



#### **ABOUT US**

- → Akkaya Heating Instruments Manufacturing Inc. located in Türkiye, is involved in boiler production since its establishment in 1964.
- →Company is settled in Konya plant that has 14000 m2 open and appr. 8000 m2 closed area. Nearly 80% of annual production is exported over 60 countries all over the world.
- →In addition to its continuous production of conventional gas and oil systems for more than half a century, in the last decade main interest of the company is designing and manufacturing of steam, Hot Water and Thermal Oil boilers using various types of solid fuel including biomass and electrical fired boilers.
- →Akkaya Inc. aims a continuous growth with flexibility in design and production and strong engineering background.





## **ABOUT US**

- → Many years of experience in heating field and a strongengineering capacity of Akkaya Inc. Has helped to improve valuable solutions for providing highly effective biomass fired boiler designs, electrical boiler designs, fuel combustion systems, exhaust gas filtration systems, exhaust gas heat recovery systems, overall system efficiency and safety controls. R&D studies are carried out continuously and quite a big part of Company's income is invested in this area each year.
- → Due to global interest in renewable energy systems and green energy concepts Akkaya Inc. provides steam, hot water and thermal oil systems that are using both recovered energy sources or electricity to many different industries.
- → Having a strong awareness about environmental concerns like climate change, global warming and increasing energy demand against poor sources, Akkaya Inc. is prepared to serve the world with best effort by providing relevant products.



1964

Establishment of the company to manufacture domestic heating boilers.

1970

Agreement with Blowtherm
(Italy) regarding
burner distribution and
manufacturing

1978

Moving at the current production plant which had 13.000 m<sup>2</sup> open and 2.130 m<sup>2</sup> closed area.

1978

TSE (Turkish Standard
Institute) certification for the
burners

1984

Changing the company structure from Limited. to Incorporation

1987

TSE (Turkish Standard
Institute) certification for the
boilers

1993

Investment of 320 m<sup>2</sup> additional closed area at the plant for production and offices

1996

Renewing the agreement with Blowtherm for the gas appliances

1997

Investment of 700 m<sup>2</sup> additional closed area at the plant as warehouse

2002

Investment of additional machinery and equipments to increase the production capacity

2002

Investment of 850 m<sup>2</sup> additional closed area at the plant as warehouse for steel plates and production of big capacity boilers.

2002

The total closed area has reached 4.000 m<sup>2</sup>

2002

Certification of the welders according to EN 9606

2003

ISO9001-2000 certification of the company

2003

Getting license for Natural gas piping construction



2003

TSE (Turkish Standard
Institute) certification for the
gas burners

2004

Introducing NDT applications for the steam boiler production

2006

PED97/23 Mod. B + F certification with Bureau Veritas (NB0062) for steam boilers 2006

Openning Istanbul Sales
Office

2008

PED97/23 Mod. D certification with TSE (NB 1783) for steam boilers

2010

**Openning Izmir Sales Office** 

2011

PED97/23 Mod. H certification with TSE (NB 1783) for steam boilers

2011

Machinery Investments for capacity increase is completed successfuly

2012

Investment for a new crane system for production of big capacities.

2012

Extension and renewal of CE certification for thermal oil, hot water and electrical steam boilers

2013

Managing office and building restorations completed

2014

R&D out for new grate and filtering systems application with solid fuel fired boilers and introducing WCVG (water cooled vibrating grate) system.

2015

R&D studies for steam and hot water boiler designs introducing YHYB & YHYBWB (Half hybrid) boilers. 2016

Investments for managing department offices' improvements and environmental renovations

2016

Renewal of UT Certificates according to EN 9712



2016

2014/68/EU Module B+F CE Certification with TUV Austria SERVICES GMBHfor boilers

2018

2014/68/EU Module H1 CE Certification with TSE for boilers

EN1090: Execution of steel structures and aluminium structures. Technical requirements for cold-formed structural aluminium elements and cold-formed structures for roof, ceiling, floor and wall applications

2016

Making R&D studies and project developments for cogeneration and power plant systems.

Biomass application improvements.

2018

Corporate identity and new logo studies have been completed.

2021

EN3834: Quality requirements for fusion welding of metallic materials

2017

Improving new heat recovery and thermaloil boiler designs for ORC applications.

2019

Ongoing investment for enlargement of closed production area, new workshop building

2022

Process and infrastructre improvements by 5S/Lean Manufacturing / Kaizen works to increase productivity.

2017

2014/68/EU Module B+F CE Certification with TUV Austria SERVICES GMBH for boilers

2019

Investment of 3500 m<sup>2</sup> additional closed area at the plant as new workshop

2018

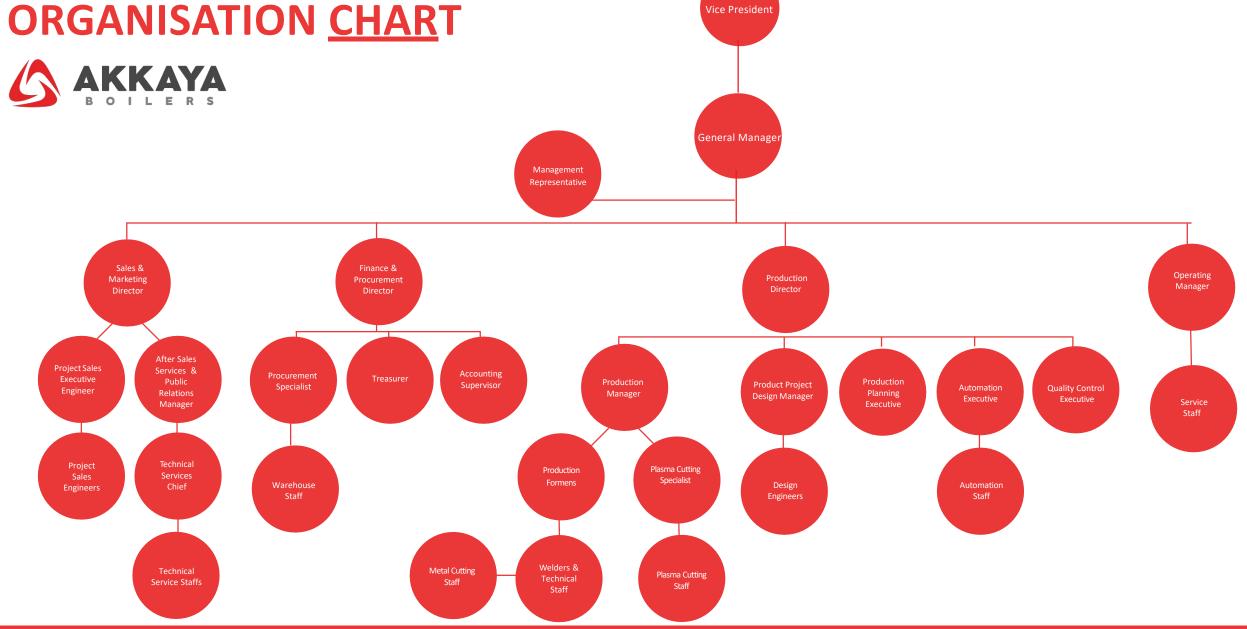
Renewal of Quality
Management System
according to ISO9001:2015

2020

3500 m2 new production area studies have been completed.









Akkaya products are sold and installed in various regions of the World together with our agents and/or with Akkaya's own sales staff; Locations where Akkaya has continuous agents are indicated in the map.





Since 2023 the number of countries we have exported and re-exported our goods has reached more than 60 countries.

#### **AFRICA**

Libya Egypt Eth iopia Madagascar Algeria Mali Morocco Mauritania Tunisia Indonesia **Equator** Kenya Senegal

#### **ASIA**

Iraq

China

Malaysia

Azerbaijan Uzbekistan **United Arab Emirates** Armenia Lebanon Saudi Arabia Jordan Iran Israel

#### Turkmenistan Kazakhistan Kirghizistan Kuwait

Palestine Bahrain Umman Yemen

#### **AMERICAS**

Chile **Dominic** Cuba

#### **EUROPE**

Spain Denmark Romania Latvia Bulgaria Ukrania Lithuania Moldova

**Netherlands** France

Russia **Poland** 

Albania

Ireland

Serbia Turkish Republic of

Northern Cyprus

Kosovo

Montenegro

Georgia Italy

Macedonia Norway

**AUSTRALIA** 

Australia





Since 2010, 400+ projects are completed at various capacities inland and abroad



Beside the standard ones, Akkaya Inc. handles custom design and special products, too through highly experienced, capable engineering















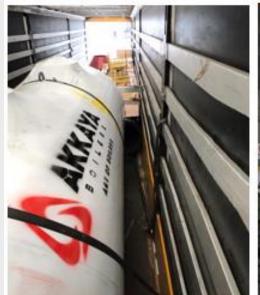










































# **EQUIPMENT & MACHINERY LIST**MECHANICAL SHAPING WORKSHOP MACHINERY LIST:

- → Roll bending machine (big size) 1 nos.
- → Roll bending machine (medium size) 2 nos.
- → Roll bending machine (little size) 1 nos.
- → Flanging machine 2 nos.
- → Corrugation machine 3 nos.
- → Tube bending machine 2 nos.
- → Water tube panel bending machine 1 nos.
- → Plasma hand cutting 1 nos.
- → Hydraulic sheet metal bending 1 nos.
- → Manual sheet metal bending 1 nos.
- → 500 ton hydraulic press 1 nos.
- → Hydraulic round press 1 nos.
- → Eccentric press 1 nos.







# **EQUIPMENT & MACHINERY LIST**MECHANIC WORKSHOP MACHINERY LIST:

- → Milling Machine 1 Nos.
- → Lathe 5 Nos.
- → Planner 1 Nos.
- → Shaper 2 Nos.
- → Radial Drilling Machine 3 Nos.
- → Circular saw machine 1 nos.
- → Band saw machine 1 nos.
- → Stationary column drilling machine 6 nos.
- → Grinding machine 3 nos.
- → Pipe thereading machine 1 nos.
- → Hydraulic tube bending machine 1 nos.
- → Forklift & Manlift
- → Portal Crane 3 nos.
- → Overhead Crane 5 nos.





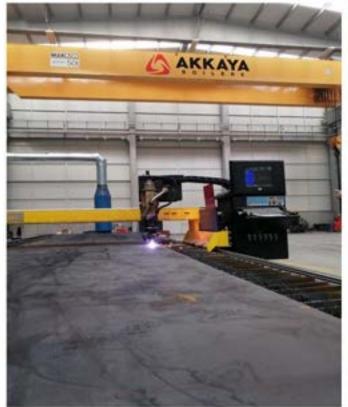






# **EQUIPMENT & MACHINERY LIST**WELDING WORKSHOP MACHINERY LIST:

- → CNC controlled automatic plazma cutting machine
- → Automatic orbital TIG welding machine
- → Oerlikon SGH 150 submerge welding machine ad its automatic tractor.
- → MIG/MAG welding machine 18 nos.
- → TIG welding machine 2 nos.
- → Electric arc welding machine 10 nos.
- → Point weld machine 2 nos
- → Hand Grind machine 5 nos.
- → Orbital TIG welding machine
- → Water tube panel welding machine 1 nos.
- → Double head coloumn boom welding machine with rotaters (Max dia:4m)
- → Max weight. 30 tons-Arc welding head & MIG/MAG welding head submerged.







#### **APPLIED STANDARDS AND CERTIFICATES**

#### **CERTIFICATES**

- → ISO 9001-2015 QUALITY MANAGEMENT SYSTEM CERTIFICATE approved by TSE
- → PED 2014/68/EU CE MODULE B CERTIFICATES Approved by TUV Austria Services GMBH (NB:0408)
- → PED 2014/68/EU CE MODULE F CERTIFICATES Approved by TUV Austria Services GMBH (NB:0408)
- → PED 2014/68/EU CE MODULE G CERTIFICATES Approved by Probo (NB:0875)
- → PED 2014/68/EU CE MODULE H1 CERTIFICATES
- Approved by TSE (NB:1783)
- → TS EN 12953 STANDARD SERIES Shell Boilers
- → TS EN 12952 STANDARD SERIES –Water Tube Boilers and Auxiliary Installations
- → TS EN 13445 STANDARD SERIES Unfired Pressure Vessels
- → TS497 STANDARD Boilers-Welded Steel
- → TS EN 303-5 STANDARD Heating boilers for solid fuels, manually and automatically stoked, nominal heat output of up to 500 kW
- → RADIOGRAPHIC TESTING LEVEL 2 CERTIFICATE according to EN ISO 9712 approved by METU
- → ULTRASONIC TESTING LEVEL 2 CERTIFICATE according to EN ISO 9712 approved by TUV SUD Slovakia

- → MAGNETIC PARTICLE TESTING LEVEL 2
  CERTIFICATE according to EN ISO 9712 approved by TUV NORD
- → WELDER APPROVAL TEST CERTIFICATES according to EN9606-1 approved by Probo & TUV AUSTRIA
- → WELDING PROCEDURE SPECIFICATION
  CERTIFICATES according to EN ISO 15609 approved by TSE
- → WELDING PROCEDURE QUALIFICATION RECORD
  CERTIFICATES according to EN 15614-1 approved by Bureau
  Veritas & Probo
- → WELDING PROCEDURE QUALIFICATION RECORD
  CERTIFICATES according to EN 15614-8 approved by Bureau
  Veritas & TUV Austria
- → WELDING PROCEDURE QUALIFICATION RECORD CERTIFICATES according to EN 15613 approved by TUV Austria











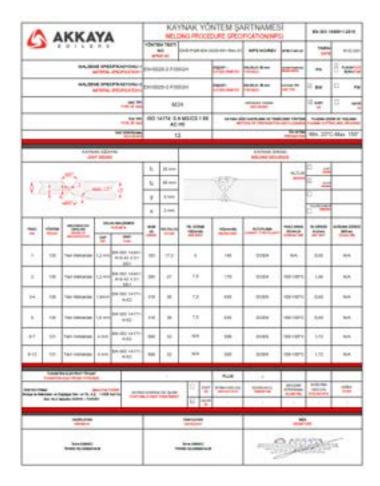


#### **APPLIED STANDARDS AND CERTIFICATES**

#### **CERTIFICATES**









#### **APPLIED STANDARDS AND CERTIFICATES**

Since 2003 ISO9001 quality assurance system is being applied in our production plant. Passing to ISO9001:2015 was successfully completed in 2017.

Manufacturing of the pressurised equipment is carried out in accordance with PED 2014/68 European Community directive.



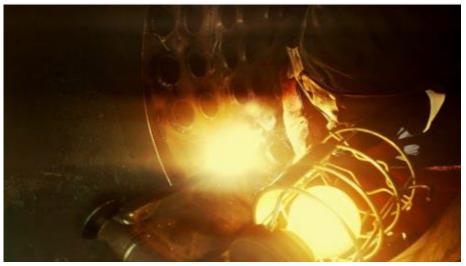


There are 3 main important materials used in boiler making which are;

- 1 Steel plates
- 2 Fire Tubes
- 3 Welding consumables

Akkaya Incorp. is adopting ISO 9001-2015 rules for the purchasement procedures. The steel plates and tubes are followed by the proper documents for each steam boiler







#### Short review of our purchasing procedure

Request form from the workshop F.PS.SA.02

Request of offer from the suppliers F.PS.SA.03

Purchasement from the proper supplier F.PS.SA.04

Control & Acception of the goods F.PS.SA.06

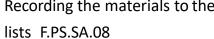
Recording the materials to the

List of the materials and services those effects the product quality with the approved suppliers including acception criterias F.PS.SA.09



Management review

Control form of the suppliers F.9.2.2





#### **Steel sheets:**

For the boiler construction following quality steels

is used

- → P265GH
- → P295GH & P355GH / S235J
- **→** S355J

Main supplier is;

**ERDEMIR** (www.erdemir.com.tr)

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#### **Tubes:**

For the boiler construction tubes with following quality is used

#### → For seamless tubes EN10216-2

The main suppliers are

Borusan (www.borusanmannesmann.com)

Benteler (www.benteler.com)

Aydın Boru (www.aydinboru.com)



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#### **Sample Welder Certificates:**



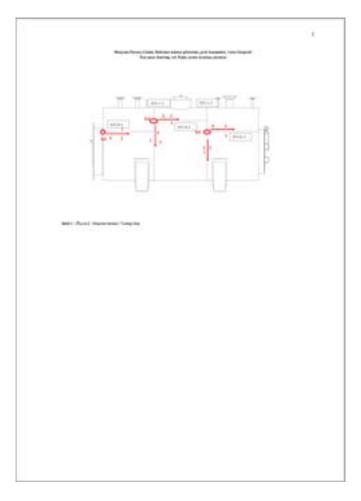


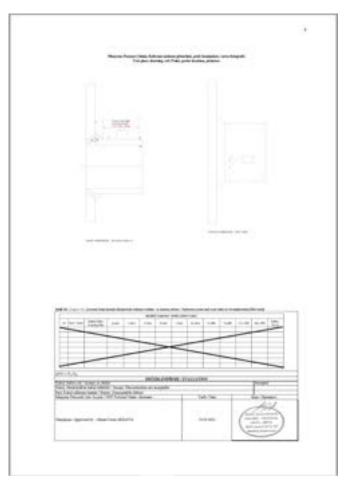




#### **Sample UT Test Reports:**

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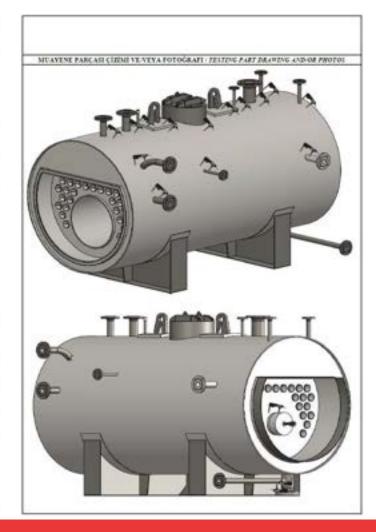






#### **Sample MT Test Reports:**

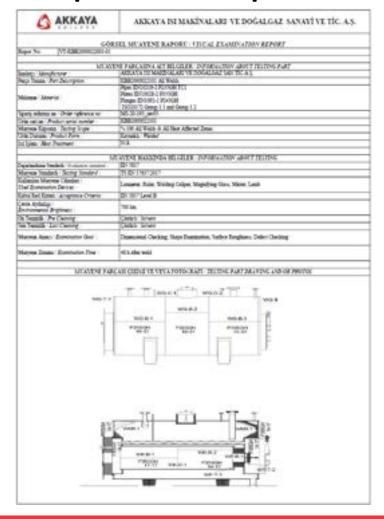
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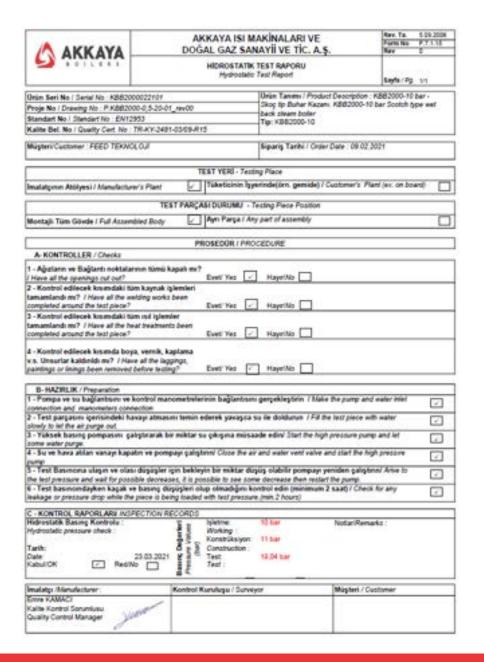
#### **Sample VT Test Reports:**







Sample Hydrostatic Test Reports:





**Sample Boiler Control and Shipment Approval Form:** 



#### AKKAYA ISI MAKINALARI VE

Rev. Ta. 15.02.2009

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## OUR PRODUCTS

#### **BOILERS**

Saturated / Superheated Steam Boilers

Hot / Superheated Water Boilers

**Thermal Oil Heaters** 

Waste Heat Recovery Boilers

**Marine Boilers** 

# BOILER AUXILIARY EQU<u>IPME</u>NT

Biomass Combustion Systems

Cyclone/Multicyclone

Chimney

**Condensate Tank/Deaerator** 

**Economizer** 

**Control Board** 



## SATURATED/SUPERHEATED STEAM BOILERS



KBB-E SERIES:
REVERSE FLAME 2 PASS

STEAM BOILERS



**SBK SERIES:** 

**SCOTCH TYPE STEAM BOILERS** 



TFB SERIES: SCOTCH TYPE
TWIN FURNACE STEAM
BOILERS



**WTB SERIES:** 

D TYPE WATER TUBE STEAM BOILERS



**YHYB SERIES:** 

SEMI HYBRID SOLID FUEL FIRED STEAM BOILERS



**YSB SERIES:** 

SEMI CYLINDRICAL SOLID FUEL FIRED STEAM BOILERS



**PSB SERIES:** 

EASY EXPORT PACKAGED TYPE STEAM BOILERS FOR DAIRY AND FEED PLANTS



**EBS SERIES:** 

EASY EXPORT PACKAGED TYPE SOLID FIRED STEAM BOILERS



**EES SERIES:** 

EASY EXPORT PACKAGED TYPE ELECTRIC STEAM GENERATORS





#### **KBB-E SERIES**

Steam generation capacity:

300 kg/h - 3000 kg/h

**Operation Pressure: 0.5-20 Bar** 

Fuel Type: Natural Gas, LPG, Diesel, Fuel Oil





# **DESIGN**





#### MANUFACTURING & SHIPPING

















Reference Project- 1	
Location:	Iraq
Capacity:	2 x 2 t/h – 8 bar
Fuel Type:	Fuel Oil
Process:	Dairy Plants





Reference Project- 2	
Location:	Libya
Capacity:	750 kg/h – 8 bar
Fuel Type:	Diesel
Process:	Animal Feed Mill Plant



Reference Project- 3	
Location:	Qatar
Capacity:	1000 kg/h – 8 bar
Fuel Type:	Fuel Oil
Process:	Animal Feed Mill Plant



# SBK – SCOTCH TYPE STEAM BOILERS

#### **SBK SERIES**

Steam generation capacity:

320 kg/h - 18000 kg/h

**Operating Pressure: 0.5-20 Bar** 

Fuel Type: Natural Gas, LPG, Diesel, Fuel Oil



## **DESIGN**





#### MANUFACTURING & SHIPPING













#### MANUFACTURING & SHIPPING















Reference Project- 1	
Location:	Turkey / Konya
Capacity:	6000 kg/h – 8 bar
Fuel Type:	Natural Gas
Process:	Animal Feed Mill Plant



Reference Project- 2	
Location:	Kuwait
Capacity:	6000 kg/h – 8 bar
Fuel Type:	Diesel
Process:	<b>EPS Production</b>



Reference Project- 3	
Location:	Saudi Arabia
Capacity:	2x 10 t/h – 10 bar
Fuel Type:	Natural Gas
Process:	Laundry



Reference Project- 4	
Location:	Egypt
Capacity:	10 t/h – 10 bar
Fuel Type:	Natural Gas
Process:	Fertilizer Chemicals



Reference Project- 5	
Location:	Madagaskar
Capacity:	5 t/h – 14 bar
Fuel Type:	HFO – Natural Gas
Process:	Dairy products



Reference Project- 6	
Location:	Konya/Turkey
Capacity:	2 t/h – 16 bar
Fuel Type:	Natural Gas
Process:	<b>Automative Spare Parts</b>



Reference Project- 8	
Location:	Turkey/ Balıkesir
Capacity:	8 t/h - 8 Bar - 260 oC
Fuel Type:	Natural Gas
Process:	Power Plant

#### 8 tph - 8 bar - 260 C Superheated Mobile Steam Boiler (Containerized)

Project Location: Bandırma / Balıkesir / Turkey

Purpose of Project: Supplying of Gland Steam to the Steam Turbine

Power Plant Capacity: 1543 mWe total

Power Plant Type: Natural Gas Combined Cycle Power Plant (CCPP)

#### **Scope of Project;**

- \* Saturated Steam Boiler
- \* External Superheater
- \* Spray-Scrubber Type Deaerator
- \* Blowdown Tank
- \* PLC controlled Automation Control Board
- \* Water Quality Monitoring and Chemical Dosing System
- \* Nitrogen Blanketing System
- \* Fire Extinguishing & Alarm System
- \* Containers
- \* Piping for steam, water, air etc. (including heat tracing, isolation etc.)
- \* 2nd Stage Natural Gas Pressure Reducing Stations







## PSB - EASY EXPORT PACKAGED TYPE STEAM BOILERS



#### **PSB SERIES**

Steam generation capacity:

300 kg/h - 4000 kg/h

**Operating Pressure: 0.5-20 Bar** 

Fuel Type: Natural Gas, LPG, Diesel, Fuel Oil



#### **DESIGN**









#### MANUFACTURING & SHIPPING

















Reference Project- 1	
Location:	Mauritania
Capacity:	1000 kg/h - 8 Bar
Fuel Type:	Fuel Oil
Process:	Animal Feed Mill Plant





Reference Project- 2	
Location:	Turkey/ Konya
Capacity:	1500 kg/h – 12 bar
Fuel Type:	Natural Gas
Process:	Automotive



Reference Project- 3	
Location:	Turkey/ Konya
Capacity:	2000 kg/h – 8 bar
Fuel Type:	Natural Gas
Process:	Animal Feed Mill Plant



Reference Project- 4	
Location:	Georgia
Capacity:	1000 kg/h - 8 Bar
Fuel Type:	Natural Gas
Process:	Thermal Insulation Materials



Reference Project- 5	
Location:	Turkey / Konya
Capacity:	1000 kg/h – 8 bar
Fuel Type:	Natural Gas
Process:	Dairy Plants



Reference Project- 6	
Location:	Turkey / Bilecik
Capacity:	1000 kg/h – 8 bar
Fuel Type:	Natural Gas
Process:	Petrochemical Products



Reference Project- 7	
Location:	Latvia
Capacity:	1000 kg/h – 8 bar
Fuel Type:	Natural Gas
Process:	Heating Equipments



Reference Project- 8	
Location:	Libya
Capacity:	3000 kg/h – 8 bar
Fuel Type:	Diesel
Process:	Animal Feed Mill Plant



Reference Project- 9	
Location:	Macedonia
Capacity:	1000 kg/h – 8 bar
Fuel Type:	LPG
Process:	Food Products

EBS – EASY EXPORT

PACKAGED TYPE

SOLID FIRED

STEAM BOILERS



Steam generation capacity:

250 kg/h - 2000 kg/h

Operating Pressure: 0.5 - 8 Bar

Fuel Type: Biomass, Coal, Pellet

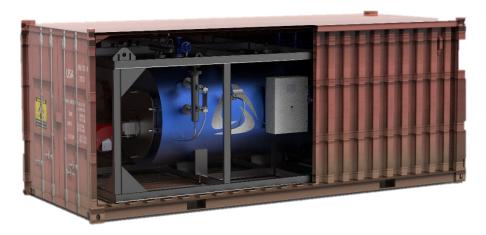




#### **DESIGN**













#### **ELKBJ SERIES**

Steam generation capacity: 6 kg/h - 10000 kg/h

**Operating Pressure:** 

8 Bar HP Series - 3 Bar LP Series

**Fuel Type: Electric** 



## **DESIGN**





## WHY SHOULD WE CHOOSE ELECTRICAL STEAM GENERATOR?

- Thermal efficiency over 98%
- Wide range of capacity regulation
- Saturated/superheated steam production opportunity
- Requires less space for installation
- With its simple working system, it reduces operating costs and the need for qualified stuff
- Requires less maintenance and service
- Zero emissions with electricity from renewable energy sources (Wind, Solar, etc.)
- Provides quiet operation
- It is very suitable for chassis / container mobile systems and is preferred for rental applications.
- Designed in accordance with the EU border carbon regulation mechanism
- Fast steam generation
- Ability to respond quickly to fluctuating steam needs in the process





Reference Project- 1	
Location:	Norway
Capacity:	1600 kg/h – 11 bar
Fuel Type:	Electric
Process:	Rental



Reference Project- 2	
Location:	Norway
Capacity:	5400 kg/h – 11 bar
Fuel Type:	Electric
Process:	Rental





Reference Project- 3	
Location:	Norway
Capacity:	3200 kg/h – 11 bar
Fuel Type:	Electric
Process:	Rental

# EES – EASY EXPORT PACKAGED TYPE ELECTRIC STEAM



Steam generation capacity: 6 kg/h - 2000 kg/h Operating Pressure:

8 Bar HP Series - 3 Bar LP Series

**GENERATORS** 

**Fuel Type: Electric** 





#### **DESIGN**









#### **MANUFACTURING** & SHIPPING

















Reference Project- 1	
Location:	Kosova
Capacity:	100 kg/h – 8 bar
Fuel Type:	Electric
Process:	<b>Mine Products</b>



Reference Project- 2	
Location:	Indonesia
Capacity:	75 kg/h – 8 bar
Fuel Type:	Electric
Process:	Medical Equipment Production

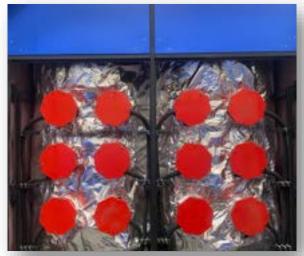


Reference Project- 3	
Location:	Norway
Capacity:	500 kg/h – 0,4 bar
Fuel Type:	Electric
Process:	Rental









Reference Project- 4	
Location:	Norway
Capacity:	1000 kg/h – 8 bar
Fuel Type:	Electric
Process:	Rental





# WTB – D TYPE WATER TUBE STEAM BOILERS

#### **WTB-D SERIES**

Steam generation capacity:

15000 kg/h - 120000 kg/h

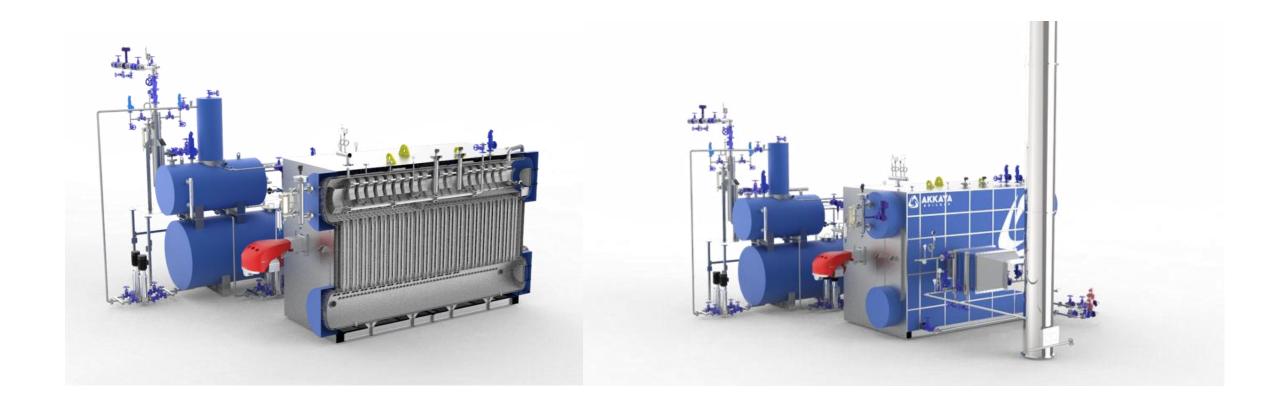
**Operating Pressure: 0.5-40 Bar** 

Fuel Type: Natural Gas, LPG, Diesel, Fuel Oil





#### **DESIGN**





#### **MANUFACTURING** & SHIPPING















### **MANUFACTURING** & SHIPPING















Reference Project- 1	
Location:	Iraq
Capacity:	10 t/h (2x5 t/h) – 28 bar – 250 oC
Fuel Type:	HFO
Process:	Petro-chemical Production Facilities



Reference Project- 2	
Location:	Egypt
Capacity:	50 t/h (2x25 t/h – 14 bar
Fuel Type:	Natural Gas
Process:	Fertilizer Chemicals





Steam generation capacity:

500 kg/h - 20000 kg/h

**Operating Pressure: 0.5-20 Bar** 

Fuel Type: Biomass, Coal, Pellet,

(Natural Gas, LPG, Diesel, Fuel Oil - Optional)



#### **DESIGN**





#### **MANUFACTURING** & SHIPPING















### **MANUFACTURING** & SHIPPING

















Reference Project- 1	
Location:	Turkey / Karaman
Capacity:	4000 kg/h – 8 bar
Fuel Type:	Biomass - Coal & Fruit Pits & Fruit Pomace
Process:	Confectionery Products









Reference Project- 2	
Location:	Moldova
Capacity:	19 t/h (7 th +12 t/h) – 10 bar
Fuel Type:	Biomass –Pellets, Dry pulp of apples (Apple pomace), Coal, Natural Gas
Process:	Vegetables and Fruit Processing





Reference Project- 3	
Location:	Turkey/Konya
Capacity:	2500 kg/h – 8 bar
Fuel Type:	Chicken manure
Process:	Chicken & Egg Factory





Reference Project- 4	
Location:	Russia
Capacity:	10000 kg/h – 16 bar
Fuel Type:	Biomass - Sunflower Seed Husk, Natural Gas
Process:	Sunflower Oil Production



Reference Project- 5	
Location:	Romania
Capacity:	3500 kg/h – 8 bar
Fuel Type:	Biomass – Woodchips
Process:	<b>Lumber Factory</b>





Reference Project- 6	
Location:	Bulgaria
Capacity:	6000 kg/h – 16 bar
Fuel Type:	Biomass - Sunflower Seed Husk
Process:	Sunflower Oil Production



Reference Project- 7	
Location:	Morocco
Capacity:	6000 kg/h – 10 bar
Fuel Type:	Biomass – Olive Pomace
Process:	Food Products



Reference Project- 8	
Location:	Morocco
Capacity:	4000 kg/h – 8 bar
Fuel Type:	Biomass – Olive Pomace
Process:	<b>Dairy Products</b>









Reference Project- 9	
Location:	Romania
Capacity:	10000 kg/h – 12 bar
Fuel Type:	Biomass – Sunflower Seed Husk & its Pellet
Process:	Food Products

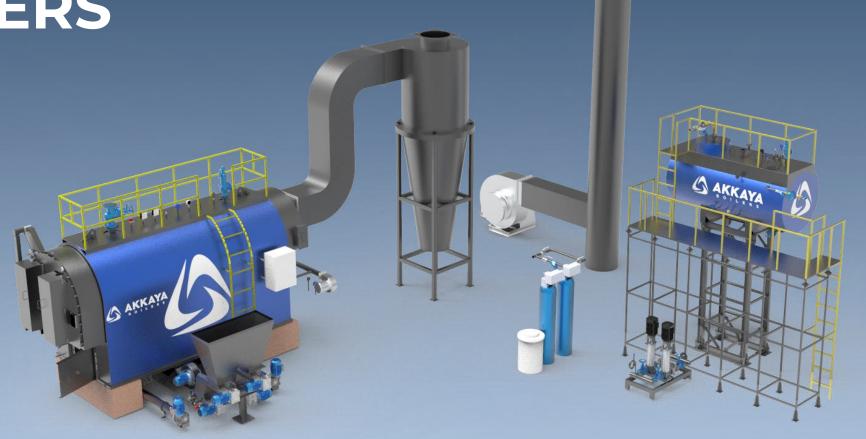






#### **YSB SERIES**

Steam generation capacity: 150 kg / h - 3750 kg / h Operating Pressure: 0.5 - 8 Bar Fuel Type: Biomass, Coal, Pellet



### **DESIGN**





#### **MANUFACTURING & SHIPPING**





#### **MANUFACTURING** & SHIPPING



















Reference Project- 1	
Location:	Romania
Capacity:	2000 kg/h – 8 bar
Fuel Type:	Biomass – Woodchips
Process:	Dairy Plant



Reference Project- 2	
Location:	Turkey / Igdır
Capacity:	3750 kg/h – 6 bar
Fuel Type:	Biomass – Coal
Process:	Dairy Plant



Reference Project- 3	
Location:	Spain
Capacity:	3000 kg/h – 8 bar
Fuel Type:	Biomass - Almond Peel
Process:	Meat Plant



Reference Project- 4	
Location:	Latvia
Capacity:	1250 kg/h – 8 bar
Fuel Type:	Biomass - Pellet
Process:	Jam & Tea Production



Reference Project- 5	
Location:	Romania
Capacity:	2000 kg/h – 8 bar
Fuel Type:	Biomass - Rubber Tire & Coal
Process:	Tire Production



Reference Project- 6	
Location:	Jordan
Capacity:	2000 kg/h – 6 bar
Fuel Type:	Biomass - Olive Seed
Process:	Olive Factory





Reference Project- 7	
Location:	Spain
Capacity:	3000 kg/h – 10 bar
Fuel Type:	Biomass - Pellet & Almond Peel
Process:	Dairy Plant



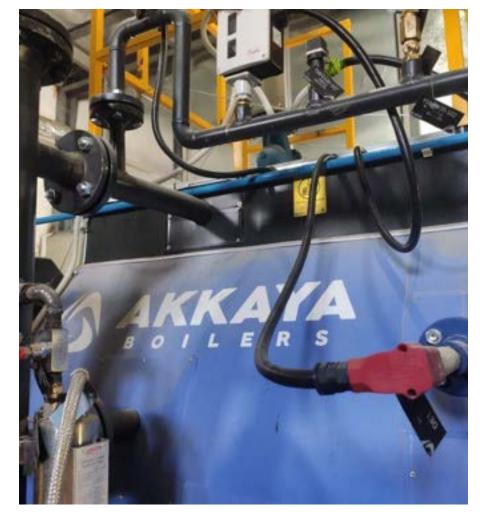






Reference Project- 8	
Location:	Romania
Capacity:	3750 kg/h – 8 bar
Fuel Type:	Biomass – Sunflower Seed Husk
Process:	Dairy Plant







Reference Project- 9	
Location:	Moldova
Capacity:	1250 kg/h – 8 bar
Fuel Type:	Biomass – Grape Vine
Process:	Wine

### HOT / SUPERHEATED WATER BOILERS



### **SKK SERIES:**

SCOTCH TYPE 3 PASS HOT/ SUPERHEATED WATER BOILERS



### **YS SERIES:**

SEMI CYLINDRICAL TYPE 3 PASS HOT/ SUPERHEATED WATER BOILERS



### **YHYBWB SERIES:**

HYBRID TYPE WATER TUBE, FRONT FURNACE, REAR SMOKE TUBE HOT/ SUPERHEATED WATER BOILERS

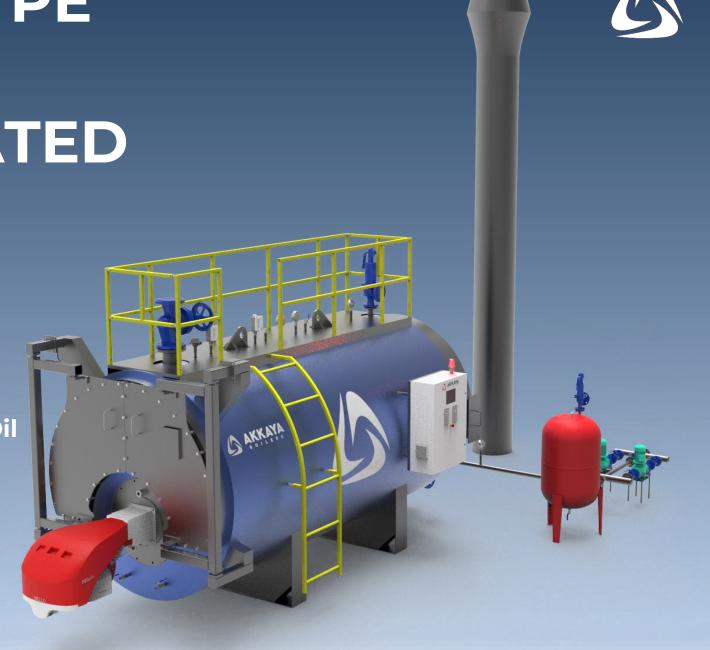


### **SKK SERIES**

Heat generation capacity:

232 kW - 14535 kW

Fuel Type: Natural Gas, LPG, Diesel, Fuel Oil



# **DESIGN**





# **MANUFACTURING** & SHIPPING



















Reference Project- 1	
Location:	Turkmenistan
Thermal Capacity:	750000 kcal/h – 4 bar
Fuel Type:	Natural Gas
Process:	<b>Bread Production</b>

# YS – SEMI CYLINDRICAL TYPE 3 PASS HOT/ SUPERHEATED WATER BOILERS

### **YS SERIES**

Heat generation capacity: 70 kW - 1744 kW Fuel Type: Biomass, Coal, Pellet



# **DESIGN**









### **MANUFACTURING** & SHIPPING

















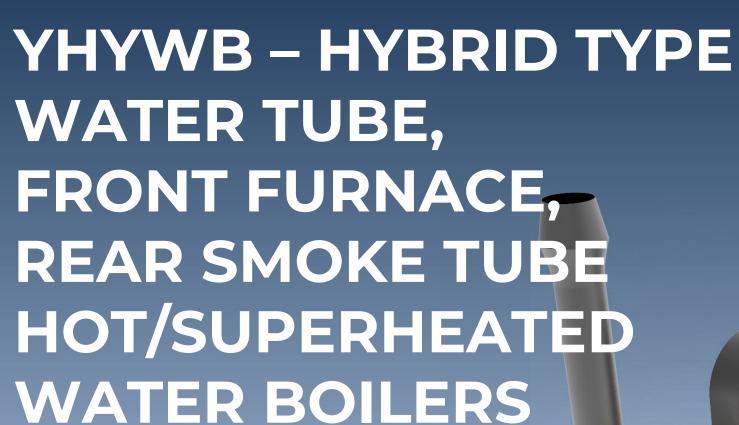






Reference Project- 1	
Location:	Azerbaijan
Thermal Capacity:	2250000 kcal/h – 4 bar
Fuel Type:	Biomass - Coal
Process:	Olive Production

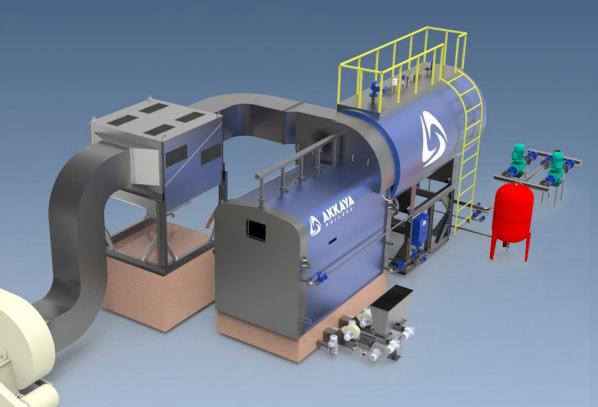






### **YHYBWB SERIES**

Heat generation capacity:
737 kW - 11671 kW
Fuel Type: Biomass, Coal, Pellet,
(Natural Gas, LPG, Diesel, Fuel Oil - Optional)



# **DESIGN**



### THERMAL OIL HEATERS



KYKH SERIES:
HORIZONTAL THERMAL
OIL HEATERS

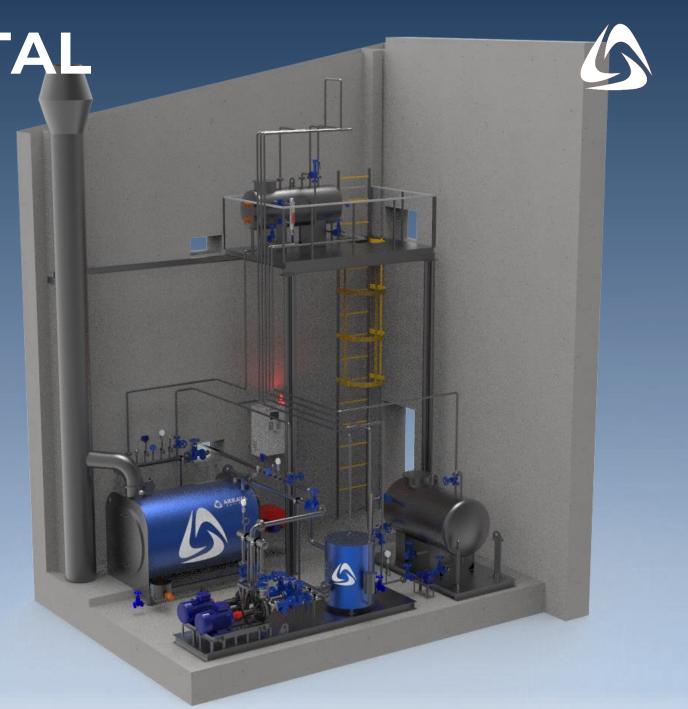


KYKHLZ SERIES:
HELICOIDAL THERMAL
OIL HEATERS

KYKH – HORIZONTAL THERMAL OIL HEATERS

### **KYKH SERIES**

Heat generation capacity: 232 kW - 8721 kW Fuel Type: Natural Gas, LPG, Diesel, Fuel Oil



# **DESIGN**





# **MANUFACTURING** & SHIPPING















Reference Project- 1	
Location:	Turkey / Bilecik
Thermal Capacity:	500000 kcal/h– 4 bar – 260 C
Fuel Type:	Natural Gas
Process:	<b>Plastic Production</b>



Reference Project- 2	
Location:	Turkey / Konya
Thermal Capacity:	500000 kcal/h- 4 bar – 280 C
Fuel Type:	Natural Gas
Process:	Wood and Forestry Products



Reference Project- 3	
Location:	Turkey/ Izmir
Thermal Capacity:	2000000 kcal/h- 4 bar – 160 C
Fuel Type:	Natural Gas
Process:	Petrochemical Products



Reference Project- 4	
Location:	Uzbekistan
Thermal Capacity:	500000 kcal/h– 4 bar – 240 C
Fuel Type:	Natural Gas
Process:	<b>Chemical Products</b>



Reference Project- 5	
Location:	Izmir / Turkey
Thermal Capacity:	750000 kcal/h- 6 bar – 240 C
Fuel Type:	Natural Gas
Process:	Mineral Oil

# KYKHLZ – HELICOIDAL THERMAL OIL HEATERS

### **KYK HLZ SERIES**

Heat generation capacity:

116 kW - 8720 kW

Fuel Type: Biomass, Coal, Pellet,

(Natural Gas, LPG, Diesel, Fuel Oil - Optional)



# **DESIGN**





# **MANUFACTURING** & SHIPPING

















Reference Project- 1	
Location:	Bulgaria
Thermal Capacity:	500000 kcal/h – 6 bar
Fuel Type:	Biomass - Pellet
Process:	Oil - Biodiesel Plant



Reference Project- 2	
Location:	Iraq
Thermal Capacity:	3000000 kcal/h – 6 bar
Fuel Type:	Biomass – Coal
Process:	Civil and Construction

### **WASTE HEAT RECOVERY SYSTEMS**



# HRSG / WT SERIES: WATER TUBE WASTE HEAT STEAM BOILERS



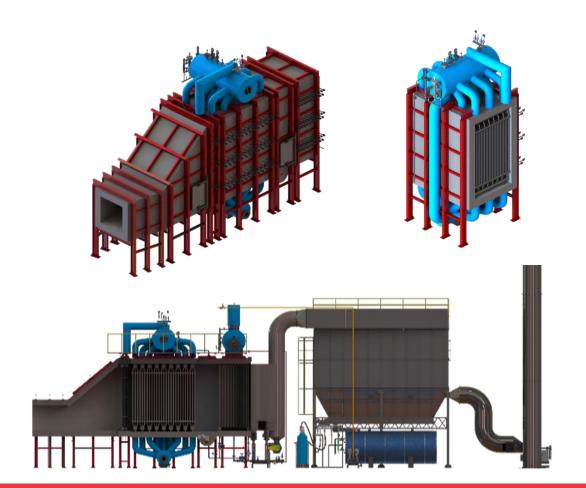
HRTOH / H SERIES:
THERMAL OIL WASTE HEAT BOILERS

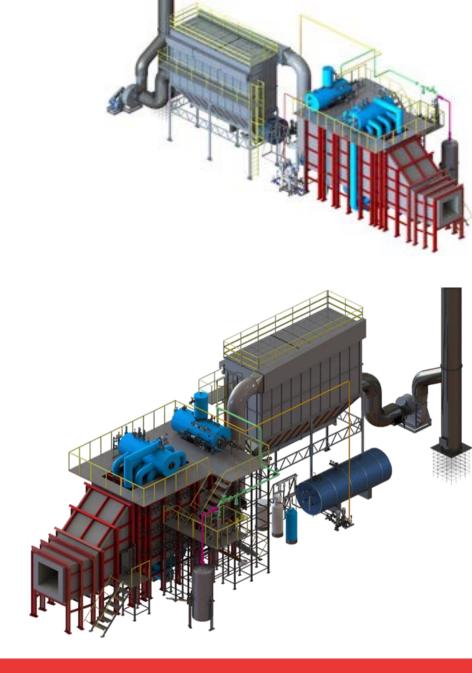


ECO SERIES:
ECONOMIZER SYSTEM

### **DESIGN** - MANUFACTURING AND APPLICATION

HRTOH / H SERIES:
THERMAL OIL WASTE HEAT BOILERS







### **DESIGN** - MANUFACTURING AND APPLICATION

### HRTOH / H SERIES: THERMAL OIL WASTE HEAT BOILERS









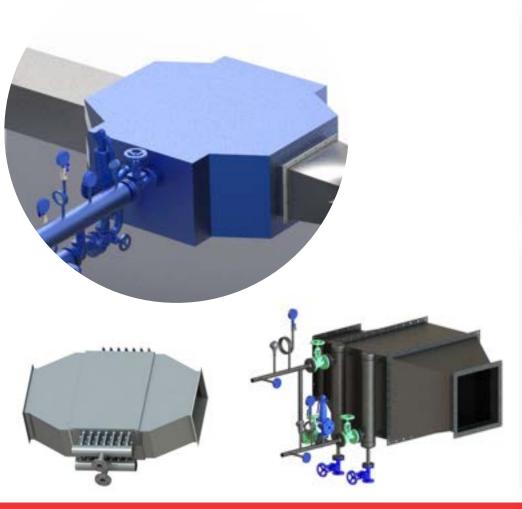




Reference Project- 1	
Location:	China
Thermal Capacity:	800 kW (4x200kW)
Fuel Type:	Waste Gas
Process:	Ship Transportation

### **DESIGN** - MANUFACTURING AND APPLICATION

### **ECO SERIES: ECONOMIZER SYSTEM**







### **BOILER AUXILIARY EQUIPMENTS**

BIOMASS COMBUSTION SYSTEMS



### WCVG SERIES:

WATER COOLED VIBRATING GRATE (WCVG) SYSTEM



### **STK SERIES:**

AUTOMATIC UNDERFEED STOKER SYSTEM

### **DESIGN** - MANUFACTURING AND APPLICATION

### **WCVG SERIES: WATER COOLED VIBRATING GRATE (WCVG) SYSTEM**







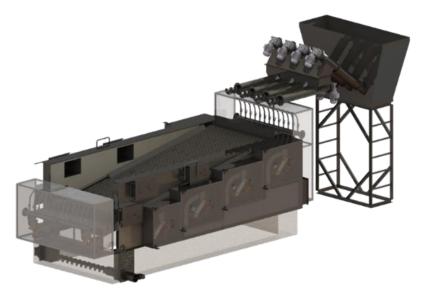


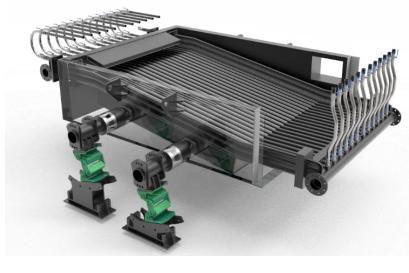




### **DESIGN - MANUFACTURING AND APPLICATION**

### **WCVG SERIES: WATER COOLED VIBRATING GRATE (WCVG) SYSTEM**







Advantages of WCVG System

- 1- Provides longer life time
- 2- Shut down period and maintanenece costs are decreased due to unique design that requires less maintanence.
- Operation efficiency is high.
- 4- System requirements can be tracked fully.
- 5- Wide range of solid fuel/biomass with various size, quality, ash content, and humidity can be used.
- 6- Natural Gas, Light Fuel Oil (Diesel), Heavy Fuel Oil (HFO) can be used as alternative fuel.
- 7- Includes automatic ash removing system which allows grate surface cleaning without shut down or burning auxiliary fuel and provides a continuous operation
- 8- There is no bearing or lubrication at the parts in contact with high temperature
- 9- Design is packaged and moduler to shorten the installation time.

#### WCVG SERIES: WATER COOLED VIBRATING GRATE (WCVG) SYSTEM

Water cooled membrane tubes that contain adequate number of air distribution channels. Grate Structure

**Proper Fuel Type and Properties** Max. 30% humiditiy

5-50 mm grain size range

Min. 3000 kcal/kg lowest heating value (LHV)

Max. 25% mass ash content rate

Granuled structure to provide easy transfer to the combustion pot via

automatic auger system is necessary

Primary & Secondary Air Feed

Air / Fuel ratio can be adjusted for maximum combustion efficiency and better emission

Secondary air distribution is provided at the side walls to guarantee maximum turbulance.

Fuel is transferred from bunker to combustion pot by two stage auger type feeding mechanism. Fuel Feeding System

Fuel bunker is designed appropriate for auger type fuel feeding system. For control of fuel feeding there are a level sensor and a fire Fuel Bunker

extinguishing valve at the bunker.

Ash Extractors (Optional) In WCVG systems, there is an independent ash extracting system. This system provides a non-stop and minimum human interactive

operation advantage.



#### WCVG SERIES: WATER COOLED VIBRATING GRATE (WCVG) SYSTEM



#### Some Biomass Types can be burnt in AKKAYA WATER COOLED VIBRATING GRATE SYSTEMS Wood Pellet Seed Husk Forest Residues Corn Cob Palm Kernel Shell Paper Mill Waste Olive Pits Wheat Straw Olive Pomace Energy Crops Wood Briquette Rice Straw Bamboo Waste RDF Pellet

#### **WCVG SERIES: WATER COOLED VIBRATING GRATE (WCVG) SYSTEM**



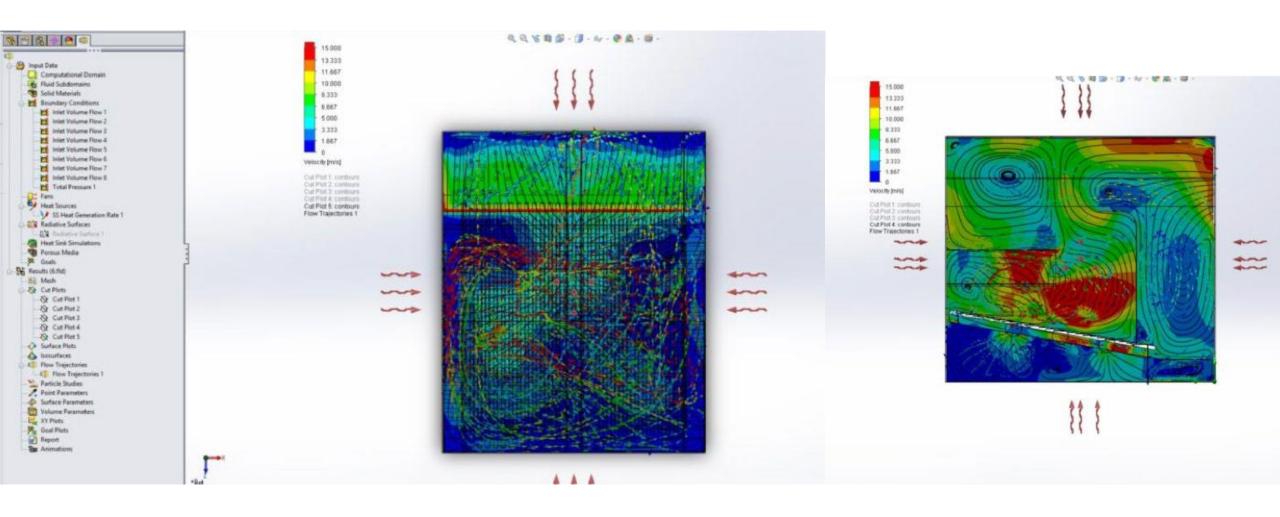








#### WCVG SERIES: WATER COOLED VIBRATING GRATE (WCVG) SYSTEM







Reference Project- 1		
Location:	Turkey / Karaman	
Capacity:	4000 kg/h – 8 bar	
Fuel Type:	Biomass - Coal & Fruit Pits & Fruit Pomace	
Process:	Confectionery Products	



Reference Project- 2		
Location:	Russia	
Capacity:	10000 kg/h – 16 bar	
Fuel Type:	Biomass - Sunflower Seed Husk, Natural Gas	
Process:	Sunflower Oil Production	



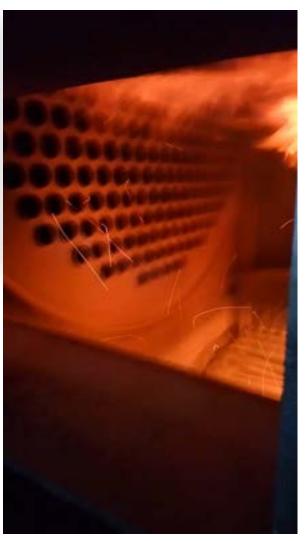




Reference Project- 3		
Location:	Romania	
Thermal Capacity:	3750 kg/h – 8 bar	
Fuel Type:	Biomass – Sunflower Seed Husk	
Process:	Dairy Plant	







Reference Project- 4		
Location:	Bulgaria	
Thermal Capacity:	6000 kg/h – 16 bar	
Fuel Type:	Biomass - Sunflower Seed Husk	
Process:	Sunflower Oil Production	





Reference Project- 7		
Location:	Morocco	
Capacity:	6000 kg/h – 10 bar	
Fuel Type:	Biomass – Olive Pomace	
Process:	<b>Food Products</b>	





Reference Project- 8		
Location:	Morocco	
Capacity:	4000 kg/h – 8 bar	
Fuel Type:	Biomass – Olive Pomace	
Process:	<b>Dairy Products</b>	



STK SERİSİ: OTOMATİK ALTTAN BESLEMELİ STOKER SİSTEMİ



#### STK SERIES: AUTOMATIC UNDERFEED STOKER SYSTEM

















### **BOILER AUXILIARY EQUIPMENTS**

• FCONDENSATE TANKS / DEAERATORS



### KT SERIES: CONDENSATE TANKS



### **SSD SERIES:**

SPRAY-SCRUBBER TYPE DEAERATOR SYSTEM

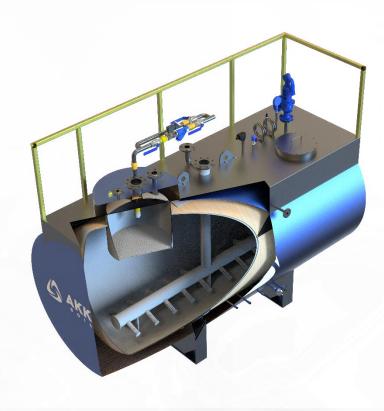
#### **KT SERIES: CONDENSATE TANKS**



#### SSD SERIES: SPRAY-SCRUBBER TYPE DEAERATOR SYSTEM









#### SSD SERIES: SPRAY-SCRUBBER TYPE DEAERATOR SYSTEM









### **BOILER AUXILIARY EQUIPMENTS**

• FLUE GAS FILTER SYSTEMS



### MC SERIES: MULTICYCLONE SYSTEM



SKL SERIES: CYCLONE SYSTEM



#### MC SERIES: MULTICYCLONE SYSTEM







#### MC SERIES: MULTICYCLONE SYSTEM















#### **SKL SERIES: CYCLONE SYSTEM**









### **BOILER AUXILIARY EQUIPMENTS**

AUTOMATION SYSTEMS





#### CBS SERIES: ELECTRIC CONTROL BOARD SYSTEM















### Thank you for your attention



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