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.
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.

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.

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)

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.

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

- Flue
- Controller
- Automatic Ejector of the Wood Extracts
- Cleaning hole
- Drainage of tree extracts
- Backfire preventing shed
- Flame monitoring window
- Air controller
- Fan
- Firewood hole
- Bottom plate

■ Standard Piping Diagram (Down piping system)

- Rainwater blocking T unit
- Tab water inlet
- Domestic hot water outlet
- Nitrogen vessel
- Expansion pipe (higher than heating) Above 25A
- Cold water inlet
- Central heat outlet
- Tree extracts drainage
- CH (central heat) Supply
- CH (central heat return) Return
- Drainage

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Type</th>
<th>Unit</th>
<th>KF - 35A2</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Heating output (Firewood)</td>
<td>Kcal/h</td>
<td></td>
<td>20,000</td>
<td></td>
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<tr>
<td>Heating Area</td>
<td>m²</td>
<td></td>
<td>83 ~ 99</td>
<td>Maximum 99m²</td>
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<tr>
<td>Fuel Consumption</td>
<td>kg</td>
<td></td>
<td>40 ~ 50kg</td>
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<tr>
<td>Heating Efficiency</td>
<td>%</td>
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<td>91.2%</td>
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<tr>
<td>Hot water Efficiency</td>
<td>%</td>
<td></td>
<td>92%</td>
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<tr>
<td>Heating Inlet/Outlet</td>
<td>A (inch)</td>
<td></td>
<td>25(1)</td>
<td>Socket</td>
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<tr>
<td>Irrigation Capacity</td>
<td>Liter</td>
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<tr>
<td>Hot Water Inlet/Outlet</td>
<td>A (inch)</td>
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<td>15(1/2)</td>
<td>Nipple</td>
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<tr>
<td>Flue diameter</td>
<td>A</td>
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<td>150</td>
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<tr>
<td>External Dimensions</td>
<td>W × L × H</td>
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<td>780 × 1,300 × 1,270mm</td>
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<tr>
<td>Weight</td>
<td>Kg</td>
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<td>250</td>
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<tr>
<td>Electric Power</td>
<td>V</td>
<td></td>
<td>AC 220V × 50Hz</td>
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For more information, please visit us at [www.kiturami.co.kr](http://www.kiturami.co.kr).

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