

WASTE HEAT BOILER  
WITH SUPPORT UNITWASTE HEAT  
BOILER

TS EN 12953-1-3  
TS 377-1-2-3-4-5  
ISO 9001-2008  
BFPN:153-3000  
BFPN:153-3700

## FEATURES OF AAIT HEAT RECOVERY BOILERS

- It is used to heat steam- superheated water- hot water and process fluids provide the system efficiency with increasing up to the highest level in all facilities where waste water is obtained, in AAIT Waste water boilers , cogeneration units, waste heat emission units of cement factories and waste heat emission units of glass furnace.
- It has cylindrical structure and high performance.
- Its design and manufacture is conducted in accordance with TS EN 12953-1-3, TS 377-1-2-3-4-5-6-7-8-10-11-12-14, TS EN 12953-1-2-3-4-5-6-7-8-10-11-12- 14 standards.
- It is manufactured with computer aided design and manufacturing technology in accordance with CE quality standards, TRD pressure vessels directive, EN, TSE standards.
- According to the process used, it has maximum heating surface that will be sufficient for obtaining the highest efficiency.
- With a special design that provides exploiting from low counter pressure and waste gases at the highest efficiency, it reduces the loads on the system and absorbs the loads on the directing dampers during automation.
- It operates safer with the pipes welded to the mirrors and it is more durable than the equivalents.
- Special designs and manufacturing to obtain steam with high capacity in narrow areas.
- Optimum isolation amount increases boiler performance in reaching to maximum efficiency.
- When necessary, the energy units operating with liquid-gas and solid fuel as support unit in waste water boilers can be coupled into the same body. This situation provides the system with produce energy production when waste water amount is insufficient.
- With high efficient heat transfer, it ensures to reduce stack gas emission rates and it is environmentally friendly.
- With high capacity range, it ensures large industrial usage.
- In waste water boilers, the efficiency increase between 5% and 10% additionally can be obtained in system efficiency with economizer application coupled behind the boilers.
- The cheapest energy is the waste energy thrown to the environment. To obtain this from waste heat coupled boiler designed efficiently is the most economical way to reacquire the lost energy.
- Waste heat boilers are specially designed and manufactured due to each temperature and flow.

## TECHNICAL DIMENSIONS OF AAIT WASTE HEAT BOILERS

Boiler type	Unit	AAIT 3600	AAIT 7000	AAIT 10700	AAIT 11000	AAIT 13000	AAIT 15500	AAIT 28000
Capacity (Steam)	kG/h	3.600	7.000	10.700	11.000	13.000	15.500	28.000
Fuel	Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas
Operation pressure	Bar	6	6	6	6	6	6	6
Waste water heat	°C	500	500	500	500	500	500	500
Waste gas flow	kG/s	6,5	10,6	18,6	19	22	26,5	48,5
Turbine electric power	MW	1,2	2,2	3,5	4,3	5,2	6,8	13,6

- Note: The values are specified approximately. It is specially designed according to waste water values coming from design system and the required energy amount.