

Reliable WHR Solutions for the Cement Industry

To provide a cost-effective and eco-friendly WHR solution for the cement industry, SON Srl partnered with Kawasaki in 2023. Based on the successful boiler designs of both companies, they have joined their strengths to develop a Thermal Oil Heat Exchanger now tailored for Thermal Oil Circuits powering ORCs.



Expertise in Efficient Primary Heat Exchangers with stable, long-term power output

+ 40 years of Heat Recovery experience in the Cement Industry

776 WHR BOILERS supplied for dust-laden cement flue gas

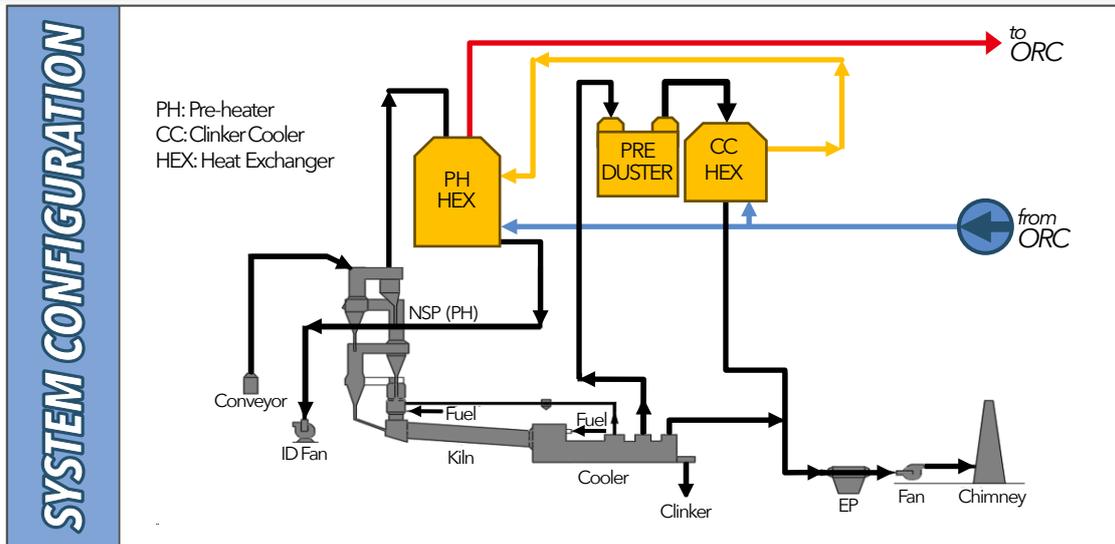
Combined STRENGTHS



Experience in Heat Exchangers for Thermal Oil Systems and Steam Generators

Expertise in WHR systems across diverse industries in the EU

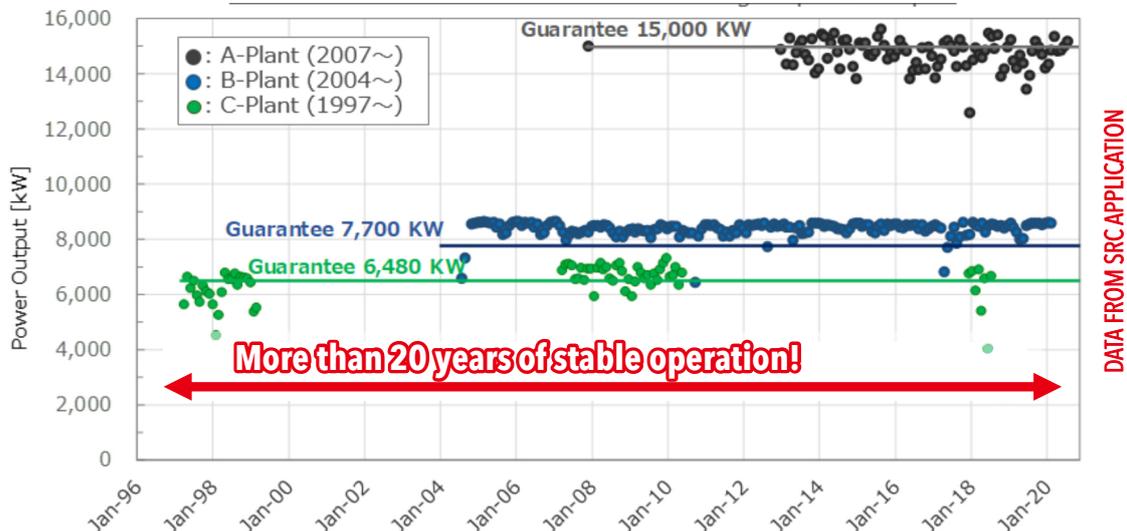
Manufacturing and Dedicated After Sales support based in Italy



Selection of the most efficient configuration of PH and Clinker Cooler (series, parallel, partial parallel) to be done according to the operating conditions.

Kawasaki Reliable Long-Term Performance

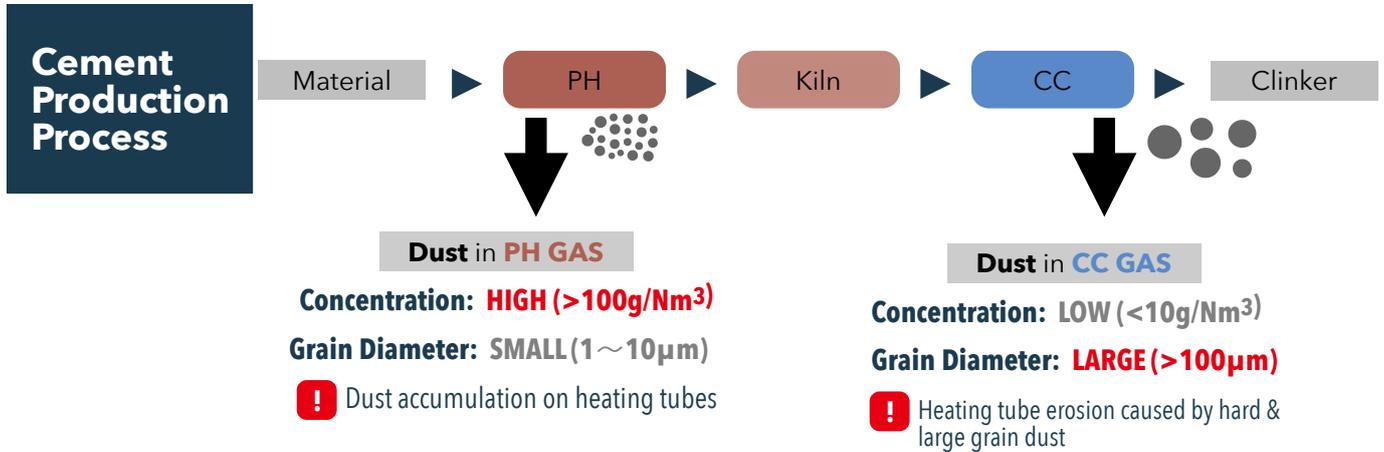
Kawasaki's WHR continues to maintain its original power output



Kawasaki's boiler can maintain stable performance even if boiler is introduced to high concentration of dust in PH gas (10~100 times more than other waste gases.)

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Understanding dust characteristics is crucial for designing HEX for CEMENT APPLICATION

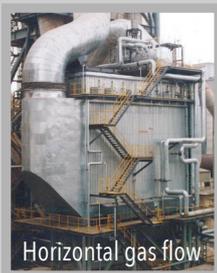


1 PH HEX Key Technology

Effective Dust Removal
from heating tubes
by hammering equipment



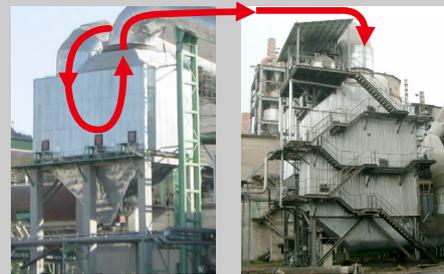
VEGA® Boiler



Conventional PH Boiler

2 CC HEX Key Technology

Dust Removal Upstream
of CC HEX



Pre Duster

Sedimentary Type
pre-duster for
very low draft loss

CC Boiler

Efficient
Heat Recovery

Upstream Installation
to prevent tube erosion

Modular Block of VEGA®



Easy Installation!

Draft Loss
Drop Flue Gas Side

Optimized
Structure

✓ Easy Installation

A MODULAR BLOCK DESIGN
for easy transportation and
installation.

✓ Lightweight & Compact

Compared to a conventional
PH boiler the VEGA® is 40%
smaller and weighs
32% less.

✓ Effective Dust Removal

Stable operation and Easy
maintenance!