

Gas burners

► Tanks and equipment

Save energy heating the tanks using direct burners on each tank

As we know anodising and pre-treatment tanks such as etching, degreasing and hot sealing need to work at high temperatures; hence the task is to find an efficient system.

Aluengineering's system is based on a gas burner directly connected to the tank dimensioned to produce the heat necessary for optimal working conditions.



General view of the system

- The system is composed by a patented gas burner and an exhaust extraction fan.
- Inside the tank, a coil acting as heat exchanger is fixed to the bottom.
- A 4 inch chimney is connected to the fan



Internal view of the tank with heating coil



Line of burners

The burners are approved by the Italian and European authorities according to CE standards.

All the running steps are controlled by the internal electronic card. The system is controlled by an ON / OFF switch which supplies power (220V single phase) to the burner.



Internal view of the burner



Burner

Technical data:

GAS BURNER (On/Off)		Mod.	FRI 30	FRI 50	FRI 100
Power (PCS)	Max	(kW)	30	50	100
Consumption	G20	(m3/h)	2,85	3,81	9,00
	G30	(m3/h)	2,18	2,91	7,20
Gas connection		Diam.	1/2"	1/2"	3/4"
Venturi on depressed air vein		No.	3	4	7
Electrical power (230 V 1 ph. 50 Hz)	Electrical power (230 V 1 ph. 50 Hz) 2.3 W – 0.01 A				
Heat exchanger diameter		(mm)	90 (3")	90 (3")	114 (4")
Chimney diameter		(mm)	80	80	100
Air need for good combustion		(m3/h)	60	80	200
Weight		(kg)	11	11	12
Gas category	I3P; II2H3B/P; I3+; I3B/P; I2H; II2H3+; II2Esi3+; II2ELL3B/P; II2L3B/P; II2HS3B/P; II2ELs3B/P; II2E3B/P				
Protection			IP44	IP44	IP44

Exhaust extraction fan	Mod.	S205	S206	S207
Electrical power (230 V 1 ph. 50 Hz)		0.18 kW	0.24 kW	1.1 kW
Body diameter	(mm)	200	300	400
Chimney diameter	(mm)	80	80	100
Weight	(kg)	11	15	29