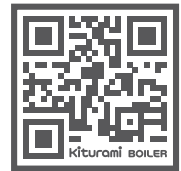




Kiturami

Kiturami 2012 Hybrid 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

Hybrid Firewood Boiler



No need to wake up in the dawn and insert wood with the help of automatic operation of burner **when the room gets cold, requiring more enough wood during evening (When the feed water is lower than 50°C)**

- **Wider Firewood Slot and Firewood Combustion Chamber**

No need to fulfil fuel regularly thanks to larger firewood slot and firewood combustion chamber

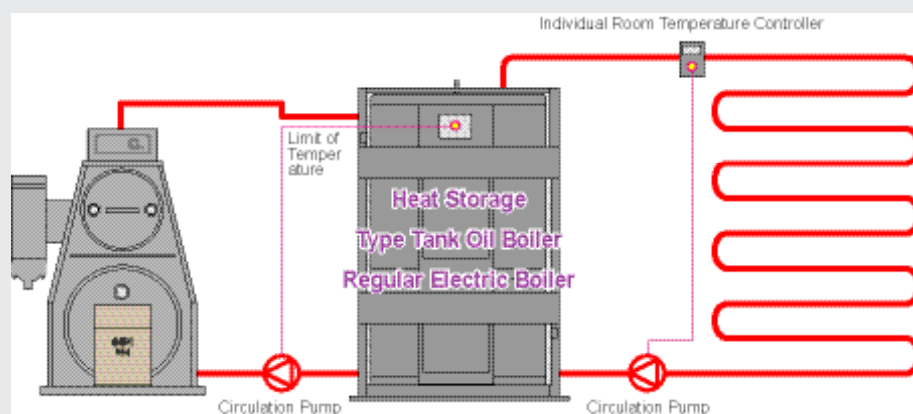
- **Attached Automatic Ejector of Wood Extracts**

Realised easier cleaning through automatic exhaustion of mass amount of the wood extracts from during combustion of wet wood, unclogging pipe and chimneys.

- **High-Efficiency 3PASS Boiler**

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 Hybrid System Connection**

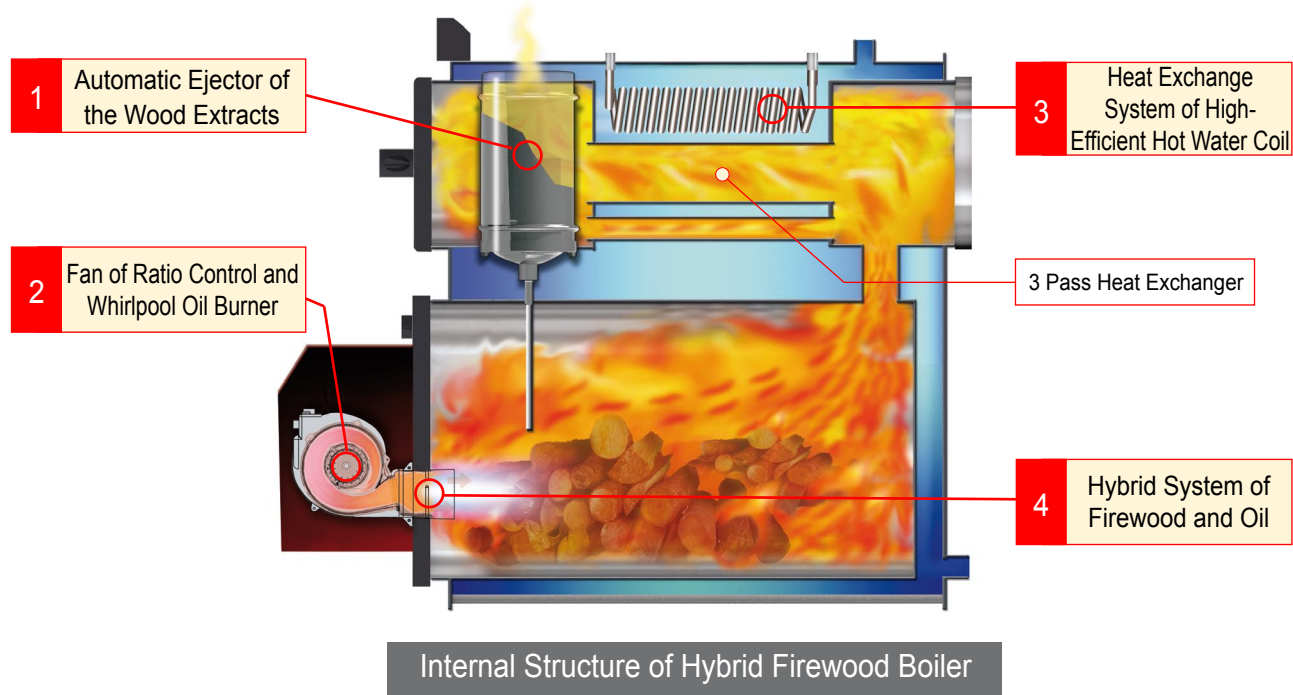


By saving heat in thermal storage tank with burning firewood the house will be well heated with heat stored in the tank. When the heat in the tank gets lowered the limit of temperature and the thermal storage tank senses the heat so heat supply is available through operating the automatic oil ignition system of hybrid firewood boiler.

* 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 hybrid firewood boiler.

- **Free from the fuel expenses by using firewood boiler at anywhere that costs electric charge**

■ Distinctive features



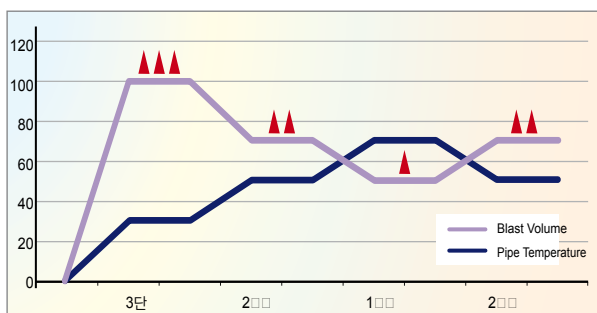
Internal Structure of Hybrid Firewood Boiler

1 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.

2 Proportional Control Ventilation Phase Control System

Keeping the heat for long time is available by making optimal condition of combustion through sensing the rate of climb and the temperature of pipe at the MCU on a real time basis.

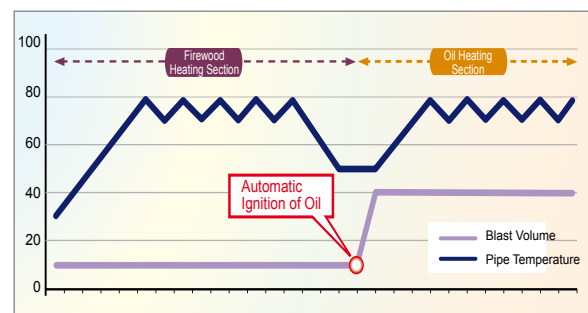


3 The world innovation, Heat Transferring Through Special Hot Water Coil

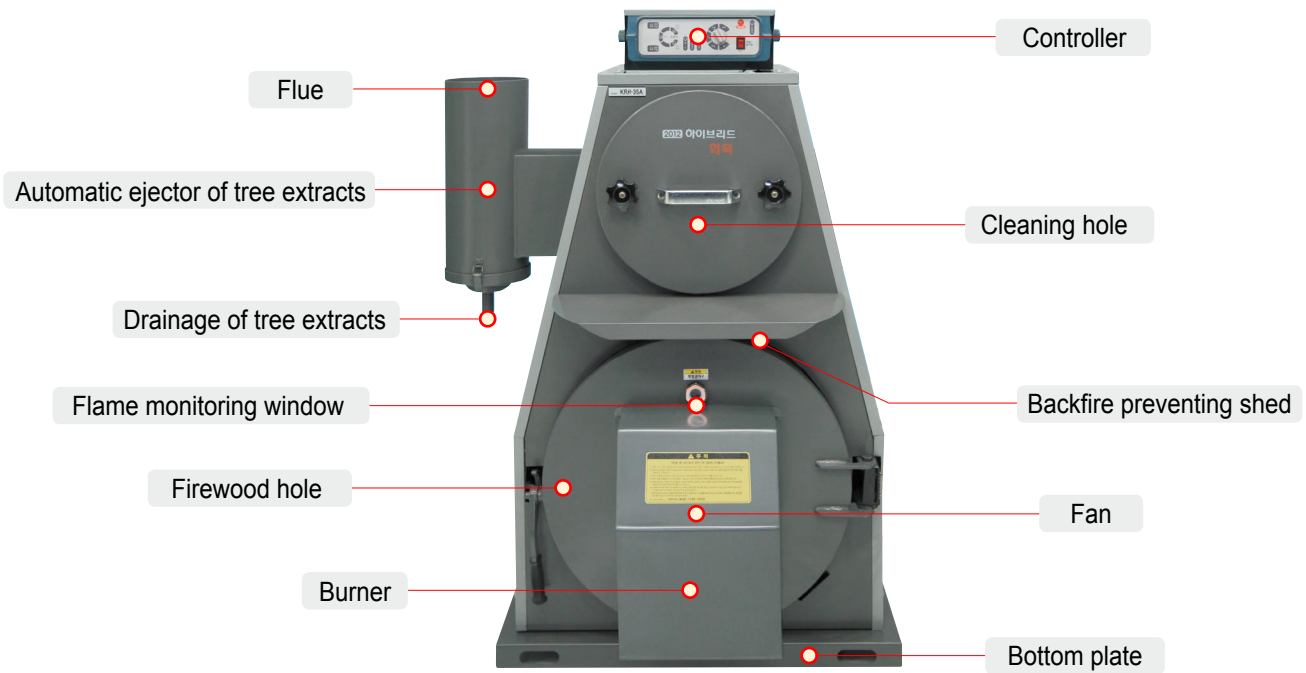
By loading the location of hot water heat exchanger at the highest part (maximum temperature) abundant supply of hot water through preventing ebullition of boiler's pipe became available and increased the rate of heat transferring through the structure of up and down two times transferring method of heat exchanger's flow

4 Hybrid System of Firewood and Oil

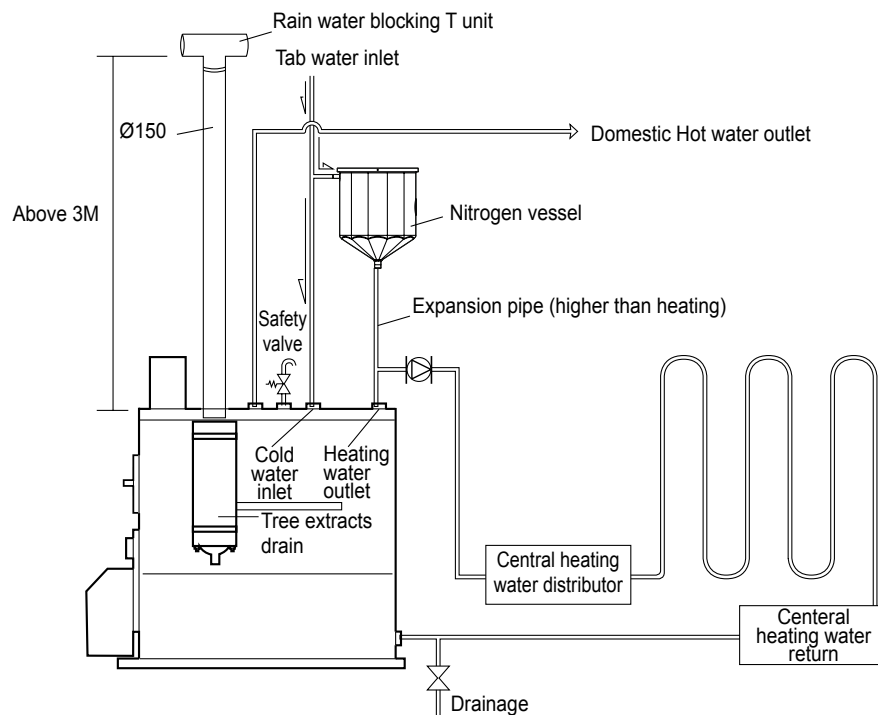
No need to wake up in the dawn and put firewood since the oil burner automatically operates and supplies enough heats when you forget to put sufficient firewood in the evening and rooms get cold.



■ Structure and Name



■ Standard Piping



* When installing the flue, please refer the manual



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 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 while using is delayed.

Specification of Hybrid Boiler Wood & Oil Dual Boiler Specification

Item	Type	Unit	KRH - 35A2	Remarks
Heating output (Firewood)		Kcal/h	20,000	Heating/Supplying
Heating output(Oil)		Kcal/h	25,000	During oil combustion
Heating Area		m ²	83 ~ 99	Maximum 100m
Fuel Consumption (Oil)		ℓ/h	3.3	
Fuel Consumption (Firewood)		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	
Heating Area		m ²	3.7	
Hot Water Inlet/Outlet		A(inch)	15(1/2)	Nipple
Flue diameter		A	150	
External Dimensions		W×D×H	780×1,300×1,270mm	
Weight		Kg	270	
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.

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

kiturami

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