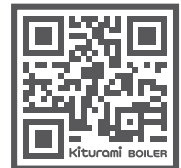




Kiturami

Kiturami 2012 New Type Firewood Boiler



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



The Global Invention

Attached Automatic Ejector
of the Wood Extracts
New Type Firewood Boiler

Long time heating is enabled with few amounts of wood which applied method of proportional control, **realised automatic exhaustion of extracts through attaching automatic ejector.**



■ Reasonable Cost of Maintenance during the Era of High Oil Prices

It's a boiler for farming and fishery villages since scraps and woods are used and it led the cost of fuel to be incurred rarely.

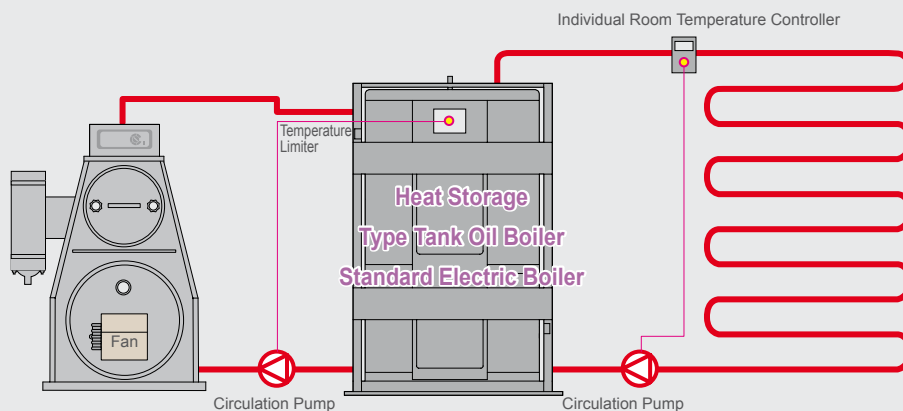
■ Wider Firewood Slot and Firewood Combustion Chamber

Easy firewood input thanks to the enlarged size of firewood inlet up to 500mm, and one day heating is available with only one time input since maximum 50kg of fuel is available.

■ 3 PASS Boiler with High Efficiency

Reduced the amount of wood for use, the structure is made for 3 times combustion and absorption, passing the heat exchanger through 3-pass combustion type.

■ Principle of Mechanic Motion and the Outline of Firewood System Connection

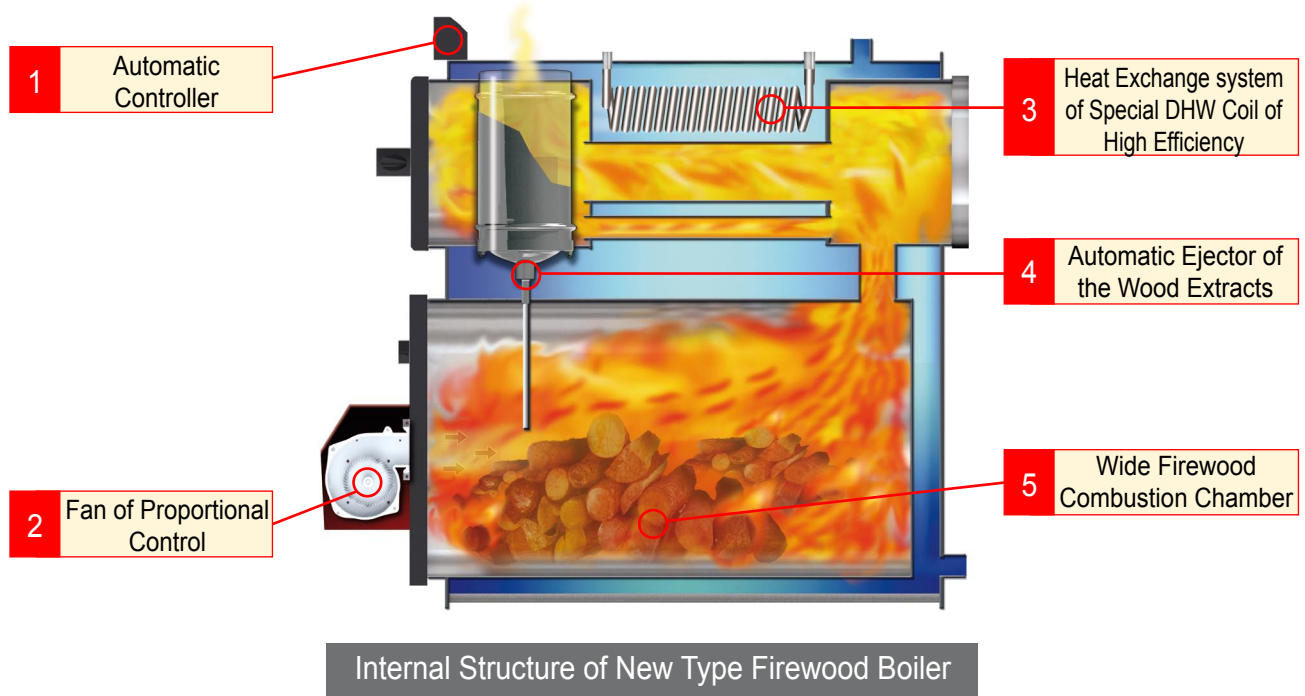


By saving heat in thermal storage tank with burning firewood the house will be well heated by the heat stored in the tank. When the heat in the tank gets lowered the limit of temperature and the thermal storage tank senses the heat and the boiler automatically supplies the heat, and then save the losses by stopping the operation of the fan when the adequate temperature comes

* The principle of motion will be different according to the connection format, conditions, and types of the product (thermal storage tank, oil boiler, regular electric boiler) with new firewood boiler.

■ Free from the fuel expenses by using firewood boiler at anywhere that costs electric charges.

■ Specification of the Boiler

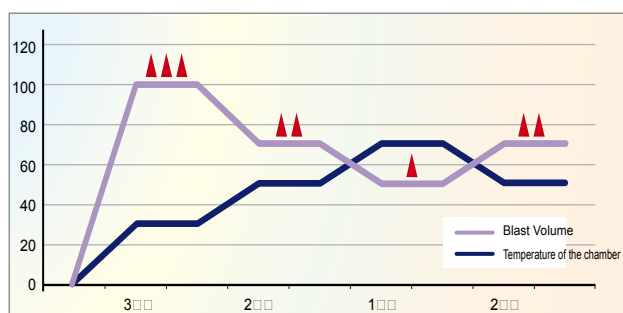


1 Safe Boiler with Automatic Control System

It's safe to use because of the automatic controller that enables the functions of safety against overheat and low water level.

2 Proportional Control Ventilation Phase Control System

Through sensing the combustion conditions of wood, the temperature of chamber, the rate of climb from the MCU in real time the optimal combustion conditions is realised, and sustaining the heat for long time is available.



3 DHW Heat Exchanger of High Efficiency, the World Innovation

Applied stainless heat exchanger for clean and abundant hot water use through quick increase of heat exchanging rate by loading the location of hot water heat exchanger at the highest part (maximum temperature)

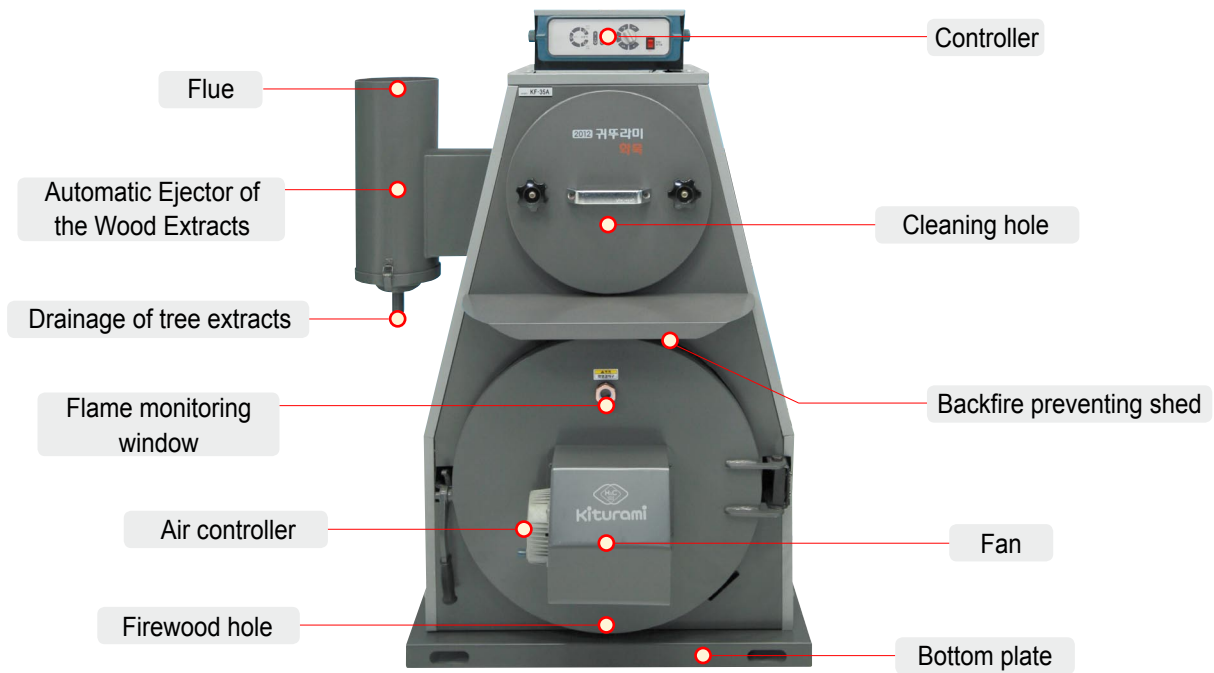
4 The Global Invention, Attached Automatic Ejector of the Wood Extracts

It's a clean discharging function of wood extracts from during combustion and dewfall occurred by cold air at the flue.

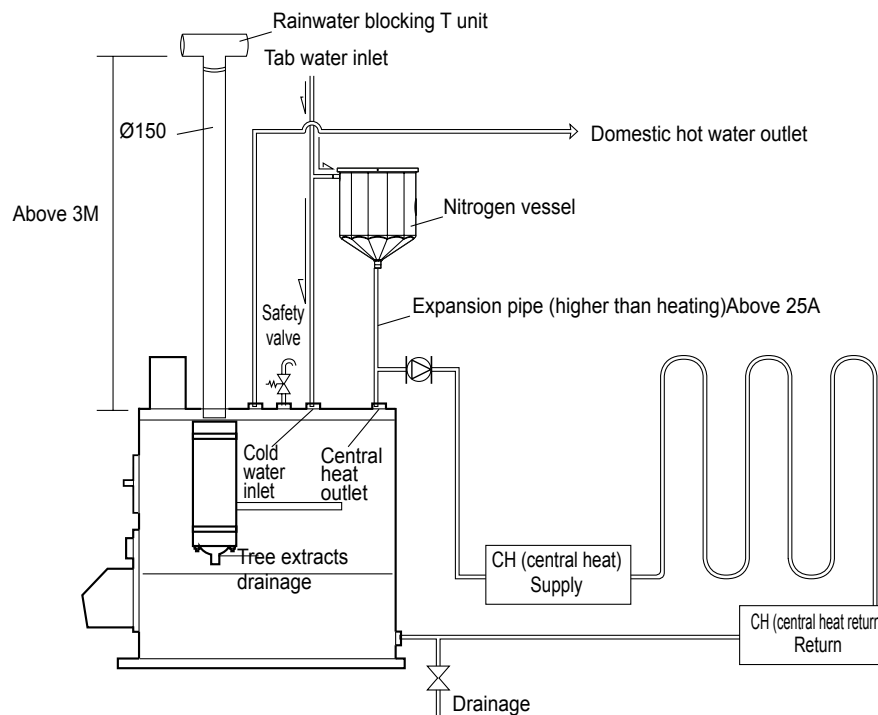
5 High Capacity Firewood Combustion Chamber

Easier input of firewood with bigger size of inlet hole that handles 50kg maximum through application of 500mm firewood combustion chamber.

■ Structure and Name



■ Standard Piping Diagram (Down piping system)



* Please refer to the user manuals for safe installation of pipes



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

NAEC The Korean Academy of Science and Technology

MKE Ministry of Knowledge Economy

Maeil Business Newspaper

The 100 major technologies of Korea and their principals

Kiturami. **Grown up with 20 Years** of Multi-purpose Boiler Using Various Fuels Like Firewood, Garbage, and even Oval Briquettes During the Era of High Oil Prices

In order to fit the era of high oil prices, Kiturami has been supplying and developing multi-purpose hybrid boiler enables various kinds of solid fuel first in Korea since 1998.

Through 20 years of experience and technology development, the efficiency of our multi-purpose boiler available for using firewood spread around the mountain and yards of farming and fishing village has been significantly improved which used to be 70% maximum when using firewood.

Kiturami hybrid multi-purpose boiler is the new product applied with Kiturami's unique technology available for supplying abundant hot water, keeping the room temperature through automatic operation of oil burner when the water inside the boiler lowered down till 50°C when input of solid fuel is delayed.

Specification of New Type Firewood Boiler

| Item | Type | Unit | KF - 35A2 | Remarks |
|---------------------------|------|----------------|-----------------------|--------------------------|
| Heating output (Firewood) | | Kcal/h | 20,000 | Heating/Supplying |
| Heating Area | | m ² | 83 ~ 99 | Maximum 99m ² |
| Fuel Consumption | | kg | 40 ~ 50kg | Cut wood |
| Heating Efficiency | | % | 91.2% | Dried wood |
| Hot water Efficiency | | % | 92% | Dried wood |
| Heating Inlet/Outlet | | A (inch) | 25(1) | Socket |
| Irrigation Capacity | | Liter | 150 | |
| Hot Water Inlet/Outlet | | A (inch) | 15(1/2) | Nipple |
| Flue diameter | | A | 150 | |
| External Dimensions | | W × L × H | 780 × 1,300 × 1,270mm | |
| Weight | | Kg | 250 | |
| Electric Power | | V | AC 220V × 50Hz | |

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

- ▶ The contents of this catalog may be changed without prior notice to improve appearance/performance.
- ▶ We are not responsible for any accident caused by arbitrary modification of the main body.



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