

Fast Thermal Cleaning in Heated Atmosphere Reactor Systems

DIABLO (S) systems

ADVANTAGES

of the **DIABLO** heated atmosphere Cleaning Systems (**ARENA COMET** technology)

- Fast, reliable and proven cleaning process
- High quality cleaning results, homogeneous temperatures
- Advanced and up to date design
- Safe, maintenance free and userfriendly

CHARACTERISTICS

of the **DIABLO** heated atmosphere Cleaning Systems (**ARENA COMET** technology)

Heated Atmosphere reactor:

- Reactor operating temperature: 100-600°C, adjustable
- Accurate temperature control system
- Integrated postcombustion system
- Advanced Active Emission Control
- Pneumatic operated door with removable parts carrier

Reactor Safety and Control System:

- Safety and control valves and regulators integrated
- Dedicated and specialized 'COMET' Controller with
 - integrated reliable CPU (Hitachi chipset)
 - fail safe compiled software : only programmable parameters can be changed
 - multi-language support, easy upgrade
 - programmable multipoint cleaning cycles, selectable presets available
 - diagnostics with fault log and help display messages
 - programmed security logics to avoid human errors in use

PROCESS

DIABLO (S)5 systems are based on the "heated atmosphere" cleaning process, and mainly consist of a Cleaning Reactor (bottom part) and a postcombustion volume (top section)

The heating as well as the atmosphere inside the Cleaning Reactor are accurately controlled by an integrated up-to-date programmed logic controller for fast and thorough cleaning

OPERATION

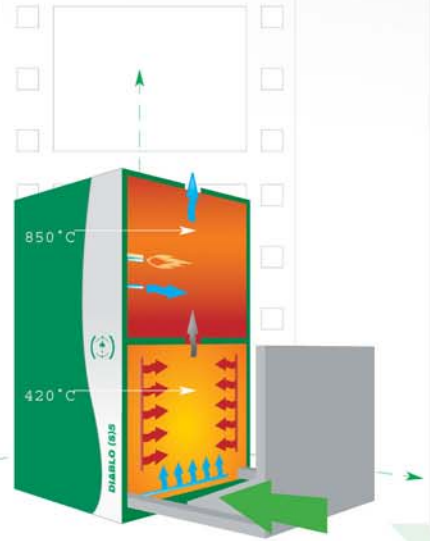
In a simple cleaning cycle, the reactor can be preheated to a chosen 'stand by' temperature (for example 400 °C) before the contaminated parts can be loaded.

The loading frame with removable parts carrier slides out from the unit and is accessible from different sides to load the parts.

The 'cycle start' command closes the door and keeps the system safely closed while the cleaning cycle with temperature and atmosphere control is run automatically.

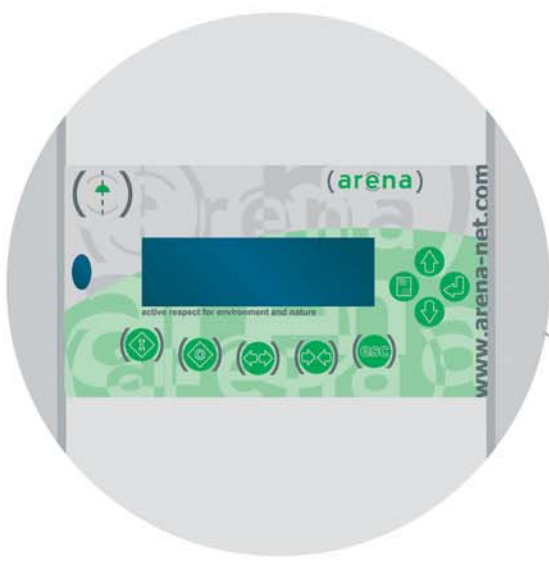
When the cycle has come to an end, the unit resumes stand-by operation when selected and the parts can be unloaded.

More complex multipoint cleaning cycles can be programmed to suit specific applications.



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		(S)3	(S)4	(S)5
depth	[m]	0,3	0,4	0,5
width	[m]	0,3	0,4	0,5
height	[m]	0,45	0,6	0,75
reactor content	[ltr]	40	100	200
thermal rating	[kWth]	1	2	4
metal weight	[kg/batch]	12	25	50
cured paint	[kg/batch]	1	2	4
uncured paint	[kg/batch]	0,6	1,2	2,4
PE plastics	[kg/batch]	0,3	0,6	1,2