



Venture Enterprise  
Export Promising  
Small & Medium Size  
Industry



ISO 9001 · ISO 14001



INNOBIZ  
중소기업기술혁신협회

INNO-BIZ, Association for  
Technical Innovation of  
Small & Medium Sized  
Industries.



Performance  
certified  
products by CEP



Reparation Insurance  
Policy for Product  
liability No.49112221



Performance  
certified  
products by CEP

# SM Boiler

- Patent (Reg. No. 10-0653386)
- Patent (Reg. No. 10-0736186)
- Patent on a New Device(Reg. No. 20-0144540)
- Patent on a New Device (Reg. No.0167991)
- Patent on a New Device (Reg. No. 0284710)
- Patent on a New Device (Reg. No. 0324211)
- Patent on a New Device (Reg. No. 0328511)
- Registration of Design (Reg. No.186271)
- Registration of Design (Reg. No. 0259313)
- Permit of manufacturing Electric Devices 1st Class and 2nd Class
- Obtained Technical Innovative Certification ( Inno-Biz)
- Efficiency Certification for Electric Steam Boiler( No.13-035)
- Obtained ISO 9001 Quality Management Certification
- Obtained ISO14001 Environmental Management Certification
- Won Citation from Director of SMBA, Korea
- Won Neo-Intellectual Prize form SMBA, Korea
- Annex Research Institute is certified by SMBA, Korea
- Won Citation from Governor of Gyeongsang buk-Do, Province.
- Nomination of Venture Enterprise, INNO-BIZ and Export Promising Enterprise by SMBA, Korea



A partner of your Success-Business  
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Tel : 55-11-3331-7608 / CEP : 55-11-7808-9931
- Saudi Arabia Branch : P.O. Box 50642 Jeddah 21533, Makkah Road, kilo 3, Saudi Arabia  
Tel : 966-2-687-9306 / CEP : 966-050-461-7161



**ssangma**  
www.smboiler.net

# Greetings



## Highest Reliability, Best Products by Craftsmanship of Boiler & Laundry Equipment Manufacturing

### Dear Clients!

Thanks to your kindness and love extended to us we, Ssangma Machine Co., Ltd. could have grown as we are today, as a specialized manufacturer of Electric, Gas & Oil fired boilers, Water Washing Machines(Washing Extractors), Dry Cleaning Machines and Dryers since its establishment on 20th April, 1992.

The knowhow accumulated through keen competition in the domestic market so far, has composed a strong foothold and helped us develop overseas market and now we are on a par with those whom in the international market we believe to be outstanding in this field.

As a result of pouring our utmost efforts in overseas-marketing with a high ambition to make the whole globe beyond border our market, now we are able to export our products to U.S.A, Australia, Brazil, Paraguay, Uruguay, Saudi Arabia, Bangladesh and Papua New Guinea, Nepal, Bolivia, Serbia, Thailand, Vietnam, Sri Lanka, and Romania.

And we expect our market will be continuously expanded to other countries.

We believe the best way to reciprocate your love delivered to us is to put our utmost efforts and passions into Research & Development and produce new products with sincerity and honesty in order to comply with your requirements.

We, Ssangma Machine Co., Ltd. has a humble wish to dedicate ourselves in preventing global warming, conserving natural environment, taking part in the economic development of our nation through more export and providing more job opportunities to those who are in need and recompensing our cherished clients to their deep love shown to us so far by developing and supplying products with high efficiency with least consumption of energy through ceaseless R&D at most favorable prices.

The clients using our products manufactured with high technical pride and outstanding sense of responsibility are our 'Partners' in realizing our humble wish.

We promise You, Our Partners to supply safe and high economical products through immaculate Q.C and excellent After Sales Service. We expect to be favored with more concern and support by you in the days to come as you did in the past.

Thank you!

CEO **Seong Young, Lee**

# History

- Mar. 1992** Initiated to produce Industrial Electric Steam Boiler.
- Jul. 1995** Began to export industrial Electric Steam Boiler to Brazil.
- Sep. 1996** Applied Registration of Design for Steam Generation Apparatus to the Korean Intellectual Property Office (Reg. No. 95-011992)
- Jan. 1998** Initiated to produce Industrial Oil & Gas fired Steam Boiler.
- Nov. 1999** Obtained the Patent on a New Device from the Korean Intellectual Property Office for the Steam Generating Device of the Steam Generator. (Reg. No. 1999-0016916)
- Jan. 2000** Initiated to produce Electric, Oil & Gas fired Hot Water Boiler.
- Apr.** Applied Registration of Design for Steam Boilers to the Korean Intellectual Property Office. (Reg. No. 1999-0019604)
- Jul.** Successfully developed the Steam Car Wash.
- Jan. 2002** Initiated to produce Industrial Water Washing Machine, Dry Cleaning Machine, Dryer.
- Jul.** Obtained a Patent on a New Device from the Korean Intellectual Property Office for Heating Device for Boilers. (Reg. No. 2002-0009819)
- Aug. 2003** Obtained the Patent on a New Device from the Korean Intellectual Property Office for Heating Device of Boilers.(Reg.No.2003-0016274)
- Sep.** Obtained the Registration of New Design on Aerofin Structure of Radiator from the Korean Intellectual Property Office. (Reg. No. 2003-0019172)
- Feb. 2004** Incorporated Ssangma machine Co., Ltd.
- Dec.** Developed a burner system for burning minute particle-coal and applied patent to the Korean Intellectual Property Office.(Reg. No. 2004-0110804)
- Apr. 2005** Obtained the ISO 9001 certification for Quality Management System. and ISO 14001 certification for Environmental Management System.
- May** Won the prize for the Minor Enterprisers from SMBA, Korea.
- Jul.** Nominated as Export Promising Enterprise by Small & Medium Industry Export Support Center ,Daegu, Gyeongbuk.
- Oct.** Nominated as Venture Enterprise. (No.051324035-1-0274)
- Mar. 2006** Nominated as Export Oriented Enterprise. (SMBA, Korea) Obtained the Patent on a New Device from the Korean Intellectual Property Office for Outdoor Barbecue Grill.(Reg. No. 20-0411540)
- Aug.** Obtained Performance Certification of Electric Steam Boilers from SMBA, Korea.
- Sep.** Dispatched a Overseas Market Research Staff to Chennai, India in collaboration with SMBA, Korea.
- Nov.** Applied patent for High Efficiency Boiler making use of Hydrogen Fuel. (Reg. No.10-0653386)
- Dec.** Selected as a Superior Enterprise for B2B e-Trade by KOTRA.
- May 2007** Selected as INNO-BIZ (Technical innovative Business) by SMBA, Korea. (No. 7031-1589)
- Jun.** Selected as an Export Promising Enterprise by Small & Medium Size Industry Export Support Center.
- Oct. Dec.** Established Annexed Research Institute. Obtained the Certification for Neo-intellectual and won Citation by the Director of SMBA, Korea Won a Citation for a 'Man of Merit' devoted to Export by Governor of Gyeongsangbuk-Do, Province.
- Jan. 2008** Got Certification of Venture Enterprise. (No. 20080100125)
- Mar.** Initiated Export of Steam Boiler to T.B.S.(TRU-STEAM BOILERS AND SERVICE) Pty. Australia.
- Jun.** Incorporated Ssangma Machine into Ssangma Machine Co., Ltd.
- Sep.** Exported steam boilers and laundry machine to Brazil.
- Oct.** Supplied 1,200Kw Electric Steam Boiler to LG Electronics Co. Ltd. Changwon Plant 1.
- Nov.** Designated as a Manufacturing Environment and Technological Development Innovative Enterprise by Small and Medium Business Administration of Korea.
- Dec.** Exported gas fired steam boilers to India
- Jan. 2009** Exported electric steam boiler and laundry equipments to Romania.
- Feb.** Exported Gas Fired Steam Boiler to Bolivia.





# Outline of Company

## The Principles of Management

- Thorough Pride on Technology
- Perfect Realization for Responsibility
- Perfect After Sales Service

## Management Target

- Client's Satisfaction
- Trustworthy Products
- Bringing up Competent Person

## Subject of Management

- To Maximize Export
- Optimization of Jobs
- Concentration on Research and Development

## Company Motto

- Best Harmony
- Best Products
- Best Trust



SSANGMA

Outline

# Products



## Major Products

- Manufacturing of Industrial Boilers  
Electric Steam Boiler  
Electric Hot Water Heating Boiler  
Once Through Boiler  
Flue Smoke Tube Boiler  
Middle Capacity Hot Water Boiler  
Hot Water Boiler (1 Circuit, 2 Circuit)
- Water Washing Machine, Automatic Water Washing Machine, Dryer, Various Vacuum Boards Etc. for Garment Factory
- Electric Heat Blower, Steam Car Wash
- Manufacturing of Pressure Vessel  
Heat Exchanger  
Hot Water Heater

## Registrations & Certifications



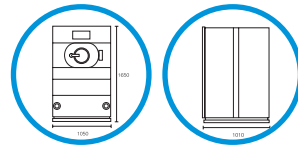
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# 01

## WATER WASHING MACHINE, EXTRACTOR

Much stronger than before by adopting Stainless Steel Almost vibration free[Longer product life is attained by preventing bearings from corrosion]. Having adopted specially made shock absorber with excellent quality and design, it is possible to minimize vibration, unlike other products. Much more convenient use by adopting One-Touch system.



### Features

- + **High durability with stainless steel shaft structure**  
 By adopting oil retainer technology the problem of contacting with water is eliminated (longer product life by eliminating bearings corrosion)
- + **Water valve, hot water, water draining functions can be controlled with a single touch**
- + **High durability with stainless steel shaft structure**  
 Excellent quality and design specifications eliminate vibrations unlike other products, using specially made shock absorbers and springs
- + **A special paint colored coating does not fade and provides cleaner outlook and high durability**

### Specifications

Model	Class	drum dimensions diameter X depth (mm)	drum capacity (L)	Drum rpm		output per operation (kg)	motor (HP)	inverter capacity (kW)	water-supply valve	hot water valve	steam valve	Dimension
				washing (RPM)	dewatering (RPM)							
SMW-13		660 X 400	135	50	800	13	2	2	20A	20A	20A	1050 X 1030 X 1650
SMW-15		660 X 400	160	40	780	15	3	3	20A	20A	20A	1050 X 1030 X 1650
SMW-30		900 X 480	396	45	730	30	7.5	7.5	20A	20A	20A	1350 X 1400 X 1750
SMW-50		1000 X 600	478	45	700	50	10	10	20A	20A	20A	1510 X 1500 X 1850

Specifications can be changed without pre-notice according to technical development or change of design condition.

# 02

## DRY CLEANING



- + **4 (programmed) courses are available**  
 The user can program up to 4 different courses according to the types and materials of clothes to be cleaned. The settings such as washing method and timing can be differently set for each process.
- + **Various washing method**  
 The status of each process can be monitored by the LED display and in case of error; error message will appear on the display.
- + **LED information display**  
 The process status can be seen by the LED display and in case of errors, the error message will be displayed to the user.
- + **3 cycle-controls for washer drum [strong, med, weak] available.**  
 By controlling the cycle in accordance with the type and materials of the clothes, it can prevent clothes from being damaged and provides efficient washing. efficient washing
- + **Smooth spin drying process with different speed levels**
- + **Memorizing the process status during electric power failure.**  
 Even if there is power failure, the status and time leftover can be memorized therefore when the power comes back the leftover process will be resumed automatically.
- + **Carbon filter installed inside makes it unnecessary to clean solvent tank separately.**
- + **Installation of support filter**  
 A special paint colored coating does not fade and provides cleaner outlook and higher durability.

### Specifications

Model	Class	drum dimensions diameter X depth (mm)	drum capacity (L)	Drum rpm		output per operation (kg)	motor (HP)	inverter capacity (kW)	Capa. of oil Tank (L)
				washing (RPM)	dewatering (RPM)				
SMD-13		660 X 400	135	50	950	13	2	2	180
SMD-15		660 X 460	150	45	900	15	2	3	180

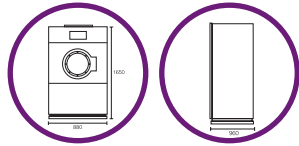
Specifications can be changed without pre-notice according to technical development or change of design condition.



# DRYER

## DRYER

Much easier drying by simple programming,  
 Special solid coating keeps it constantly fresh and clean



### Features

- ✦ **The user can simply control the drying time according to the clothes to be dried, and functions can be preset or cancelled as needed.**
- ✦ **Drying temperature control**  
Prevents clothing from damage and make it possible to get higher energy efficiency through optimizing drying temperature according to the types and materials of the clothes.
- ✦ **Convenient of use**  
Wide door design maximizes the convenience in use.

- ✦ **Hot air and cold air drying**  
The use of cold air for a specific time after drying with hot air prevents clothes from (getting) wrinkles. And controlling the direction of drum spinning helps prevent clothing from being tangled.
- ✦ **A special paint colored coating does not fade and provides cleaner outlook and higher durability.**

### Specifications

Model	drum dimensions diameter X depth (mm)	Steam		Motor		Dimension Length xWidth xHeight
		pressure kg/cm <sup>2</sup>	consumption kg/t	drum	fan	
SMD-150	800 x 615	3-5	30	1/2HP	1/2HP	880 x 1100 x 1650
SMD-250	900 x 770	3-5	40	1HP	1HP	1030 x 1300 x 1800
SMD-500	1060 x 1060	3-5	70	6HP	4HP	1200 x 1660 x 2100

Specifications can be changed without pre-notice according to technical development or change of design condition

# PACKAGING MACHINE

You don't have to lift up heavy vinyl rolls over your head anymore!  
 No air is required.  
 Since no air is required, you don't have to concern yourself about where to install.

### Features

- ✦ Three kinds of packaging (PP, PE and nonwoven) is available as the stand can hold 3 kinds of packaging materials.
- ✦ Three different packing with P.P, P.E & Non-woven fabric can be made alternatively at the same stand as three different packing materials can be held on the same equipment.
- ✦ The process of replacing film is very simple because the film-pressing device is mounted on the hook.
- ✦ Double switch system is adopted for safety. Thus you have to press always both buttons with 2 hands to cut and seal the film which will protect your hands from being cut by not putting any of your hand into the knife.

### Specifications

Model	Size	Weight/Power
SMP-01	750mm x 560mm x 1880mm	55kg/220V/60Hz

Specifications can be changed without pre-notice according to Technical Development or Design Condition.



# 05

## VACUUM BOARD

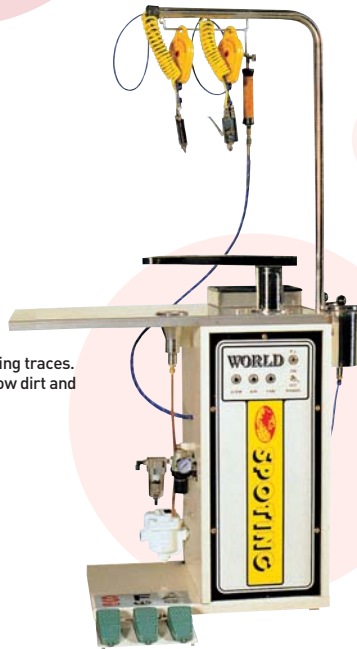
For effective ironing in the middle of the line and at the finishing department of woven garment and knit wear factory. Various sizes are available according to the purposes. Possible to design and produce according to the purpose of use.



# 06

## DIRT REMOVE

It removes dirt and spots without leaving traces. First, apply suitable chemicals and blow dirt and spots away with air.



# 07

## AUTO WASHING MACHINE



### Use

- Military camps • Dormitories • Hotels • Hostels • Inns • Boarding houses • Spa and Saunas
- Hospitals • Laundry factories • Welfare facilities

### Features

- ✦ **Inverter**  
Diverse programs according to washing pattern are available. Easy to operate by adopting one touch screen type high quality digital control panel.
- ✦ **Washing bath**  
Drum is made of punched, antirust stainless steel to prevent clothes from being damaged.
- ✦ **Durability**  
Reduced vibration and noise to minimum level by attaining exact balancing of the drum adopting special coil-spring and excellent shock-absorber. Extra long durability is achieved even with heavy load.
- ✦ **Safety**  
For the safety of the workers, the machine won't be started without locking the door.
- ✦ **Detergent function**  
The machine is equipped with detergent supply function [Liquid 3 chambers, Powder 3 chambers] which can be controlled by programmed control panel to help easier working.

### Specifications

Model	Class	drum dimensions diameter X depth (mm)	drum capacity (L)	Drum rpm		output per operation (kg)	motor power (HP)	inverter capacity (kW)	water- supply valve	hot water valve	steam valve	Dimension
				washing (RPM)	dewatering (RPM)							
SMW-300		950 x 430	304	35	750	30	7.5	7.5	25	25	20	1360 x 1300 x 1700
SMW-500		1070 x 560	503	32	700	50	10	11	25	25	20	1560 x 1520 x 1810
SMW-1000		1300 x 750	995	30	620	100	25	22	40	40	20	2010 x 2010 x 2150

# 08

## ELECTRIC, STEAM DRYER

### Use

• Laundry factories • Textile mills • Military camps • Dormitories • Hotels • Hostels  
 • Inns • Boarding houses • Spa and Saunas • Hospitals • Welfare facilities

### Features

- ✦ Fine and exquisite inside of the drum is highly heat-resistant and it is possible to adjust and control temperature properly enabling to prevent stuffs to be dried from being damaged and to save energy.
- ✦ By generating maximum heat with comparatively smaller amount of calories with copper pipe of the radiator covered with aero-fin, it is possible to work most efficiently.
- ✦ Electric heat dry type and hot blast dry type which is do working in large volume for short time.



- ✦ Automatic control made it possible to dry the stuffs evenly by periodically changing the direction of the drum from right to left, from left to right. In addition can do convenient with the timer & buzzer exhaust air wheel helps to take out the air in the workshop and the outside of cylinder, so that can do clean work.

# 09

## GAS BURNER TYPE, DRYER

### Features

- ✦ Full automatic system, easy to run and has excellent drying efficiency with drum rotating clockwise/anti-clockwise.

### Components

Drum → Driving gear → Frame cover → Motor → Auto controller → Exhaust duct → Emitted heat inhale duct → Laundry inlet (door)

- ✦ **Drum**  
Punched drum made of stainless steel with bar inside prevents clothes from being damage.
- ✦ **Driving Gear**  
Main and reduction shaft are process very precisely therefore the assembling of bearing is very accurate.
- ✦ **Frame cover**  
Made accurately with S41 angle and channel thus has higher durability and outside cover is specially coated to prevent from getting rust.



- ✦ Fine and exquisite inside of the drum is highly heat-resistant and it is possible to adjust and control temperature properly enabling to prevent stuffs to be dried from being damaged and to save energy.

- ✦ **Motor**  
F-class motor, which does not create over-heat, does not allow moisture come inside and has good insulation, is used.
- ✦ **Auto Controller**  
Has good insulation and able to control automatic operation.
- ✦ **Exhaust Duct**  
Being adopted suitable sized-fan, it is enough to discharge moisture and heat produced inside of the machine.
- ✦ **Door**  
Installed see-through window so that the process inside can be watched.

# 10

## WASHING MACHINE

Possible to clean large volume at one time with big sized door & bar. All stainless structure is free from rust and makes clean washing possible. Main pulley has adopted tightening wheel therefore there would be no slip. Precisely processed tapered shaft and exact balance attained by balancing machine make driving even smoother. Attached automatic control box made it possible to change revolving direction from right to left, from left to right and to wash with speed. It also made it possible for a person to watch and take care of multiple machines. Influence on controller caused by leakage of water is completely eliminated by perfect sealing with precise packing.

### Use

• Hospital • Hotel • Laundry factory • Welfare facilities

### Specifications

Model	Capacity Time	Cylinder Size (Diameter × Depth)		Cylinder Weight	Revolutions	Motor (3∅220/380V 60cy)	Water Supply Valve Size	Drain Valve	Steam		Out Side Size (W × L × H)
		mm	L						Pressure	Consumption	
Unit	kg	mm	L	R.P.M	HP	inch	mm	kg/cm <sup>2</sup>	kg/h	mm	
SMR-50	25	760 × 800	356	31	1/2	1 1/2	100	3-4	25	1370 × 180 × 1630	
SMR-80	50	813 × 1000	511	30	1	1 1/2	100	3-4	40	1525 × 200 × 1680	
SMR-150	100	990 × 1400	1078	30	2	1 1/2	200	3-4	90	2020 × 1570 × 1950	



# 11

## EXTRACTOR (CENTRIFUGAL TYPE)

### Use

• Textile dyeing & weaving mill • Salt manufacturer • Food processing factories  
 • Marine product processing factories • Chemical reagent makers...etc.

### Features

- ✦ Main body is made by casting with FC-20.
- ✦ Radiant double bearing is so designed as to stand with heavy load and shock, therefore no problem in high speed.
- ✦ Precisely processed main shaft is so made to stand with high speed.
- ✦ As external, internal drums (baskets) are made of stainless steel (SUS304), this machine can stand with centrifugal force and can resist chemical reagent and corrosion thus it is semi-permanent.
- ✦ In order to prevent motor from overloading and to extend the life span of motor and machine, inverter can be used, then the consumption of power can also be reduced. In case you select inverter as an option, it will do without friction clutch and much more convenient and safe operation will be possible.
- ✦ Has excellent power to dehydrate laundries and specially designed brake, semi-automatic will help reduce working time.

### Specifications

Model	Drum dimensions diameter X depth	Drum Capacity	Drum rpm	Capacity Time	Centrifugal Effect	Motor Drainage	Drainage Hole Size	Out Side Size (W × L × H)
Unit	mm	L	R.P.M	kg	g	220/380(HP)	inch	mm
SME-2400	610 × 290	80	1300	25	650	4P/5	2	1210 × 880 × 700
SME-3200	813 × 370	180	1200	50	635	4P/10	4	1600 × 1200 × 820
SME-4200	1066 × 420	360	950	100	540	4P/15	5	1900 × 1510 × 970

# 12

## ELECTRIC STEAM BOILER

Highest Economical Efficiency through Minimum Heat Loss and Moderate Electric charges! Solid and Ultra-small sized Electric Steam Boiler

SM series that provide highest safety features, economical efficiency and convenience.



### Use

- Laundry factories • Rice cake factories • Mushroom plantations • Sewing factories
- Breweries, Wineries • Sudatorium, Sauna • Vinyl housed farms • Other industries that require steam

### Features

- High energy efficiency**  
 Provides high energy efficiency through generation of high-pressure steam within minutes
- Interior with special insulation**  
 Realized minimum Heat-Loss by special insulation of Inner Heater
- Low defect rate**  
 Our product guarantees semi-permanent life span
- Noise and pollution free**  
 Design consideration taking into account of indoor installation that allows the best noise and pollution free environment

- Ultra small**  
 Small size allows installation to even in the smallest space.
- Convenient to use**  
 Easy to use, even for beginners owing to our high tech IC circuit and simple system design features
- Electricity costs efficiency**  
 Allows minimum use of electricity that provides economical benefits
- Excellent after-sales service**  
 Excellent A/S service system guarantees excellent maintenance service

### Specifications

Model	rated power (kW)	capacity of steam generation (kg/h)	application pressure (kg/cm <sup>2</sup> )	Storage volume (L)	Dimension (W×D×H)
SM-500	5	7	4	4	330 × 730 × 660
SM-1000	10	14	4	5	330 × 730 × 680
SM-1500	15	21	4	7	330 × 730 × 680
SM-2000	20	28	4	20	400 × 770 × 840
SM-2500	25	35	4	23	400 × 770 × 840
SM-3000	30	42	4	30	450 × 850 × 890
SM-3500	35	49	4	40	450 × 850 × 890
SM-4000	40	56	4	45	450 × 850 × 890
SM-4500	45	63	4	48	450 × 850 × 890
SM-5500	55	77	4	50	600 × 950 × 1080
SM-6600	66	91	4	55	600 × 950 × 1080
SM-7700	77	105	4	60	600 × 950 × 1080

Specifications can be changed without pre-notice according to Technical Development or Design Condition.

# 13

## INDUSTRIAL ELECTRIC STEAM BOILER

Lowest maintenance cost with moderate electric charge, Supreme environment by silent and clean system.



### Use

- Laundry factories • Curing the concreted surface • Dyeing factories • Sewing factories
- Confectionaries • Sudatorium, Sauna • Mushroom plantations • Food processing factories
- Catering • Footwear factories • Drying of agricultural • marine products, Metal works, Petroleum Refineries, Chemical industries, Paper mills, Timber mills, Ceramics
- Other industries that require steam

### Features

- Outstanding economical efficiency comparing with oil fired boiler because of moderate electric charges
- Customized manufacturing according to the purpose and capacity of the industry
- Suitable for Replacement of Big-sized Oil, Gas Boilers
- The Forerunner of Electric Steam Boiler Field
- Supplying to prominent organizations and companies



### Specifications

Model	electric-power capacity (kW)	calorific value (kJ/h)	hydraulic test pressure (kg/cm <sup>2</sup> )	operating pressure (kg/cm <sup>2</sup> )	size (mm)	joint diameter			
						water supply inlet	drain hole	steam spouting outlet	safety valve
SM-0100	100	86,000	14	5-7 kg	1000 × 1200 × 1500	20	32	20	20
SM-0200	200	172,000	14	5-7 kg	1220 × 1550 × 1800	20	32	25	32
SM-0300	300	258,000	14	5-7 kg	1220 × 1550 × 1800	25	40	40	40
SM-0400	400	344,000	14	5-7 kg	2000 × 1800 × 1945	25	40	40	40
SM-0500	500	430,000	14	5-7 kg	2000 × 1800 × 1945	25	40	40	40
SM-0600	600	516,000	14	5-7 kg	2925 × 2440 × 3300	32	40	50	25 × 2EA
SM-0800	800	688,000	14	5-10 kg	2925 × 2440 × 3300	32	50	65	32 × 2EA
SM-01000	1000	860,000	20	5-10 kg	2925 × 2950 × 3350	40	50	65	32 × 2EA
SM-01200	1200	1,032,000	20	5-10 kg	2925 × 2950 × 3350	40	50	80	40 × 2EA

Specifications can be changed without pre-notice according to Technical Development or Design Condition.



# 14

## OIL, GAS STEAM BOILER

Unattended operation became possible by full automation.  
 Low installation cost, Longest Durability.

Abundant amount of steam, Longer product life with high energy efficiency,  
 Longer life with small-sized smoke tube.  
 We recommend this product as an honor of our company. The product life will last through the life of your business.



### Use

- Laundry factories • Rice cake factories • Mushroom plantations • Plating mills • Sewing factories
- Confectionaries • Disinfection • Dyeing factories • Breweries, Wineries • Sudatorium, Sauna
- Other industries that require steam

### Features

- ✦ **Easy to install in small space area**  
Easy to install even in small spaces as the product is a stand-alone type structure
- ✦ **Fully automated**  
Does not require worker as it is fully automated with built-in functions
- ✦ **Sturdiness and stability**  
Proud of the product design for sturdiness and stability through their use of best materials and components
- ✦ **Low defect rate**  
Easy to operate with low failure rate
- ✦ **Low installation cost**  
Possible to install at low cost.

### Specifications

Class	Model	Unit	SMB-1000	SMB-1500	SMB-2000	SMB-2500	SMB-3000
Steam Capacity	kg/hr		1000	1500	2000	2500	3000
Heat Surface	m <sup>2</sup>		9.9	9.99	25.4	29.8	36
Thermal Efficiency	%		90	90	90	90	90
Working pressure	MPa		1 (10 kg/cm <sup>2</sup> )				
Dimension	Width	mm	1420	1420	2320	2530	
	Length	mm	2810	2850	3600	3980	
	Height	mm	2430	2480	3150	3320	
Fuel	Light Oil	kg/hr	65.7	98.6	131.5	164.4	197.3
	LNG	Nm <sup>3</sup> /hr	68.4	102.6	136.8	171.1	205.3
Weight	kg		1980	2300	3100	3600	4100
Steam Spouting Outlet	mm		50	65	80	80	100

Specifications can be changed without pre-notice according to Technical Development or Design Condition.

### Specifications

Class	Model	Unit	SMB-30	SMB-50	SMB-100	SMB-150	SMB-200	SMB-300	SMB-500
Steam Capacity	kg/hr		30	50	100	150	200	300	500
Heat Surface	m <sup>2</sup>		1.26	1.63	1.9	2.8	3.9	4.62	8.7
Hydraulic Test	kg/cm <sup>2</sup>		7.0	7.0	7.0	7.0	7.0	7.0	7.0
Working pressure	kg/cm <sup>2</sup>		3.5	3.5	3.5	3.5	3.5	3.5	3.5-5.0
Fuel			LAMP OIL, LIGHT OIL, GAS (LNG, LPG)				LIGHT OIL, GAS (LNG, LPG)		
Fuel Consumption	OIL	g/hr	2.6	4.4	7.3	12.3	14.6	22	35
	LNG	Nm <sup>3</sup>	2.6	4.3	7.1	12	14.3	21.5	34.3
	LPG	kg	2.2	3.8	6.3	10.5	12.5	18.9	30
Dimension	Width	mm	510	630	740	840	900	1000	1100
	Length	mm	510	630	740	840	900	1000	1100
	Height	mm	1200	1350	1400	1530	1900	2000	2200
Weight	kg		123	145	310	530	720	860	1300
Steam Spouting Outlet	mm		15	15	20	25	32	40	40

# 15

## ELECTRIC HOT WATER BOILER

Subminiature type easy to be installed anywhere.  
 Convenient high-tech system suitable for beginners

### Use

- Vinyl house • Edible crops growing • Rural housing
- Flower complex • Sauna • Boarding house

### Features

- ✦ **High economical efficiency**
- ✦ **High durability**
- ✦ **High heat efficiency, specially insulated interior system, minimum failure rate**
- ✦ **Easy use**  
 Convenient high-tech IC and simple system suitable for beginners
- ✦ **Subminiature type**  
 Installable even at a narrow place
- ✦ **Perfect after-sale service**  
 Continuous maintenance and repair guaranteed



# 16

## WOOD FIRED BOILER

Suitable for those areas with abundant Timber production such as Tropical Rainforest, or Russian Taiga Area.

### Use

- Laundry factories • Confectioneries • Dyeing factories • Garment factories
- Footwear factories • Weaving mills and other industries

### Features

- ✦ **Very economical with low operation cost.**  
 Can burn firewood, coal, charcoal, waste and anything that can be burnt with a slight adjustment
- ✦ **Easy to handle**
- ✦ **Simple maintenance**
- ✦ **High thermal efficiency**
- ✦ **Custom - made**

### Capacity

Available from 500kg/hr up to 3,000kg/hr



# 17

## STEAM CAR WASHER

Much easier One-Touch System.  
 A high pressure Steam Car Wash with 10 minutes shortened instantaneous heating system.

### Features

- ✦ **New car washer removes foreign materials and dirt on the car surface with high pressure steam (5~6bar) by using small amount of water (350~550cc).**
- ✦ **Proper temperature of steam (approx. 80~85 C) wouldn't be harmful to car surface. Other car washer has higher temperature of steam (130~150C) which is not proper for the car washing.**
- ✦ **Owing to our patented momentary exposure system, different from existing other machines, steam can be sprayed in 5 minutes. In existing boiler system, it would take 15 minutes at least to spray steam.**
- ✦ **User can operate the machine with button only and labour can be reduced with two nozzles.**
- ✦ **As well as car washing, wax can be poured and sprayed for dual effect of car washing and polishing.**
- ✦ **Upgraded full automatic car washer which can control temperature, pressure, water and gas supply by our patented technology.**
- ✦ **Safety would be double secured by breaker of alarm for over-heating or lack of water and by safety valve for over-pressure.**
- ✦ **Light weight and proper size are suitable to install at existing washing center, self washing center, car center and any other place for car washing.**
- ✦ **SMCW SERIES could clean the engine room, car deck, door trim, windshields and seat as well as car surface.**
- ✦ **SMCW SERIES are eco-friendly car washer preserving water resources without wasting water. User does not need to install sewage disposal facilities.**



### Specifications

Model	SMCW-E10	SMCW-E15	SMCW-O30
Power	ELECTRIC Control (220V, 50/60Hz) Heater (3 φ380V)	ELECTRIC Control (220V, 50/60Hz) Heater (3 φ380V)	ELECTRIC Control (220V, 50/60Hz) Heater (3 φ380V)
Measurement	480mm × 880mm × 760mm	480mm × 880mm × 780mm	500mm × 850mm × 790mm
weight	81 kg	86 kg	150 kg
Capa. of Water Tank	5 ℓ	5 ℓ	10 ℓ
Hose Length	10M	10M	10M
Fuel	Electric	Electric	Oil/Gas
Power Consumption	10kw/Hr	15kw/Hr	2.6ℓs/Hr
Working PRESSURE	5~6kg/Hr	5~6kg/Hr	5~6kg/Hr
Steam Temp	80~90°	80~90°	80~90°
Water Consumption	200~250 ml/min	300~350 ml/min	500~550 ml/min

Specifications can be changed without pre-notice according to Technical Development or Design Condition.

