Large Once-through Boiler

Features

- Further evolution of once-through boilers.
- High-performance, functional and long life, even equal to large boilers.
- Combustion and feed water PI controls.
- Equipped with a high-performance economizer.
- Water separator offers extremely high steam dryness.
- Equipped with a color touch panel.
- Equipped with self-diagnosis and safe mode functions.

Basic Concept or Summary

Feed water coming into the boiler evaporates by combustion energy and generated steam goes up.

*Economizer
Heat recovery device utilizing remaining
Effects or Remarks

- High efficiency: Boiler efficiency of 98%
- Stable steam pressure: ±0.01MPa with static load
- Long life: Designed to last for 15 years

Three features

Feature 1 High efficiency

- Compact once-through boiler
- Large once-through boiler

<table>
<thead>
<tr>
<th>Equivalent evaporation (kg/h) x number of units</th>
<th>Compact once-through boiler</th>
<th>Large once-through boiler</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,000 x 4 units</td>
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<td>4,000 x 2 units</td>
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</table>

| Fuel control method                          | Three position control     | PI control                |
| Water supply control method                  | ON/OFF control             | PI control                |
| Number of units control                      | Three position number of units control | PI number of units control |

Feature 2 Stable steam pressure

- Steady steam pressure remains stable even when steam demand changes.
- Boiler specifications for comparative verification facility of actual units.

Feature 3 Long life

Installation in Practice or Schedule

Domestic  Sales launched in 2000.
Overseas  Sales launched in 2006.

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