

24H EXEMPTION KIT

Accessory kit for continuous operation without supervision for 24h, according to Legislative Decree 15 February 2016 n ° 26 (implementation of PED directive 2014/68 / UE).

Kit composition:

- Electrical panel arranged with a timer that, at the end of 24 hours, proceeds to: generator stand-by, burner stop and start of the guided procedure for checking the safety devices, in compliance with EN12953-6.
- Nr. 2 low water level safety probes, with self-diagnosis and manual reset on the control panel, CE certified, category IV
- On request: instead of the manual water drain / sludge discharge valve, ball valve equipped with a quick opening electro-pneumatic actuator (1) can be supplied.
As an alternative to the ball valve, a started flow valve, with electro-pneumatic actuator and manual lever-type actuator can be supplied

(1) Manual opening of this valve is only possible with the use of a tool



In case of completion with 24/72 h exemption kit:
functions directly integrated in the electrical panel board

72H EXEMPTION KIT

Accessory kit for continuous operation without supervision for 72h, according to Legislative Decree 15 February 2016 n° 26 (implementation of PED directive 2014/68 / UE).

- Electrical panel arranged with timer and display for checking the remaining time, which, at the end of 72h, proceeds to: generator stand-by, burner stop and start of the guided procedure for checking the safety devices, in compliance with EN12953-6
- Nr. 2 low water level safety probes, with self-diagnosis and manual reset on the control panel, CE certified, category IV
- Nr. 1 high water level safety probe, with self-diagnosis and manual reset on the control panel, CE certified, category IV
- Nr. 1 boiler water salinity control unit by means of a water electrical conductivity control probe, consisting of:
 - System for automatic and permanent monitoring of the conductivity of boiler water (1).
 - Conductivity probe
 - Flanged connection pipe
 - Shut-off valve
 - Pneumatic valve for surface purging, operated on high salinity / conductivity values
 - Gaskets
 - Counter flange
 - Electric kit with selectors and basic electronic regulator.
- Nr. 1 automatic drain unit with timed cycles, with dirt separator function, consisting of:
 - Corner shut-off valve
 - Quick opening pneumatic valve instead of the manual water drain / sludge discharge valve: ball valve equipped with quick opening electro-pneumatic actuator 2). As an alternative to the ball valve, a flow started valve with electro-pneumatic actuator and manual lever-type actuator.
 - Gaskets and counterflange
 - Electric kit

(1) The devices for controlling the hardness and conductivity of the feed water are excluded from the supply, as well as devices for monitoring any pollutants present in the condensate returns..

(2) Manual opening of this valve is only possible with the use of a tool.



KIT COMPOSITION

KIT TDS (DE 1)**Salinity control group**

Kit Composition

Boiler water salinity control group through sensor for electrical water conductivity, made of:

- Conductivity sensor
- Flanged connecting pipe
- Gate valve
- Surface drain valve pneumatically actuated on high salinity/conductivity values
- Gaskets
- Counterflange
- Electrical kit with selectors and basic electronic regulator

**KIT TDS (DE 12 / DE 3G / DE3' 12)****Salinity control group**

Kit Composition

Boiler water salinity control group through sensor for electrical water conductivity, made of:

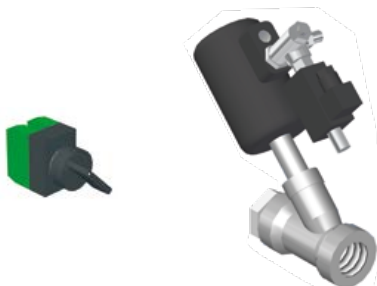
- Conductivity sensor
- Flanged connecting pipe
- Gate valve
- Surface drain valve pneumatically actuated on high salinity/conductivity values
- Gaskets
- Counterflange
- Electrical kit with selectors and basic electronic regulator

**KIT BLOW DOWN (DE 1)****Boiler bottom automatic drain group**

Kit Composition

Automatic drain group, controlled by timer cycles with desliming function, made of:

- 90° gate valve
- Fast opening pneumatic valve
- Gaskets and Counterflange
- Electrical kit

**KIT BLOW DOWN****(DE 12 / DE 3G / DE3' 12)****Boiler bottom automatic drain group**

Kit Composition

Automatic drain group, controlled by timer cycles with desliming function, made of:

- 90° gate valve
- Fast opening pneumatic valve
- Gaskets and Counterflange
- Electrical kit



KIT COMPOSITION

KIT 2nd PUMP (DE 1)**Kit second boiler water feeding pump**

Kit Composition

- A 2nd three phase 400V / 50 Hz motor pump
- Basement with vibration-damping feet
- Check valve
- Gate valve
- Fitting pipe

**KIT 2nd PUMP (DE 12 / DE 3G / DE3' 12)****Kit second boiler water feeding pump**

Kit Composition

- A 2nd three phase 400V / 50 Hz motor pump
- Basement with vibration-damping feet
- Check valve
- Gate valve
- Fitting pipe
- Gaskets
- Counterflange for feeding water connection



KIT COMPOSITION

**KIT EC (gas) / KIT EC (light oil)
for DE 1**

Economizer kit internal to the smoke chamber
Efficiency increase: +4%

Kit Composition

- Exchange battery with carbon steel finned pipes (inox on request)
- Transformation piping
- Thermometer

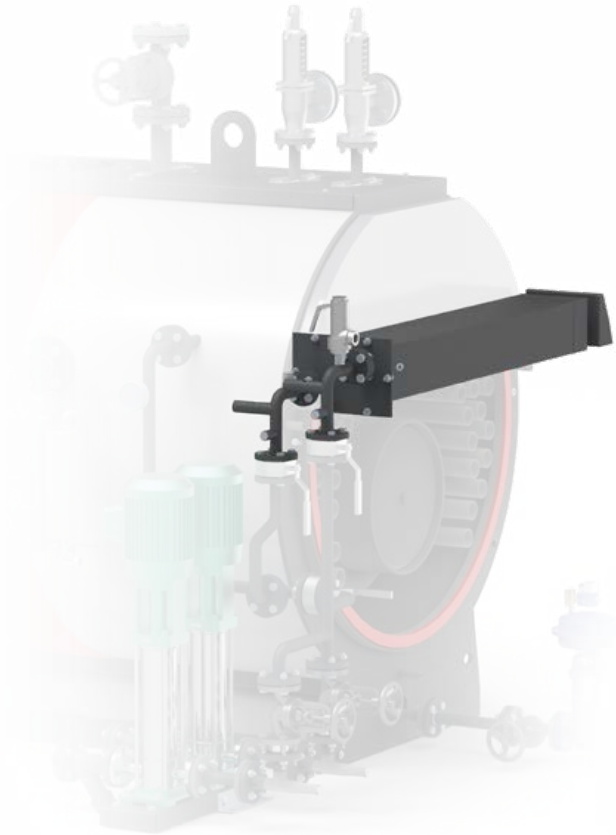
**KIT EC (gas) / KIT EC (light oil)
for DE 12 / DE 3G**

Economizer kit internal to the smoke chamber
Efficiency increase: +5%

Kit Composition

- Exchange battery with carbon steel finned pipes (inox on request)
- Transformation piping
- Thermometer

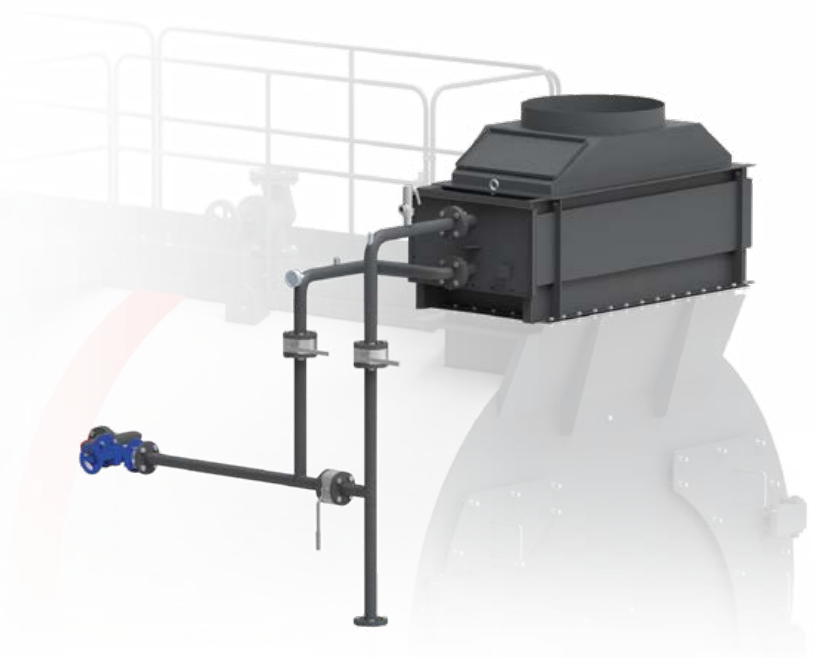
The use of internal economizer kits involves an increase in the overall length due to the increase in depth of the smoke box.

**KIT EC (gas) / KIT EC (light oil)
for DE3' 12**

External economizer kit
Efficiency increase: +5%

Kit Composition

- Exchange battery with carbon steel finned pipes
- Transformation piping
- Thermometer



KIT COMPOSITION

MODULATION KIT FOR FEEDING WATER**with electric valve**

Kit Composition

- Level capacitive sensor
- Electric valve for flow rate water adjustment
- Connection piping
- Electrical kit

**MODULATION KIT FOR FEEDING WATER****with pneumatic valve**

Kit Composition

- Level capacitive sensor
- Pneumatic valve for flow rate water adjustment
- Connection piping
- Electrical kit

**MODULATION KIT FOR FEEDING WATER****with inverter for feeding pump**

Kit Composition

- Level capacity probe
- Inverter and its housing
- Electrical kit



KIT COMPOSITION

KIT SAMPLE COOLER (DE 12 / DE 3G / DE3' 12)**Water samples cooling group**

Kit Composition

Cooling unit, for water samples withdrawn from the boiler, consisting of:

- Stainless steel cooler
- Sample inlet valve
- Cooling water inlet valve
- Connection piping

**KIT DRY RUN PROTECTION (DE 12 / DE3' 12)****Protection against dry operation of the water feeding pump**

Kit Composition for one pump

- Nr. 1 Pressure switch and fitting
- Electric kit for specific electrical panel installed on the boiler

Kit composition for two pumps

- Nr. 2 Pressure switches and fittings
- Electric kit for specific electrical panel installed on the boiler

**ANTI-FLOODING KIT****(DE 1 / DE 12 / DE 3G / DE3' 12)****Anti-flooding protection during cooling down / pressure drop**

Kit Composition

- Corner shut-off valve with mechanical actuator
- Electric kit for specific electrical panel installed on the boiler

