



MADE IN GERMANY

# BASTRA External Smoke Generators



# BASTRA Sawdust Smoke Generator

## Smoke 150, 200 and 300

These smoke generators work with the recirculation air / fresh air system (UF-system). During this process, a partial flow of the smoke/air mixture is taken from the chamber and is resupplied to the smoke generator after adding fresh air to it. Only a slight amount of remaining smoke leaves the chamber via a restricted exhaust air flap.

- Suitable for single and multi-trolley chambers, depending on the model.
- Designed for evenly distributed damp beech wood sawdust with grain sizes of 0.1 to 3 mm. Other wood types and grain sizes are also possible.
- For locations directly near or away from smokehouses, e.g. on another level.
- Fully automatic mode of operation due to the microprocessor controls of the BASTRAMAT chambers.

- Housing and insert of smoke generator are completely made of stainless steel.
- Geared motor with agitator for automatic transportation of sawdust.
- Electric pre-ignition already occurs prior to smoking.
- Series fire extinguishing equipment for the storage hopper.
- Series fire protection equipment for the embers area.
- Series removable dust collector.
- Electrically driven smoke flap and circulation flap.
- The smoke tubes are cleaned at the same time as the chamber.
- Double-walled insulated stainless steel door.
- Hinges, closures and feet all made of solid stainless steel.
- All the models are maintenance-free except for the regular removal of the ember residue.

- The smoke generator requires the addition of fresh air in the cycle during the smoking phase to control the smoke.
- During the smoking phase, the exhaust air volume flow is as follows:  
< 50 m<sup>3</sup>/h for the Smoke 150  
< 100 m<sup>3</sup>/h for the Smoke 200  
< 150 m<sup>3</sup>/h for the Smoke 300
- Smoking chambers with external sawdust smoke generators do not require a permit in accordance with 4. BImSchV (Ordinance on Waste Incineration and Co-incineration) / No. 7.5 / Column 2, 90% Ruling.
- Optionally, the smoke generator can be equipped with an automatic sawdust moistening facility.
- The smoking chamber can optionally be equipped with electrically heated catalytic afterburner. The exhaust air is then clean and odourless.

### Technical Data:

#### Model Smoke 150

- Measurements (WxDxH):  
560 x 560 x 1,225 mm
- Capacity:  
Approx 75 litres or approx 15 kg
- Connected load:  
1.00 kW 230/400 V, 50 Hz

#### Model Smoke 200

- Measurements (WxDxH):  
730 x 700 x 1,430 mm
- Capacity:  
Approx 150 litres or approx 20 kg
- Connected load:  
1.60 kW 230/400 V, 50 Hz

#### Model Smoke 300

- Measurements (WxDxH):  
830 x 790 x 1,775 mm
- Capacity:  
Approx 200 litres or approx 30 kg
- Connected load:  
1.45 kW 230/400 V, 50 Hz





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## BASTRA Woodchip Smoke Generator

### Smoke 600 H

This chip smoke generator was redeveloped especially for multi-trolley chambers.

Its extensive features, e.g. smoke humidification for especially intensive smoking or dilution of smoke for mild smoking offers various possibilities of refining the smoke.

- Designed for up to 6-trolley hot smoking chambers.
- For wood chips, grain sizes 4.0 to 12.0 mm.
- Fan for combustion air and diluent air.
- Baffle plates to maintain the diluent air ratio of 20:1.
- Hinges, closures and feet all made of solid stainless steel.
- Chain driven agitator and externally located geared motor.
- Electric ignition with ignition rod monitoring by the microprocessor controls of the BASTRAMAT system.
- Robust, pneumatically activated flaps.
- Fire extinguishing equipment for the storage hopper and embers zone.
- Automatic quenching of the ashes in the ash pan.
- Sight window made of safety glass for the embers zone.
- Cover with rubber seal, self sealing at 45°.
- Monitoring facility for smoke generator door, water pressure, air pressure, combustion air flap and ignition rod.
- Horn to report alarms, fault indication using lights.
- Smoke humidification for especially intensive smoking.
- Smoke dilution for mild smoking.
- Collection pan underneath smoke generator door with drainage tube for slops.
- Automatic cleaning along with chamber.
- The smoke tubes are cleaned at the same time as the chambers.



#### Technical Data:

##### Model Smoke 600 H

- Measurements (WxDxH):  
620 x 1210 x 1,430 mm
- Capacity:  
Approx 100 litres or approx 30 kg
- Connected load:  
1.5 kW 230/400 V, 50 Hz
- Compressed air: min. 6 bar
- Water pressure: min. 3 bar



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## Bayha & Strackbein GmbH

P.O.Box 1260 · D-59702 Arnsberg · Germany  
Kleinbahnstraße 12-16 · D-59759 Arnsberg  
Phone: +49(0)2932-4810 · Fax: +49(0)2932-48139  
Internet: www.bastra.de · E-Mail: export@bastra.de

# BASTRA Friction Smoke Generator

## Smoke 650 RR

Installations with the Smoke 650 RR operate within an enclosed system. Thus, no noteworthy emissions are produced during the smoking phase. The existing leftover smoke can be partially washed out after the smoking program by means of spraying water into the smoke generator.

A special friction wheel briefly ensures there is an intense density of smoke while there is low noise development. Includes an integrated wood holder for 4 pieces of beech wood. Other types of wood can also be used.

- Suitable for hot smoking installations of up to 4 trolleys maximum.
- Designed for beech wood pieces measuring 80 x 80 x 1000 mm, we recommend freshly cut wood; cut wood slightly smaller in size and small branches are also permitted.
- Low noise levels, below 75 db(A).
- Reduced wood consumption, e.g. only about 10 cm for a trolley full of sausage.
- Fully automatic operation of the smoke generator, controlled by the microprocessor.
- Highly efficient drive motor with 2800 rpm.
- Patented, robust pneumatic facility for feeding the wood
- Double-walled stainless steel housing and door with mineral wool insulation.
- Hinges, closures and feet all made of solid stainless steel.
- Tempered friction wheel made of high quality, low-wearing tool steel.
- Constant smoke concentration due to the electronic regulating of the contact pressure on the friction wheel.
- The smoke generator is automatically cleaned at the same time as the chamber.

- The smoke tube is automatically cleaned at the same time as the chamber.
- Automatic moistening of the wood abrasion, no danger of fire.
- Separate ash pan under the friction wheel.
- No cleaning of exhaust air required for the smoking chamber.

## Technical Data:

### Model Smoke 650 RR

- Measurements (WxDxH):  
480 x 1035 x 2,435 mm
- Compartment for 4 pieces of wood, wood refills automatically
- Connected load:  
approx. 5.5 kW 230/400 V, 50 Hz

