



AKKAYA
B O I L E R S

**Pressurized Vessel Designing &
Manufacturing Company Since 1964**

**Steam, Hot Water, Thermal Oil Boilers
Cogeneration Systems
Boiler Room Equipments
Waste Heat Recovery Systems
Marine Boilers**



ABOUT US

- Akkaya Heating Instruments Manufacturing Inc. located in Turkey, has been involved in boiler production since its establishment in 1964.
- Activities of the company are being carried out in Konya plant having 13000 m2 open and appr. 5000 m2 closed area. Nearly 80% of its annual production is being exported over 20 countries all over the world.
- In addition to its continuous production of conventional gas, oil or electric fired systems for more than half a century, over the last decade main interest of the company has been designing, manufacturing and widely exporting innovative Steam, Hot Water and Thermal Oil boilers using various kinds of solid fuel including biomass from recovered wastes.
- Akkaya Inc. aims a continuous growth with its flexibility of product diversification and its strong engineering background.



ABOUT US

→Thanks to many years of experience in heating field and strong engineering base Akkaya Inc. has improved valuable solutions for providing highly effective biomass fired boiler designs, fuel combustion systems, exhaust gas filtration systems, exhaust gas heat recovery systems , overall system efficiency and safety controls. Company R&D studies are being carried out continuously and quite a big part of its turnover is being invested at this field each year.

→Regarding the global interest in renewable energy systems Akkaya Inc. aims to provide steam , hot water and thermal oil systems that are using recovered energy sources, to a wider range of sectors mainly to newage power generation plants all over the world.

→Having a strong awareness for environmental concerns like climate change, global warming and increasing energy demand, Akkaya Inc. is prepared to serve the world with best effort of 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 m² open and 2.130 m² 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 m² additional closed area at the plant for production and offices

1996

Renewing the agreement with Blowtherm for the gas appliances

1997

Investment of 700 m² additional closed area at the plant as warehouse

2002

Investment of additional machinery and equipments to increase the production capacity

2002

Investment of 850 m² 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 m²

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

Opening Istanbul Sales Office

2008

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



2010

Opening Izmir Sales Office

2011

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

2011

Machinery Investments for capacity increase is completed successfully

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 GMBH for boilers

2016

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

2017

Improving new heat recovery and thermal oil boiler designs for ORC applications.

2018

Investment of 2000 m² additional closed area at the plant as new workshop

2017

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

2018

New investment for enlarging and developing the manufacturing facilities, at the current location

2018

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

2018

Renewal of Quality Management System according to ISO9001:2015

2018

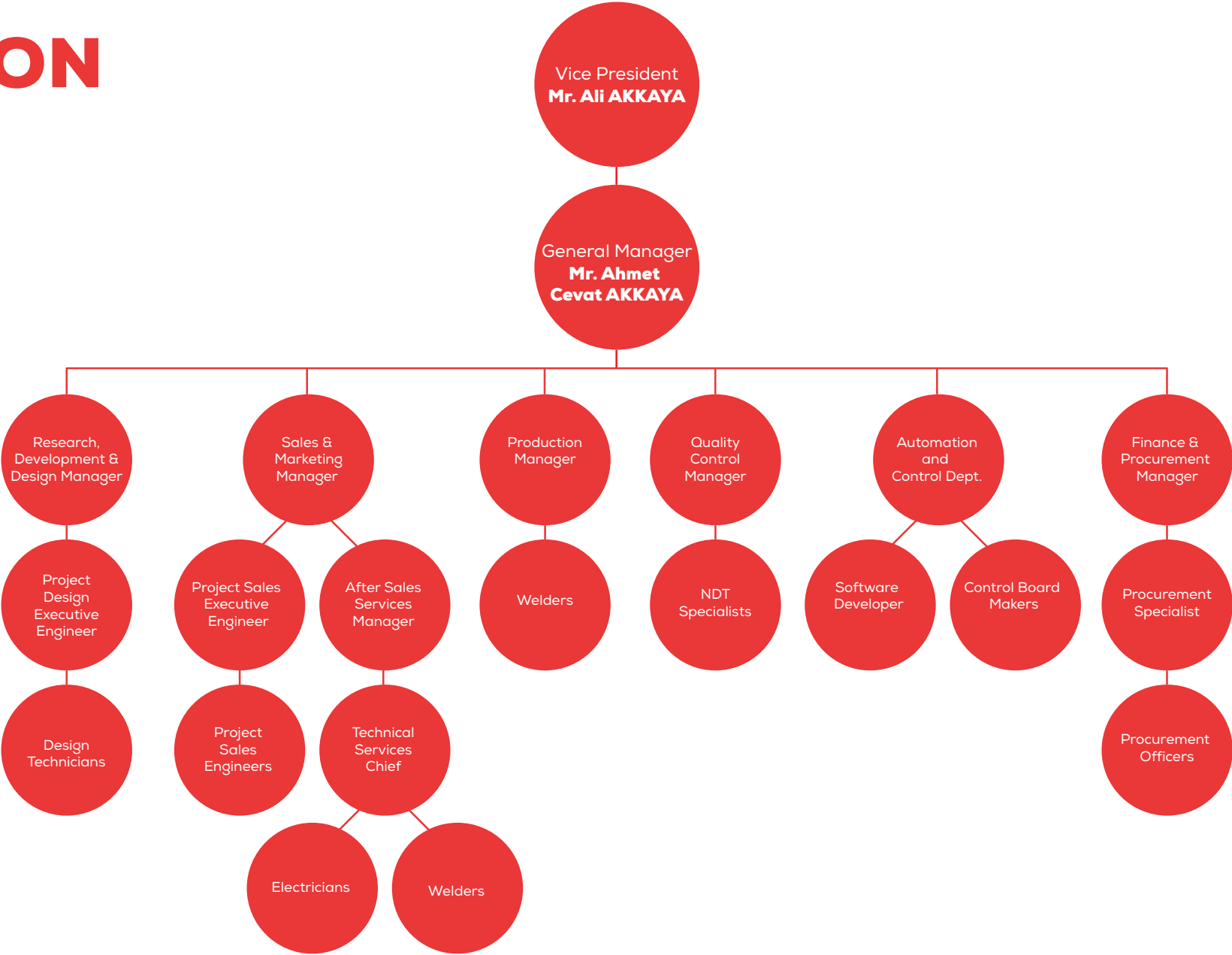
2014/68/EU Module H1 CE Certification with TSE for boilers

2019

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



ORGANISATION CHART



OUR PRODUCTS

BOILERS

- Saturated / Superheated Steam Boilers
- Hot / Superheated water Boilers
- Thermal Fluid Heaters
- Waste Heat Recovery Boilers
- Marine Boilers

POWER GENERATION SYSTEMS

- ORC Systems
- Steam Turbine Systems
- Cogeneration Systems

BOILER AUXILIARY EQUIPMENTS

- Biomass Combustion Systems / Water Cooled Vibrating Grate Systems
- Flue Gas Filtration & Cleaning Systems
- Boiler Room Equipments

SALES

We have been promoting our products and making sales in various regions of the World together via our agents as well as our direct export activities ; Locations of some of our continous sales partners are indicated in below map.



SALES

Since 2000 the number of countries we have exported and re-exported our goods has reached more than 30 countries.

Algeria
Australia
Azerbaijan
Bulgaria
Cuba
Cyprus
Denmark
Dubai
Egypt

Ethiopia
France
Germany
Iraq
Jordan
Kazakhstan
Kuwait
Latvia
Lebanon

Libya
Lithuania
Madagascar
Malaysia
Moldovia
Moritanya
Nigeria
Palestine
Poland

Romania
Russia
Saudi Arabia
Spain
Sudan
UAE
Ukraine
Uzbekistan
Yemen



SALES

Since 2010, more than 150 projects have been completed at various capacities in Turkey and abroad



SALES

Due to the experience of more than half a century, beyond standard products Akkaya Inc. is capable of handling custom designs and special products



SALES



FACILITIES



FACILITIES

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.
- Automatic metal cutter 1 nos.
- Automatic sheet metal bending 1 nos.
- Manual sheet metal bending 1 nos.
- 500 ton Hydraulic press 1 nos.
- 3000 ton Hydraulic press 1 nos.
- Eccentric press 1 nos.



FACILITIES

EQUIPMENT & MACHINERY LIST MECHANIC WORKSHOP MACHINERY LIST :

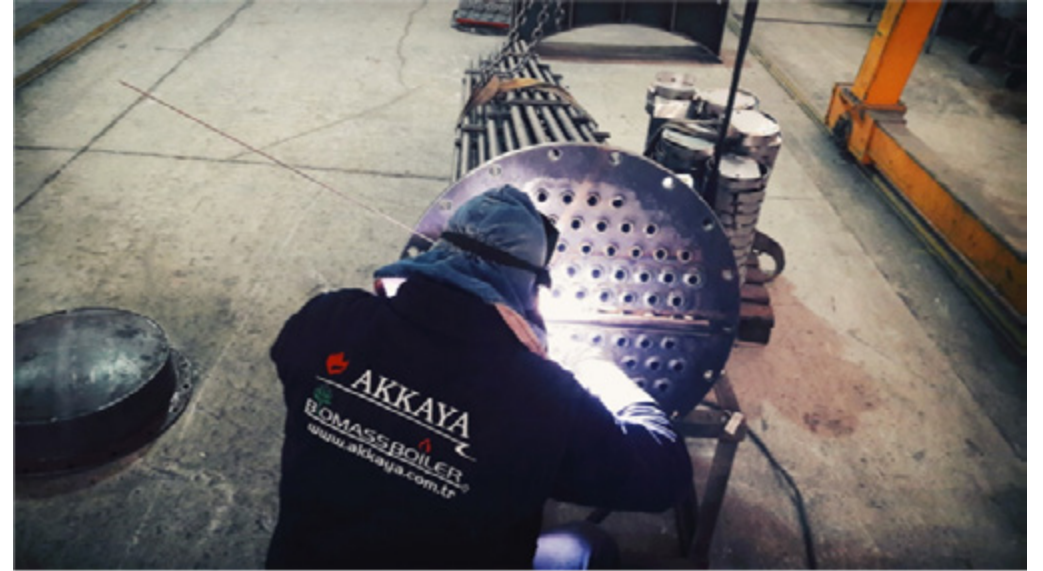
- Milling Machine 1 Nos.
- Lathe 4 Nos.
- Planner 1 Nos.
- Shaper 1 Nos.
- Radial Drilling Machine (medium size) 2 Nos.
- Radial Drilling Machine (big size) 2 nos.
- Automatic arm saw machine 2 nos.
- Automatic belt saw machine 1 nos.
- Stationary column drilling machine 6 nos.
- Grinding machine 3 nos.



FACILITIES

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 10 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 DEKRA Industrial OY (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
- ULTRASONIC TESTING LEVEL 2 CERTIFICATE according to ASNT approved by JICA
- WELDER APPROVAL TEST CERTIFICATES according to EN9606-1 approved by DEKRA & 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 & DEKRA
- 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
- WELDING SUPERVISOR CERTIFICATES according to EN 14731 approved by Bureau Veritas



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.

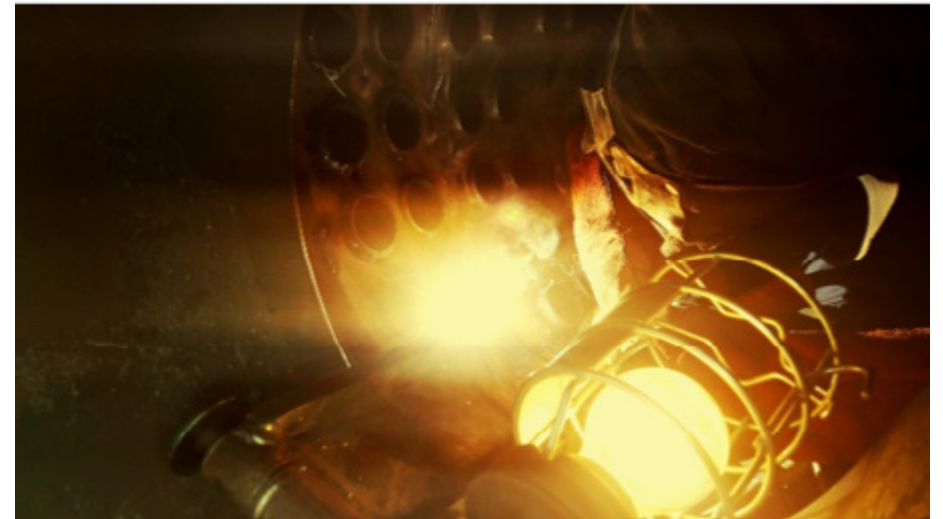


QUALITY ASSURANCE

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

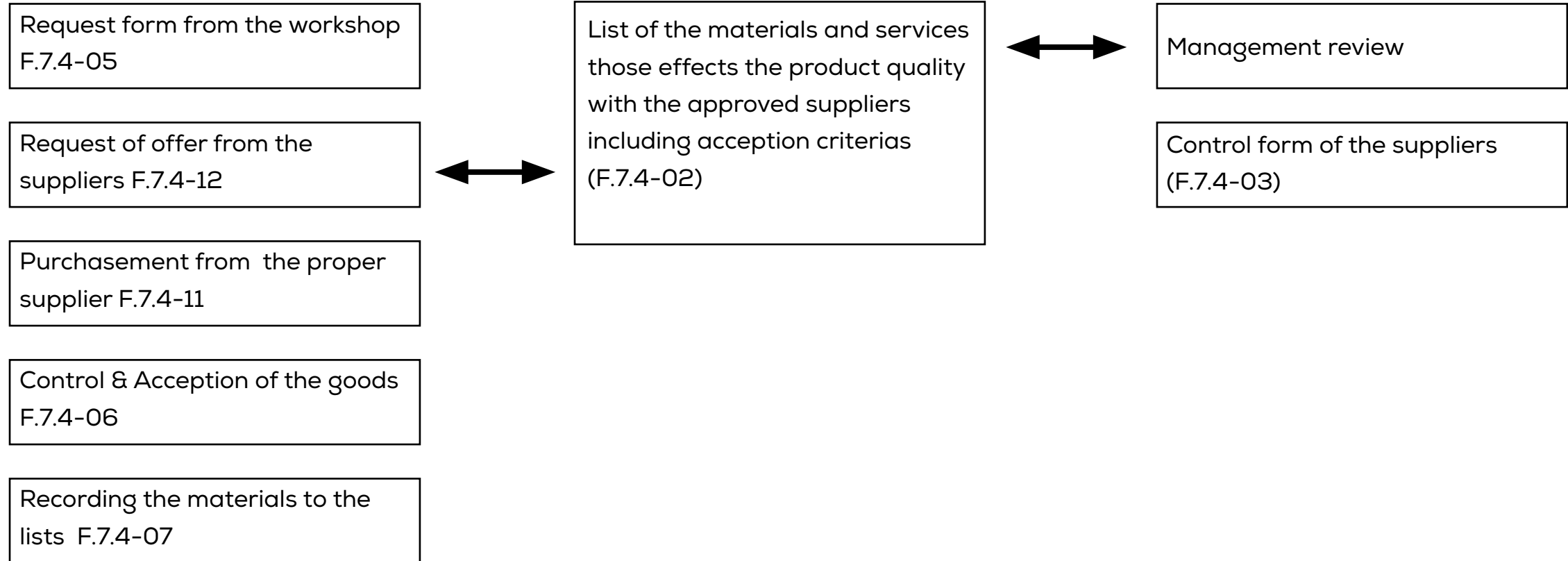
- 1- Steel plates
- 2- Fire Tubes
- 3- Welding consumables

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



QUALITY ASSURANCE

Short review of our purchasement procedure



Sample Welder Certificates:

[illegible]

Gesellschaft für Schweißtechnik International mbH
Schweißtechnische Lehr- und Versuchsanstalt (SLV) München

GS I SLV
München

Prüfungsbescheinigung für Bediener von Schweißeinrichtungen nach DIN EN 1418

Hersteller Schweißanweisung:

Prüfstelle: SLV München
Prüf-Nr.: 7043/08

Name des Bediener(s):

Karabiber, Mehmet

Legitimation:

49851154015

Art der Legitimation:

Personalausweis

Geburtsdatum/-ort:

01.08.1971, TR/Gaziantep

Beschäftigt bei:

AKKAYA ISMAK A.Ş.

Vorschlag Prüfdatum:

01.08.2008

Foto
(falls gefordert)

Fachkunde: Bestanden

Schweißkriterien-Angaben		Gültigkeitsbereich
Schweißprozess:	Unterpulverschweißen (TIG, UP)	Werkstoffe der Gruppe 1.1 und 1.2 entsprechend ISO/TR 15608
Stromquelle:	Oerlikon	Stoßweite t = 7,5 – 30 mm
Zusätzliche Angaben:		

Zusätzliche Informationen sind auf beigefügtem Blatt vorhanden auf der Schweißanweisung Nr. ...
verfügbar.

Der Anerkennung liegt zugrunde: Schweißverfahrensprüfung nach DIN EN ISO 15613

Ergebnisse der Prüfung für die Anerkennung siehe Dokument Nr.:

(Bericht über die Anerkennung des Schweißverfahrens oder andere Prüfdocuments)

Verlängerung der Anerkennung für Prüfer oder die
Prüfstelle (siehe Abschnitt 5)

Verlängerung der Anerkennung für die folgenden
6 Monate durch den Arbeitgeber/Schweißaufsicht
(siehe Abschnitt 5)

Datum	Unterschrift	Stempel (z.B. 20%, 70%)	Datum	Unterschrift	Stempel (z.B. 20%, 70%)

München
01

23.06.2008
Tag der Ausgabe

23.06.2010
31. August 2010
Prüfung 08

Copyright 2008 by GSI SLV, Schweißtechnische Lehr- und Versuchsanstalt (SLV) München. Alle Rechte vorbehalten.

01/08

[illegible]

Sample UT Test Reports:

[illegible]

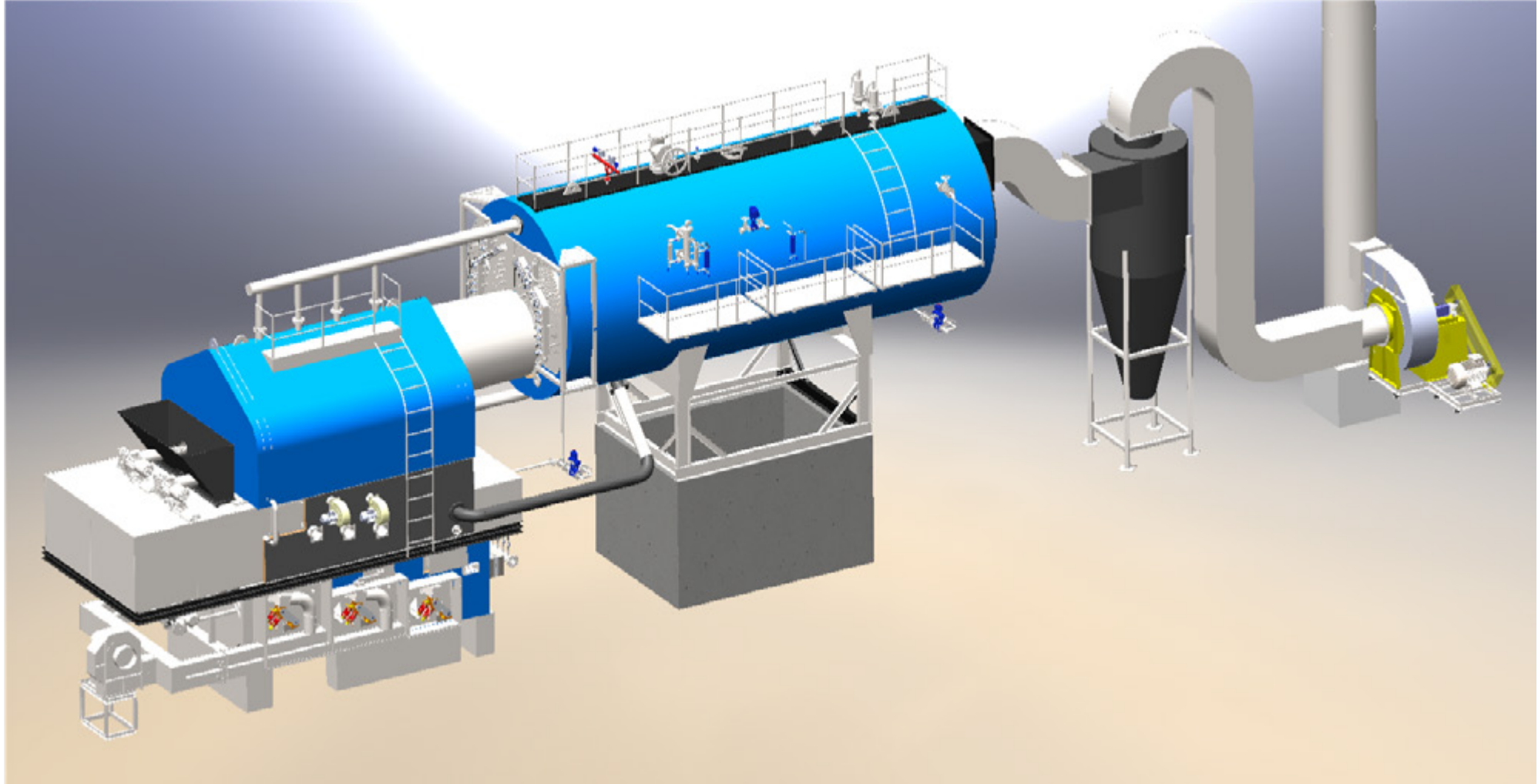
QUALITY ASSURANCE

Sample Boiler Control and Shipment Approval Form:

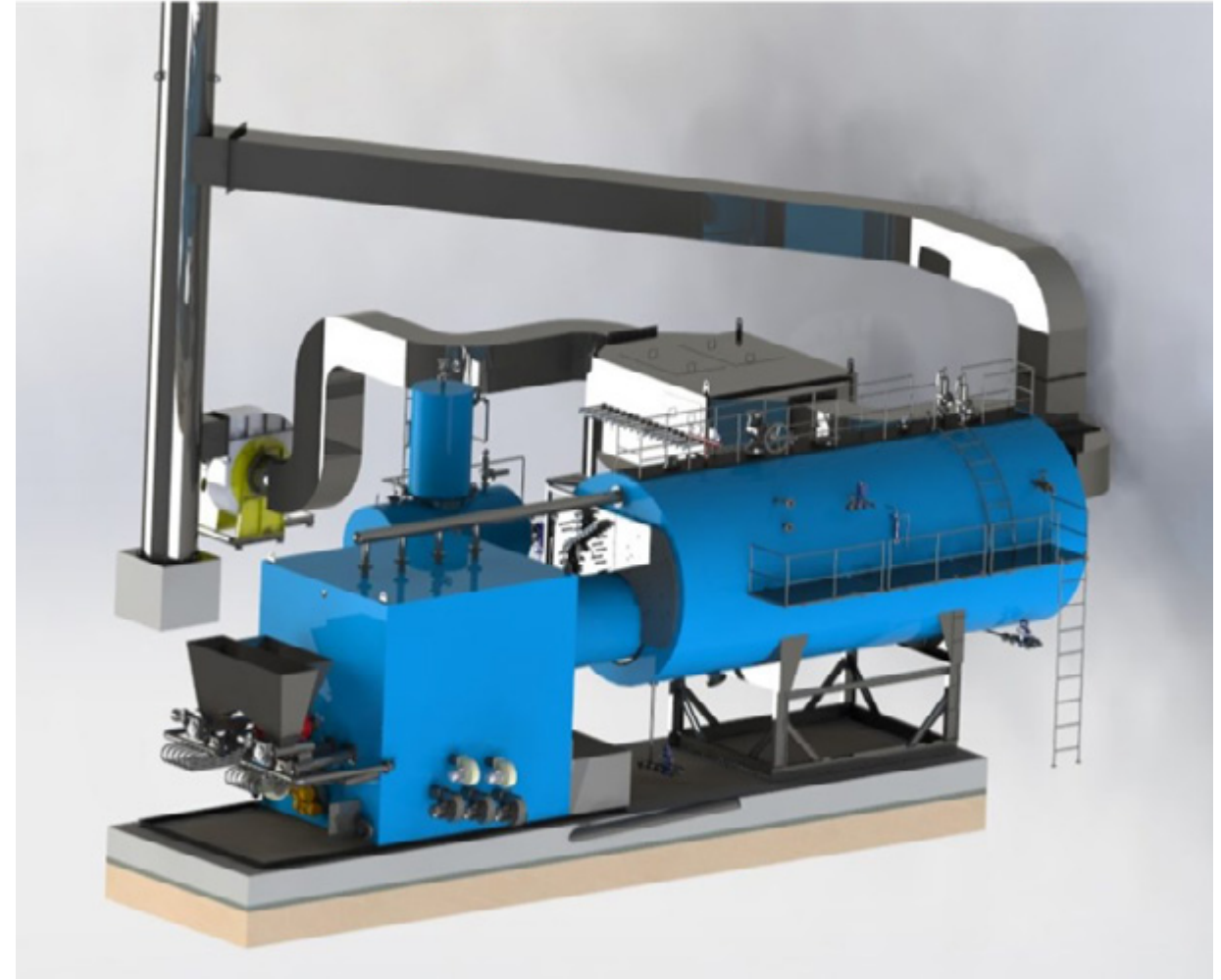
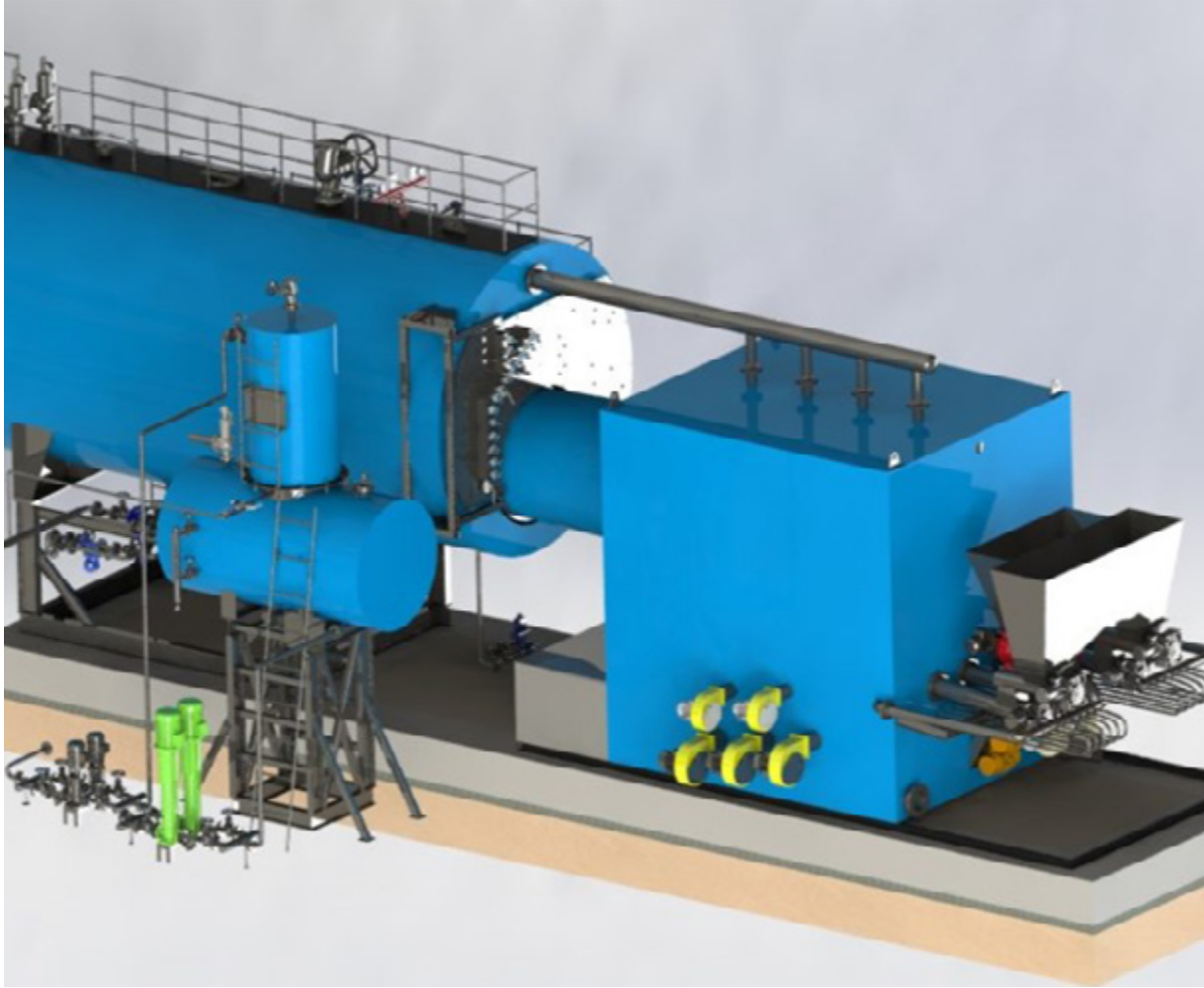
AKKAYA		AKKAYA ISI MAKİNALARI VE DOĞAL GAZ SANAYİ VE TİC. A.Ş.		Rev. Tm. 20.05.2003		
KAZAN KONTROL VE SEVK ONAYI FORMU		Form No F.7.1.11		Rev. 1		
Sayfa 1/1						
Ürün Seri No / Serial No : SBK2009001		Ürün Tanımı / Product Description : 20 m ² - 4 bar - Tam Silindirik Şişe tip Buhar Kazanı .SBK20-4				
Proje No / Drawing No : SBK 15-20-01						
Standart No / Standard No : TS377 - EN12953						
Kalite Bel. No / Quality Cert. No : ISO 9001 - 2000						
Müşteri/Customer : STOK		Sipariş Tarihi / Order Date : 15.09.2009				
ANA PARÇALAR / MAIN PARTS						
Parça Adı Part Name	Cinsi Type	İmalatçı Manufacturer	Sertifika No Certificate No	Ölçüler Dimensions	Kalınlık Thickness	Montaj Şekli Assembling Desc.
Borular Tubes	EN10217	Borusan	139314	70/76	3,2 mm	makinato-kaynak
Kütlü Combustion Ch	P265GH	Erdemir	2076668	1670x1850	8 mm	kaynak
Cehennemlik Rear Comb. Ch	P265GH	Erdemir	2076668	400x2570	8 mm	kaynak
Çık. Örtü Shell	P265GH	Erdemir	7019073Y	2500x4710	6 mm	kaynak
Aynalar Mirror Plates	P355GH	Erdemir	8015615Y	1500x1500	15 mm	kaynak
Bulonlar Steel Connector	S235JR	İsdemir			20 mm	kaynak
İzolasyon Insulation	Rockwool	İzocam			100 mm	vida + perçin
Kaplama Cover	Galvaniz	Assan			0,7 mm	vida + perçin
Döküm Parça Cast Iron Parts						
Diğer Malz. Other Parts						
KONTROL VE KONTROL RAPORLARI / INSPECTION RECORDS						
Ölçü Kontrolü : Dimensional check :		Kabul/OK <input checked="" type="checkbox"/> Red/No <input type="checkbox"/>		Notlar/Remarks :		
Göz Kontrolü : Visual check :		Kabul/OK <input checked="" type="checkbox"/> Red/No <input type="checkbox"/>		Notlar/Remarks :		
Hidrostatik Basınç Kontrolü : Hydrostatic pressure check :		İşletme : 4 bar Konstrüksiyon : 4,8 bar Test : 7,02 bar		Notlar/Remarks :		
Tarih : Date : 01.06.2010 Kabul/OK <input checked="" type="checkbox"/> Red/No <input type="checkbox"/>		Basınç Değerleri Pressure Values (bar)				
Röntgen Kontrolü : X-ray check :		Kabul/OK <input type="checkbox"/> Red/No <input type="checkbox"/>		Notlar/Remarks :		
Ultrasonik Kontrol : Ultrasonic check :		Kabul/OK <input checked="" type="checkbox"/> Red/No <input type="checkbox"/>		Notlar/Remarks :		
Onay Tarihi / Approvement Date : 01.06.2010						
Kalite Kontrol / Quality Control :		İmalat ve Proje Sorumlusu / Production & Project Ad.				
Atölye Şefi / Workshop Chief		Müşteri / Customer				

3 nüsha teslim edilmek olup 1 nüsha müşteriye teslim edilmektedir. Kalan 2 nüsha üretimde muhafaza edilmektedir.

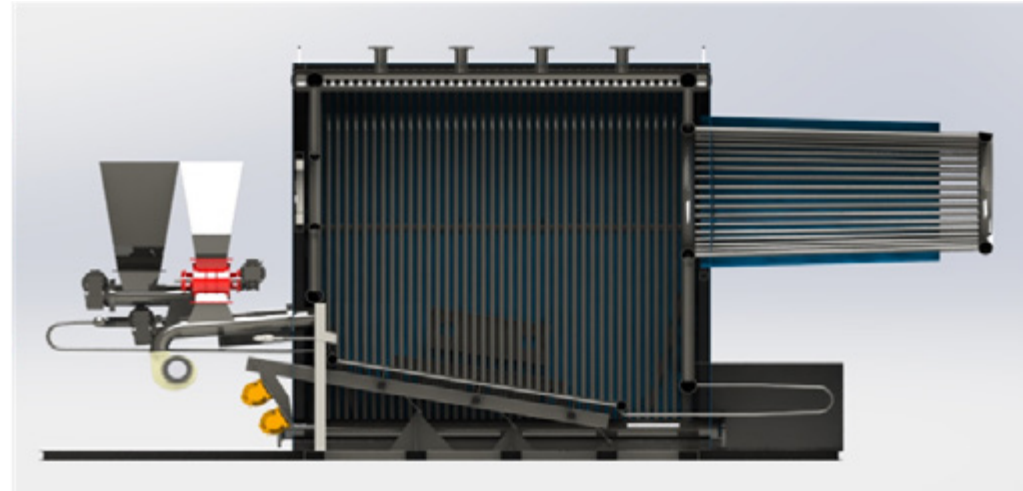
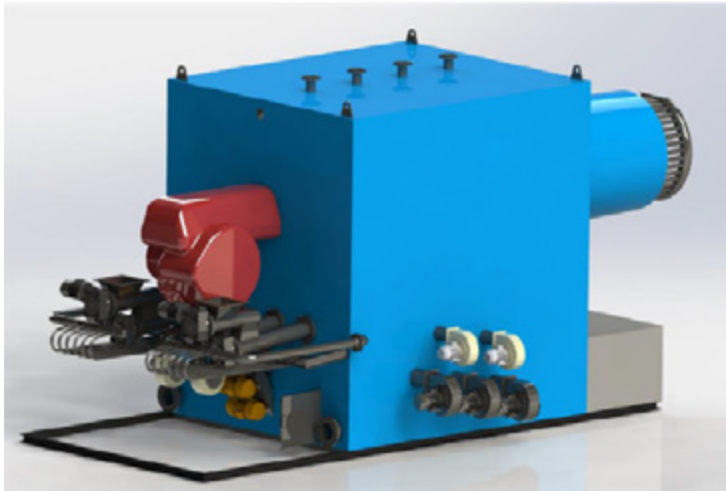
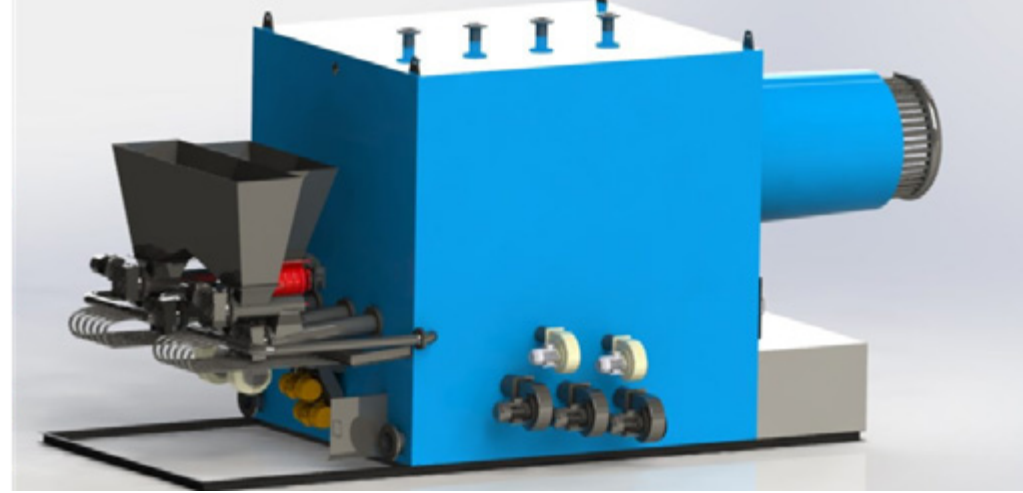
Design, manufacturing and application samples with biomass combustion system: Water Cooled Vibrating Grate



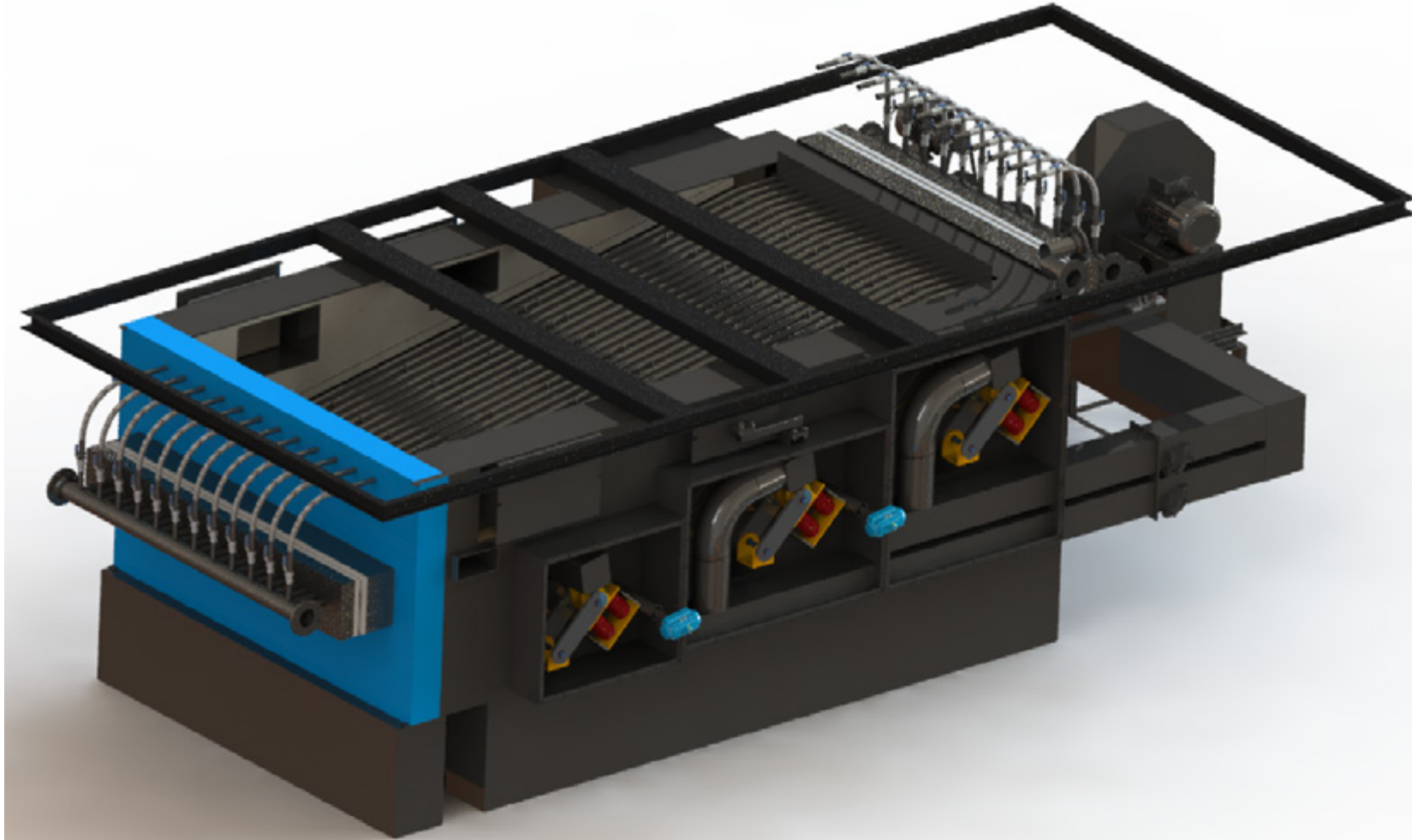
Design, manufacturing and application samples with biomass combustion system: Water Cooled Vibrating Grate



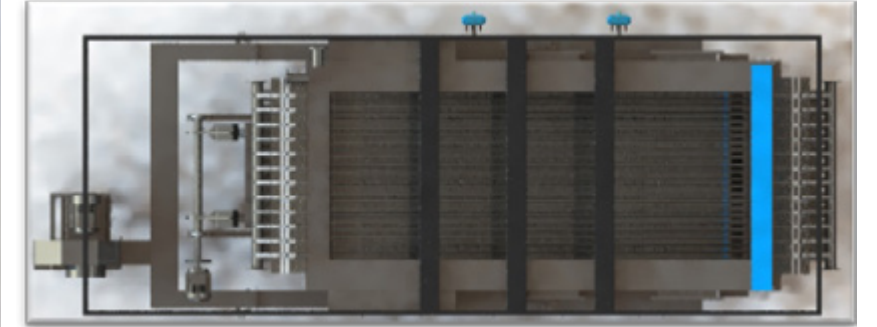
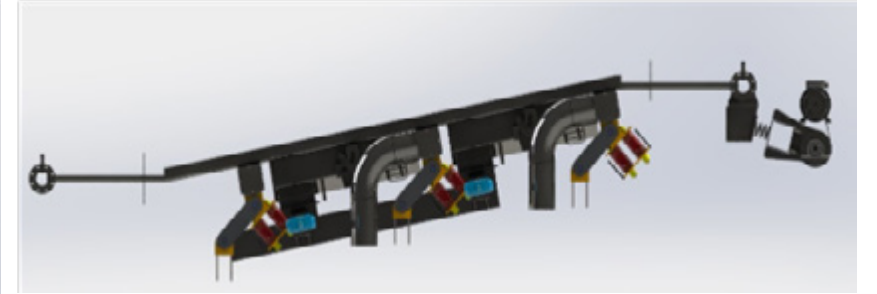
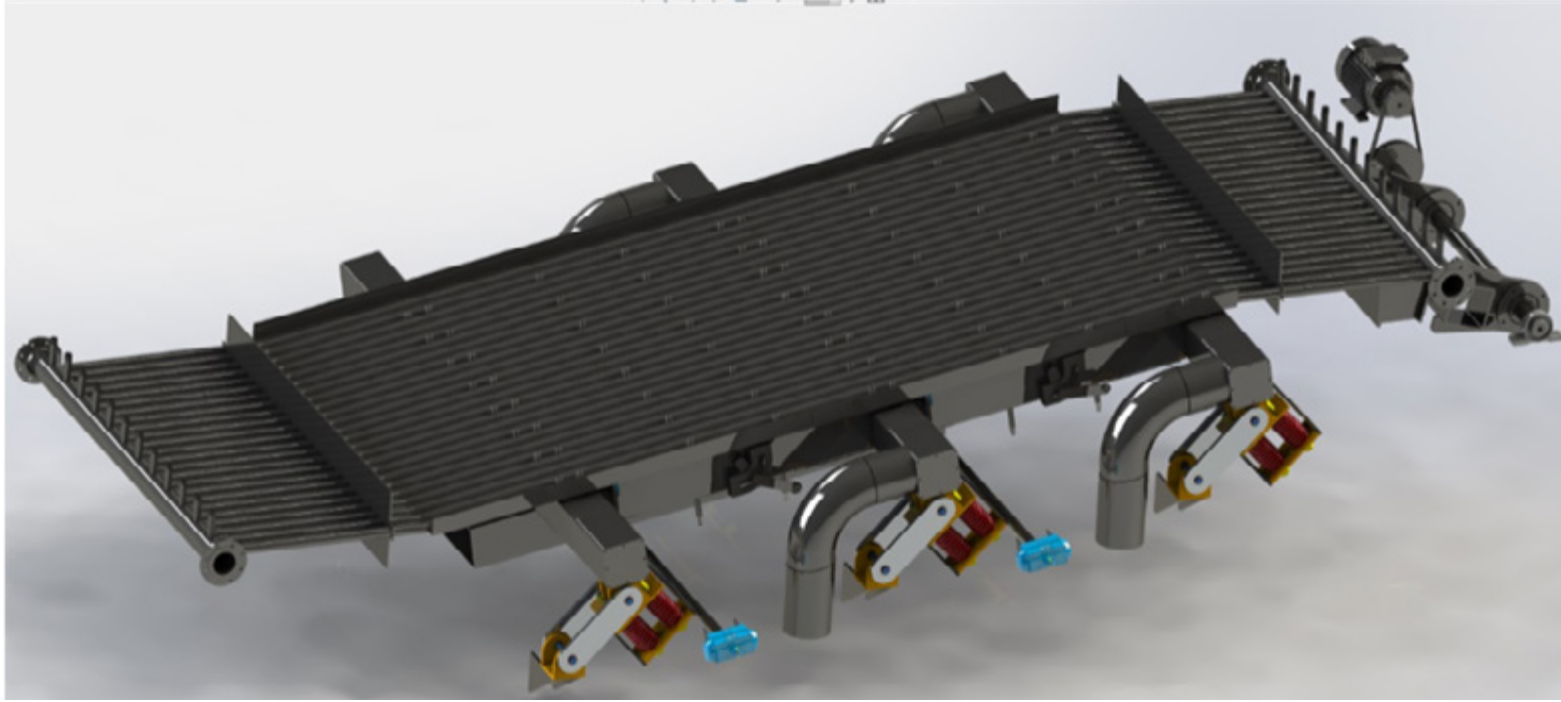
Design, manufacturing and application samples with biomass combustion system: Water Cooled Vibrating Grate



Design, manufacturing and application samples with biomass combustion system: Water Cooled Vibrating Grate



Design, manufacturing and application samples with biomass combustion system: Water Cooled Vibrating Grate



Design, manufacturing and application samples with biomass combustion system: Water Cooled Vibrating Grate



Design, manufacturing
and application
samples with biomass
combustion system:
Water Cooled Vibrating
Grate



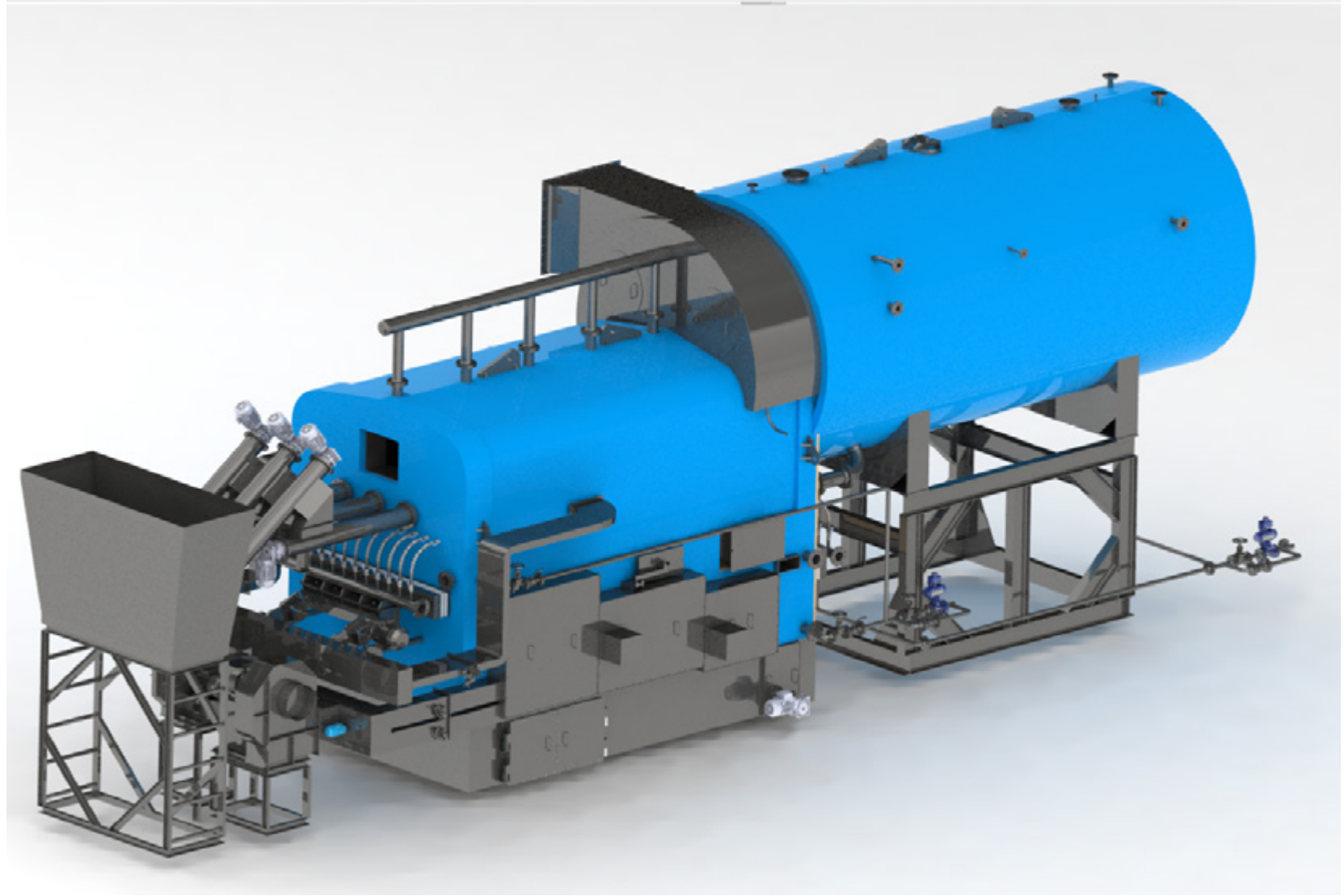
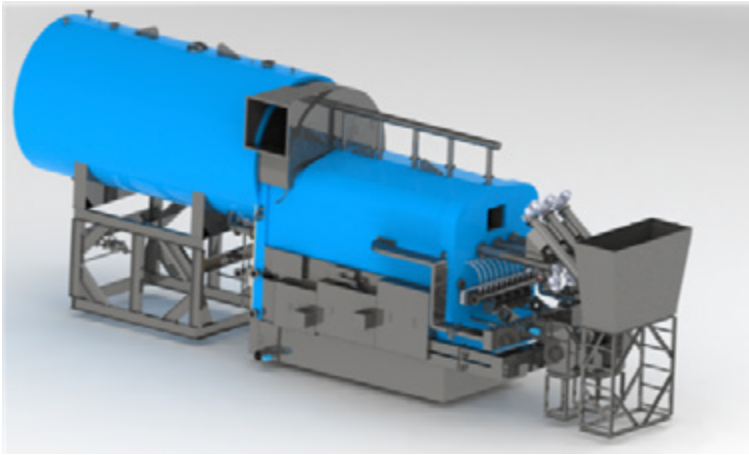
Design, manufacturing and application samples with biomass combustion system: Water Cooled Vibrating Grate



Design, manufacturing
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Grate



Design, manufacturing
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Grate



Design, manufacturing and application samples with biomass combustion system: Water Cooled Vibrating Grate



Design, manufacturing and application samples with biomass combustion system: Water Cooled Vibrating Grate



Design, manufacturing and application samples with biomass combustion system: Water Cooled Vibrating Grate



Design, manufacturing
and application
samples with biomass
combustion system:
Water Cooled Vibrating
Grate

Biomass Types can be burnt in **AKKAYA WATER COOLED VIBRATING GRATE SYSTEMS**



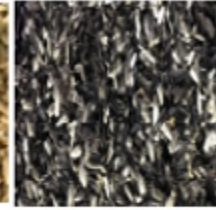
Woodchips



Apple Pomace



Wood Pellet



Seed Husk



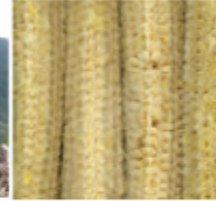
Cocomit Shell



Sawdust



Forest Residues



Corn Cob



Palm Kernel Shell



Wood Waste



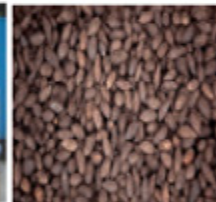
Wheat Straw



Mamire



Paper Mill Waste



Olive Pits



Olive Pomace



Energy Crops



Wood Briquette



Rice Straw



Bamboo Waste



RDF Pellet

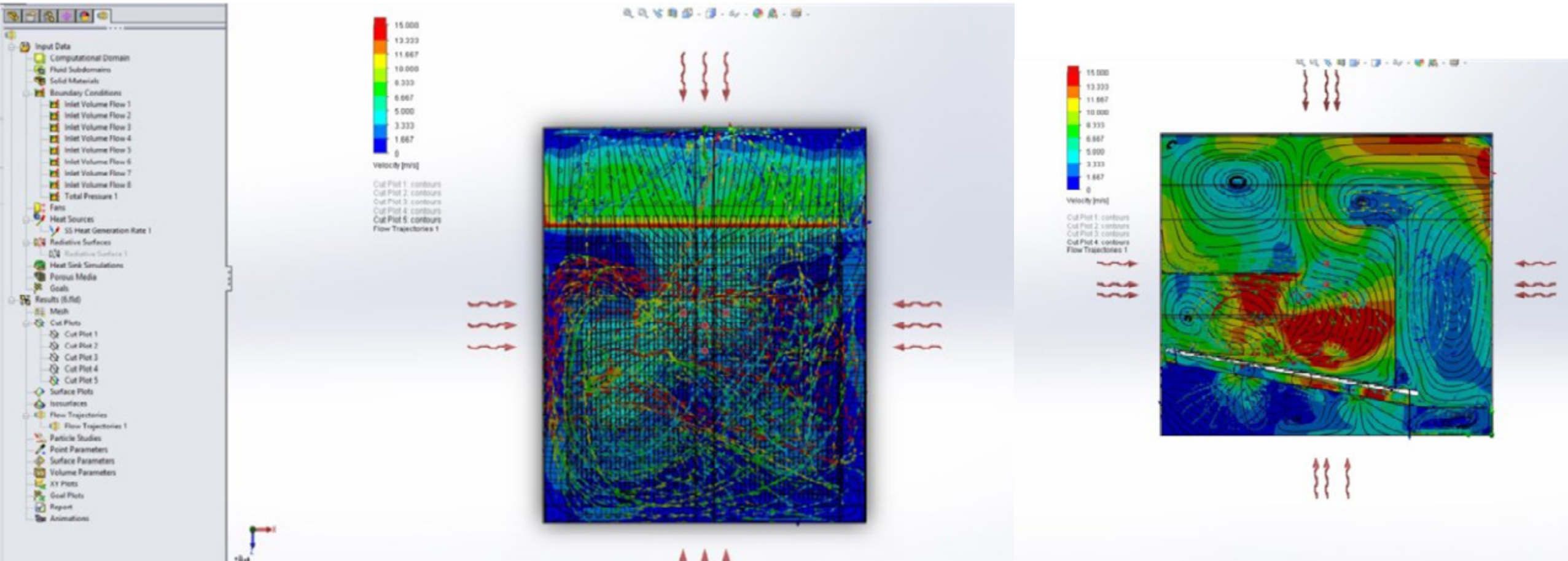
Design, manufacturing and application samples with biomass combustion system: Water Cooled Vibrating Grate



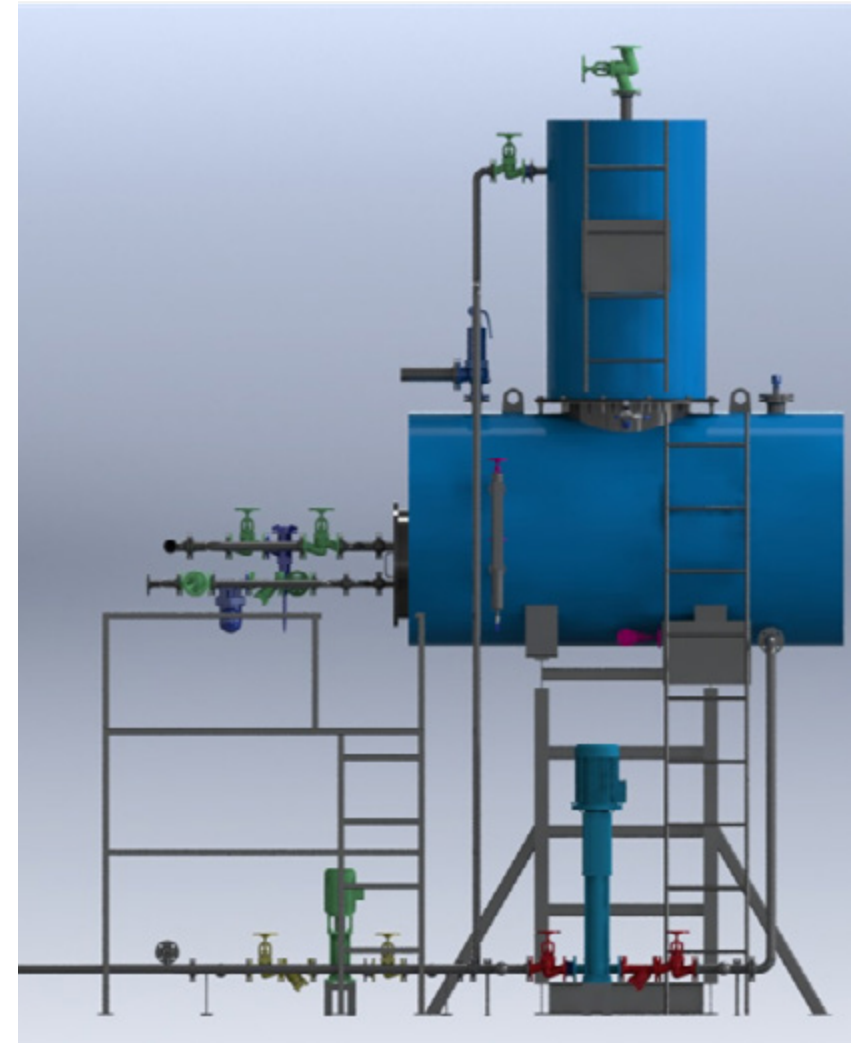
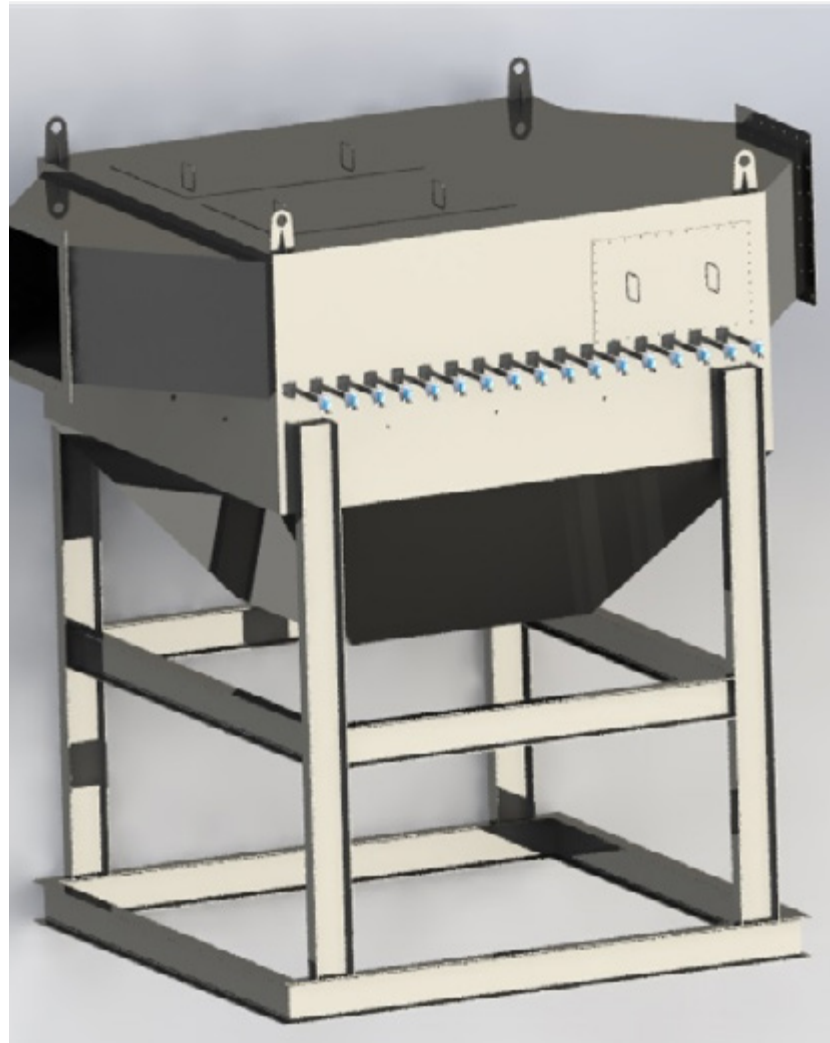
Design, manufacturing and application samples with biomass combustion system: Water Cooled Vibrating Grate



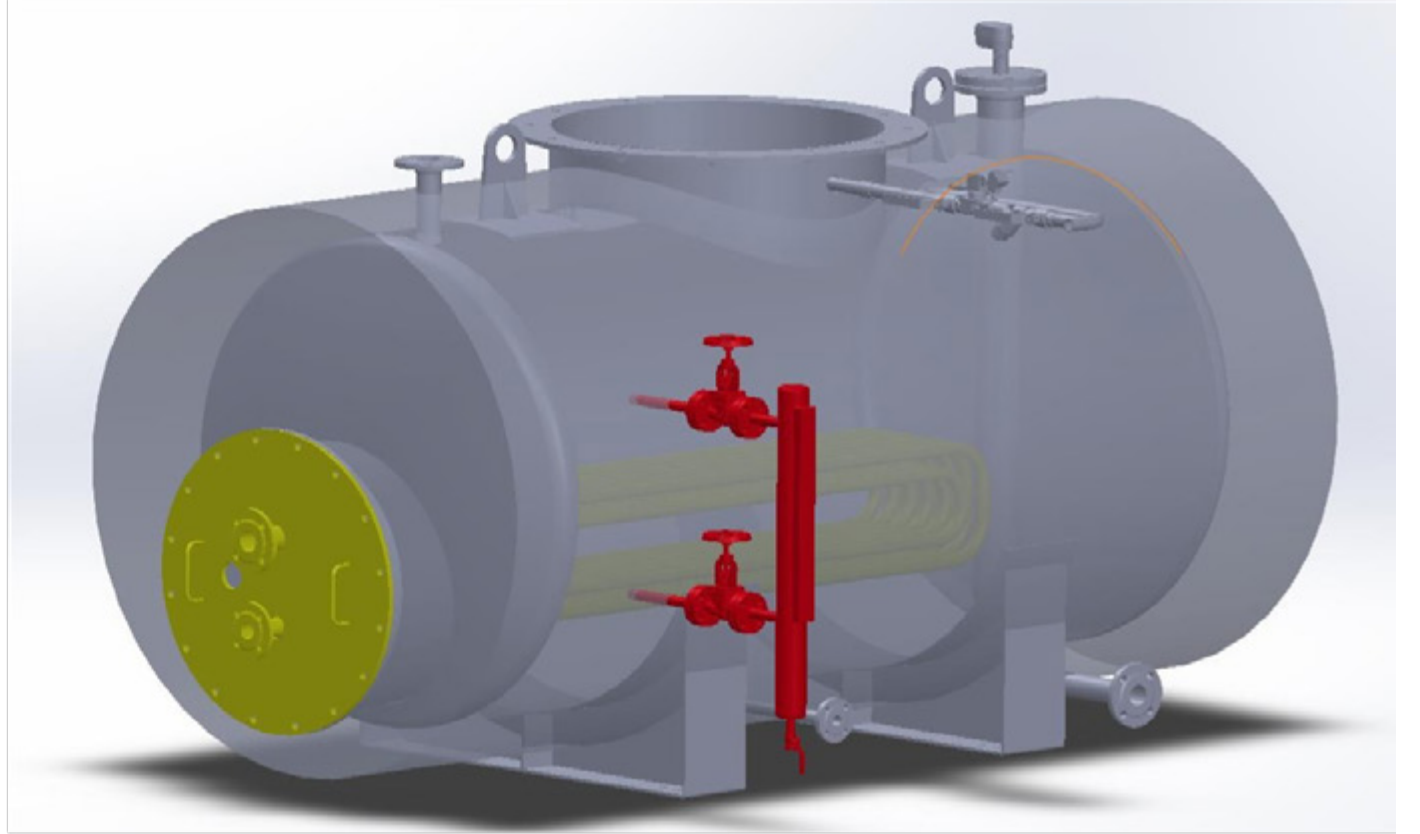
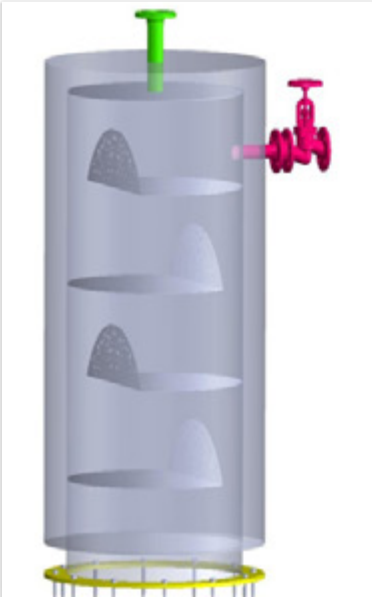
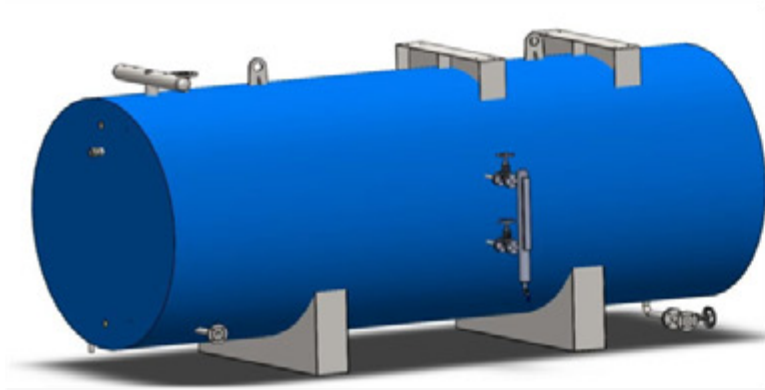
Design, manufacturing and application samples with biomass combustion system: Water Cooled Vibrating Grate



Boiler Room Equipment: Thermic Deaerator, Multicyclone, Economizer, Feed Pumps, Control Board



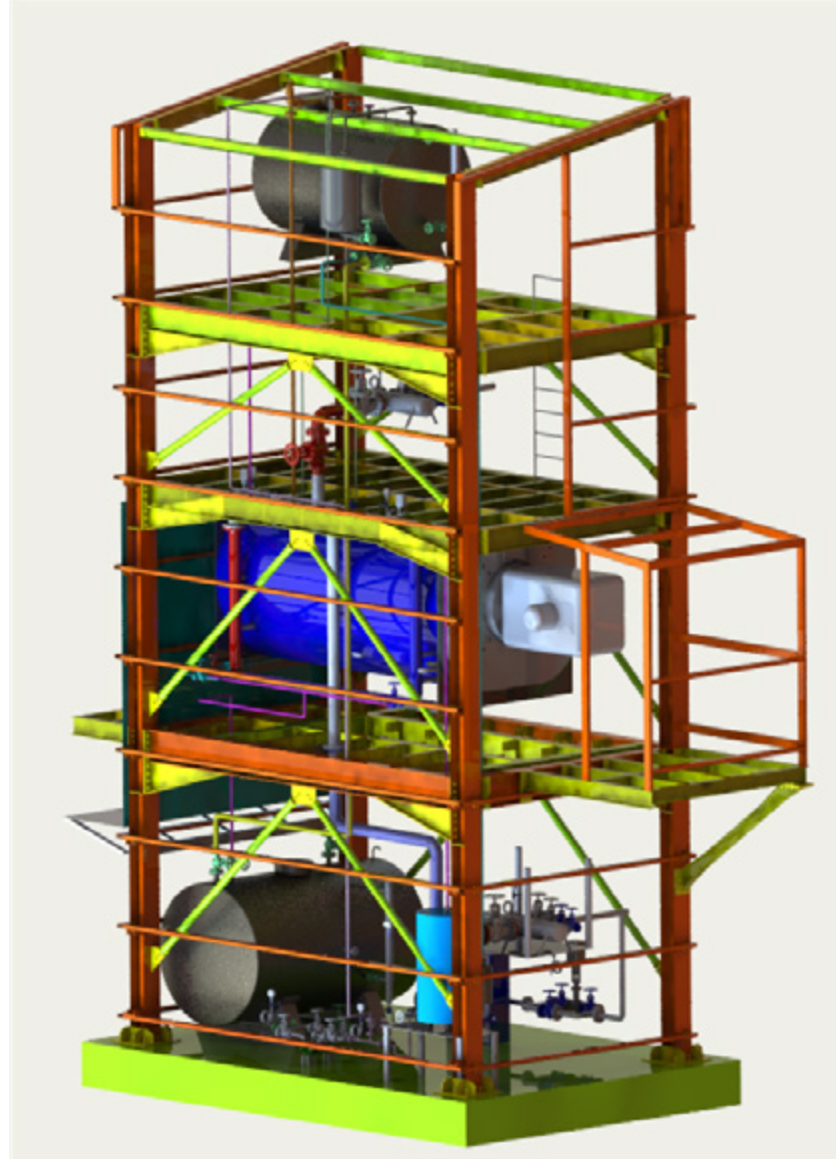
Boiler Room Equipment: Thermic Deaerator, Multicyclone, Economizer, Feed Pumps, Control Board



Boiler Room Equipment: Thermic Deaerator, Multicyclone, Economizer, Feed Pumps, Control Board



Design, manufacturing and application samples for Thermal Fluid Heaters



Design, manufacturing and application samples for Thermal Fluid Heaters



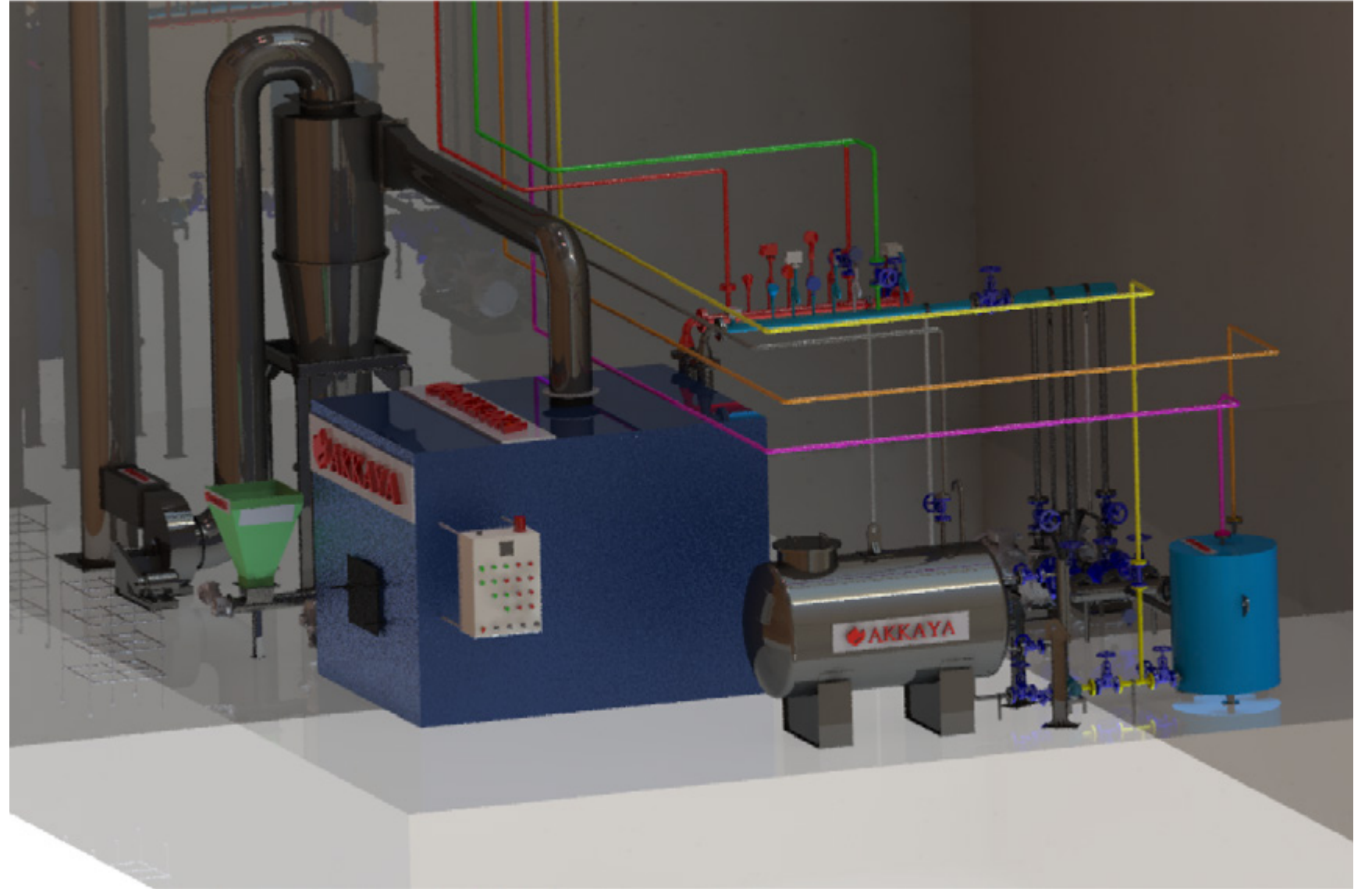
Design, manufacturing and application samples for Thermal Fluid Heaters



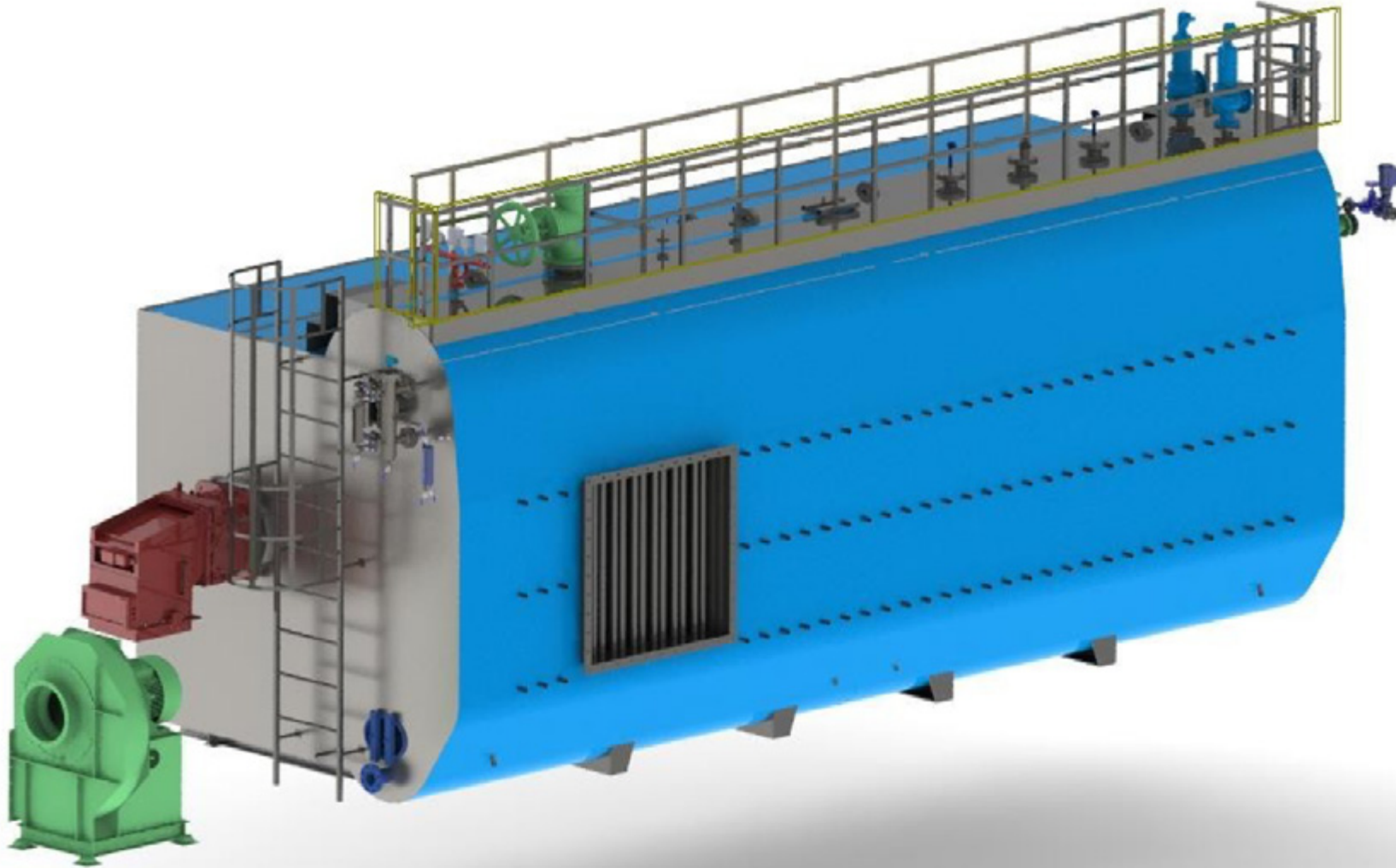
Design, manufacturing and application samples for Thermal Fluid Heaters



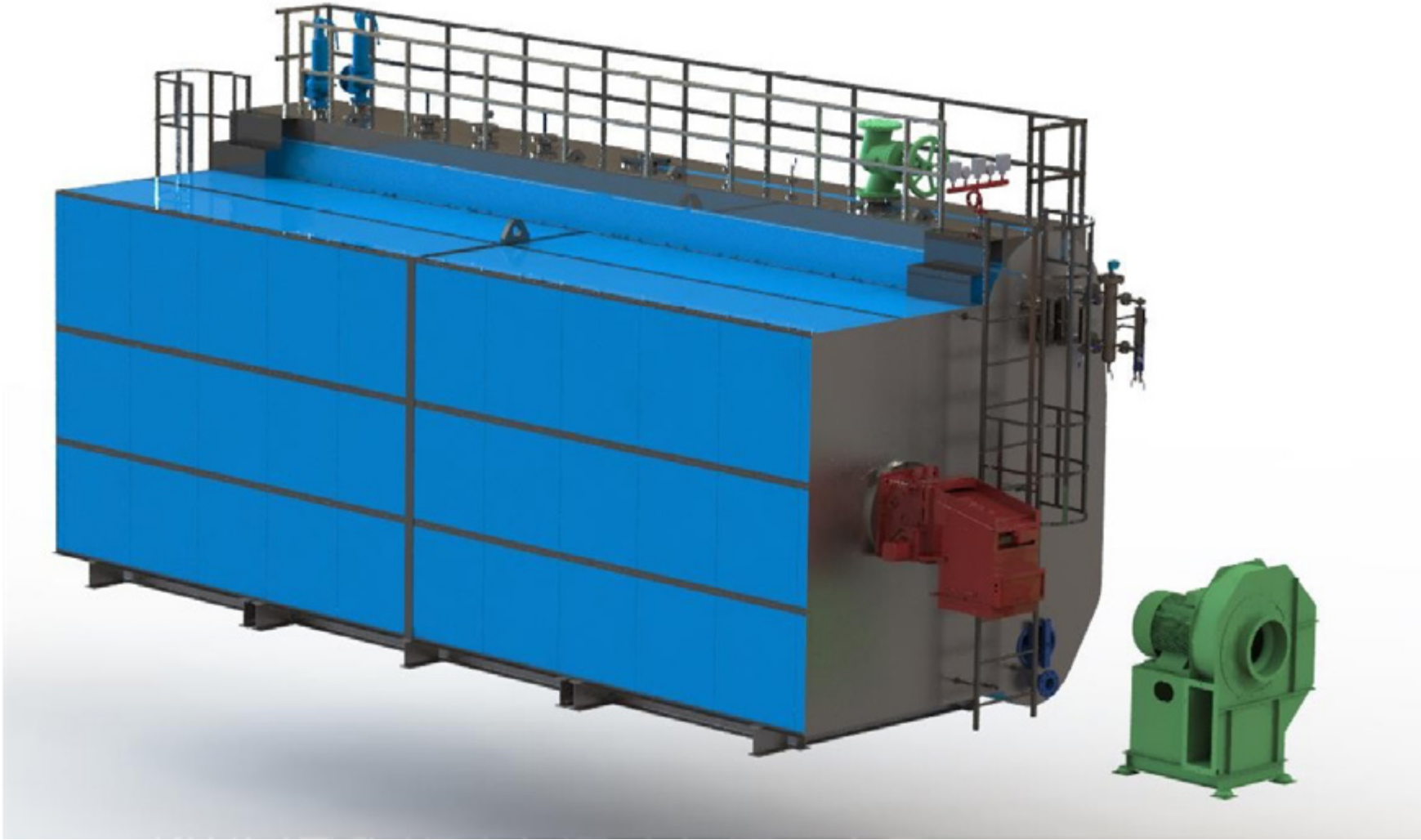
Design, manufacturing and application samples for Thermal Fluid Heaters



Design, manufacturing and application samples Water Tube Boilers



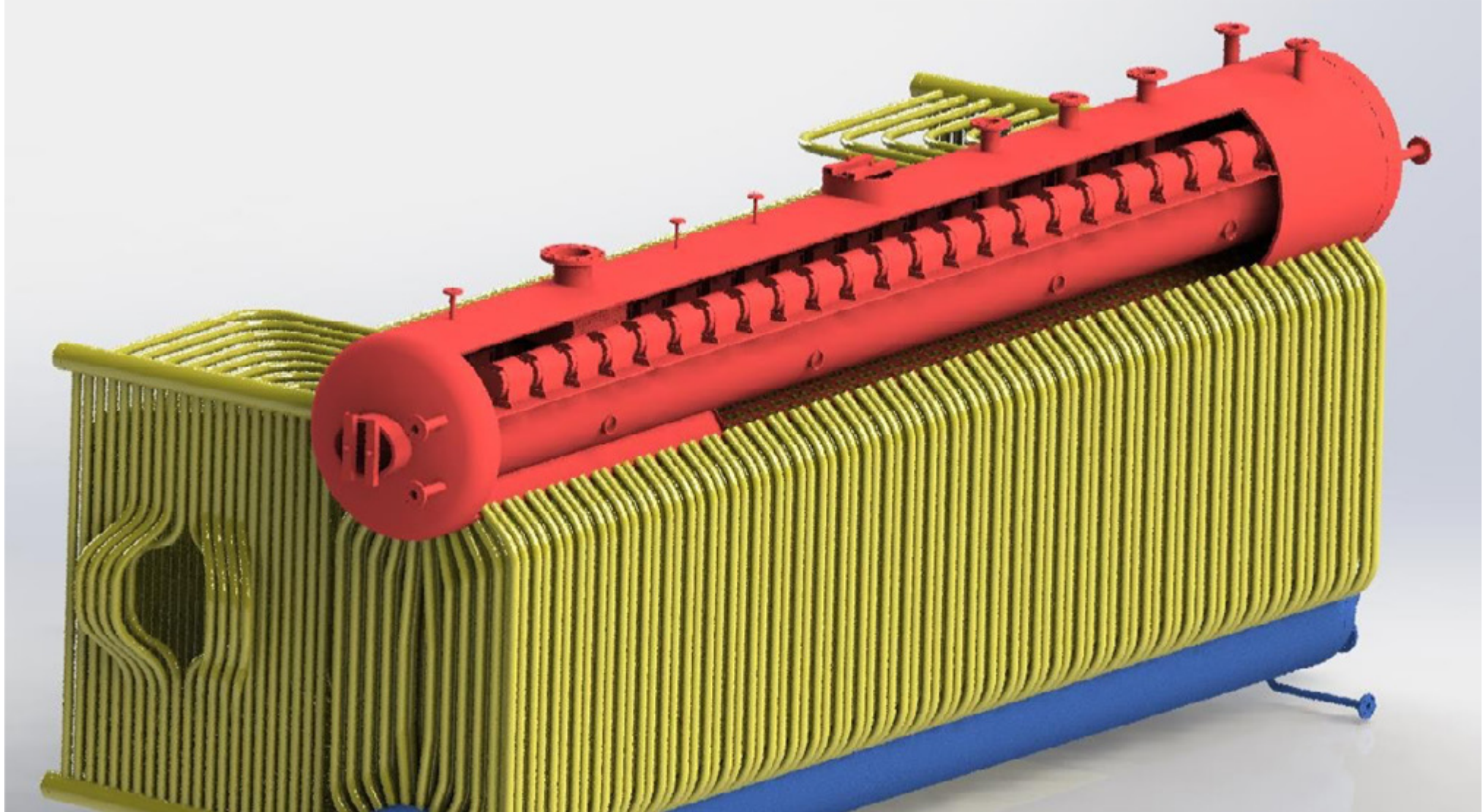
Design, manufacturing and application samples Water Tube Boilers



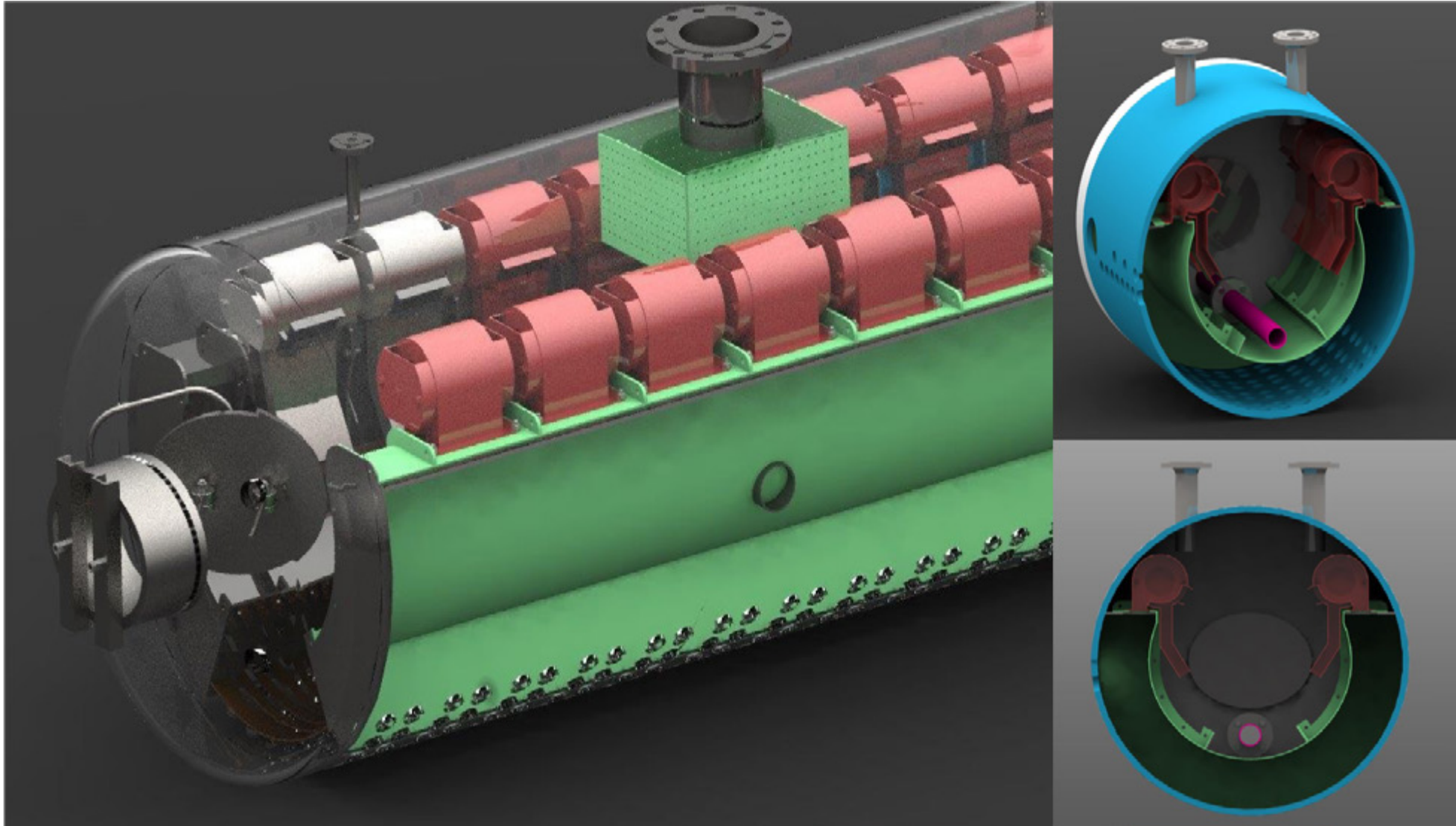
Design, manufacturing and application samples Water Tube Boilers



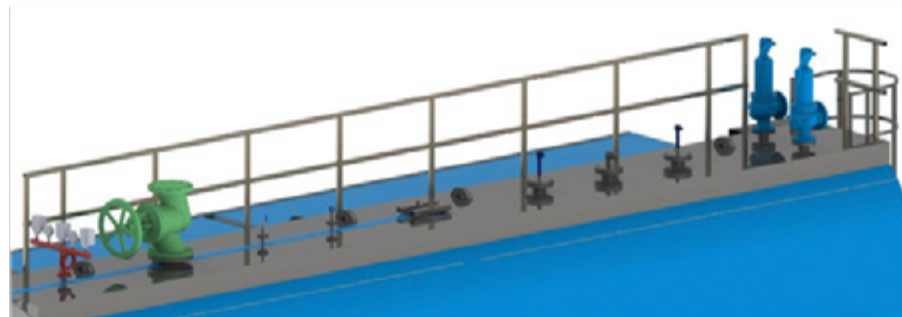
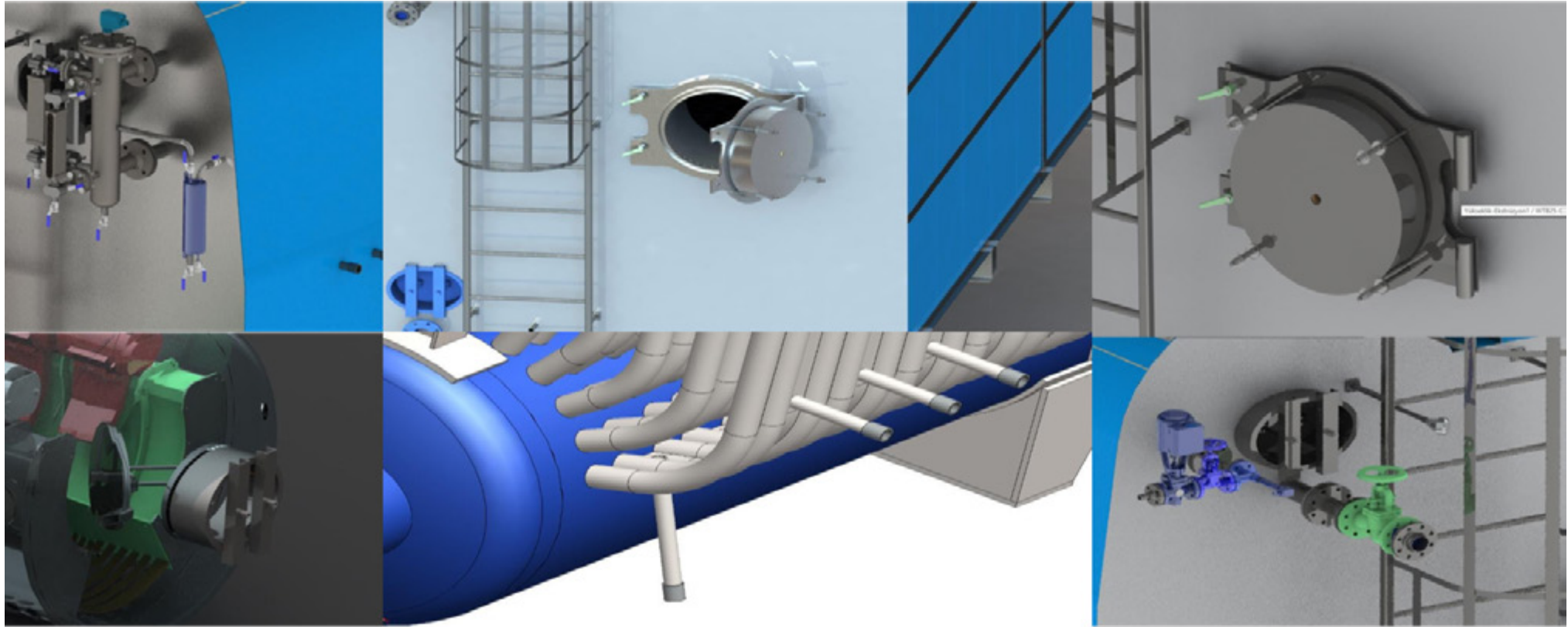
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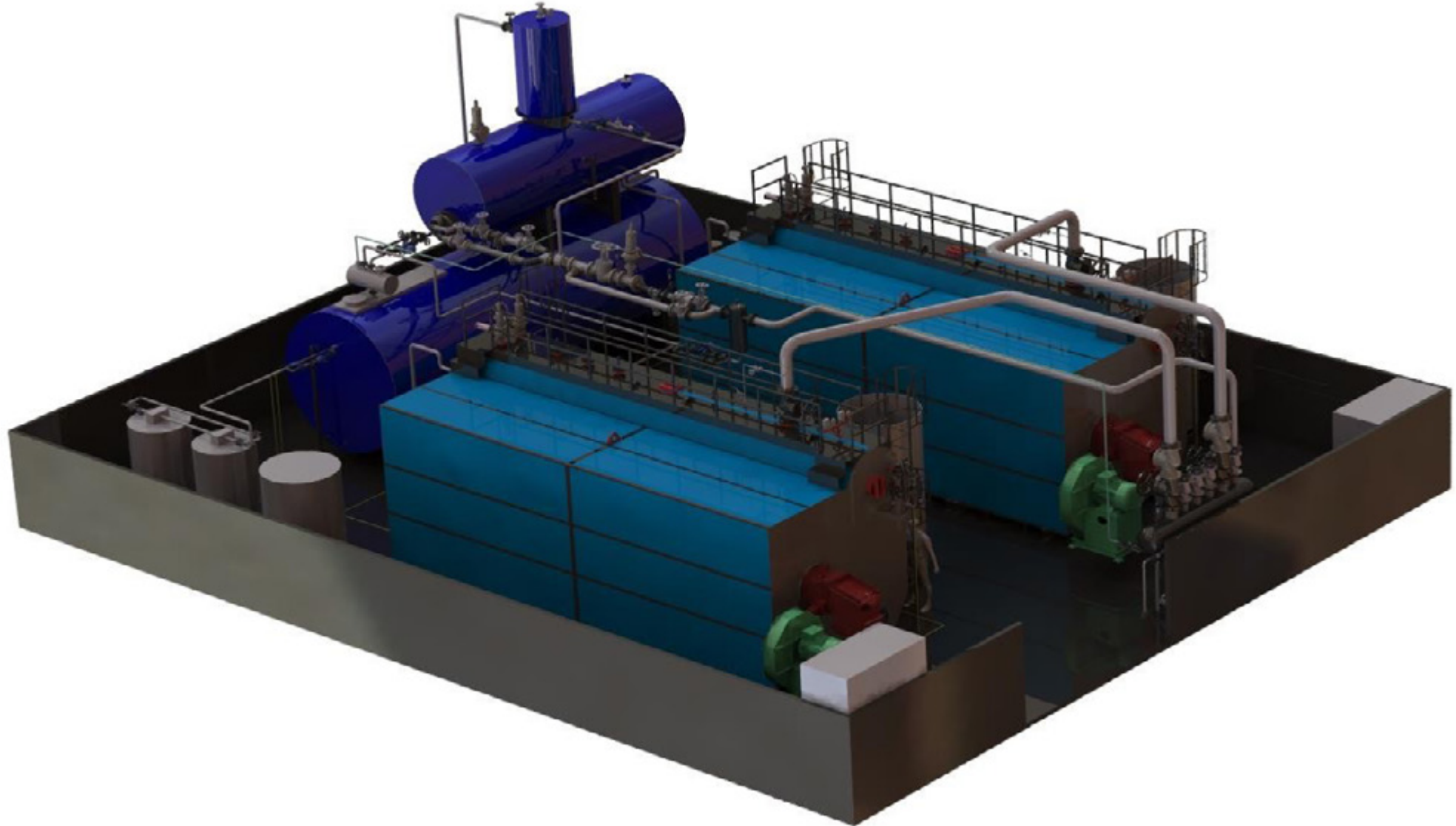
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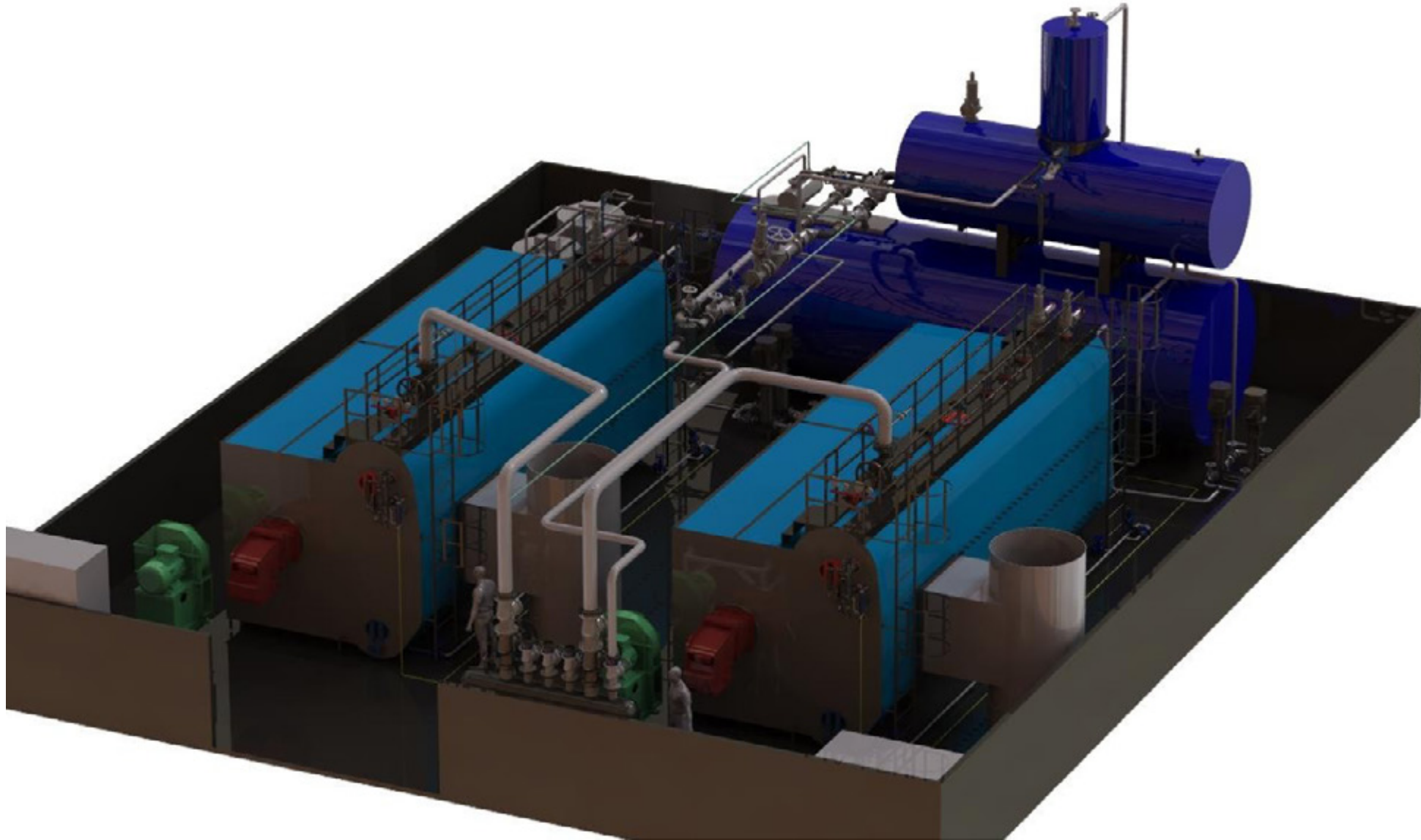
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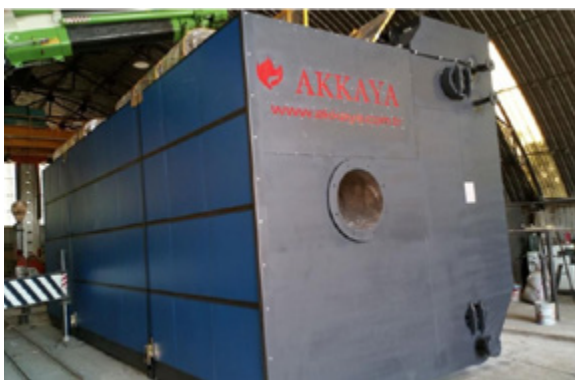
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Thank you for your attention !



Ms. Nazan AKKAYA KOZOK
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