

DIABLO/SANTANA

Pyrolysis ovens



Advantages

- User-friendly machine with pneumatic operated door
- Compact lay-out, easy to install
- Environmental friendly
- Low maintenance
- Standard equipped with after-burner
- Unique loading system

Applications:

- Plastic removal of spinnerets, screens, injection nozzles, screws, extrusion dies, breaker plates,...
- Paint stripping of hooks,...
- Cleaning of bakery plates, degreasing
- Recovery of electrical motors, transformers,...



DIABLO systems are very compact pyrolysis ovens, with an accurately controlled process for cleaning of tools in a low-oxygen environment. Post combustion is integrated into the compact design. Cycling time is 1,5 to 4 hours. SANTANA systems work according to the same principle as the Diablo but are used for larger parts.

Model	Net usable size (mm)	Max metal load (kg/cycle)	Max organic load (kg/cycle)
Diablo (S)3	300 x 300 x 450	50	0,5
Diablo (S)5	500 x 500 x 750	150	1,5
Diablo (S)9	900 x 1200 x 900	450	4,5



The reactor is preheated to a chosen 'stand-by temperature' (for example 320°C) before the contaminated parts are loaded. Parts are loaded on loading trays (DIABLO) or on the loading platform (SANTANA) that completely slides out of the cleaning chamber and is easily accessible from both sides to load and unload parts. The door closes pneumatically and the cleaning cycle will keep the unit safely closed and sealed. The cleaning cycle with temperature and atmosphere control runs automatically. When the cleaning has come to an end, the parts can be unloaded. More complex multipoint cleaning cycles can be programmed to suit specific applications.

Model	Net usable size (mm)	Max metal load (kg/cycle)	Max organic load (kg/cycle)
Santana (S)233	1000 x 1500 x 1500	1000	10
Santana (S)254	1000 x 2500 x 2000	1500	15
Santana (S)454	2000 x 2500 x 2000	2400	25
Santana (S)456	2000 x 2500 x 3000	3000	35



Fluidized beds



Advantages

- Fast and perfect cleaning, cycle time 30-60 minutes
- Thermal process for high capacity cleaning
- Safe and reliable, due to advanced loading system
- Perfect controlled homogeneous temperature

Applications:

- Paint stripping of hangers, grids, skids, jigs, ...
- Plastic removal from extruder parts, screws, filters spinnerets, nozzles...
- Removal of rubber, glue, lacquers, wax coatings, ...
- Degreasing of metal parts



SCIROCCO systems are powerful high quality thermal cleaning systems for recycling metal objects and tools by removing organic contamination. Fluidized bed technology provides fast, save and efficient cleaning, suitable for high volume cleaning and applicable in paint stripping, plastic removal and rubber denuding.

Model	Net usable size (mm)	Max metal load (kg/cycle)	Max organic load (kg/cycle)
Scirocco 22B	1000 x 500 x 600	100	2,5 - 7
Scirocco 33B	1500 x 750 x 600	300	5 - 15
Scirocco 44C	2000 x 1000 x 850	600	10 - 30
Scirocco 64D	3000 x 1000 x 1100	1200	15 - 45
Scirocco 85D	4000 x 1250 x 1100	2000	25 - 75



Parts are loaded in a carrier and submerged in the bubbling sand reservoir, which operates at 420–480 °C. Organic coatings are evaporated and oxidized without combustion occurring. The fluidization ensures a homogeneous temperature distribution and ensures non-deformation of the parts. Cleaning time is 30 minutes to 1 hour, depending on the type and degree of contamination. Systems are designed for 24h/d operation and are available in standard and customized sizes.