

For safety, reliability and energy saving

SAACKE SSBE integral bypass economiser

The SCanView burner management system coupled with the Boiler Water Control Unit (BWC) delivers unequalled functionality and control through a single touchscreen on the boiler control cabinet. Suitable for either new boiler supply or retrofit to existing plant, the system brings all boiler water level control and alarms, blowdown systems, feed pump controls and economiser heat recovery into one control and monitoring unit.

In addition to plant diagrams and measured operating values, trends, graphs, alarms, and history are displayed to assist fault finding and maintenance. Inverter drives of feed water pump motors are possible to provide energy saving and reduced maintenance costs.

The complete system from servomotors and flame scanner to the sensors and control units are certified by Kiwa Gastec to EN230 & 298 & EN61508 SIL3. This ensures peace of mind and delivers the best available technology for personnel and plant health and safety. The unique 'Safety Test System' assists the operator with all mandatory tests without physical intervention of the equipment and provides a dedicated event history log.

Advantages at a glance

- Support for all boiler ancillaries
- ✓ Intergrated unit for all boiler function control
- Single point of performance responsibility

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- Youchscreen control for easy operation, view of fault history and maintenance records
- Safety Test System with logged test history
- Enhanced safety for personnel and plant
- SCanView + BWC approved by Kiwa Gastec to EN230, EN298 & EN61508 SIL3
- Exceeds Guidance for Safe Operation of Boilers BG01

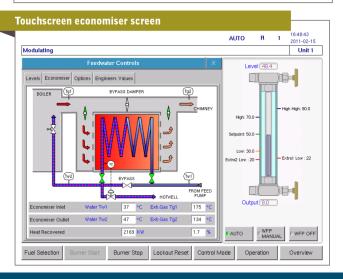


The SAACKE BWC system provides

- Boiler water level control via on/off or modulating feed systems
- Youchscreen display of gauge glass level, set points and alarms
- TDS monitoring, trend graph and alarm
- Automatic surface and bottom blowdown control
- Variable speed feed water pumps
- Yeed water pump selection
- Automatic changeover of feed water pumps
- Economiser performance monitoring
- Economiser damper control if fitted
- Safety Test System additional functionality for mandatory water level tests

The BWC unit supports both on/off and modulating feed pump control systems, and by fitment of inverters to pump motors electrical energy savings are achieved. The additional advantage of inverter controlled on/off pumps is that this provides a wider operating band, reducing the frequency of stops/starts, delivering greater water level stability, thus improving overall boiler efficiency.

Touchscreen safety test failed This safety test FAILED. The burner did not lockout with a flame failure. Go to HIGH FIRE Go to LOW FIRE Go to PILOT Block flame signal Close fuel valve Ontrol limit exceeded Safety limit exceeded Boiler max.limit exceeded Boiler actual : 8.30 bar SAFFTY TEST PASSED Profile 1 (GAS) SELECTED SAFETY TEST FAILED Fuel Selection Burner Start Burner Stop ALARM MUTE Control Mode Operation



Safety test system

This is a unique system that enables all boiler/burner mandatory tests to be carried out under controlled conditions with no need to remove the photocell from its operating position, starve the burner of fuel by shutting the manual fuel valves or linking out or disconnection of boiler limit controllers. Evidence of a successful Test PASS or unsuccessful Test FAIL is recorded in the history log.

The following tests are carried out and supervised by the SCanView/BWC system:

- Low water level alarm test
- ≥ Extra low 1 water level alarm test
- ☐ High water level alarm test
- Second high water level alarm test
- ≥ Extra low 2 water level evaporation test
- ≥ Boiler safety valve test
- Safety limit alarm test
- → Control limit test.
- **→** False flame test
- Flame failure test

