



YBS-10

SURFACE BLOWDOWN SYSTEM

GENERAL FEATURES

The density of total dissolved substances (TDS) in water increases during steam production. In such a case, boiler and steam lines may be damaged if the specified limits are exceeded.

These damages can create defects on the equipment, as well as lead to energy loss by dragging along with the steam and increasing the conductivity of the condensate.

These substances (generally calcium and magnesium salts) which are formed in the steam and steam lines of steam production are removed by various means in order to provide optimum TDS level.

This process is called blow down. If the unwanted substances are dissolved in water, they are automatically evacuated from the system by blowing from the surface. Surface blow down is a process that continues at regular intervals.

1 piece Conductivity Sensor,
1 piece Transmitter,
1 control valve,
1 PID Controller and Control Panel.

On request, 1 Plate Heat Exchanger and 1 Circulation Pump can be added in addition to YBS-10 for ENERGY RECOVERY SYSTEM.

Depending on operating conditions, YBS-10 with heat recovery system can amortize the investment cost in a very short time.

Advantages of Surface Blowdown Control System

It is not possible to determine the amount of undissolved matter concentration in the boiler water and to determine the optimum blast range with a manually controlled surface blow down system.

The boiler operator does not know at what intervals and for how long to blow down.

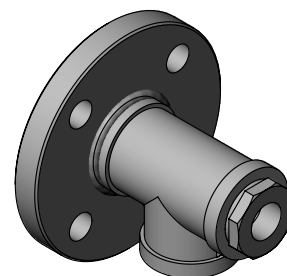
However, even if the blow interval is appropriate, it can not calculate the changing conditions in fresh feed water and boiler feed water.

In the same way, it is not possible to calculate the conditions of return of the condensate.

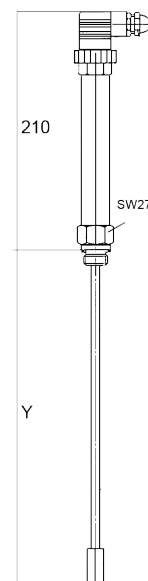
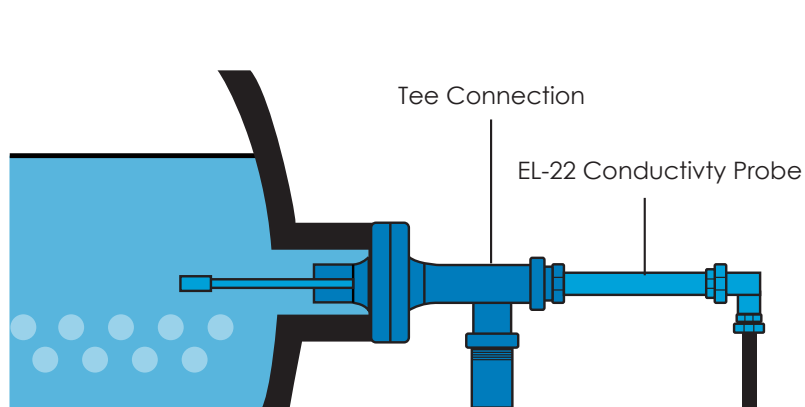
The automatic blow system measures the amount of undissolved material in the water volume by optimizing the surface blow interval.

The automatic surface blow down control system minimizes the amount of blows to ensure that the amount of chemicals used remains at acceptable levels and reduces energy loss to a minimum.

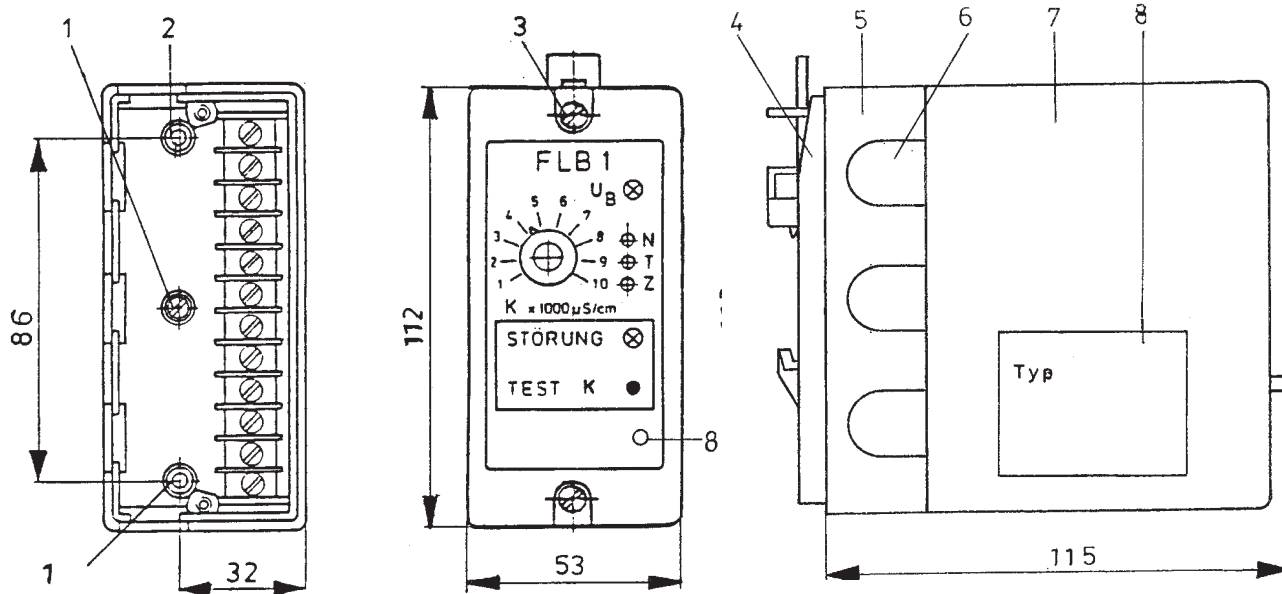
It reduces the cost of water treatment, consumption and heating by a considerable amount.



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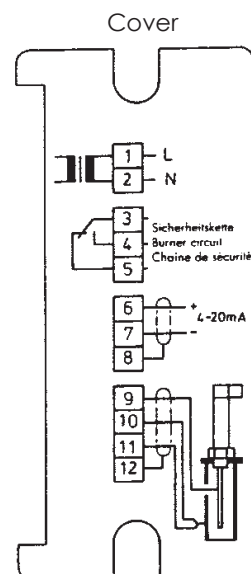


EL 22 Conductivity Transmitter Dimensions



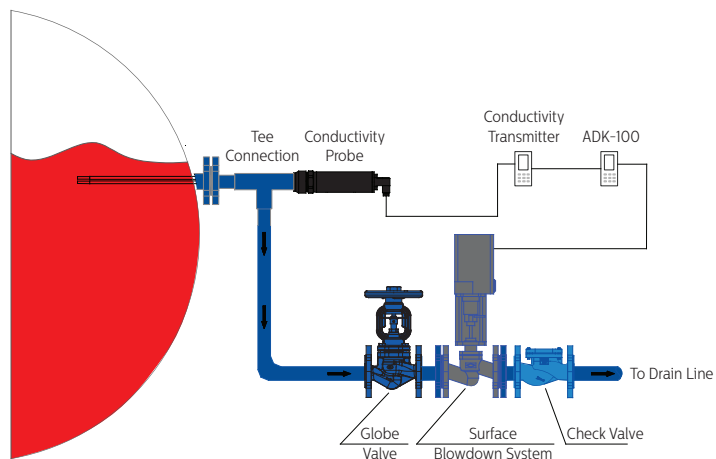
Assembly:

Fix according to current regulations and protection class.
 For standard DIN 46277 35mm carrier rail, secure with additional attachment (4).
 Place the device on the shelf with the standard carrier.
 Remove the rails fixing screws (3) and hold them in the cover (7) (5).
 Connect it to the power source.



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Application Example



Power connection

Make a connection on the back plate of the cover (7) according to the connection diagram FLB1, or check the figure below. Disconnect the connection cable from the supply and make the connection.

Check the supply voltage. Refer to the label for the permissible voltage.

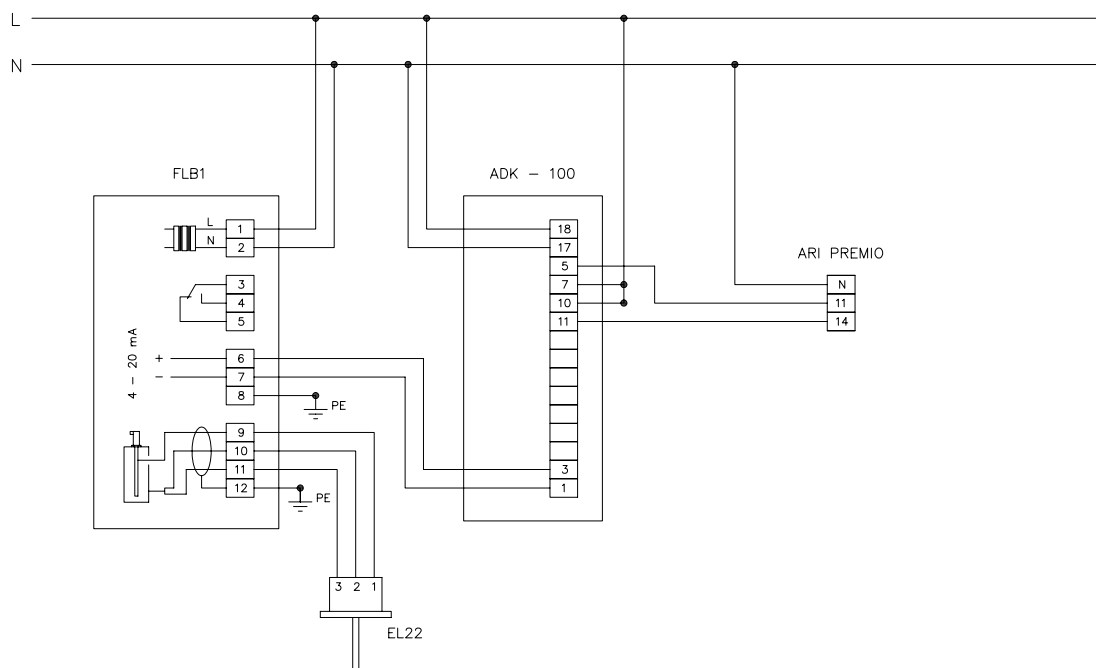
Use connection line:

Unitronic BUS security cable 3 x 0.75 max 20 m (See instructions)

Only ground the FLB1 control unit (terminal 12).

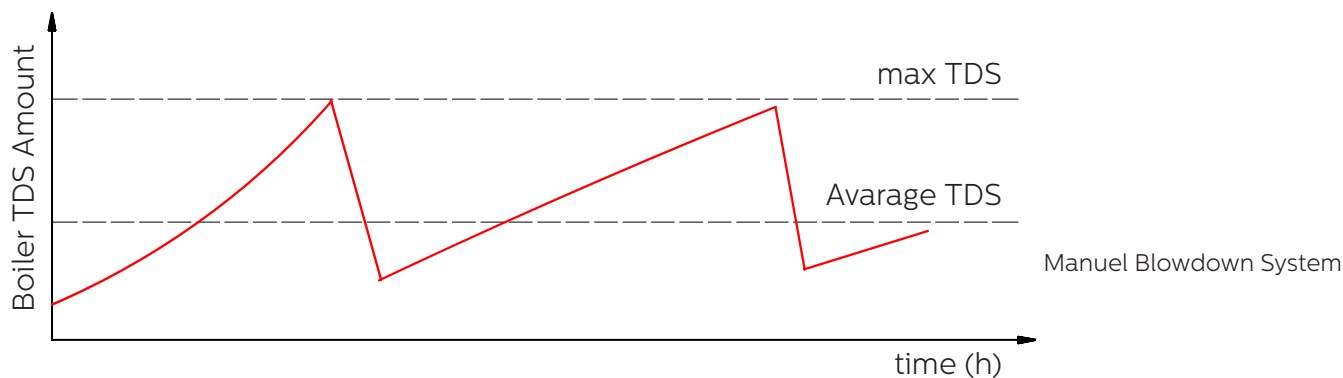
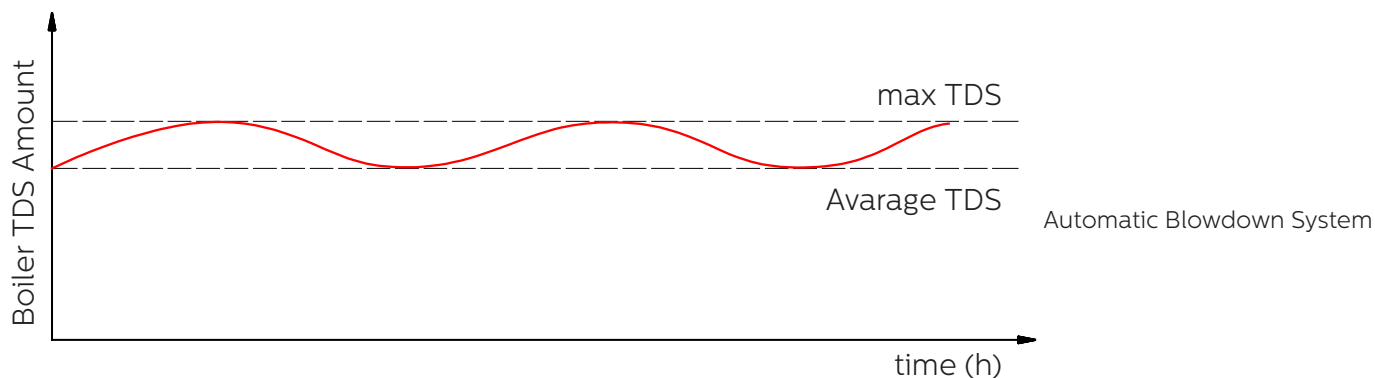
Close the device cover and tighten the screws without opening the electrical connection and mains connection.

Install it according to the separate installation instructions and connect it as shown in the connection diagram.



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Differences Between Manuel and Automatic Blowdown System:



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