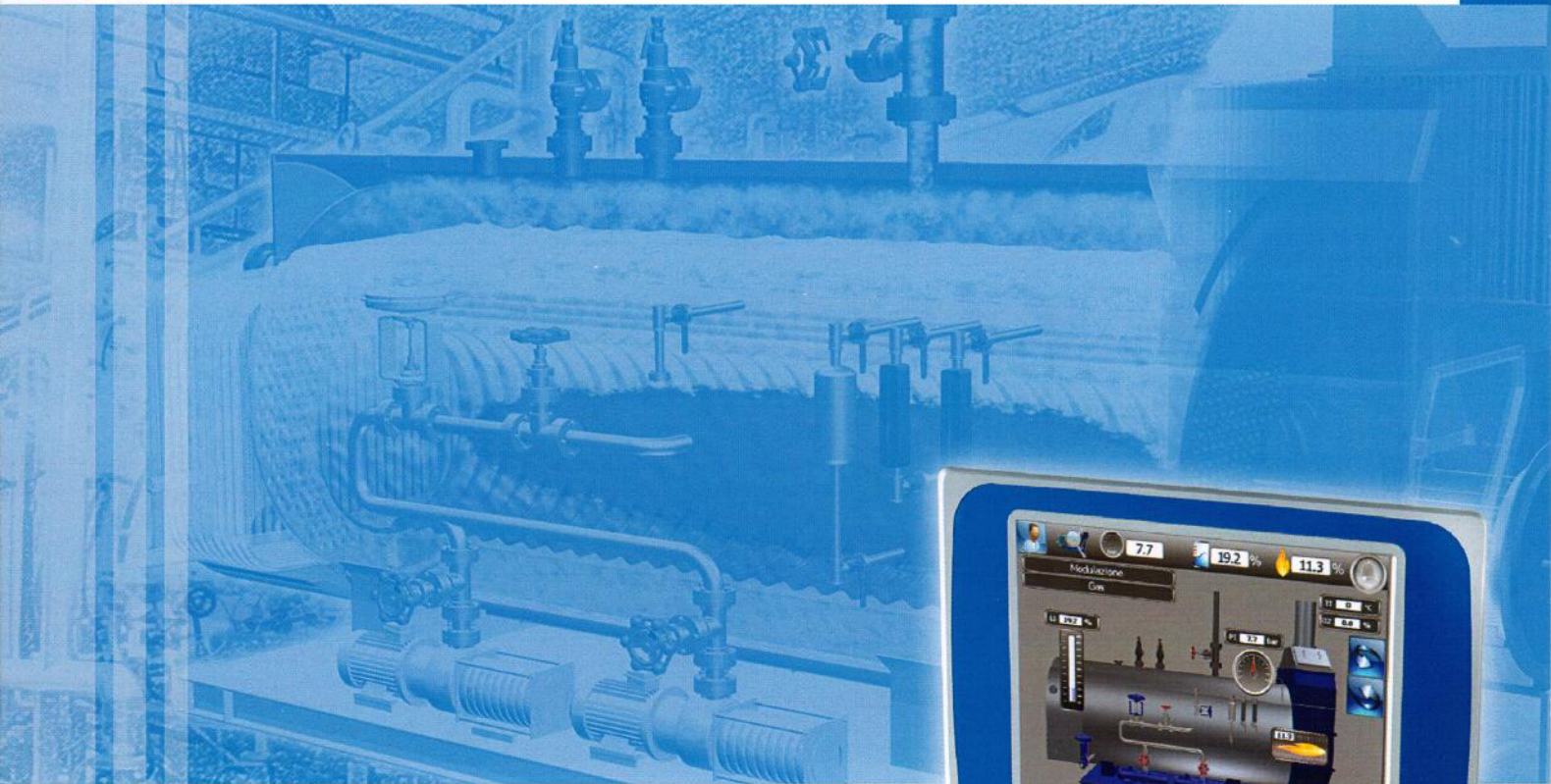
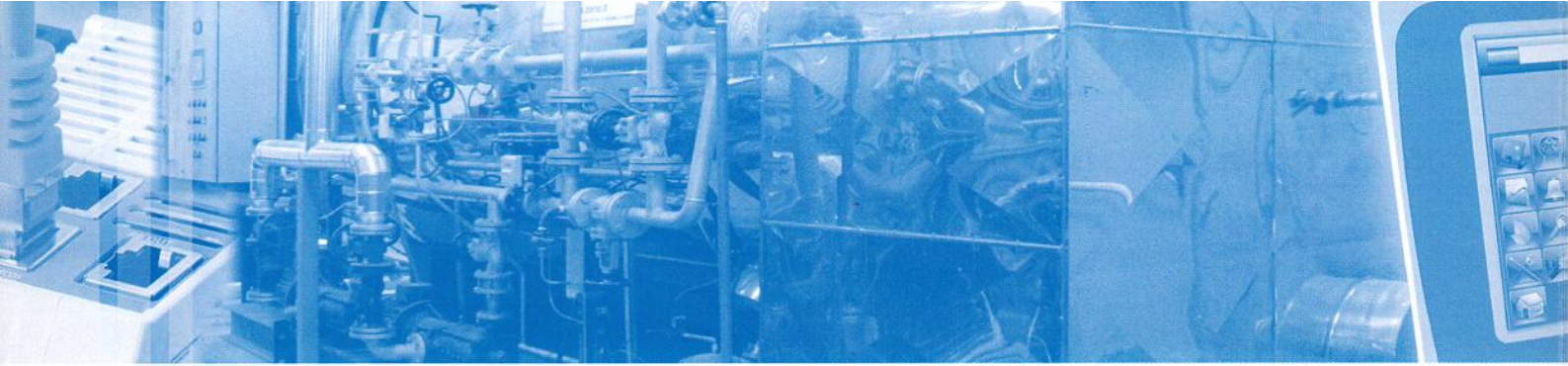




Automatic control system for industrial boilers and boiler rooms



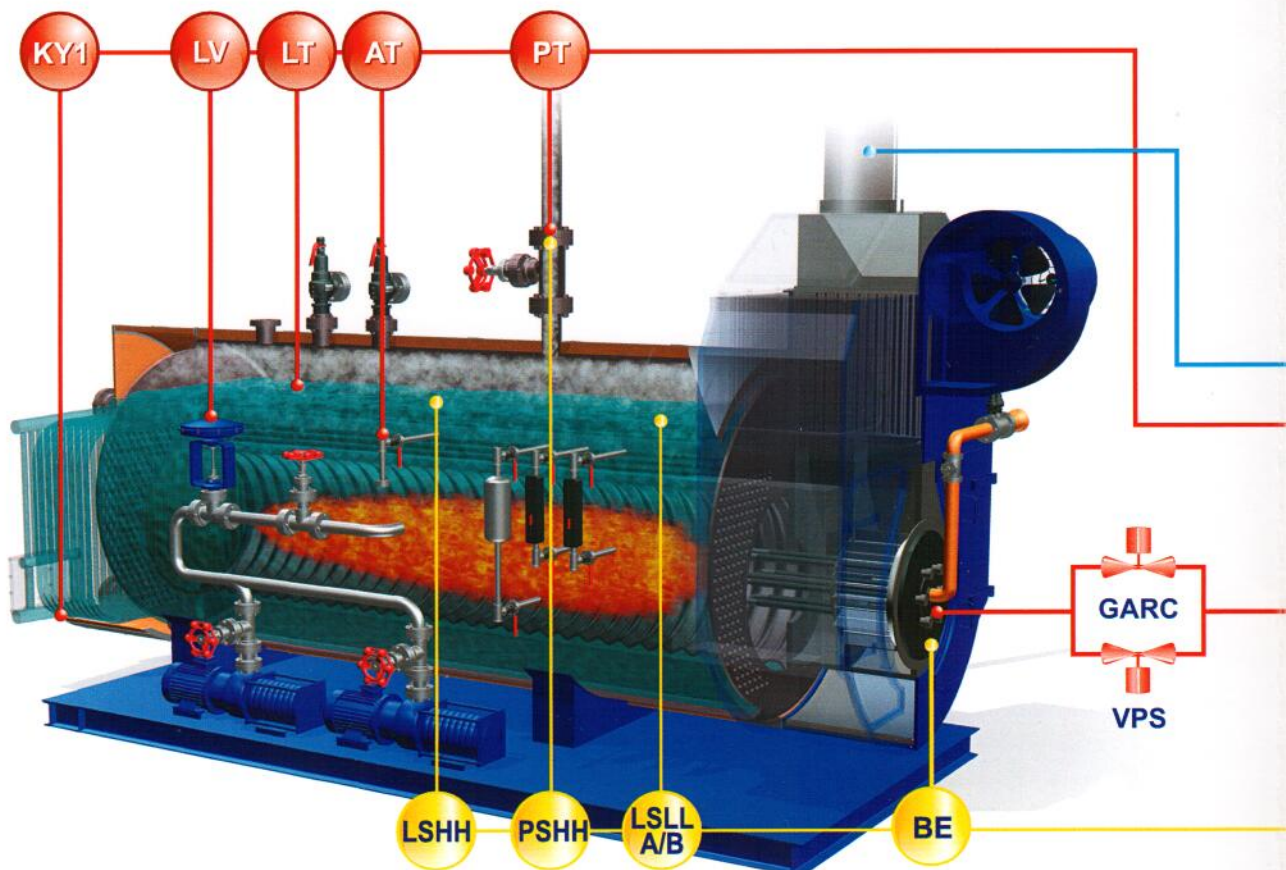


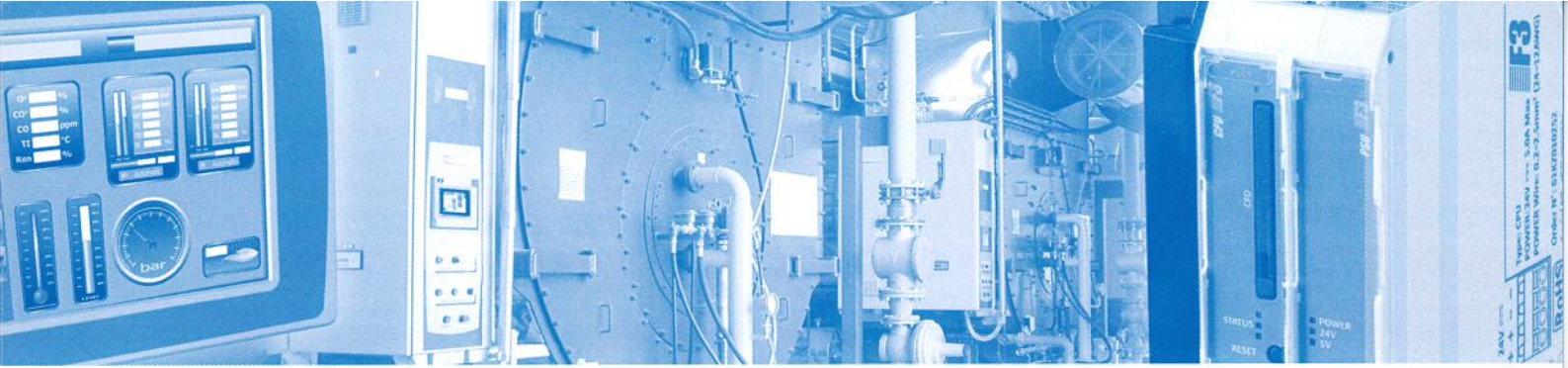
BONO Optispark, by Cannon BONO, is the automatic control and management system for industrial boilers and boiler rooms which ensures:



- CONTINUOUS AND SAFETY OPERATION
- OPERATIVE SAFETY
- ENERGY EFFICIENCY
- LOWER OWNERSHIP COSTS
- INFORMATION AVAILABILITY FOR MAINTENANCE ACTIVITIES

BONO OPTISPARK is applicable to all types of boilers, new or already operating; suitable for any burner, it is interfaceable with every Supervisory Control and Data Acquisition (SCADA) and Distribution Control System (DCS). The system fits any industrial process and district heating. The human machine interface is user friendly; the touch screen operator panel is available in two sizes: 5.7" and 10.4".





FUNCTIONALITIES

Integrated Burner Controller BCU - (Burner Control Unit), SIL3 certified

Burner start-up sequence management, flame protection and gas Valve Proving System (VPS) in compliance with EN298 and EN1643

Micrometric Gas/Air Ratio Control (GARC) in compliance with EN 12067/2

Level regulation up to three elements with steam flow and feed water flow control

Management of the inverter installed on the feed water pump and on the fan engine to achieve maximum energy savings and to reduce noise level

Heat recovery management and energy-saving registration for green benefits achievement

Integrated management of the pollutant reduction systems to the chimney (very low NOx emission)

Oxygen and Carbon Monoxide combustion trim

Continuous emissions monitoring system in compliance with local legislation

24/72 h operation without continuous supervision, in compliance with EN 12953-6 and UNI/TS 11325-3, with registration of periodical tests outputs

Historical data recording, alerts and notifications via SMS

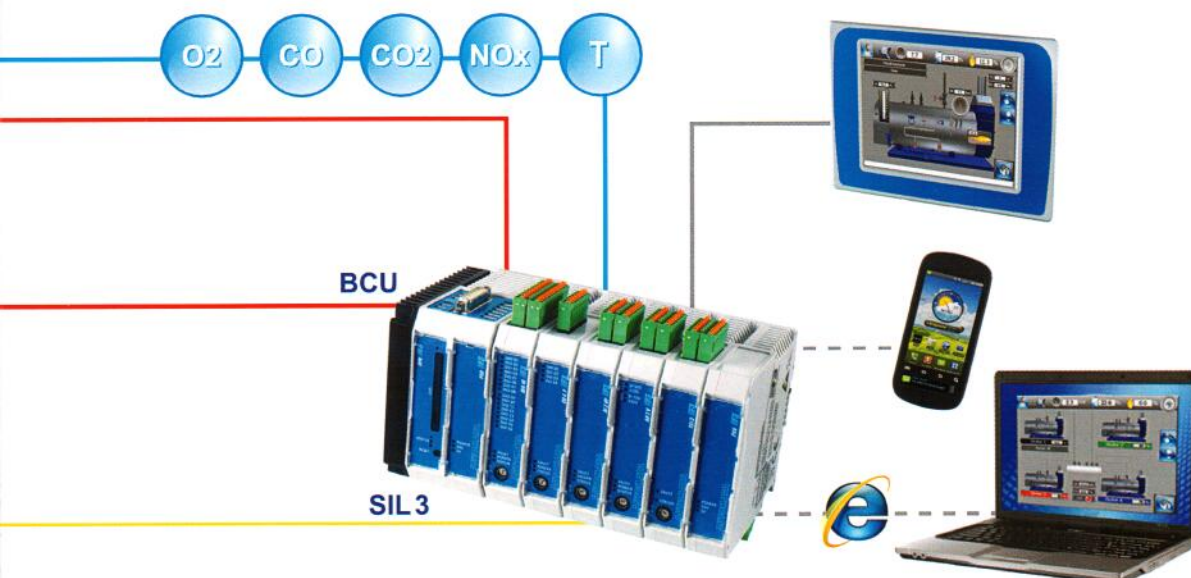
Totalization of water and fuel consumption, steam production, boiler and pumps operation time

Power load sharing system between more boilers in the same boiler room

Management of deaerators, water treatment system and auxiliary equipment

LAN port for remote control and supervision

BONO maintenance and service via Internet or GPRS modem





Cannon BONO ENERGIA

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