

WH









DESCRIPTION

The waste-heat boilers of the WH range recover energy from hot flue gases as heat source without any supplementary combustion. These boilers are of the monobloc type, with fully automatic operation and are provided with all accessories required for quick commissioning. The WH range is characterized by a great flexibility of design and use; the boilers are designed specifically to meet any particular requirements.

FEATURES

-  design pressure from 1 to 25 bar
-  Heat Output 100 ÷ 20000 kW

ADVANTAGES

-  **Modular versions**
The boiler is available as flexible modular sections dependant on the range of required power.
-  **Easy, fast and safe installation**
The installation is very easy: you just need to connect the system to the electric, hydraulic, steam and discharge lines.
-  **High water content**
-  **Assembly and test performed in the factory**
-  **High operating flexibility**
-  **Minimum operating costs**

Waste heat recovery boiler

MODELS



WHB

Design pressure: 1 ÷ 25 bar

Steam capacity: 50 ÷ 32000 kg/h

Steam boiler with fire tubes, waste heat recovery and monobloc type, compliant with the PED Directive 2014/68/EU for indoor or outdoor installations. Complete with regulation and safety accessories for the automatic operation and control panel certified to manage the safety links of the entire boiler.



WHS

Design pressure: 4,9 ÷ 12 bar

Heat output: 233 ÷ 17000 kW

Super-heated water boiler with fire tubes, waste heat recovery and monobloc type, compliant with the PED Directive 2014/68/EU for indoor or outdoor installations. Complete with regulation and safety accessories for the automatic operation and control panel certified to manage the safety links of the entire boiler.



WHO

Design pressure: 10 bar

Heat output: 116 ÷ 9300 kW

Thermal oil heater with water finned pipes, waste heat recovery and monobloc type, compliant with the PED Directive 2014/68/EU for indoor or outdoor installation. Complete with regulation and safety accessories for the automatic operation and control panel certified to manage the safety links of the entire boiler.



WHC

Design pressure: 6 ÷ 25 bar

Heat output: 3000 ÷ 25000 kW

Hot water boiler with fire tubes, waste heat recovery and monobloc type, compliant with the PED Directive 2014/68/EU for indoor or outdoor installations. Complete with regulation and safety accessories for the automatic operation and control panel certified to manage the safety links of the entire boiler.

AVAILABLE CERTIFICATIONS



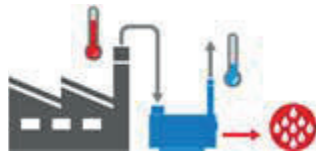
RECOMMENDED TECHNOLOGIES



APPLICATIONS

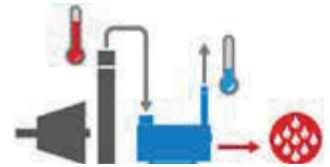
INDUSTRIAL PROCESSES

- Furnaces
- Post-combustion chamber
- Incinerators
- Industrial processes with flue gas at high temperature



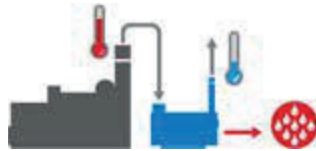
POWER PLANTS

- Turbogas plants

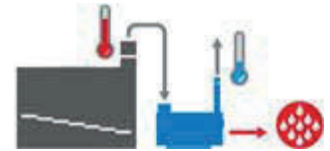


COGENERATORS

- Diesel engines
- Gas and biogas engines
- Vegetable oil engines



BIOMASS PLANTS



INDUSTRIAL PROCESSES

- Furnaces
- Post-combustion chamber
- Incinerators
- Industrial processes with flue gas at high temperature

AVAILABLE ACCESSORIES

Code	Description	WH			
		B	S	O	C
See "Accessories" section	Automatic blowdown system for boilers of the SIXEN and GX series	■			
17090037	Salinity control unit (pneumatic TDS)	■			
17090035	Salinity control unit (electric TDS)	■			
38040100	Sample cooler	■			
See "Accessories" section	Standby feed water pump	■			
See "Accessories" section	Modulating level regulation with electric valve	■			
See "Accessories" section	Modulating level regulation with pump/s + inverter	■			
See "Accessories" section	Modulating level regulation, panel + inverter for 1 pump	■			
See "Accessories" section	Modulating level regulation, panel + inverter for 2 pumps	■			
90060010	High level safety kit	■			
90060040	Self-checking High level safety unit	■			
90060050	Self-checking Low level safety units	■			
86900071	GSS72/WH global safety system	■	■	■	■
90060061	Ladder and handrail	■			
90060090	Side platform	■	■	■	■
90060070	2nd stage regulation pressure switch	■	■	■	■
90060078	Cascade control panel for steam boilers	■	■	■	■
QCTETERM	Eterm Easy manager panel	■	■	■	■

COMPATIBLE COMPONENTS FOR HEATING PLANT ROOM



ECXV
Vertical energy saver



VEX
Steam accumulator



VRC
Condensate collection tank



VRC-V
Condensate collection tank



DEG
Atmospheric deaerator



EVX
Indirect steam boiler



DEG/P
Pressurised deaerator



STORAGE TANK
Thermal oil



ADD
Feed water treatment unit for steam boilers



VEO
Thermal oil expansion vessel



BDV
Blowdown vessel



VEA
Super-heated water expansion vessel