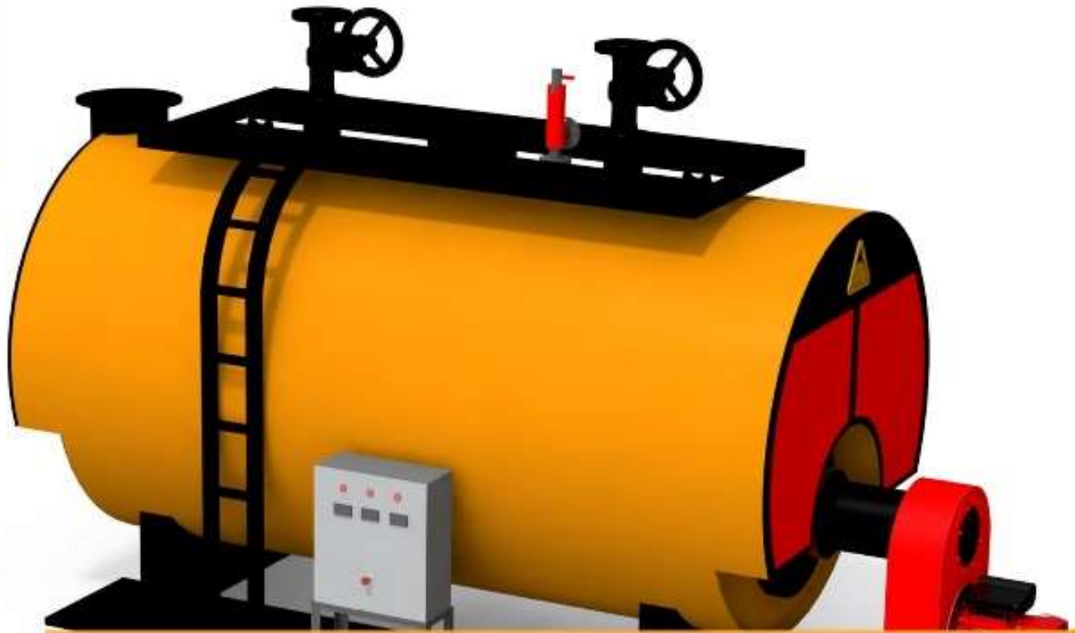


Equipment

We offer the horizontal steam boiler as a complete boiler system including equipment. The basic equipment comprises the boiler pressure vessel, the control and safty components, the burner unit, an integrated economizer, a pump module, and compact control system. The sensors, actuators and country-specific safety equipment are already wired and combined in the terminal box.



1	Burner	11	Wrapper
2	Front smoke box	12	Flue gas
3	Pressure gauge	13	Corrugated furnace
4	Pressure switch	14	Skid
5	Magnetic Sight glass	15	Sequencing valve
6	Magnetic level control	16	Control panel
7	Safty valve	17	Feed water valve
8	Output steam valve	18	Feed water pump
9	Manhole	19	Inspectation sight
10	Smoke tube	20	Rear smoke box

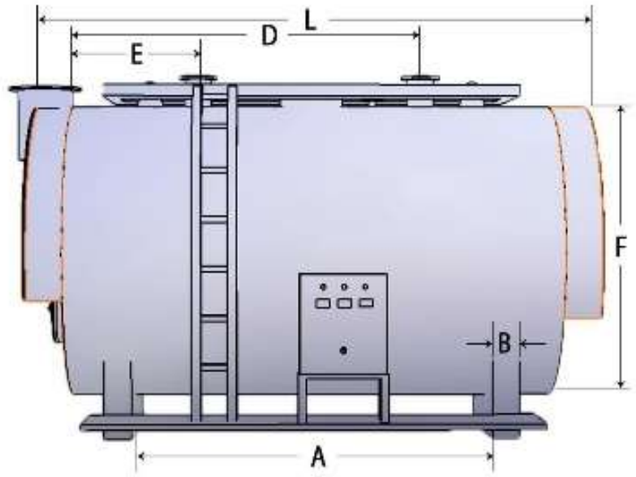


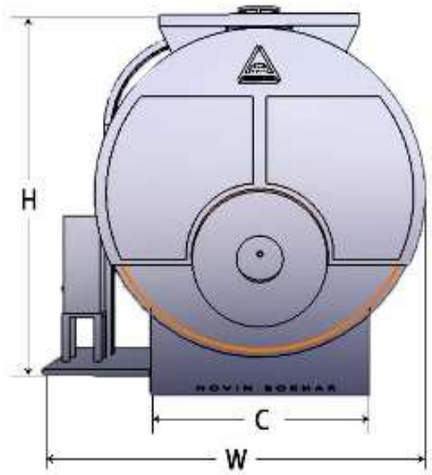
OSVEH INDUSTRIAL GROUP

Compact warm water boiler which could also suitable space. By the unique design of boiler and burner,the emission of NOx is low with high efficiency. So this is ideal for food industries,loundries hotels.

High level efficiency for reduced operational costs

- ✔ High efficiency rating of upto 85% with integrated economizer
- ✔ The integrated economizer used as flue gas heat to reduce fuel consumption and lower the flue gas temperature.
- ✔ Reduce power consumption burner by exclusive fan design which need lower electrical power.
- ✔ low NOx and efficient burner type.





Model		NWW 2	NWW 3	NWW 4	NWW 5	NWW 7	NWW 10	NWW 16	NWW 20
Capacity(kcal/h)	---	200,000	300,000	400,000	500,000	700,000	1,000,000	1,600,000	2,000,000
Length (mm)	L	1340	1450	1600	2000	2840	3320	3440	4110
Width (mm)	W	918	918	1000	1120	1250	1450	1550	2040
Height (mm)	H	1318	1330	1410	1500	1762	1910	2018	2460
External skids distance (mm)	A	700	750	830	1100	1850	2000	2010	3210
External skid width (mm)	B	200	200	200	200	200	200	200	200
External skid length (mm)	C	800	800	890	950	1100	1230	1410	1850
Boiler rear to water inlet (mm)	D	1185	1250	1400	1810	2375	2640	2902	3560
Boiler rear to water outlet (mm)	E	170	172	180	200	565	480	428	440
Shell diameter (mm)	F	918	918	1000	1120	1250	1450	1550	2040
inlet & outlet water valve (in)	---	2 1/2	2 1/2	3	4	4	5	6	6
Safety valve (in)	---	1 1/4	1 1/4	1 1/4	1 1/4	2	2	2	2 1/2
Drain (in)	---	1 1/4	1 1/4	1 1/4	1 1/4	1 1/2	1 1/2	1 1/2	2
Burner (kcal/h)	---	200,000	300,000	400,000	500,000	800,000	1,200,000	1,600,000	2,000,000

Design

The unique design and high amount of smoke tube guarantee a high level of warm water in shorter time that proper for your process.

The high-quality production of the entire boiler body using submerged are welding allows for particularly high level of rubostness and durability.

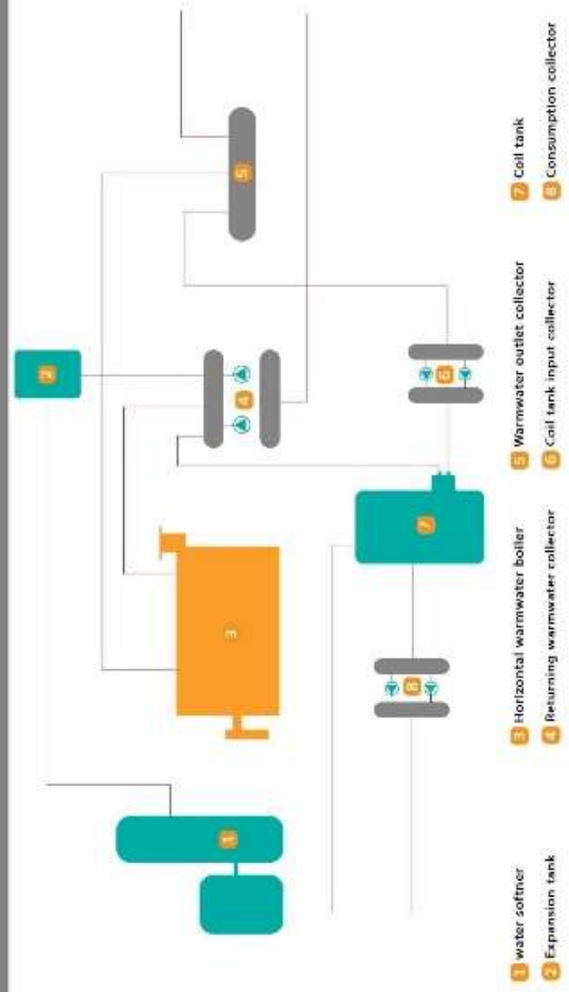
Designed according to the standard of BS855 and Iranian national standard of ISIRI7911.

Universally applicable with different fuel and multi-fuel firing.

Flexible boiler equipment including, expansion tank, water treatment and control system.

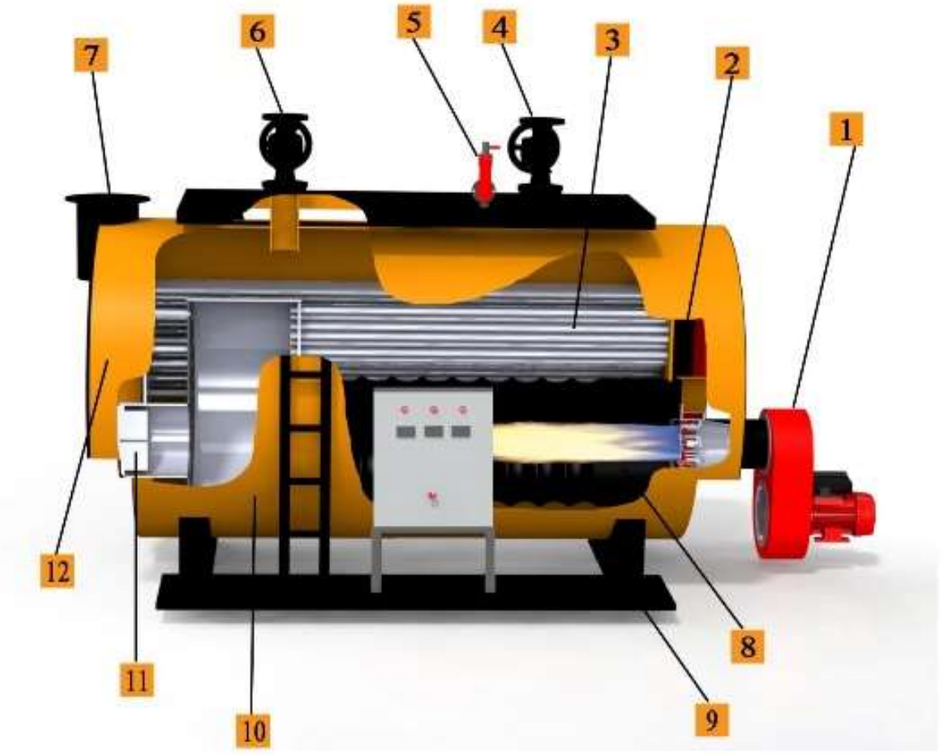
Compatible Product

- Expansion Tank module
- Coil tank module
- Circulation Pump module
- Water treatment module
- Gas line module
- Oil supply module
- Oil circulation module
- oil pressure regulation module
- Oil preheater module
- Heat exchanger module

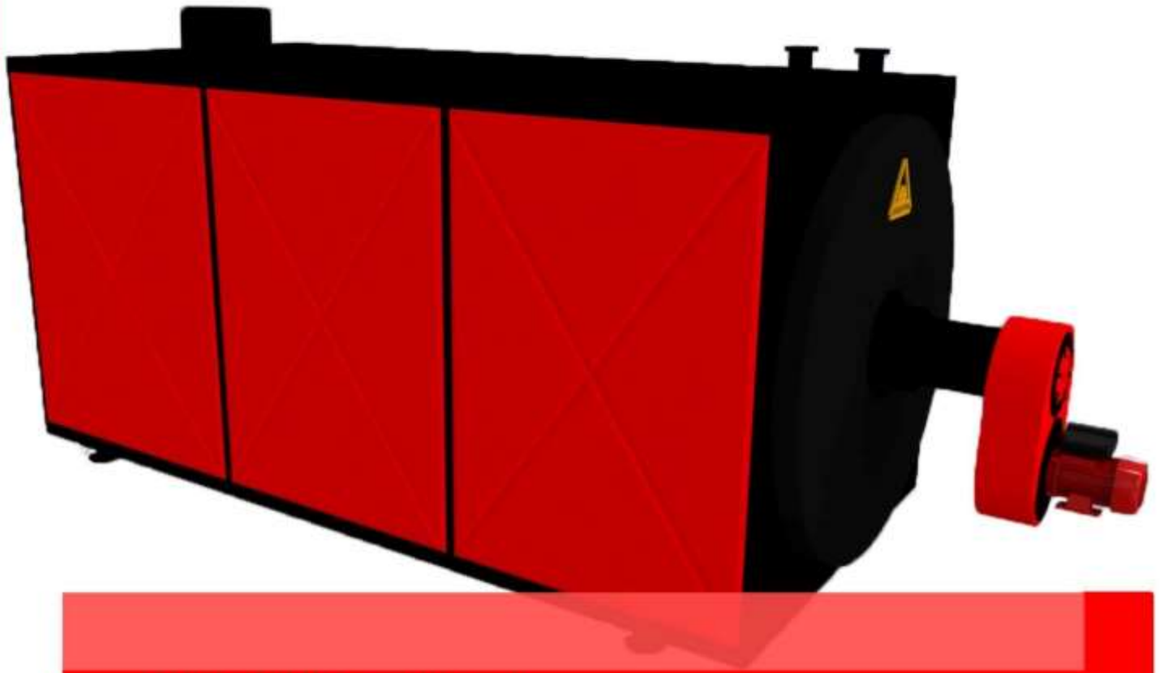


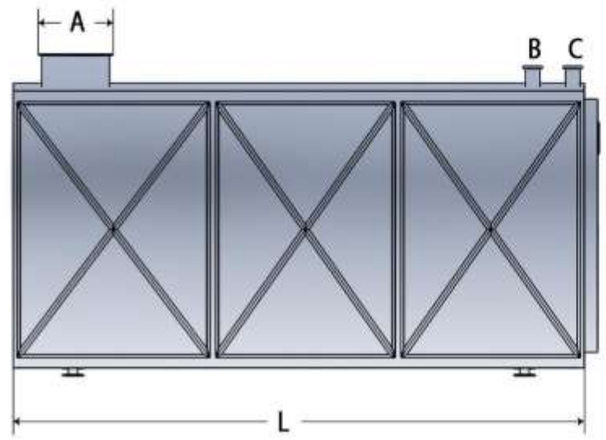
Equipment

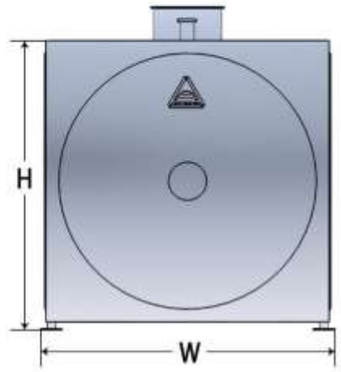
We offer the horizontal warmwater boiler as a complete boiler system including equipment. The basic equipment comprises the boiler presure vessel, the control and safty components, the burner unit, a pump module, and compact control system. The sensors, actuators and country-specific safety equipment are already wired and combined in the terminal box.



1	Burner	7	Flue gas
2	Front smoke box	8	Corrugated furnace
3	Smoke tube	9	Skid
4	Output warmwater valve	10	Cover
5	Safty valve	11	Inspectation sight
6	Returning warmwater valve	12	Rear smoke box







OSVEH THERMAL OIL HEATER

Multi-thread thermaloil heater could provide higher in short time. By the unique designof heater and burner,the emission of NOx is low with high efficiency.So this is ideal for cement,chemical and petroleum,textile,food,bitumen,metal,wood,loundries industry.

High level efficiency for reduced operational costs

- ✓ High efficiency rating of upto 82 - 85%
- ✓ The second or third thread of coil could increase the efficiency and thermal surfaces.
- ✓ Reduce power consumption burner by exclusive fan design which need lower electrical power.
- ✓ low NOx and efficient burner type.

Model		NTOH 0.3	NTOH 0.5	NTOH 0.7	NTOH 1	NTOH 1.5	NTOH 2	NTOH 2.5	NTOH 3	NTOH 4
Capacity (kcal/h)	---	300,000	500,000	700,000	1,000,000	1,500,000	2,000,000	2,500,000	3,000,000	4,000,000
Length (mm)	L	1830	2310	2610	3100	3650	4080	4770	5260	5900
Width (mm)	W	1230	1480	1560	1640	2070	2280	2470	2580	2920
Height (mm)	H	1470	1710	1830	1900	2370	2620	2830	2960	3330
Exhaust Diameter (mm)	A	250	350	420	420	450	500	500	550	600
Inlet (in)	B	2	2 1/2	3	4	4	5	5	6	6
Outlet (in)	C	2	2 1/2	3	4	4	5	5	6	6
Oil volume (lit)	---	250	510	585	820	1835	2675	3820	4880	6850
Oil flowrate (m3/h)	---	20	40	53	67	100	133	173	200	267

Design

The multi-thread and the number of coil pass could increase high efficiency and shorter time of heating oil.

The high-quality production of the entire boiler body using submerged are welding allows for particularly high level of rubostness and durability.

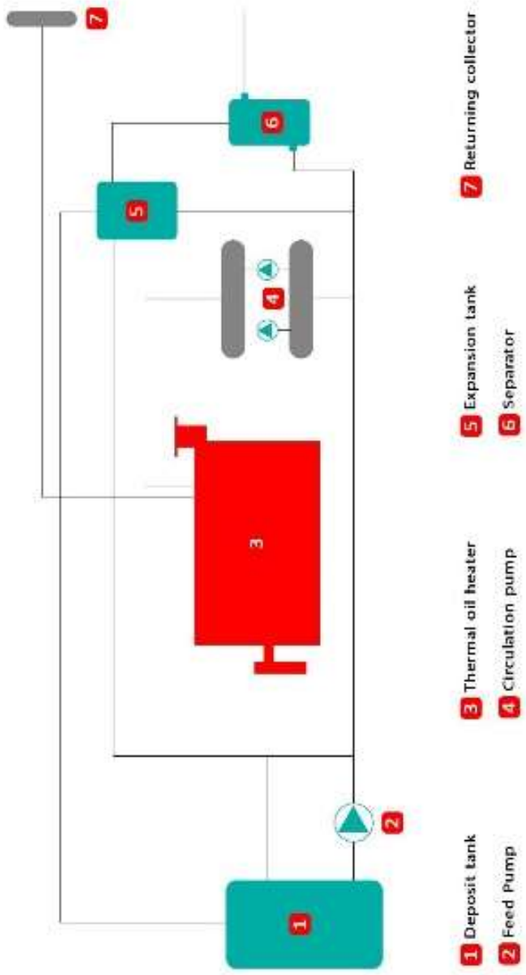
Designed according to the standard of DIN4754.

Universally applicable with different fuel and multi-fuel firing.

Flexible heater equipment including, expansion tank, Separator and control system.

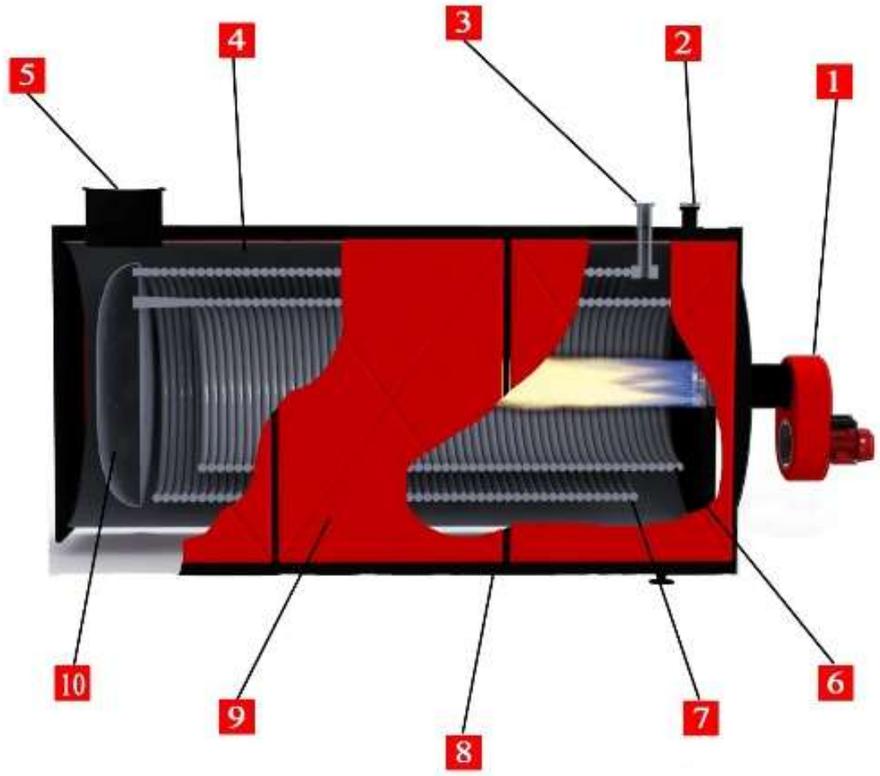
Compatible Product

- Expansion Tank module
- Deposit tank module
- Circulation Pump module
- Separator
- Feed pump module
- Gas line module
- Oil supply module
- Oil circulation module
- oil pressure regulation module
- Oil preheater module



Equipment

We offer the horizontal thermal oil heater as a complete boiler system including equipment. The basic equipment comprises the multi-threads coil, the control and safty components, the burner unit, a circulation pump module, and compact control system. The sensors, actuators and country-specific safety equipment are already wired and combined in the terminal box.



1 Burner	6 Pass 1 coil
2 Oil inlet	7 Pass 2 coil
3 Returning Oil	8 Skid
4 Shell	9 Cover
5 Flue Gas	10 Wrapper

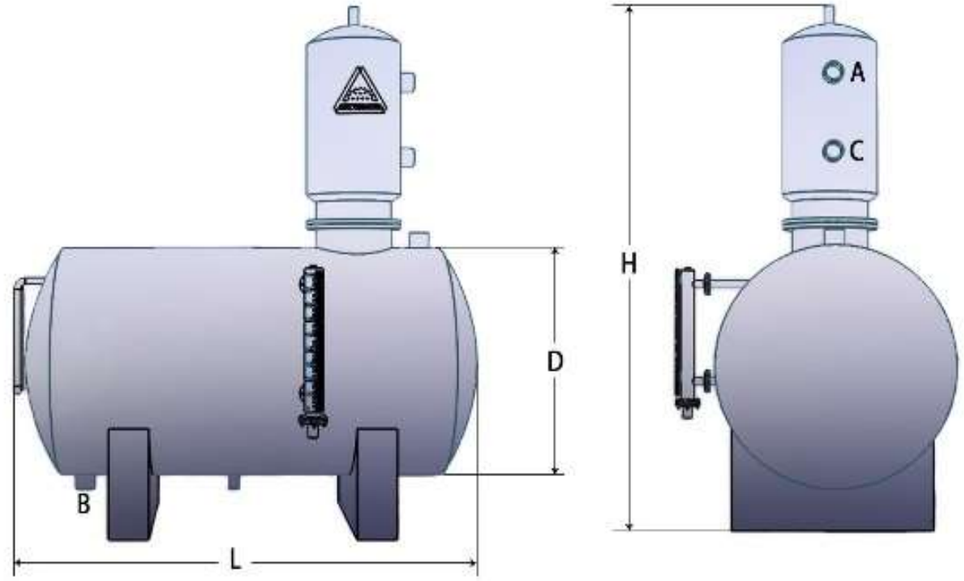


OSVEH DEAERATOR

This system supplies steam boiler with degased feed water. Our Deaerator for steam boiler allow you to equip your system according to your requirments. They assure long services life and high level of efficiency under the specific operation conditions.

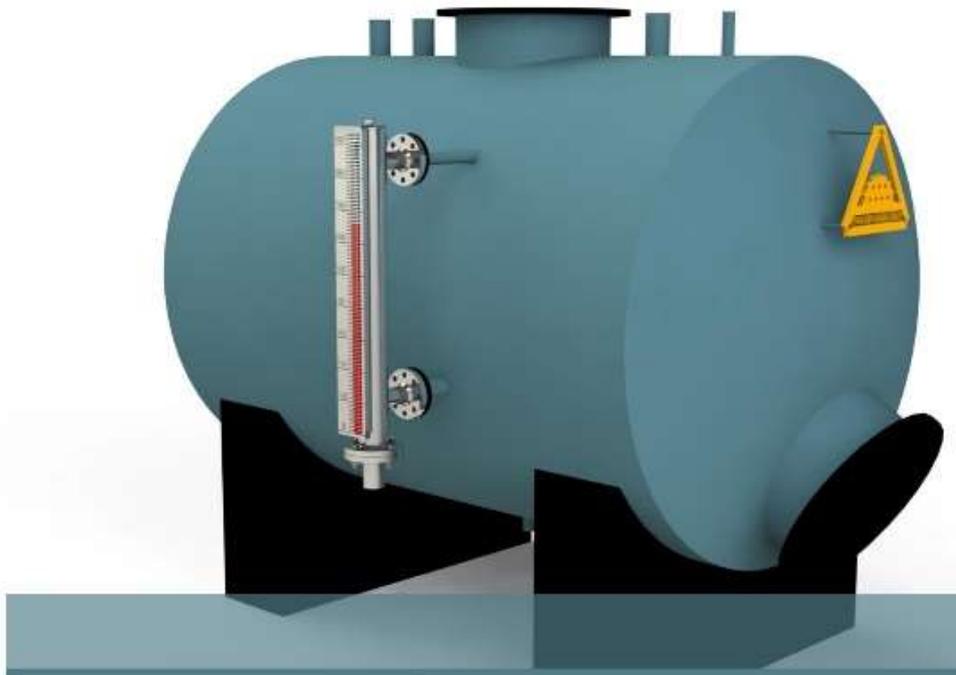
Benefits

- ✔ Increase the steam boiler efficiency.
- ✔ Increase services life of steam boiler.
- ✔ Preheating feed water.
- ✔ Fully-automated electrical control enssure high operational efficiency.
- ✔ Increase the quality of water by removing oxygen from water.



Model		NTD 5	NTD 10	NTD 18	NTD 30	NTD 50	NTD 75	NTD 110	NTD 150
Capacity (Lbs/h)	---	5,000	10,000	18,000	30,000	50,000	75,000	110,000	150,000
Type	---	Tower	Tower	Tower	Tower	Tower	Tower	Tower	Tower
Diameter (mm)	D	1200	955	1200	1200	1590	1590	1900	2200
Length (mm)	L	2350	3000	2650	3300	4500	4800	5300	5500
Height (mm)	H	2400	2880	3500	3820	4200	4400	5200	5400
Water inlet (in)	A	1	1 1/4	1 1/2	1 1/2	2	2	2 1/2	3
Water Outlet (in)	B	2	2	3	5	6	6	6	6
Steam inlet (in)	C	1/2	1	2	5	6	6	8	8

OSVEHBOILER.COM

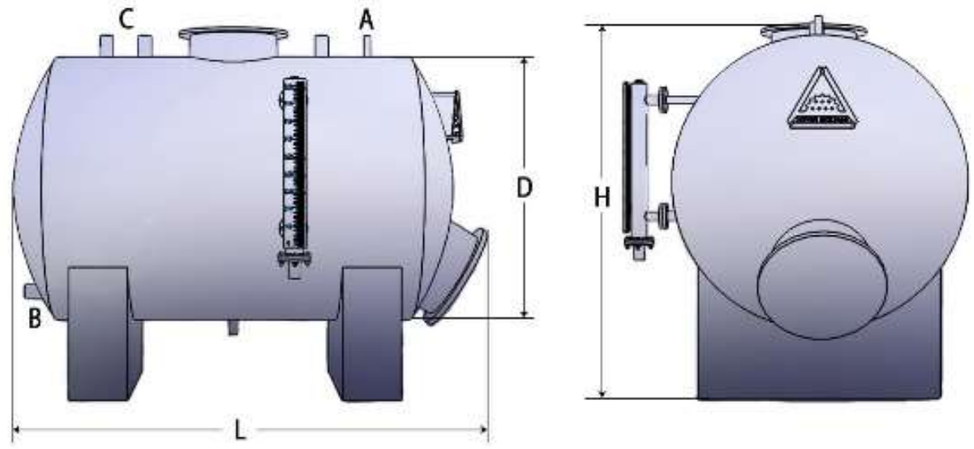


OSVEH Condensate Tank

Condensate tank as recovery stean tank, returning condensate steam to the process. Our condensate tank are compatible with the steam boiler and worked in atmospheric condition.

Benefits

- ✔ Increase efficiency of steam boiler.
- ✔ Decrease in energy and water consumption by reducing make-up water quantities
- ✔ Minimisation of expansion steam losses, desalting and blow-down quantities, less chemical consumption and reduced corrosion potential in the steam-condensate-system when using condensate high-pressure plants



Model		NCT 0.5	NCT 0.8	NCT 1	NCT 2	NCT 3	NCT 4	NCT 5	NCT 6	NCT 7	NCT 8	NCT 9	NCT 10
Capacity (lit)	---	500	800	1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000	10,000
Diameter (mm)	D	800	800	900	1200	1320	1592	1592	1750	1750	1910	1910	1910
Length (mm)	L	1500	1200	1400	1800	1800	2100	2100	2250	2250	2400	2400	2400
Height (mm)	H	2000	2200	2200	2200	2600	2650	3200	2800	3500	3400	3800	4300
Water inlet (in)	A	1	1	1	2	2	3	3	3	3	3	3	3
Water Outlet (in)	B	1 1/2	1 1/2	1 1/2	2	2	3	3	3	3	3	3	3
Condensate inlet (in)	C	1 1/2	1 1/2	1 1/2	2 1/2	2 1/2	3	3	3	3	3	3	3

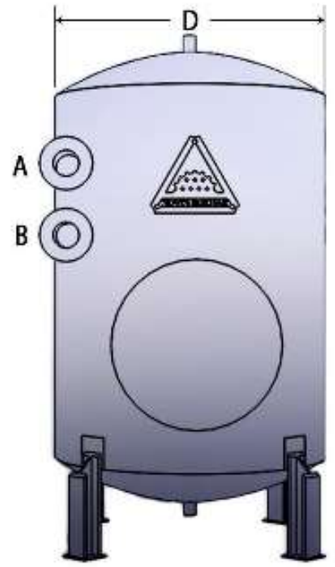


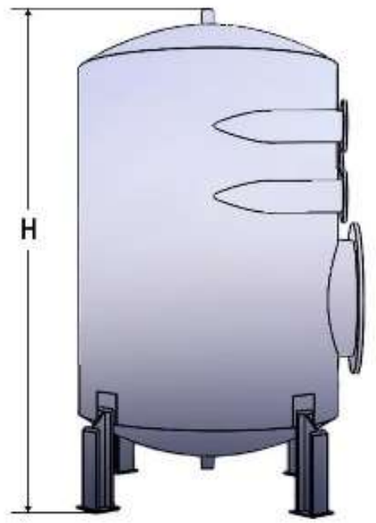
OSVEH blowdown Tank

Blowdown as an alternative are used for cooling bottom boiler blowdown. By venting flash steam the natural convection are cooled the water to discharging. The construction of blowdown was designed by ASME section VIII, Div.1 which is compatible with steam boilers.

Benefits

- ✔ Less feed water consumption.
- ✔ Less chemical treatment.
- ✔ Higher heating efficiency.
- ✔ Reduced maintenance and repair costs.
- ✔ Cleaner and more efficient steam.
- ✔ Minimized energy loss from boiler blowdown.





Model		NBT 0.3	NBT 0.8	NBT 1	NBT 1.5	NBT 2	NBT 2.5	NBT 3	NBT 4
Capacity (lit)	---	300	800	1000	1500	2000	2500	3000	4000
Diameter (mm)	D	600	800	900	1100	1200	1300	1200	1600
Height (mm)	H	1550	2200	2200	2200	2200	2300	3300	2500
Working pressure (atm)	---	1	1	1	1	1	1	1	1
Water inlet 1 (in)	A	1	1	1	1	2	2	2	2
Water inlet 2 (in)	B	1	1	1	1	2	2	2	2

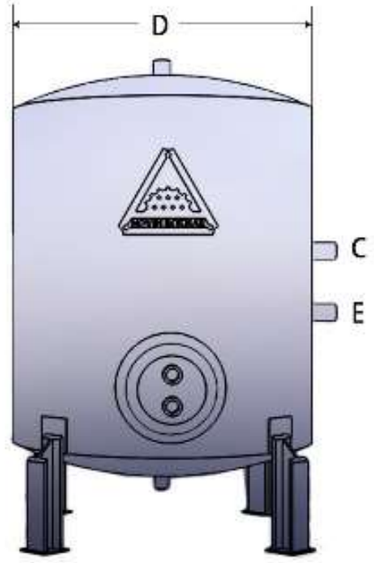


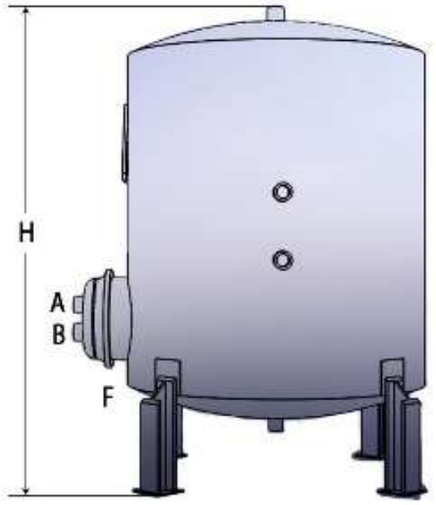
OSVEH Hot Water Tank

Domestic hot water tank are used for supplying hot water consumption demand. This equipment are applicable for hospitals, sports complex, hotels, appartments blocks and similar large buildings.

Benefits

- ✔ Reducing the amount of hot water used.
- ✔ Reduced operational costs
- ✔ Increase energy efficiency.
- ✔ Compatible with warm water boiler and flexibly desiged by the consumption rate.





Model		NDHW 0.3	NDHW 0.4	NDHW 0.8	NDHW 1	NDHW 1.5	NDHW 2	NDHW 3	NDHW 4	NDHW 5	NDHW 6
Capacity (lit)	–	300	400	800	1,000	1,500	2,000	3,000	4,000	5,000	6,000
Diameter (mm)	D	609	609	800	955	1100	1200	1320	1600	1600	1750
Height (mm)	H	1500	1600	2200	1950	2200	2200	2700	2500	3000	3100
Hot water Inlet (in)	A	3	3	3	3	3	3	3	4	4	4
Hot water outlet (in)	B	3	3	3	3	3	3	3	4	4	4
Service water inlet (in)	C	1	1	1	1 1/4	1 1/4	2	2	2	2 1/2	3
Service water outlet (in)	E	1 1/4	1 1/4	1 1/4	1 1/2	1 1/2	1	2 1/2	2 1/2	3	4
Coil entrance (in)	F	10	10	12	14	14	14	14	16	16	16

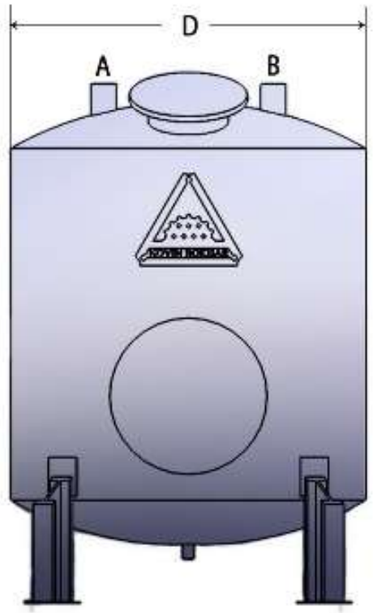


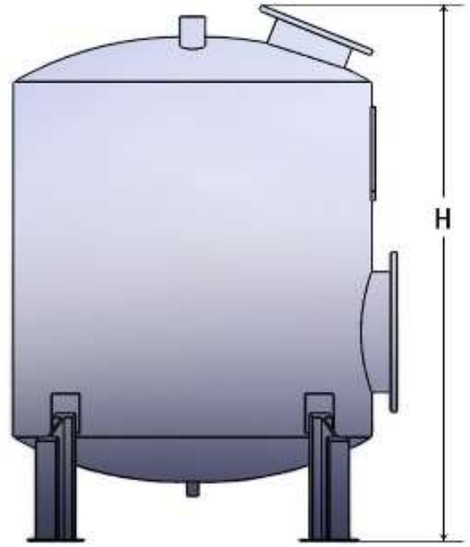
OSVEH Sand Filter

Sand filter is used to remove suspended solid from water. This system consist of multiple layer of sand different size and specific weight. Our sand filter was designed for different size of steam boiler to purify water and compatible with another water treatment modules.

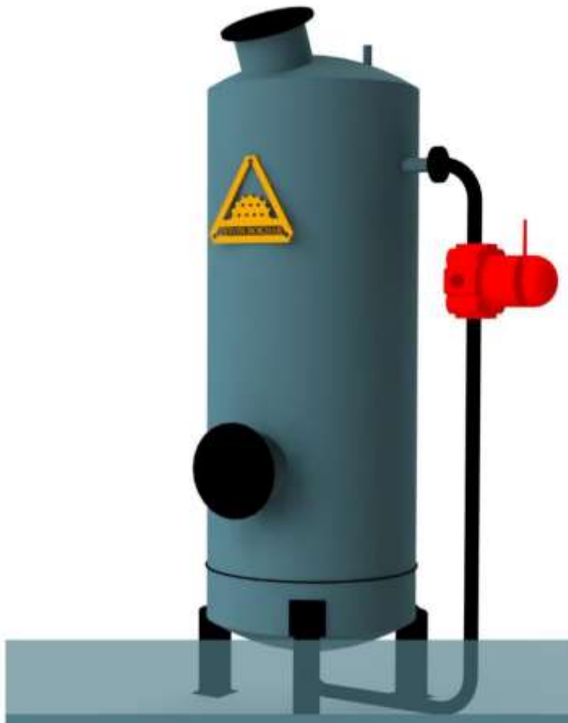
Benefits

- ✔ Treatment and purify of feed water.
- ✔ Pre-filteration for other water treatment modules.
- ✔ Filteration of gray and ground water.
- ✔ Increase the services life of steam boiler.





Model		NSF 21	NSF 38	NSF 70	NSF 90	NSF 135	NSF 185	NSF 245	NSF 300	NSF 325	NSF 470
Capacity (gpm)	---	21	38	70	90	135	185	245	300	325	470
Diameter (mm)	D	600	800	1100	1250	1500	1750	2000	2250	2500	3000
Height (mm)	H	1600	1800	2300	2400	2500	3000	3000	3000	3000	3000
Water inlet 1 (in)	A	1 1/4	1 1/2	2	2 1/2	3	4	5	5	5	6
Water Outlet (in)	B	1 1/4	1 1/2	2	2 1/2	3	4	5	5	5	6

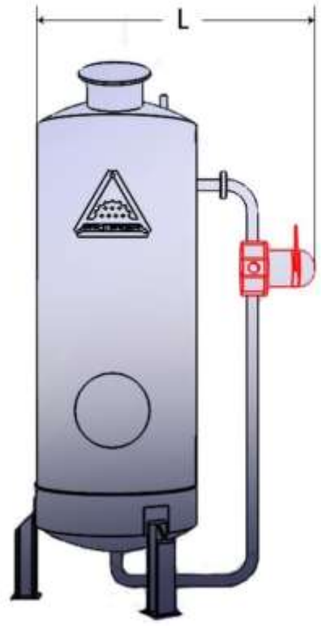


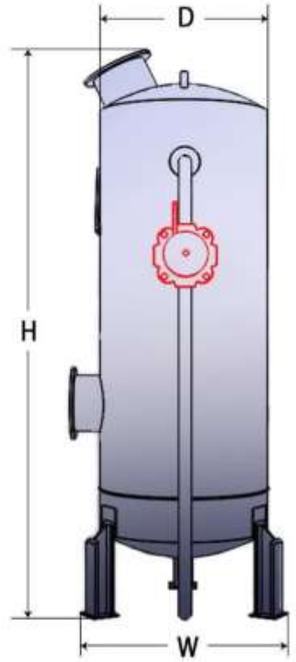
OSVEH Water Softner

Water softener is used to removal magnesiun and calsium from feed water. This system increase the efficiency and long life services. Our water softner designed accoeding to the size of steam boiler to compatibly worked with that.

Benefits

- ✔ Fast and easing planning, installation and acceptance.
- ✔ No need for positive suction head, ground level installation.
- ✔ Ready for operation with just a few connections.
- ✔ Easy commissioning, maintenance and operation.
- ✔ Trouble-free and reliable boiler and system operation.





Model		NWS 3	NWS 6	NWS 9	NWS 12	NWS 15	NWS 18	NWS 21	NWS 24	NWS 30	NWS 36	NWS 45
Capacity (grain)	--	30,000	60,000	90,000	120,000	150,000	180,000	210,000	240,000	300,000	360,000	450,000
Length (mm)	L	560	560	580	790	830	880	880	960	950	950	1300
Width (mm)	W	450	450	500	650	700	740	740	790	780	780	890
Height (mm)	H	1350	1900	2150	1850	1850	1850	2000	1950	2050	2250	2450
Vessel diameter (mm)	D	270	270	300	400	450	500	500	550	600	600	650
Resin Bed height (mm)	A	440	870	1060	800	790	760	890	840	890	1060	1130
Resin volume (lit)	--	25	50	75	100	125	150	175	200	250	300	375
Silica Bed height (mm)	B	3 * 70	3 * 70	3 * 70	3 * 70	3 * 70	3 * 70	3 * 70	3 * 70	3 * 70	3 * 100	3 * 100
Silica weight (kg)	--	21	21	24	45	54	69	69	81	99	138	165
Total Pressure drop (kPa)	--	8.2	31.2	44.3	26.7	25.5	23.8	32.8	29.8	32.3	47.8	53.8

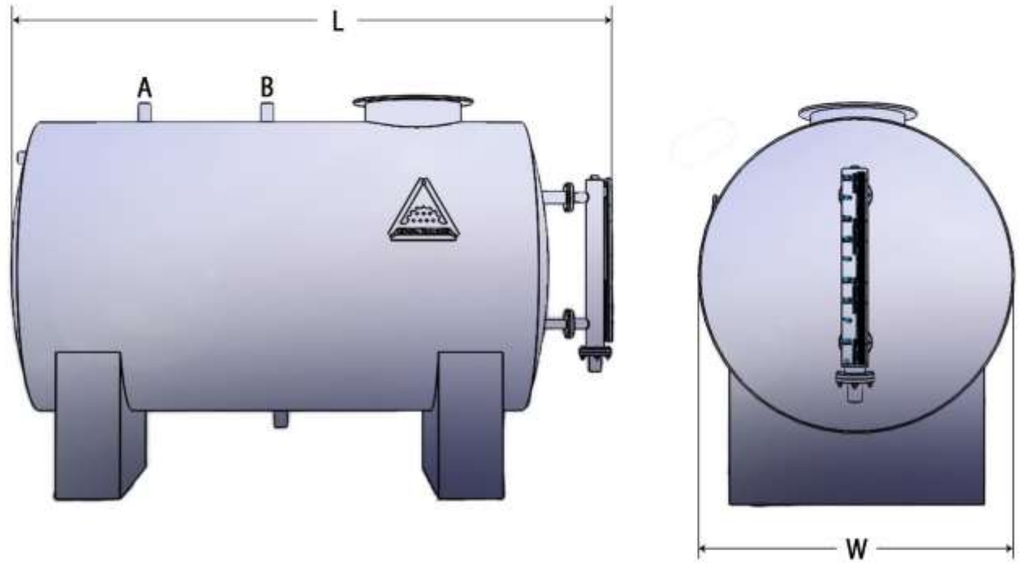


OSVEH Expantion Tank

Expansion tank is provided in hot oil system to accommodate for the increased thermic fluid volume due to thermal expansion. Our expansion tanks are designed and manufactured under ASME Section VIII, Division I U Stamp.

Benefits

- ✔ Quick and easy assembly, ready for immediate operation with few connections.
- ✔ Exact compliance with official guidelines thanks to automatic operating mode.
- ✔ Increase in efficiency of the system.
- ✔ Reduced fuel and oil costs.



Model		NOET 0.8	NOET 1	NOET 1.5	NOET 2	NOET 3	NOET 4	NOET 5	NOET 6	NOET 7	NOET 8	NOET 9	NOET 10
Capacity (lit)	--	800	1000	1500	2000	3000	4000	5000	6000	7000	8000	9000	10000
Diameter (mm)	D	800	955	1100	1200	1320	1590	1590	1750	1750	1910	1910	1910
Length (mm)	L	2200	2000	2200	2200	2600	2650	3200	3300	3500	3400	3800	4300
Working pressure (atm)	---	1	1	1	1	1	1	1	1	1	1	1	1
Oil inlet (in)	A	1	1	1 1/2	1 1/2	2	3	3	3	3	3	3	3
Oil outlet (in)	B	1	1	1 1/2	1 1/2	2	3	3	3	3	3	3	1

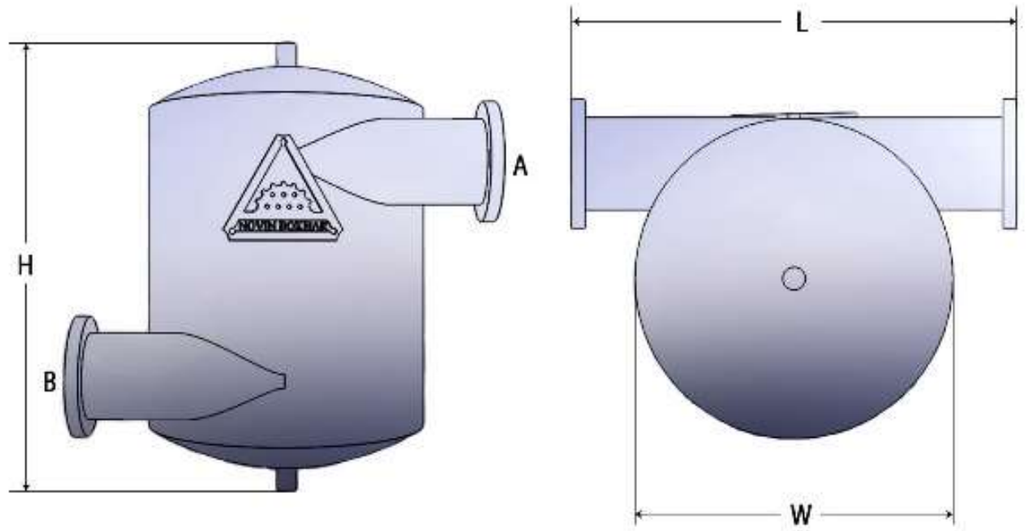


OSVEH Gas Separator

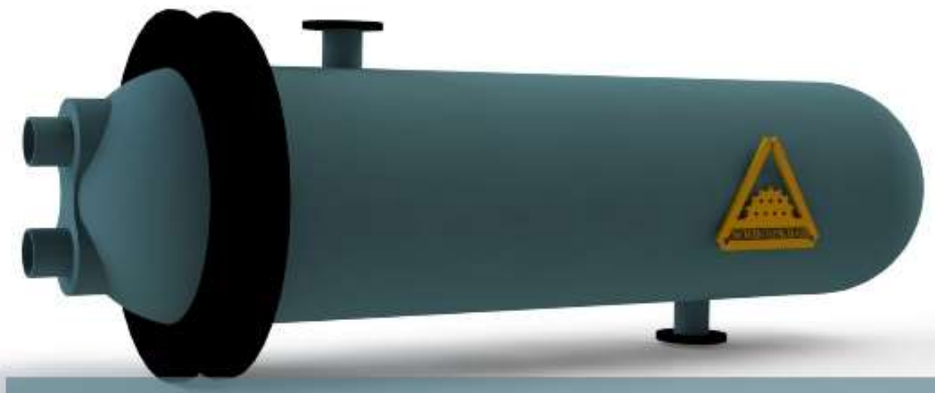
Oil separator is used to separate gas from heating oil. Natural centrifugal forces allow the hevier gas-free oil toward the outer edges. This module is compulsory for thermal oil heater to increase the efficiency and long life services.

Benefits

- ✔ Increase Thermal efficiency.
- ✔ Lower operational costs.
- ✔ Increase the life services time.
- ✔ Protected againist the noise, blockage and damage.



Model		NOGS 3	NOGS 5	NOGS 7	NOGS 13	NOGS 20	NOGS 44
Oil flowrate (gpm)	--	300	500	700	1300	2000	4400
Diameter (mm)	D	324	406	457	800	800	1200
Length (mm)	L	600	700	650	1150	1150	1600
Height (mm)	H	500	660	800	1000	1300	1800
Oil inlet (in)	A	4	5	6	8	10	16
Oil outlet (in)	B	4	5	6	8	10	16



OSVEH Heat Exchanger

A heat exchanger is a system used to transfer heat between two or more fluids. Our heat exchanger is designed to provide the specific amount of heat by the request of the consumptions.

Benefits

- ✓ Smaller spatial footprint.
- ✓ Lower environmental impact.
- ✓ Minimal operating costs.
- ✓ Low maintenance costs.
- ✓ High security in aseptic processes.
- ✓ Easy inspection and disassembly.

Design

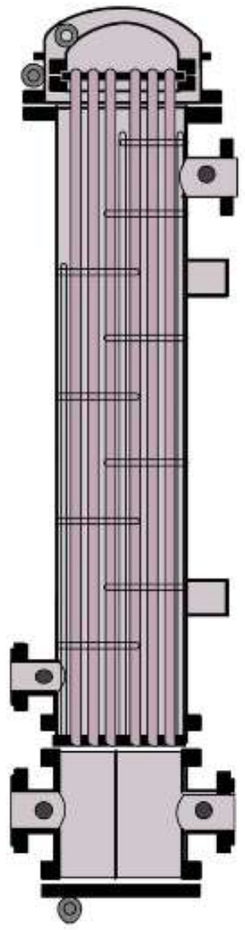
We design and manufacture products based on the project sent by our customers or according to customer requirements. Calculations, designs and projections according to customer demand and in accordance with ASME Code Section VIII Div 1 and 2 (American Society Mechanical Engineers), API 661, API 650 (American Petroleum Institute), TEMA (Tubular Exchanger Manufacturers Association), AD-MERKBLAATTER, CODAT, DIN, EN 13445, PED 2014/68 / AB and TSE. If the standards are not specified, we use ASME VIII Div 1 for pressure vessels and TEMA for heat exchangers and API 661 for radiators. At the same time, it is ensured that project controls and productions are carried out according to these standards.

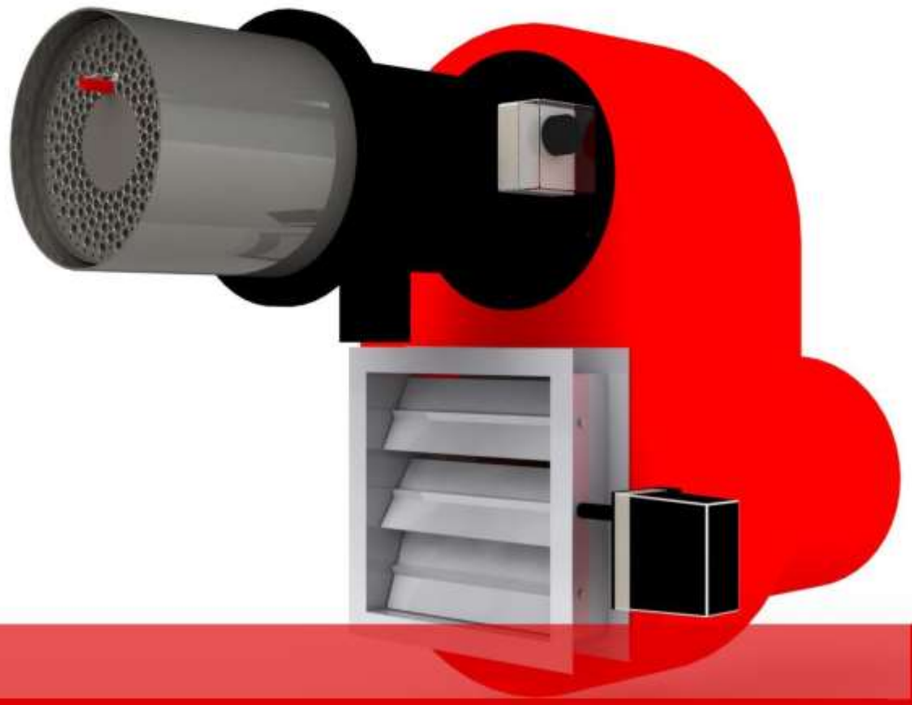
Housing Applications

- Floor Heating
- Pools
- Spas
- Domestic Water
- Solar Heating

Industrial Applications

- Oil Cooling
- Steam Condense
- Central Heating
- Motor Cooling
- Waste Water Heat Recovery



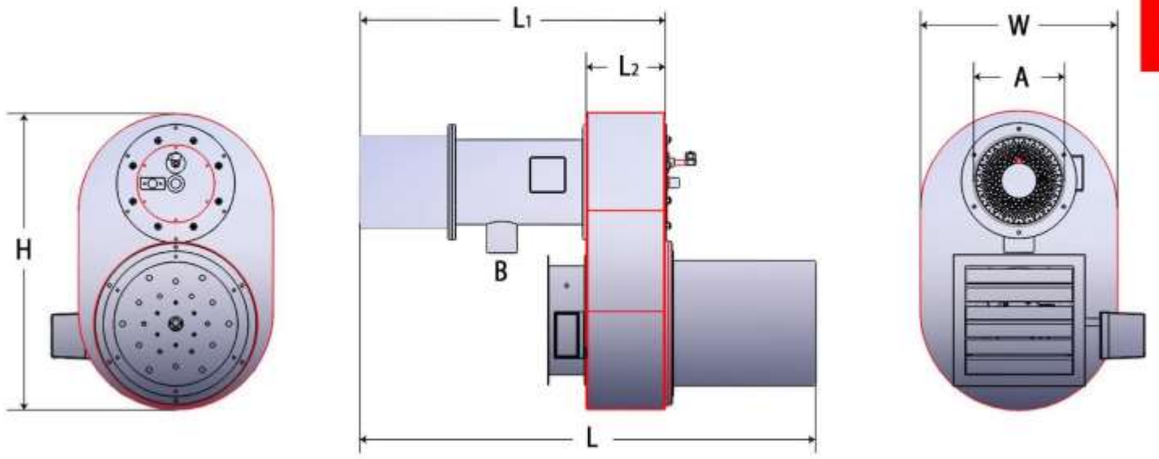


OSVEH Gas Burner

The gas burner of NovinBokhar is used for steam boiler, warm water boiler, thermal oil heater and other system. By the unique housing of our burner, the electrical power and fuel consumtion, significantly decreased. The new air diffuser system of the burner provide high efficient and low NOx heating fire.

High level efficiency for reduced operational costs

- ✔ High efficiency rating of upto 86%.
- ✔ Fully-automated controlling system.
- ✔ Low NOx and environmental friendly system.
- ✔ Unique housing system which could provide long fire with high thermal conversion.



Model		AGB 0.5	AGB 0.8	AGB 1.2	AGB 1.6*	AGB 2	AGB 2.5	AGB 3	AGB 4	AGB 7
Capacity (kcal/hr)	---	500,000	800,000	1,200,000	1,600,000	2,000,000	2,500,000	3,000,000	4,000,000	7,000,000
Type	---	Backward	Backward	Backward	Backward	Backward	Backward	Backward	Backward	Backward
Height (mm)	H	640	640	840	840	840	840	1015	1015	1185
Width (mm)	W	445	445	560	560	560	560	690	690	790
Length 1 (mm)	L_1	600	600	795	795	795	795	960	960	1210
Housing length (mm)	L_2	150	150	220	220	220	220	260	260	300
Total Length (mm)	L	900	900	1115	1115	1115	1115	1310	1310	1670
mounting plate diameter (mm)	A	160	160	250	250	250	250	300	300	320
Gas inlet pipe size (in)	B	1 1/2	1 1/2	2	2	2	2	2 1/2	2 1/2	3
Minimum gas line pressure (mbar)	---	32	48	59	70	85	95	105	140	150
Fan motor speed (rpm)	---	2890	2890	2890	2890	2890	2890	2890	2890	2890
Electrical power supply phase	---	3	3	3	3	3	3	3	3	3
Fan electrical motor power (kw)	---	1.1	2.2	3	3	3	3	4	5.5	7.5
Minimum gas Flowrate (m^3/h)	---	50	80	120	160	200	250	300	400	700

Design

Unique husing of burner provide high efficient burning fire.

Using air register adjustment leads revolving fire.

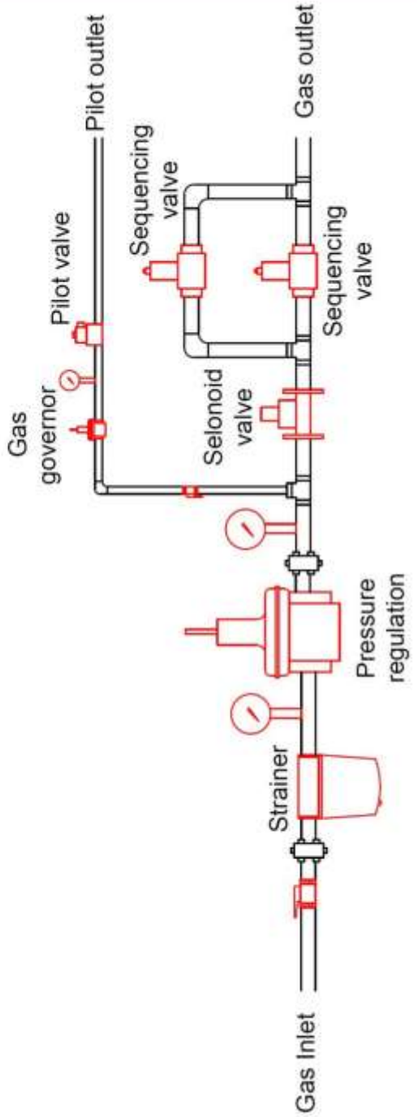
Using damper on the boiler side could pre-heating the inlet air.

Flexible design which is camplatible with different heating system.

The unique design of the fan cuase using smaller electromotor with lower consuming power.

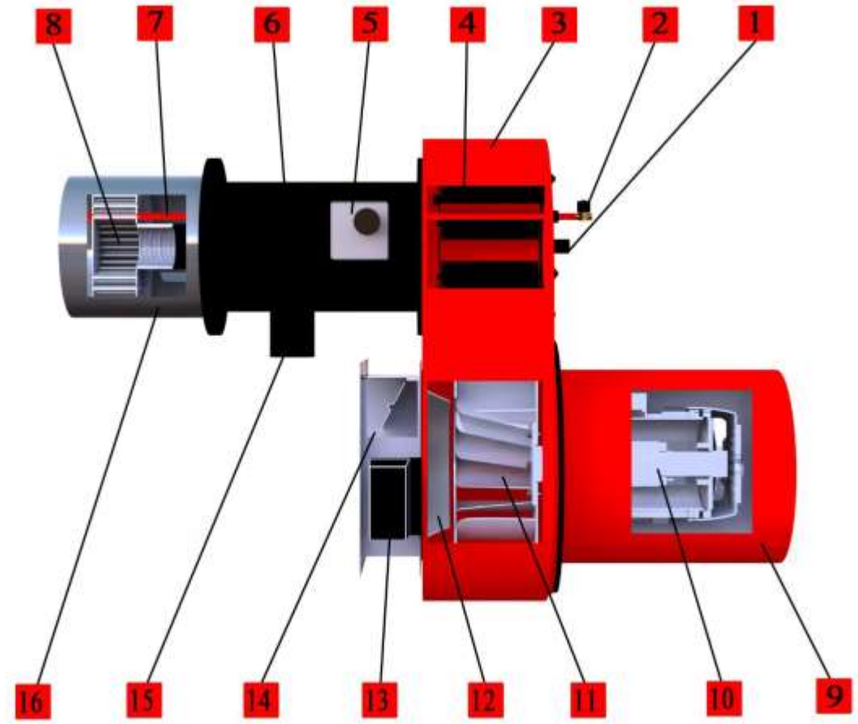
Compatible Product

- Steam Boiler
- Warm Water Boiler
- Condensate Boiler
- Hot water boiler
- Thermal oil heater
- Fire box
- Super heater
- Melting furnace
- Corrugating furnace system
- Post Weld Heat Treatment



Equipment

Burners Equipment know-how is based on long and excellent experiences in Boiler engineering. NovinBokhar warranty is to secure to Clients full satisfaction providing efficient and reliable design and equipment. Burners equipment are engineered on job by job basis employing a team of specialized engineers. NovinBokhar is close to Client's requirements and provides full support, detailed and complete technical documentation for the installation of the equipment supplied.



1	UVZ	9	Electromotor cover
2	Pilot valve	10	Electromotor
3	Body	11	Fan
4	Air register	12	Air venture
5	Air pressure	13	Damper motor
6	Burner Neck	14	Air inlet box
7	Pilot	15	Gas inlet
8	Air diffuser	16	Mounting plate

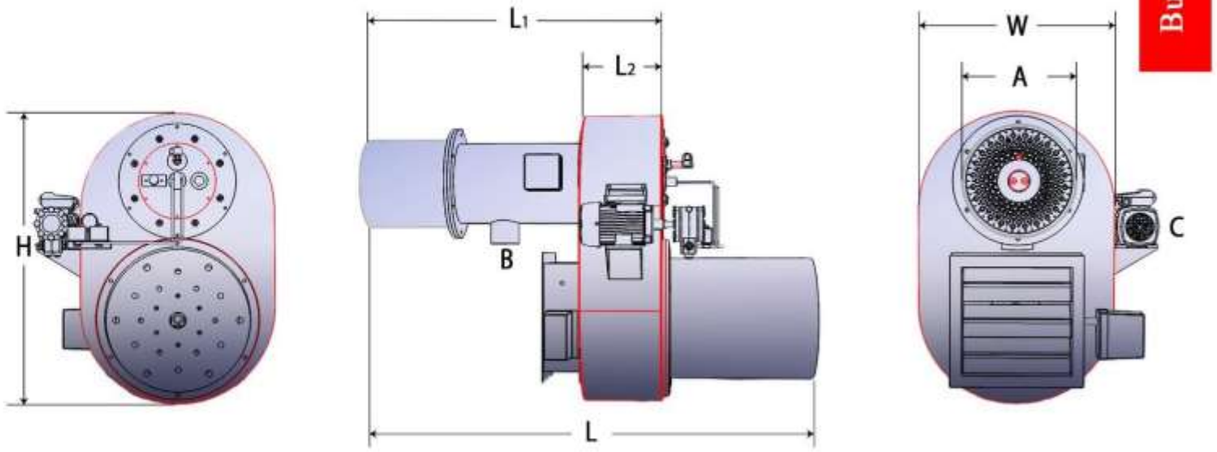


OSVEH Oilgas Burner

The oilgas burner of NovinBokhar is used for steam boiler, warm water boiler, thermal oil heater and other system. By the unique housing of our burner, the electrical power and fuel consumtion, significantly decreased. The new air diffuser system of the burner provide high efficient and low NOx heating fire.

High level efficiency for reduced operational costs

- ✓ High efficiency rating of upto 86%.
- ✓ Fully-automated controlling system.
- ✓ Low NOx and environmental friendly system.
- ✓ Unique housing system which could provide long fire with high thermal conversion.



Model		AOGB 0.5	AOGB 0.8	AOGB 1.2	AOGB 1.6*	AOGB 2	AOGB 2.5	AOGB 3	AOGB 4	AOGB 7
Capacity (kcal/hr)	---	500,000	800,000	1,200,000	1,600,000	2,000,000	2,500,000	3,000,000	4,000,000	7,000,000
Type	---	Backward	Backward	Backward	Backward	Backward	Backward	Backward	Backward	Backward
Height (mm)	H	640	640	840	840	840	840	1015	1015	1185
Width (mm)	W	445	445	560	560	560	560	690	690	790
Length 1 (mm)	L_1	600	600	795	795	795	795	960	960	1210
Housing length (mm)	L_2	150	150	220	220	220	220	260	260	300
Total Length (mm)	L	900	900	1115	1115	1115	1115	1310	1310	1670
mounting plate diameter (mm)	A	160	160	250	250	250	250	300	300	320
Gas inlet pipe size (in)	B	1 1/2	1 1/2	2	2	2	2	2 1/2	2 1/2	3
Minimum gas line pressure (mbar)	---	32	48	59	70	85	95	105	140	150
Fan motor speed (rpm)	---	2890	2890	2890	2890	2890	2890	2890	2890	2890
Electrical power supply phase	---	3	3	3	3	3	3	3	3	3
Fan electrical motor power (kw)	---	1.1	2.2	3	3	3	3	4	5.5	7.5
Minimum gas Flowrate (m^3/h)	---	50	80	120	160	200	250	300	400	700
Oil pump type	---	AN77	AJ6	J6	E6	E6	E7	E7	E7	TA2

Design

Unique husing of burner provide high efficient burning fire.

Using air register adjustment leads revolving fire.

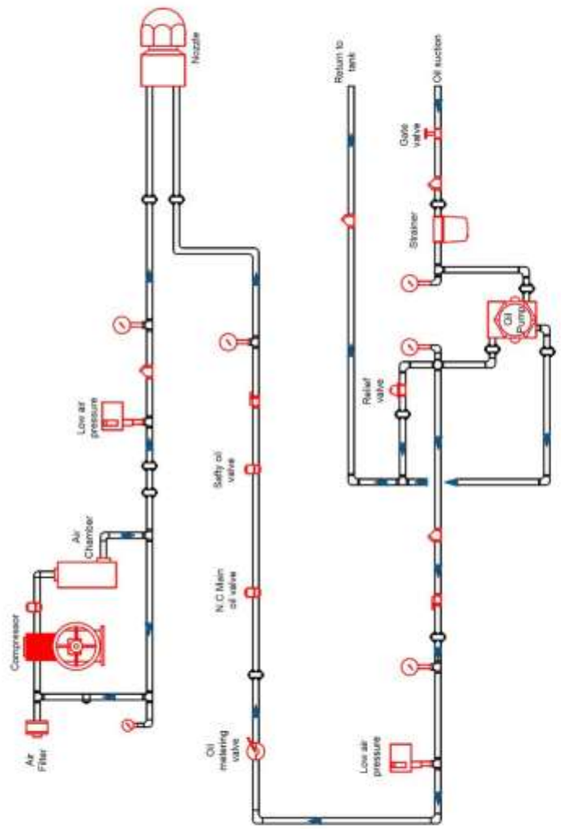
Using damper on the boiler side could pre-heating the inlet air.

Flexible design which is camplatible with different heating system.

The unique design of the fan cuase using smaller electromotor with lower consuming power.

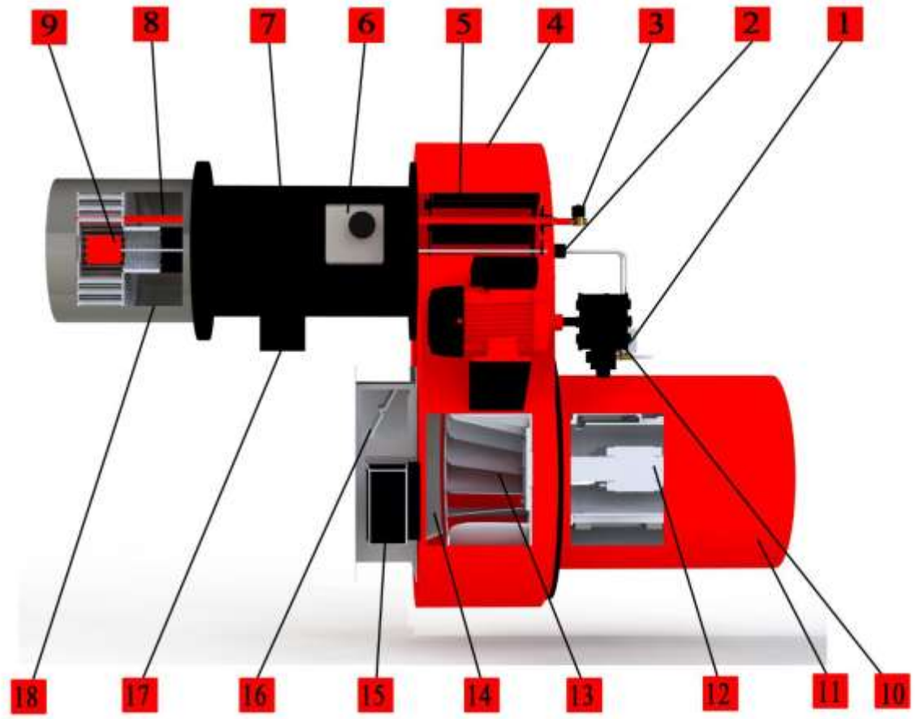
Compatible Product

- Steam Boiler
- Warm Water Boiler
- Condensate Boiler
- Hot water boiler
- Thermal oil heater
- Fire box
- Super heater
- Melting furnace
- Corrugating furnace system
- Post Weld Heat Treatment

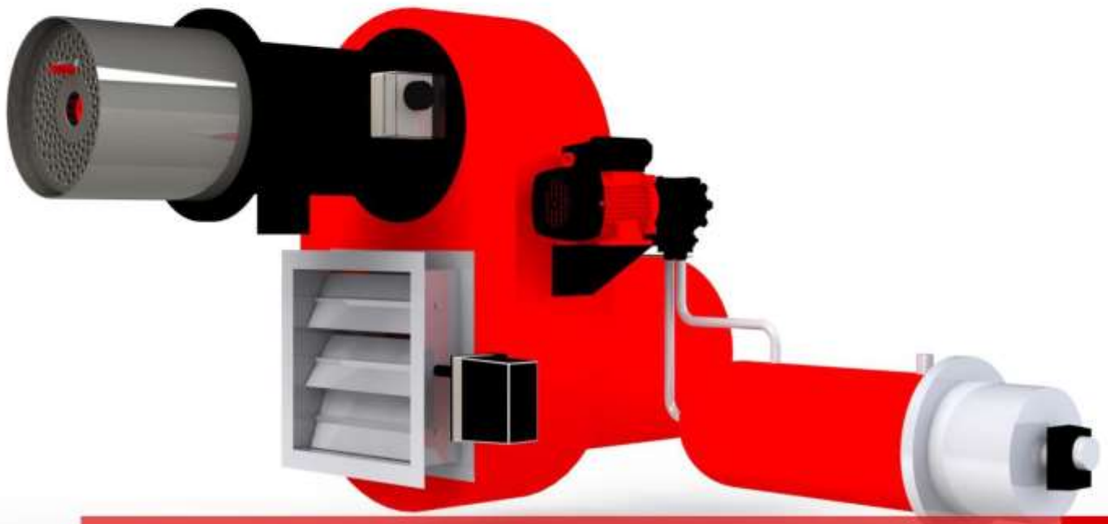


Equipment

Burners Equipment know-how is based on long and excellent experiences in Boiler engineering. NovinBokhar warranty is to secure to Clients full satisfaction providing efficient and reliable design and equipment. Burners equipment are engineered on job by job basis employing a team of specialized engineers. NovinBokhar is close to Client's requirements and provides full support, detailed and complete technical documentation for the installation of the equipment supplied.



1	Gasoil Selonid Valve	10	Gasoil pump
2	UVZ	11	Electromotor Cover
3	Pilot valve	12	Electromotor
4	Body	13	Fan
5	Air register	14	Air venture
6	Air pressure	15	Damper Motor
7	Burner Neck	16	Air inlet box
8	Pilot	17	Gas inlet
9	Gasoil nuzzle	18	Mounting plate

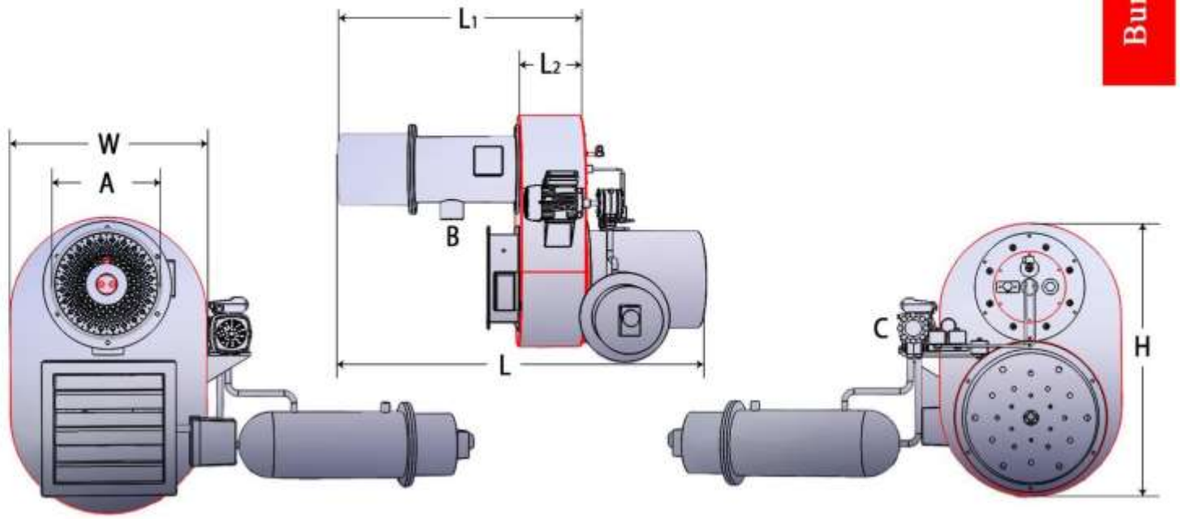


OSVEH Mazot Burner

The mazot burner of NovinBokhar is used for steam boiler, warm water boiler, thermal oil heater and other system. By the unique housing of our burner, the electrical power and fuel consumtion, significantly decreased. The new air diffuser system of the burner provide high efficient and low NOx heating fire.

High level efficiency for reduced operational costs

- ✓ High efficiency rating of upto 86%.
- ✓ Fully-automated controlling system.
- ✓ Low NOx and environmental friendly system.
- ✓ Unique housing system which could provide long fire with high thermal conversion.



Model		AGMB 0.5	AGMB 0.8	AGMB 1.2	AGMB 1.6*	AGMB 2	AGMB 2.5	AGMB 3	AGMB 4	AGMB 7
Capacity (kcal/hr)	---	500,000	800,000	1,200,000	1,600,000	2,000,000	2,500,000	3,000,000	4,000,000	7,000,000
Type	---	Backward	Backward	Backward	Backward	Backward	Backward	Backward	Backward	Backward
Height (mm)	H	640	640	840	840	840	840	1015	1015	1185
Width (mm)	W	445	445	560	560	560	560	690	690	790
Length 1 (mm)	L_1	600	600	795	795	795	795	960	960	1210
Housing length (mm)	L_2	150	150	220	220	220	220	260	260	300
Total Length (mm)	L	900	900	1115	1115	1115	1115	1310	1310	1670
mounting plate diameter (mm)	A	160	160	250	250	250	250	300	300	320
Gas inlet pipe size (in)	B	1 1/2	1 1/2	2	2	2	2	2 1/2	2 1/2	3
Minimum gas line pressure (mbar)	---	32	48	59	70	85	95	105	140	150
Fan motor speed (rpm)	---	2890	2890	2890	2890	2890	2890	2890	2890	2890
Electrical power supply phase	---	3	3	3	3	3	3	3	3	3
Fan electrical motor power (kw)	---	1.1	2.2	3	3	3	3	4	5.5	7.5
Minimum gas Flowrate (m^3/h)	---	50	80	120	160	200	250	300	400	700
Oil pump type	℮-	E6	E6	E6	E6	E7	E7	E7	TA2	TA3

Design

Unique husing of burner provide high efficient burning fire.

Using air register adjustment leads revolving fire.

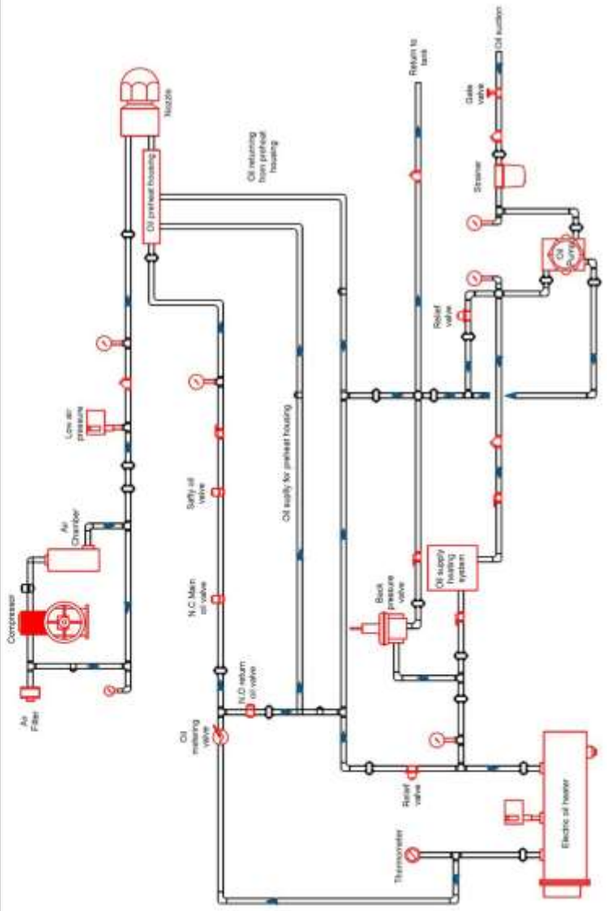
Using damper on the boiler side could pre-heating the inlet air.

Flexible design which is camplatible with different heating system.

The unique design of the fan cuase using smaller electromotor with lower consuming power.

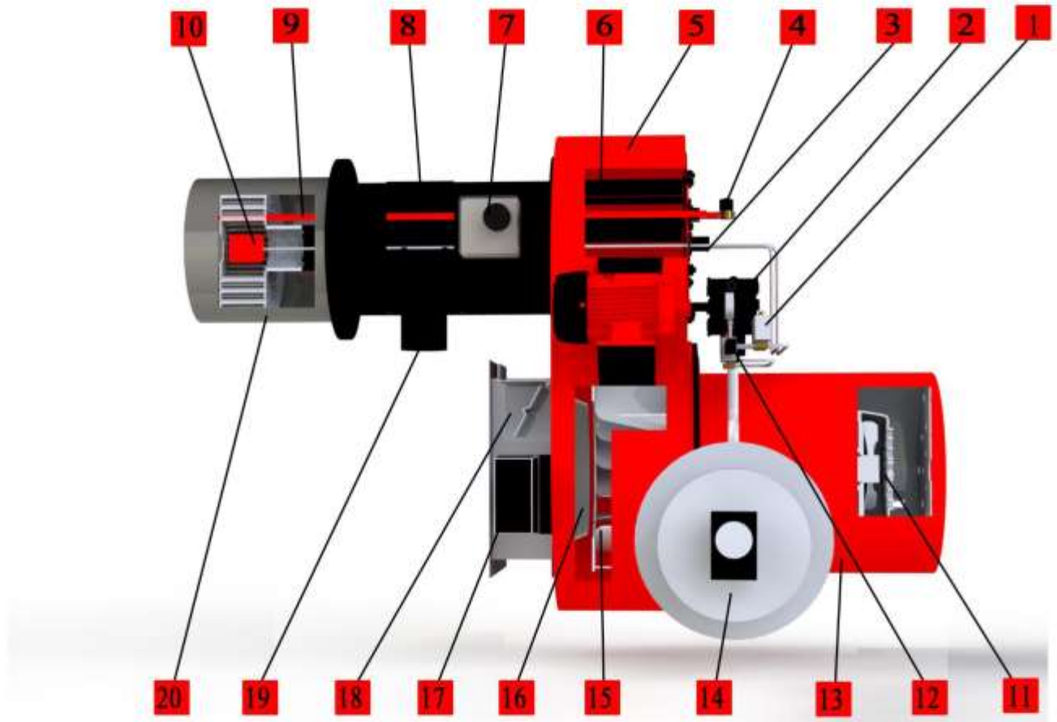
Compatible Product

- Steam Boiler
- Warm Water Boiler
- Condensate Boiler
- Hot water boiler
- Thermal oil heater
- Fire box
- Super heater
- Melting furnace
- Corrugating furnace system
- Post Weld Heat Treatment



Equipment

Burners Equipment know-how is based on long and excellent experiences in Boiler engineering. NovinBokhar warranty is to secure to Clients full satisfaction providing efficient and reliable design and equipment. Burners equipment are engineered on job by job basis employing a team of specialized engineers. NovinBokhar is close to Client's requirements and provides full support, detailed and complete technical documentation for the installation of the equipment supplied.



1	NO selonid valve	11	Electromotor
2	Mazot Pump	12	NC selonoid valve
3	UVZ	13	Electromotor Cover
4	Pilot valve	14	Mazot heater
5	Body	15	Fan
6	Air register	16	Air venture
7	Air pressure	17	Damper Motor
8	Burner Neck	18	Air inlet box
9	Pilot	19	Gas inlet
10	Mazot nuzzle	20	Mounting plate

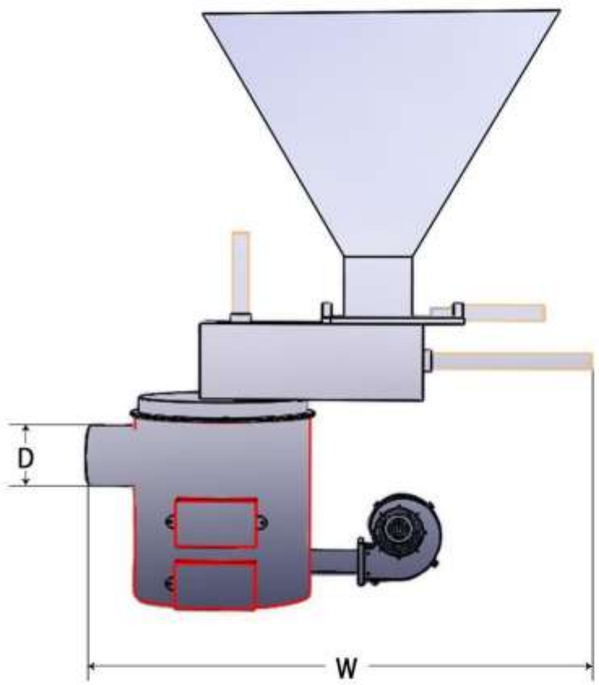


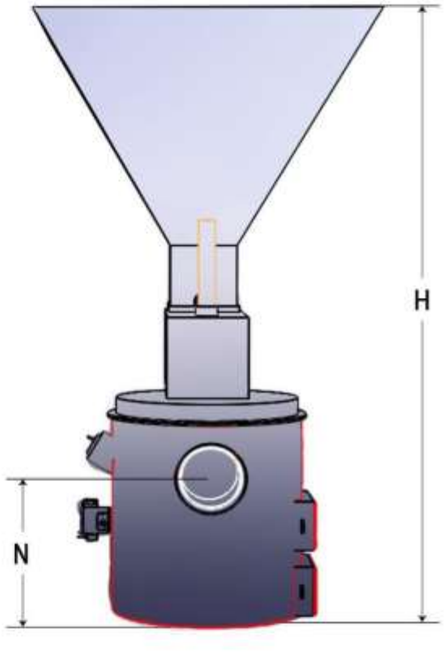
OSVEH Timber Wood Burner

The imber wood burner of NovinBokhar is used for steam boiler, warm water boiler, thermal oil heater and other system. By the unique and automatic conveying system, this burner could continuously worked.

High level automated continuous burner

- ✓ Automatic conveying system.
- ✓ Fully-automated controlling system.
- ✓ Ability of using all kind of wood as fuel.
- ✓ Highly efficient system.





Model		ATWB 0.3	ATWB 0.6	ATWB 1.2	ATWB 2.0	ATWB 2.5	ATWB 3.5	ATWB 4.5	ATWB 7.0
Capacity (kcal/hr)	---	300,000	600,000	1,200,000	2,000,000	2,500,000	3,500,000	4,500,000	7,000,000
Type	---	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
Height (mm)	H	2300	2300	2700	2800	2800	3100	3050	3250
Width (mm)	W	900	1310	1700	1950	1950	2100	2100	2350
Nuzzle diameter (mm)	D	400	500	600	600	700	800	900	1000
Nuzzle height (mm)	N	860	960	1160	1160	1260	1360	1450	1450
Fuel consumption (kg)	---	70	155	310	460	600	1000	1200	1800
Electrical power (kw)	---	4	4	9	9	13	15	19	30

Design

Fully-automated conveying system which make continuously firing system.

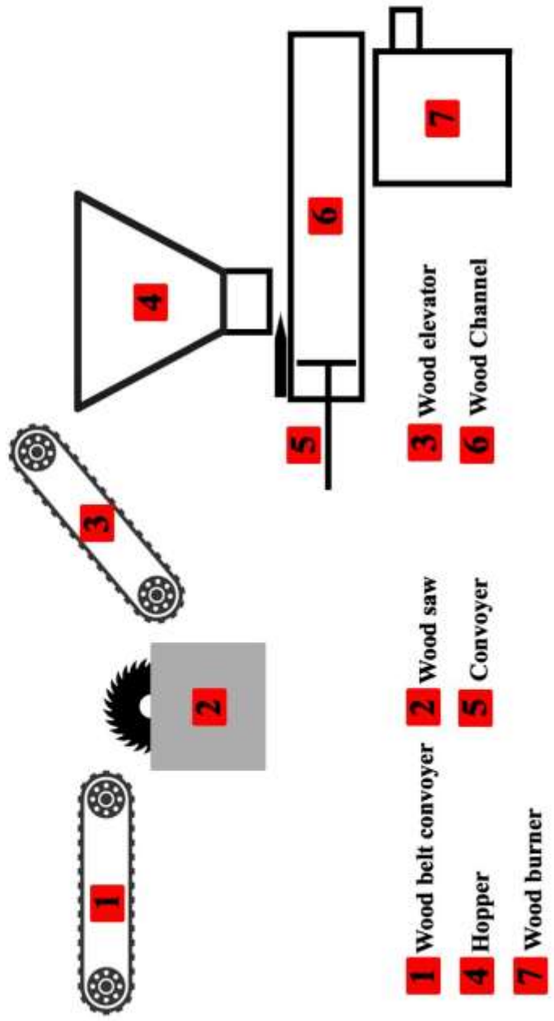
High efficiency by unique fire bin design.

The particular fire bin and conveying system, suitable our burner for using any kind of wood fuel type.

Flexible design which is camplatible with different heating system.

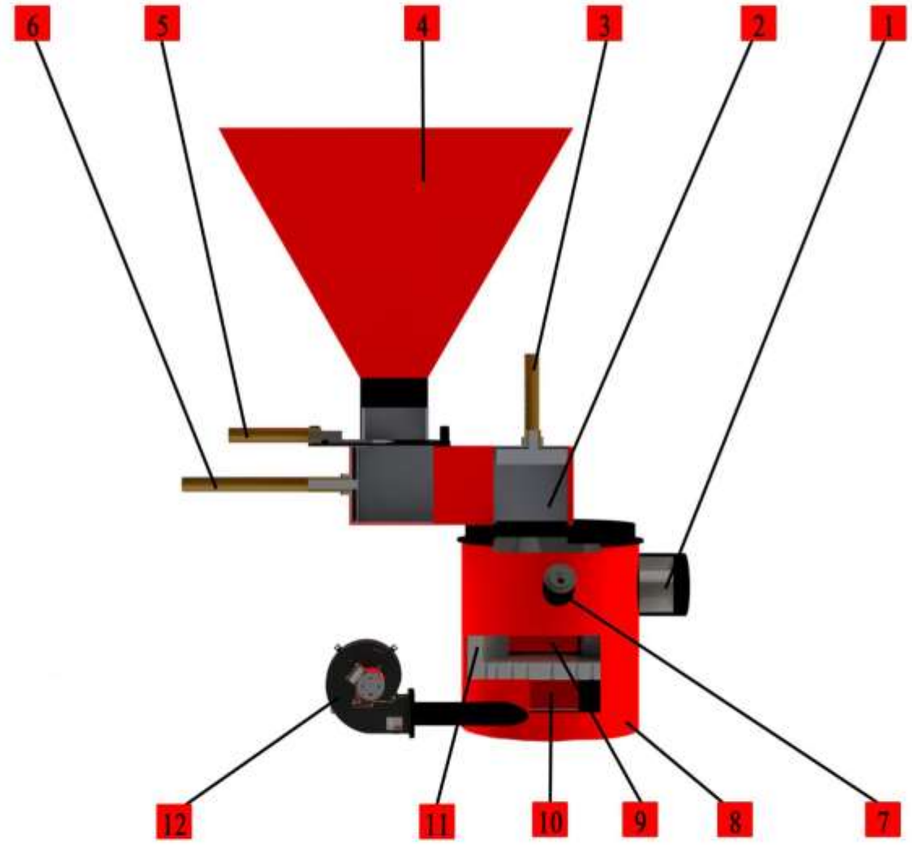
Compatible Product

- Steam Boiler
- Warm Water Boiler
- Condensate Boiler
- Hot water boiler
- Thermal oil heater
- Fire box
- Super heater
- Melting furnace
- Corrugating furnace system
- Post Weld Heat Treatment



Equipment

Burners Equipment know-how is based on long and excellent experiences in Boiler engineering. NovinBokhar warranty is to secure to Clients full satisfaction providing efficient and reliable design and equipment. Burners equipment are engineered on job by job basis employing a team of specialized engineers. NovinBokhar is close to Client's requirements and provides full support, detailed and complete technical documentation for the installation of the equipment supplied.



1 Firing nuzzle	7 Inspectation hole
2 Conveying channel	8 Body
3 Hydrolic door	9 Firing hole
4 Hopper	10 Ash cleaning hole
5 Hydrolic Cutting	11 Insulation
6 Hydrolic Conveying	12 Fan

Zakariya Razi St
Alborz Industrial City
Qazvin Province
Iran
Postal code: 34139-53376

Tel. +98-2832228072
Fax +98-2832228072

Service Hotline +98-2832228476

www.osvehboiler.com
info@osvehboiler.com
@osvehboiler