



External smoke generators



Goliath F (Friction smoke)

The smoke is generated by pressing a **hard log** against a specially designed friction wheel. The special surface coating on the wheel ensures a long life time. The smoke generation process guarantees constant low temperatures.

The benzopyrene content is very low.

The patented proportional controls (contact pressure regulation) ensures a steady smoke density. It is reasonable to perform the smoking process with friction smoke in a closed (hermetic) system. The system therefore does not produce any exhaust emissions during the smoking process. Additional smoke flavours can be added with the optional wood chip cartridge.



Goliath CW (Smouldering smoke)

The smoke is generated by smouldering **wood chips** in controlled conditions. The smoke generation process with smouldering air control guarantees constant smoke generation temperatures.

The benzopyrene content is thus low.

Controlled wood chip supply and smouldering air control ensure a steady smoke density. Smoking can be performed in exhaust smoke reduced operation. The system therefore produces very low exhaust emissions during the smoking process.

External smoke generators



Goliath 1 and Goliath 2 (Smouldering smoke)

The smoke is generated by smouldering **sawdust** in controlled conditions. The smoke generation process with smouldering air control guarantees constant smoke generation temperatures. The benzopyrene content is thus low. Controlled sawdust supply and smouldering air control ensure a steady smoke density. Smoking can be performed in exhaust smoke reduced operation. The system therefore produces very low exhaust emissions during the smoking process.



Goliath S (Steam smoke)

The smoke is generated by smouldering wood chips in controlled conditions with the addition of compressed air and **low pressure saturated steam**. The smoke generation process guarantees constant smoke generation temperatures. The benzopyrene content is thus low. Controlled wood chip transport as well as steam and the injection of compressed air ensure a steady smoke density. Short smoking times are achieved by high humidity thanks to the addition of steam. Smoking can be performed in exhaust smoke reduced operation. The system therefore produces very low exhaust emissions during the smoking process.



Goliath L (LiquidSmoke)

The smoke is generated by spraying **liquid smoke**. The manufacturing process guarantees a minimum benzopyrene content. Very fine spraying via two-component nozzles ensures a steady smoke density. Short process times are achieved by rapid colouring. It is reasonable to perform the smoking process with liquid smoke in a closed (hermetic) system. The system therefore does not produce any exhaust emissions during the smoking process. A wide range of flavourings can be achieved with various Liquid Smoke products.

Sizes	Goliath F			Goliath CW	Goliath 1	Goliath 2	Goliath S	Goliath L			
								TG 1100 / 3000	TG 1100 / 3000		
Weight (kg)	350	400	450	300	250	200	400	100	150		
Total electrical power output (kW)	5,0	7,5	12,0	2,5	2,3	2,3	9,0	1,0			
Storage volume	4 pcs.	4 pcs.	3-4 pcs.	240 litre	200 litre	140 litre	110 litre	20-60 litre			
Liquid consumption (kg/h)								0,2-2,0	0,4-4,0		
Wood consumption (kg/h)	0,5 -3,0	3,0 -5,0	5,0 -8,0	8,0-10,0		4,0-8,0	4,0-10,0				
Smouldering smoke woodchip cartridge	opt.	opt.									
Automatic cleaning	smoke generator and pipes			smoke generator and pipes		pipes	smoke generator and pipes	smoke generator and pipes			
System size (Hot smoking / Air conditioning)	1-3 / 1-15	4-6 / 15-30	4-12 / 30-50	1-12 /-50		4-12 /-50	1-6 /-12	1-12 /-	1-6 /- 2x1-6 /-		
Security device	proportional controls			overtemperature protection		overtemperature protection		low pressure monitoring		not required	
				smouldering area temperature regulation							
Wood specification	knot-free hardwood			beechwood, class 2 / 16 (other types of wood possible as well)		beechwood, grains size 0.1-3mm (other types of wood possible as well)		beechwood, grains size 2-3mm			
Liquid specification										Red Arrow recommendation	
Standard wood dimensions (in cm)	8 x 8	x									
	8 x 10		x								
	10 x 10			x							
	10 x 12				x						
	12 x 12					x					