Kawasaki Circulating Fluidized Bed Boiler for Fluff Fuel-Type Waste Plastic

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Kawasaki Ecological Frontiers S class

Achieved significant power savings
By burning fluff fuel directly, the compression process of fluff fuel is reduced and energy saving is realized (94% reduction compared to conventional power).

Fluff Fuel: Waste fuel that does not require compression and solidification process

- Good flammability
- High bulk density: Easy to reach beds
- Low bulk density: Difficult to reach beds

Product Description
This boiler can use a wide variety of fuels, including solidified fuel such as waste plastics (RPF*1, RDF*2), construction waste, waste tires, and biomass, as well as carbon neutral fuels.

*1. Refuse Paper & Plastic Fuel (RPF): high-calorie solidified fuel made from waste paper and plastic that are difficult to recycle
*2. Refuse Derived Fuel (RDF): Solidified fuel made from garbage, combustible waste, and waste plastics

Features
- Since waste plastic fuel is a waste and treated as a non-fossil fuel, the amount of heat input in the fluff to be able to replace 100% of the fossil fuel used
- No need for RPF manufacturing equipment makes overall equipment lighter, maintenance-free, and less vibration and noise
- The fluff burner (patent pending) allows flame-retardant fluff fuel to generate the same amount of CO and NOX as other fuels
- Dioxin generation can be prevented by following combustion methods using waste-based fuels

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