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Kiturami

STS G/O Boiler(Stainless)

KITURAMI PRODUCT LINE

GAS BOILER / OIL BOILER
ECONOMY BOILER
MEDIUM SIZED BOILER
INDUSTRIAL BOILER
COMPONENTS & PARTS
AIR CONDITIONER
AIR HANDLING UNIT
FAN COIL / UNITCHILLER
HEAT PUMP WATER HEATER
ROOM CONTROL SYSTEM

Floor-Standing Stainless Gas/Oil Boiler

Made of the best stainless steel, this boiler simultaneously provides abundant hot water with the highest efficiency.

Advanced Self-Diagnosis System

This is the advanced boiler that has diverse and convenient fuel-saving function for outing, bath, sleep, etc., self-diagnosis such as flame detecting sensor and water temperature sensor as well as diverse safety devices.

Universal Boiler

Made of special stainless steel, it is free from rust, thereby ensuing uses for long term over 10 years. Thus, it is the most prevalently used boiler in the small houses or residents in farming and fishing village.

Easy Installation in Small Space

Thanks to slim technique applied with the optimum design of the advanced 3-D design technique, this boiler can be easily conveyed and installed in small space.

Kiturami Possesses High-technology that First Developed One-body Boiler

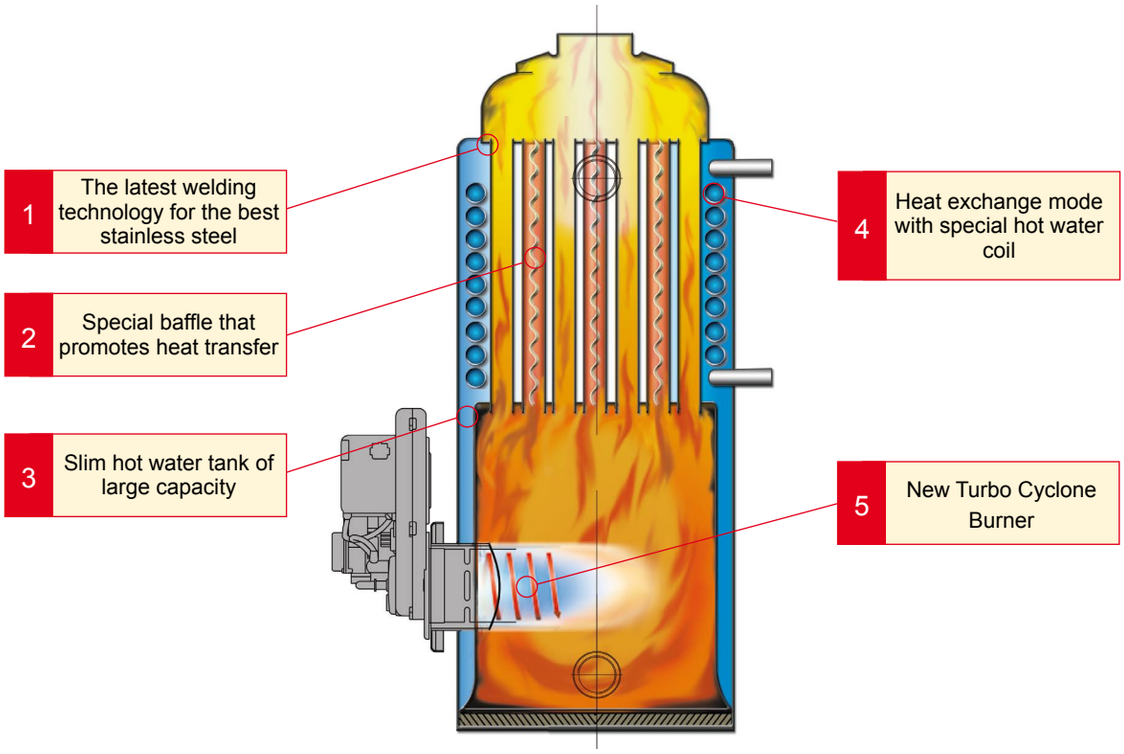
(Patent No 0175707)

Kiturami led the revolution of the project to improve kitchen in the farming and fishing village by developing Deluxe boiler (One body type where circulation motor, burner and nitrogen vessel are built inside) in 1989 for the first time in the world. First developed in the world, Kiturami boiler does not require any specialized engineer for installation, enabling everybody to install and use it easily, a real revolution. Thus, it was very popular in the farming and fishing area where boiler could not be installed due to installation charge which was far higher than average boiler price. As a result, it was exported to foreign countries such as Turkey, Greece, Russia, etc.

Thus, Deluxe boiler remarkably contributed to the improvement and modernization of traditional kitchens in Korea. More than 90% of houses in farming and fishing village in Korea used our products.

Stainless Boiler made with the Technology that has been Accumulated for long time

This is a fuel-saving boiler produced with the patented technology that has been accumulated for 20 years after developing Deluxe boiler.



Internal Structure

1 The Latest Welding Technology for the Best Stainless Steel

- Quite and resistant to oceanic climate thanks to the best stainless steel free from stress, erosion and crack.
- The demerit of stainless steel, i.e., water leakage at the welded part is solved by the latest welding technology of Kiturami, which also prevents stress, erosion and crack.
- The products can be used under high water pressure up to 3.5 Kgf /cm^2. Because it has the finest parts and materials.

2 Special Baffle that Promotes Heat Transfer

Thanks to special baffle that promotes heat transfer, higher efficiency and complete combustion is ensured.

3 Slim Hot Water Tank of Large Capacity

The size of stainless steel boiler is considerably reduced to 2/3 so that it can be installed in narrow space by one person.

4 Heat Exchange Mode with Special Hot Water Coil

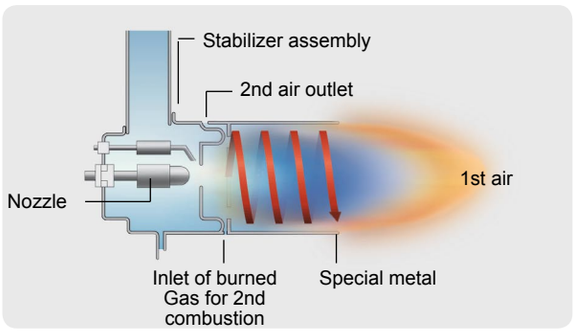
(Patent No 0013191)

As hot water coil is installed at the highest temperature part of heat exchanger, boiling inside the boiler is prevented and hot water is available in large quantity. Thus, the heat exchanging rate is increased, thereby supplying abundant water for taking bath is possible.

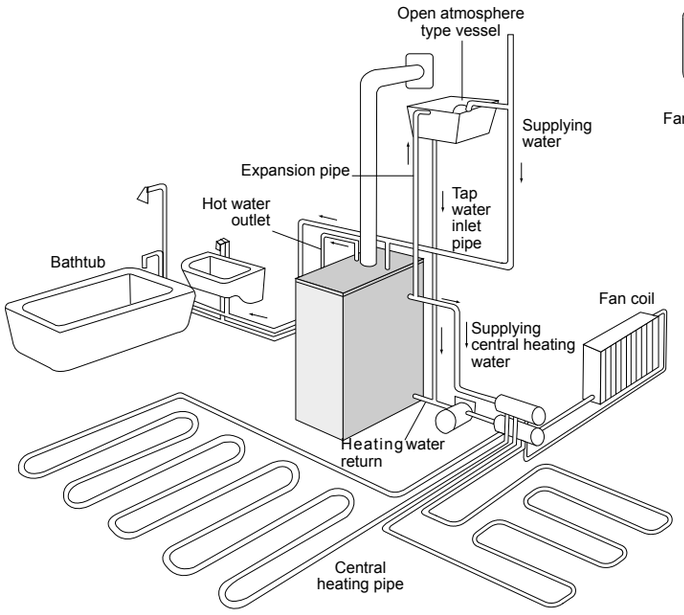
5 Turbo Cyclone Burner

(Patent No 0340897/0827967)

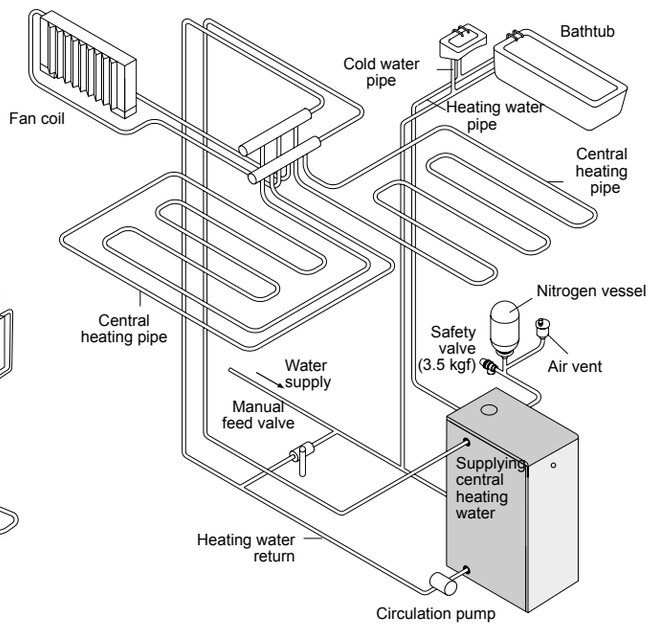
Like the principle of turbo engine in the car, the gas is burnt in the 2nd combustion by special metal plate that is heated up to 800℃ after first combustion of the gas. Thanks to this international new technology, this environment-friendly burner saves fuel.



Standard Pipe Diagram
(Downward Piping Type)



Standard Pipe Diagram
(Upward Piping Type)

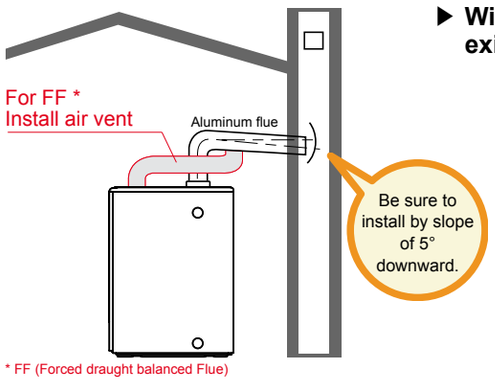


Structure and Name

1 Controller
2 Central heating water outlet
3 Storage type heat exchanger
4 Turbo cyclone burner
5 Central heating water return

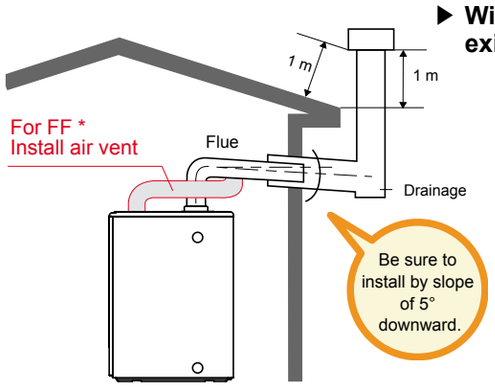
How to Install Flue

With existing flue

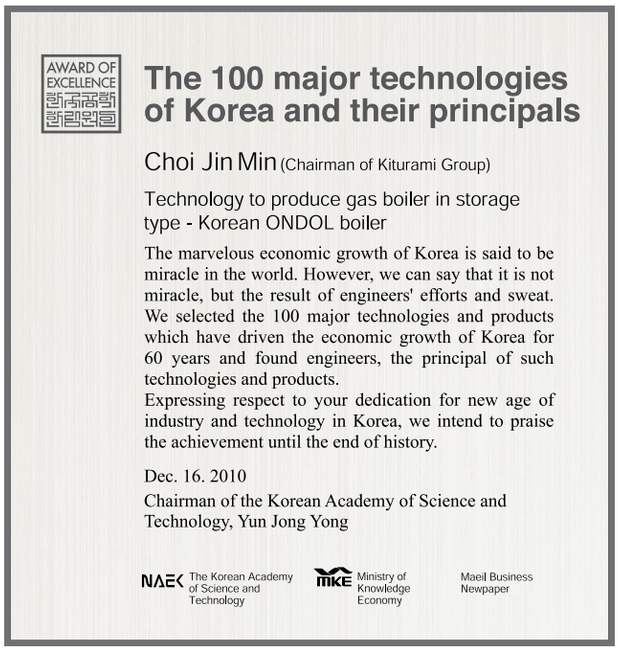


* FF (Forced draught balanced Flue)

Without existing flue



If it is installed over 1 m on the roof and 'T tube' is attached to the end, incomplete combustion caused by back wind can be prevented.



AWARD OF EXCELLENCE

The 100 major technologies of Korea and their principals

Choi Jin Min (Chairman of Kiturami Group)

Technology to produce gas boiler in storage type - Korean ONDOL boiler

The marvelous economic growth of Korea is said to be miracle in the world. However, we can say that it is not miracle, but the result of engineers' efforts and sweat. We selected the 100 major technologies and products which have driven the economic growth of Korea for 60 years and found engineers, the principal of such technologies and products.
Expressing respect to your dedication for new age of industry and technology in Korea, we intend to praise the achievement until the end of history.

Dec. 16. 2010

Chairman of the Korean Academy of Science and Technology, Yun Jong Yong

NAEK The Korean Academy of Science and Technology

MKE Ministry of Knowledge Economy

Maeil Business Newpaper

The 100 Major Technologies of Korea and Their Principals

The 40-year History of Household Oil Boiler
Best Fits to Korean ONDOL Heating System

Installed in the 450 households of Mapo Apartment House that was first built in Korea in 1962, Kiturami briquette boiler is the commencement of household boiler which can be used for cooking, heating and bath.

It was so sensational that one daily newspaper announced at that time “The traditional kitchen of Korea was first mechanized since Dangun(the founding father of the Korean nation) after construction of Mapo Apartment House.

After installing briquette boiler in Mapo Apartment House, Kiturami first developed and propagated hot water pipe ONDOL heating from cast radiator heating in 1965 for the first time in the world. As the government changed the policy from ‘coal in majority, oil in minority’ to ‘oil in majority, coal in minority’ due to briquette crisis in 1968, oil was first used for household heating in Korea. As the type of oil boiler was first approved in No 1 by Industry Promotion Agency in 1970 and was later authenticated as KS No 1, the era of oil boiler for household commenced in Korea.

Due to oil crises in 3 times that came after the age when 1 barrel of crude oil cost US$ 1.50 at the beginning of 1970s, the boiler for household underwent chaotic age, namely, fuel was changed from oil to briquette and vice versa in 3 times.

Thanks to the boom of housing constructions for family due to the economy activated by sending troop to Vietnam in the middle of 1970s, oil boiler was also developed and propagated with briquette for household, for instance, oil boiler for 66 mm2, medium and large oil boiler for industrial use and oil boiler of forced ventilation used for space in the size of 330 ~ 1,983 mm2. Exporting boiler to the royal palace of Saudi in Middle East in 1978, Kiturami got the opportunity to export household and industrial boiler to many countries in the world.

Entering the age of national income in US$ 3,000 in 1984, Kiturami installed burner, Nitrogen vessel, fuel supplier, oil filter, hot water circulating pump, distributor, etc in the boiler for the first time in the world, thereby producing one-body boiler like refrigerator. As a result, Kiturami contributed to the house modernization project that eliminated fire places in the traditional kitchen for improvement. At that time, Kiturami one-body boiler was used for most of houses in the farming and fishing village to improve kitchen.

The oil boiler produced by Kiturami is the best product that has been steadily developed by countless experiences in the life, performance, efficiency and safety of boiler for half a century.

Standard Specification for STS Oil Boiler

Item \ Type		Unit	STSO-13	STSO-17	STSO-21	STSO-25	STSO-30
Rated output		Kcal/h(kW)	14,500 (16.9)	17,000 (19.8)	21,000 (24.4)	25,000 (29.1)	30,000 (34.9)
		kcal/h	14,500	17,000	21,000	25,000	30,000
Fuel consumption		ℓ/h	2.12	2.21	2.67	3.39	4.21
Type		-	Floor-standing, semi-closed forced exhaust (FE) or forced draught balanced flue (FF)				
Fuel in use		Oil	heating oil, kerosene				
Heating surface area		m^2	0.8	0.8	0.92	1.6	1.6
Water storage capacity		ℓ	15	15	16	33	33
Efficiency	Heating	%	90	90	90	90	90
	Hot water	%	90	90	90	90	90
Max. operating pressure		kPa (kgf/cm^2)	343 (3.5)				
Size of duct outlet	Inlet and outlet of heating water	A	25				
	Inlet and outlet of hot water	A	15				
	Flue diameter	ø	75 (FE) / 75X100 (FF)				
Dimensions		WxDxH	325×602×700			365×650×930	
Weight		kg	30	30	32	48	48
Electric power		-	AC 220V x 50Hz				

Standard Specification for STS Gas Boiler

Item \ Type		Unit	STSG-13	STSG-17	STSG-21	STSG-25	STSG-30
Rated output		Kcal/h(kW)	13,000 (15.1)	17,000 (19.8)	20,000 (23.2)	25,000 (29,.1)	30,000 (34.9)
		kcal/h	13,000	17,000	20,000	25,000	30,000
Fuel consumption		ℓ/h	19.0 (16,300)	24.7 (21,300)	28.4 (24,500)	34.9 (30,000)	43.0 (37,000)
Type		-	Floor-standing, forced exhaust (FE) or forced draught balanced flue (FF)				
Fuel in use		GAS	LNG(200+50. -100mm H_2O)				
Heating surface area		m^2	0.8	0.8	0.92	1.6	1.6
Water storage capacity		ℓ	15	15	16	33	33
Efficiency	Heating	%	90	90	90	90	90
	Hot water	%	90	90	90	90	90
Max. operating pressure		kPa (kgf/cm^2)	343 (3.5)				
Size of duct outlet	Inlet and outlet of heating water	A	25				
	Inlet and outlet of hot water	A	15				
	Gas inlet	A	15				
	Flue diameter	ø	75 (FE) / 75X100 (FF)				
Dimensions		WxDxH	325×602×700			365×650×930	
Weight		kg	30	30	32	48	48
Electric power		-	AC 220V x 50Hz				

For more information, please visit us at www.kiturami.co.kr.

We have kept honesty, integrity and humbleness for half a century since establishment
kiturami

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