



EST. 1993

PT. GIKOKO KOGYO INDONESIA

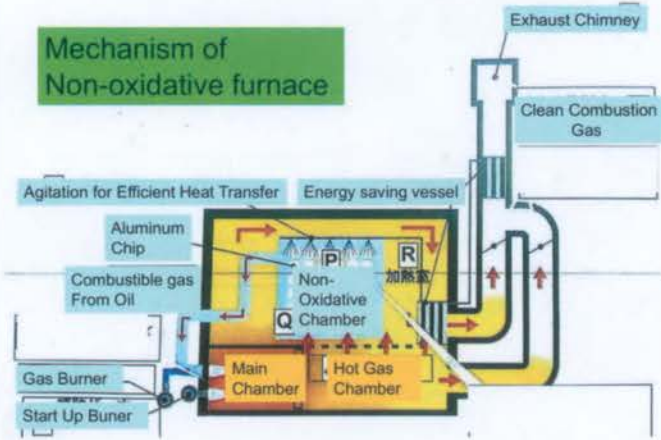
**Manufacture of Industrial Fan,
Boiler, and Dust Collector**

**INDUSTRY
4.0**

- DUST COLLECTOR**
- FAN AND BLOWER**
- HIGH EFFICIENCY BOILER**
- ABSORPTION CHILLER**
- BIOMASS WASTE UTILIZATION**

BIOMASS WASTE UTILIZATION FOR MATERIAL AND ENERGY

Carbonizing Furnace adaptable to wastes from all Industries



Continous Carbonize Furnace



Batch Furnace



Furnace Process Monitor



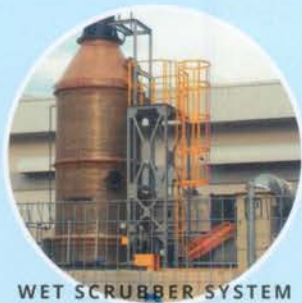
INDUSTRY 4.0

"Good Solution for environmental problems"

AIR POLLUTION CONTROL SYSTEM



DUST COLLECTOR SYSTEM



WET SCRUBBER SYSTEM



FAN & BLOWERS

High Pressure Blower



8CMM x 1300 mmAq

Limit Load Blower



1100 CMM x 100 mmAq

Customized Fan types we can supplied

1. Axial Fan
2. Centrifugal Fan
3. Multi Stage Fan
4. Sirocco Fan
5. Limited Load Fan
6. Turbo Fan

Available for material SUS Stainless (Gas contact) or Mildsteel

Impeller Balancing Machine



After Sales Service

- Preventive Maintenance
- Optimization and Restoration 'as new'
- Training Programs
- Improving Efficiency output and process of the plant

HIGH EFFICIENCY BOILER

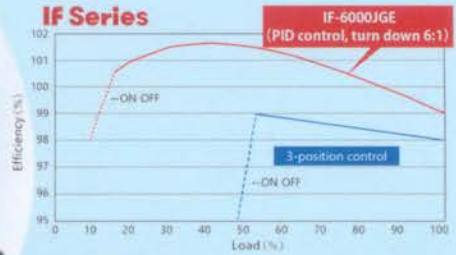
GAS

OIL

DUAL

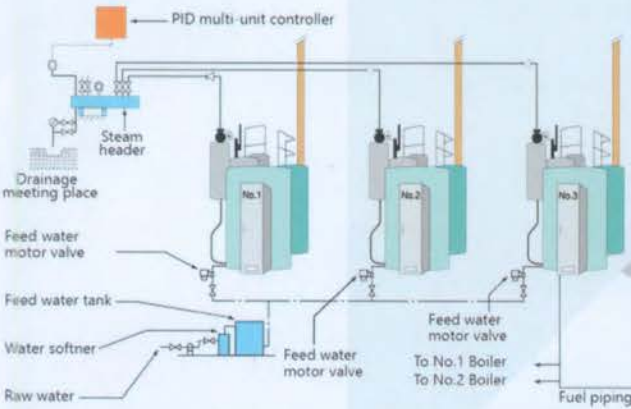


Boiler efficiency (Estimated)



Operation condition :
 [Steam pressure] 0.49MPa
 [Outdoor temperature] 35°C
 [Feed water temperature] 15°C

PID multi-unit control system



Reverse Osmosis System for Boiler Feed Water

ABSORPTION CHILLER FROM WASTE ENERGY

GAS

OIL

DUAL

HOT WATER

STEAM



Efficio NES series

Cooling Capacity	281 to 3,517 kW (80 to 1,000 USRT)	
Steam consumption rate	3.8 kg/h · RT	3.85 kg/h · RT
Chilled water temperature	15.0°C~7.0°C	12.0°C~7.0°C
Cooling water temperature	32.0°C~37.2°C	32.0°C~37.3°C

Automatic Load Control for Energy Saving

- Dust Collector Fan Flow Control
- Dust Collector Filter Condition Monitor
- Compressor Load Control
- Cooling Tower Load Control

10:12:59 FAN MONITORING 22/09/09

FAN STATUS				FILTER CONDITION	
RUN	<input checked="" type="checkbox"/>	ACC	<input checked="" type="checkbox"/>	DCC	<input type="checkbox"/>
RUNNING FREQ	1234.56	Hz			
MOTOR OUTPUT	1234.56	KW			
MOTOR VOLT	1234.56	VOLT			
MOTOR AMPERE	1234.56	AMP			
				<input type="radio"/>	CLEAN
				<input checked="" type="radio"/>	DIRTY
GIKOKO					

Remote Monitoring System (RMS)

- Fan Operation Condition
- Fire Alarm

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4.50 mm/s	1.83 mm/s	1.35 mm/s	2.40 mm/s
Bearing P 53	Bearing F 50	Bearing P 48	Bearing F 47
4.43 mm/s	3.61 mm/s	1.63 mm/s	0.37 mm/s
Bearing P 77	Bearing F 85	Bearing P 72	Bearing F 59
2.82 mm/s	3.17 mm/s	4.90 mm/s	3.07 mm/s
Bearing P 58	Bearing F 57	Bearing P 57	Bearing F 70

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2.73 mm/s	1.65 mm/s	1.27 mm/s	2.16 mm/s
Bearing P 54	Bearing F 57	Bearing P 50	Bearing F 49
-1.20 mm/s	5.68 mm/s	2.43 mm/s	1.96 mm/s
Bearing P 57	Bearing F 81	Bearing P 65	Bearing F 66
2.81 mm/s	4.38 mm/s	1.86 mm/s	1.83 mm/s
Bearing P 60	Bearing F 55	Bearing P 62	Bearing F 60



Suitable for remote monitoring of blowers located in areas with restricted access

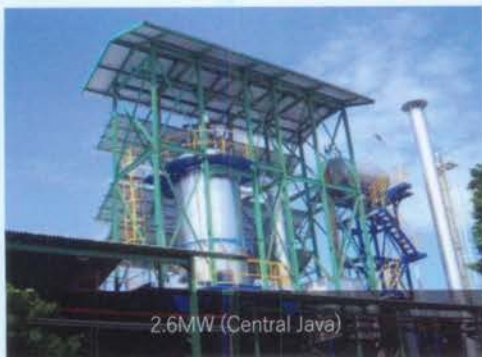
Heat Treatment Furnace



Wood Fired steam Boilers



Wood Fired Thermal Oil Heater



2.6MW (Central Java)



3.2 MW (East Java)

Scrap Al Melting Furnace c/w
Regeneration Burner (4MW)

Air Blast Room for Construction
Machinery



"Future of The Planet is in our
hands"



Factory 1

Jl. Sentul - Citereup No.68
Leuwintug Bogor - Indonesia
Telp. +62 21 875 4836

Factory 2

Kawasan Industri Pulogadung
Jl. Pulo Kambing Raya Kav. II i no.9
Jatinegara Jakarta Timur - Indonesia
Telp. +62 21 460 1970

mail : marketing@gikoko.co.id
www.gikoko.co.id

URBAN MINING

Reasons to process e-waste

Processing of electronics waste is important for the following reasons :

RECOVER PRECIOUS & RARE EARTH METALS

PRECIOUS METALS INCLUDE :

Gold, silver, titanium, cooper, palladium, lithium and nickel

Used batteries - removal of packaging materials, recovery of lithium and cobalt



Reject Battery



Electronic substrates - recovery of copper



Dismantled vehicle - removal of urethane rubber, recovery of magnesium



-By degreasing treatment before melting
-Burning damage reduction
-Prevention of black smoke generation



Filters for cutting machines Removal of chemical fibers, recovery of tungsten



Cleaning of painting jigs and gratings (removal of paint)



Copper sludge - removal of organic matter



Regeneration of used activated carbon



PT.GIKOKO KOGYO INDONESIA

mail to : marketing@gikoko.co.id

website : www.gikoko.co.id

The demand for metals is high, while the supply for production is decreasing - e-waste recycling and processing is the only way to sustain our technological needs. Soon enough, sufficient funding will be provided for larger scale processing, but we shouldn't wait for the waste situation to become more inconvenient in order to have more convenient recycling options.

