



**Special
Burner &
Equipment**

Special Burner & Equipment Srl
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Service and maintenance instructions

This section describes the inspection, maintenance and service work for the Burner System only. Detailed instructions for the maintenance of the components of Burner System can be found in the following chapters.

Obligation of the operator / personnel

- Check the Burner System for external damage, defects or leakages once every shift.
- Every change of the Burner System (e.g. performance change, leakage, etc.) must be reported immediately to the responsible person.

Equipment care

The Burner System as well as the installed components such as pressure measuring devices (pressure gauges) must be kept clean from dust accumulation. Otherwise openings for venting can be blocked and influence the operation of the Burner System.

A monthly cleaning of the Burner System is recommended.

Maintenance

Every 1.500 hours of operating time, carry out these minimum necessary controls:

- Clean the bulb of the photocell. Do not use alcohol that could, once dried, hinder the passage of radiation affecting the flame detector
- Checking the cleanliness and integrity of the insulators of the ignition
- Check the integrity of the flame deflector and the burner head
- Checking the flexible hoses conditions
- Checking and cleaning the nozzles
- Tightness of the fuel guns
- Check of the main organs of the system and perform a good maintenance of all moving parts and those subject to increased wear or stress.

Prior to any maintenance work, the operation of the Burner System must be stopped. Ensure that the Burner System is not in stand-by mode. Interrupt the power supply and make sure it cannot be inadvertently switched back on.

Keep a fire extinguisher at hand and ensure appropriate ventilation. Use only tools that do not produce sparks.

All valves must be closed. Place warning signs to ensure that the valves cannot be inadvertently opened. Also ensure that the main gas valve cannot be opened. Warning signs must be placed on all sides, to indicate that work is in progress on the system.

If welding or grinding will be done at the Fuel skids, the system must be inert.

Drain the system after welding work at the Fuel skids. Afterwards proceed as described in “*General preparations*” chapter all connections must be gas-tight.



After welding work a pressure and leakage test is required. Generally, no welding work is necessary on the piping of the Burner System.

Comply with the instructions of the manufacturer when working on the piping system.
SBE recommends to inert the system before any repair works.



DANGER!

Risk of injury during maintenance work!

Switch off all machines and engines during service and maintenance work and make sure it cannot be inadvertently switched back on.

- Stop fuel supply and secure against restart
- Stop compressed air supply and secure against restart
- Complete piping system must be depressurized
- Use protective gloves to prevent injuries (burns)
- Flush the whole gas piping to remove residual fuel
- Use only tools that do not produce sparks
- Electrical components must be voltage free
- Warning signs must be placed on all sides, to indicate that work is in progress on the gas system
- After repair works check all connections for leakages
- Ensure that all safety devices are operational after repair works

Leakage test

Check for leaks must be performed at least once a week – records of this leakage tests must be kept.

For maintenance work check the single part documentation. If any installed equipment such as flow meter or parts of the piping must be opened for repair works, the gas piping must be in a pressure-free state.

Cleaning of filter (if any)

Once the pressure difference between piping inlet and main valves rises above 0,3 bar or maximum fuel flow cannot be reached (correct fuel pressure, fully open regulating valve), the filter is clogged.

Following steps must be taken to clean the filter:

- Stop the Burner System operation
- Close inlet valves
- Open the filter valve drain (down positioned) and depressurize the Fuel skid
- Open screws of the sealing cap at the bottom of the filter – do not remove
- Loosen sealing cap – if there is no detectable pressure, remove the screws and pull out sealing cap with filter insert
- Clean filter cartridge – use compressed air – do not use metallic tools to clean the filter insert
- Install filter insert and sealing cap – if necessary, use new sealing – tighten screws by hand
- Tighten screws crosswise
- Open inlet valves carefully (partially open) and slowly increase pressure in front of main valves
- Leakage test of the sealing cap using lightly foaming agent
- Fully open inlet valves
- Fuel skid is now operational



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Fuel skids with only one filter must be stopped. Depressurize the entire gas piping and vent the system. Afterwards the filter can be replaced.

Cleaning or replacement of the filter must be done at least once a year, or when the pressure loss rises up to 0,3 bar. Keep a spare sealing at hand before opening the filter.

After the filter insert is cleaned or replaced, a leakage test must be done.



WARNING!

After the filter is cleaned or replaced, the drain valve must be closed.