



























Flamtec is an innovative burner manufacturer based in Barcelona, Spain. We specialized on combustion solutions. Working with the most experienced team, Flamtec has a unique place in the burner world.

We produce burner according to sustainable environmental policies. More environmentally friendly and economical burner designs are our investment in our future.

The right choice of burner is not a sale technique, it is a sale principle for us. That's why, we propose always the most beneficial combustion solution for you.

Main Features

- » It can be used with natural gas, propane, biogas etc.
- » Suitable for water-tube boiler, ovens, dryer, diathermic oil generators etc.
- » Flame can be adjustable according to firing chamber
- » Combustion head, fan, control panel, gas train can be selected according to specific circumstances.
- » Modulation ration is 1/5 and it is really advantageous according to its competitors.
- » For multiple burner-boiler installation, special type of sensor is used.
- » Offers the possibility to heat and use of combustion air and provides an energy saving by increasing the combustion performance through the air economizer using in the system.
- » Provides the flame control between minimum and maximum capacities.
- » Has a feature of compatible running in different firing chambers.
- » Minimizes the amount of the gas emission especially nitrous oxide (NOx) gas by achieving an optimum air fuel mixture thanks to the special design mixer group.
- » By way of the compact dimensions provides an easy mounting and running conditions in narrow areas.
- » Due to the high-pressured fan, it has a feature of working productive opposing the flue and high firing chamber.
- » Easy to assemble the gas train to the burner
- » Standard protection is IP 54 mechanic parts.
- » If it is requested, IP 65 is possible as protection standard.
- » Internal or external Flue Gas Recirculation is available to decrease NOx emissions
- » All wiring, burner management system and electrical supply are included.

Conformity with directives as below

- 89/336 (2004/108) EEC
- 73/23/EEC
- 98/37/EEC
- 90/396/EEC
- EN 676

OPTIONS

- » O2 Trim control to provide extra efficiency.
- » CO Trim control to promote sensitive control system
- » Variable Speed Drive (Inverter) to prolong the product life
- » IP 65 Protection Class for special project
- » Internal or External Flue Gas Recirculation for low emission rules
- » Dungs VPS 504 Gas Leakage Control
- » Premix head can be selected as Low NOx Burner
- » Simultaneous firing
- » Soundproof fan



Lower emission levels

improve operating efficiency

Easy serviceability and maintenance

Technical Features

			Сар	Power	Motor Kw	GAS INPUT RESSURE mbar			
Туре							ı3/h ı-max	Supply	
SC 3.1 GZ	110	500	94.600	430.000	11,47	52,12	1N - 50 Hz 230V	0,37	100-300
SC 3.2 GZ	130	650	111.800	559,000	13,55	67,76	1N - 50 Hz 230V	0,37	100-300
SC 5.1 GZ	200	750	172.000	645.000	20,85	78,18	1N - 50 Hz 230V	0,75	100-300
SC 5.2 GZ	260	950	223.600	817.000	27,1	99,03	3N - 50 Hz 380V	1,5	100-300
SC 8.1 GZ	330	1150	283.800	989.000	34,4	119,88	3N - 50 Hz 380V	1,5	100-300
SC 8.2 GZ	430	1600	369.800	1.376.000	44,82	166,79	3N - 50 Hz 380V	2,2	100-300
SC 8.3 GZ	580	2100	498.000	1.806.000	60,46	218,91	3N - 50 Hz 380V	3	100-300

Heating values of gaseous fuels

		LOWER HEATING VALUE					
Fuel	Density Kg/m³	MJ/kg	MJ/m³n	Kcal/ m³n	Kw/ m³n		
G20 Nat gas	-	-	35.58	8500	9.68		
Propano	2.02	45.98	92.88	22188	25.80		
Butano	2.71	45.70	123.84	29585	34.40		

Conversion of calorific values

1 kcal/kg = 4.186 kJ/kg 1 kWh/kg = 3600 kJ/kg 1 kcal/kg = 0.001163 kWh/kg

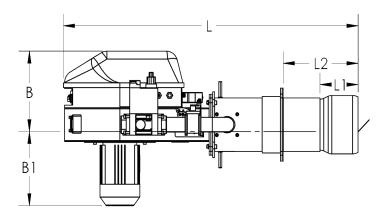
Туре	Protection Level	Ignition Transformer
SC 3.1 GZ	IP 40	2X7,5 kW
SC 3.2 GZ	IP 40	2x7,5 kW
SC 5.1 GZ	IP 40	2x7,5 kW
SC 5.2 GZ	IP 40	2x7,5 kW
SC 8.1 GZ	IP 40	2X7,5 kW
SC 8.2 GZ	IP 40	2x7,5 kW
SC 8.3 GZ	IP 40	2x7,5 kW

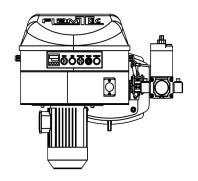
Did You Know?

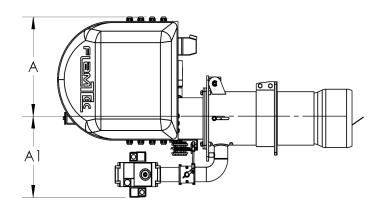
Standard air density 1.293 Kg/m3 refers to 0°C and 1013 mbar Reference conditions: Air Temperature 20 °C Pressure 1013.5 mbar Altitude 0m a.s.l

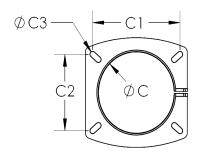


Dimensions



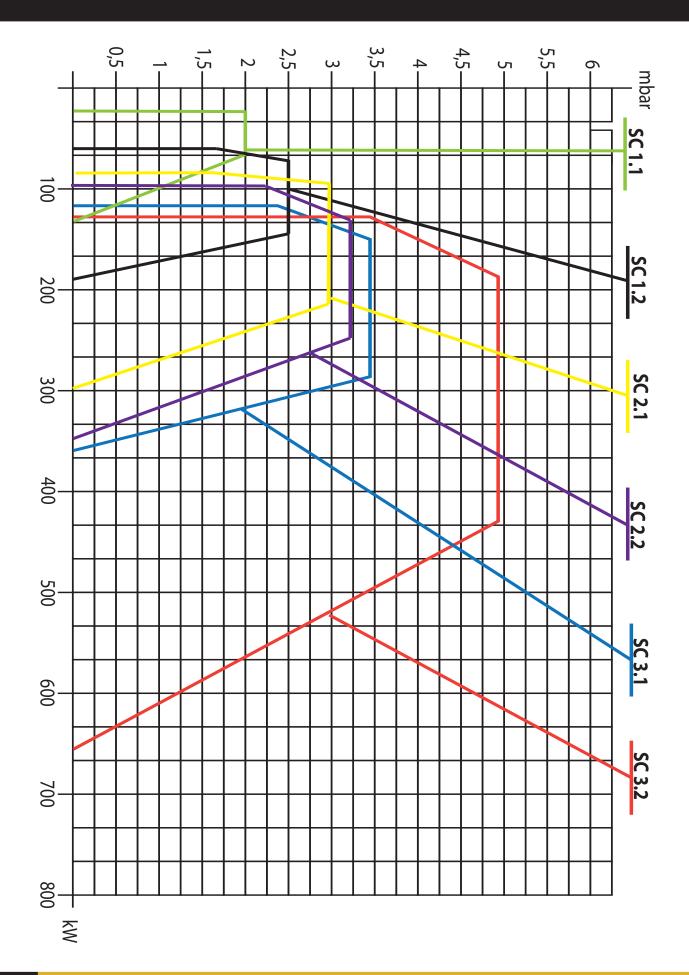




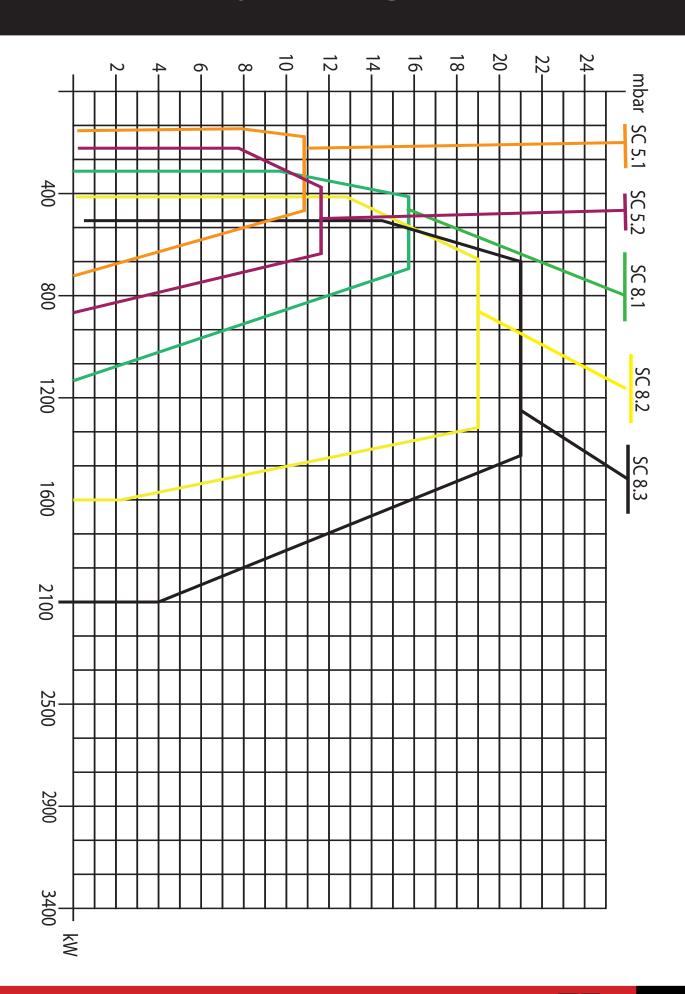


	Α	A1	В	B1	ØС	C1	C2	ØC3	L	L1	L2
SC 3.1 GZ	340	320	320	250	140	155	142	M12	1070	170	390
SC 3.2 GZ	340	320	320	250	140	160	150	M12	1070	170	380
SC 5.1 GZ	380	390	300	280	170	200	170	M12	1160	180	380
SC 5.2 GZ	380	390	300	310	170	200	170	M12	1180	180	380
SC 8.1 GZ	420	390	310	310	170	200	170	M12	1230	180	380
SC 8.2 GZ	420	390	310	330	220	240	190	M14	1250	270	480
SC 8.3 GZ	420	390	310	360	220	240	190	M14	1250	270	480

Capacitive Diagrams



Capacitive Diagrams





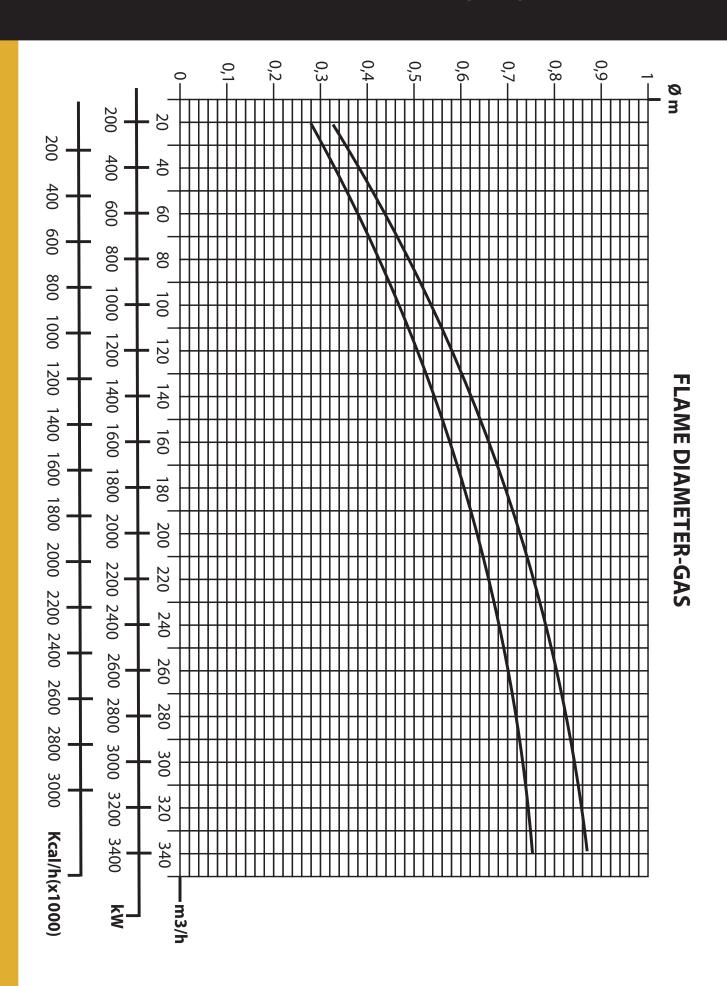
The most modern designs are the invesment on our future. Compact and aesthetic desings satisfy elaborative customers.

▼ U4

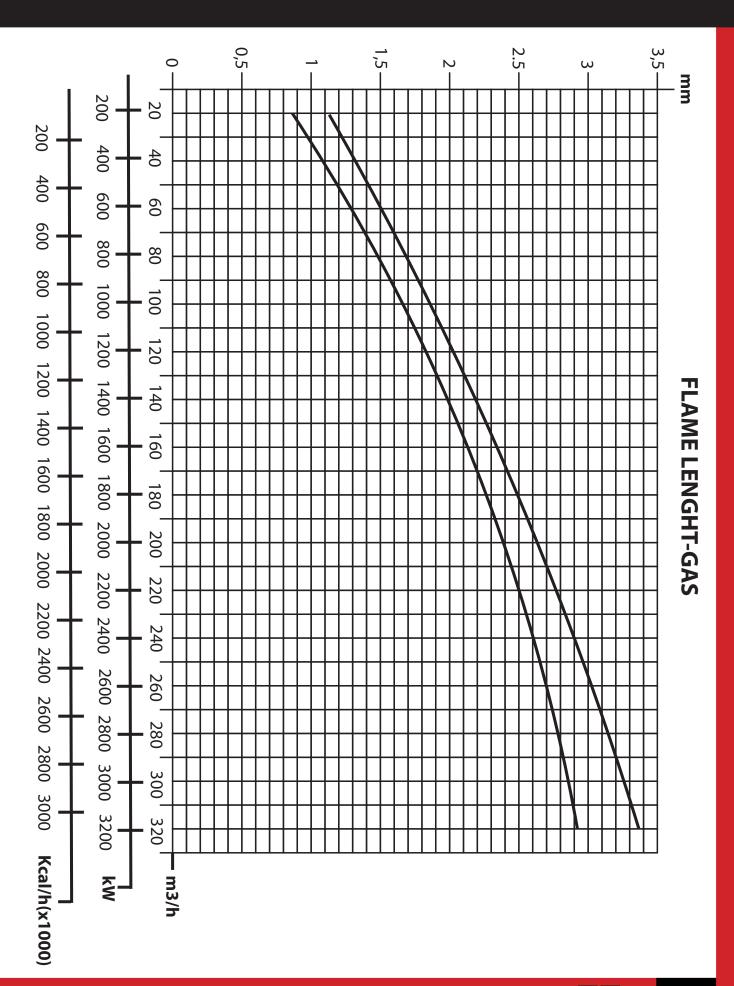
03

Our burner works quietly and provide a tranquil athmosphere for users.

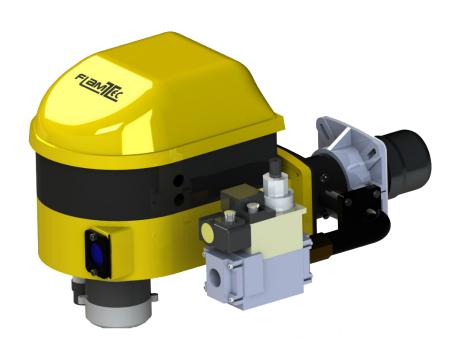
Flame Diameter (Gas)

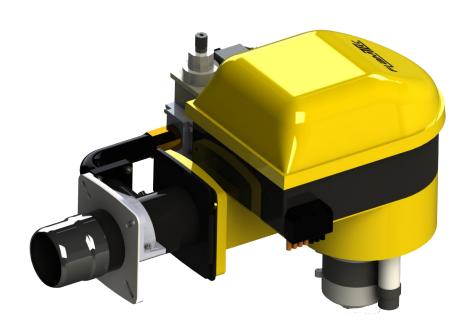


Flame Lenght (Gas)

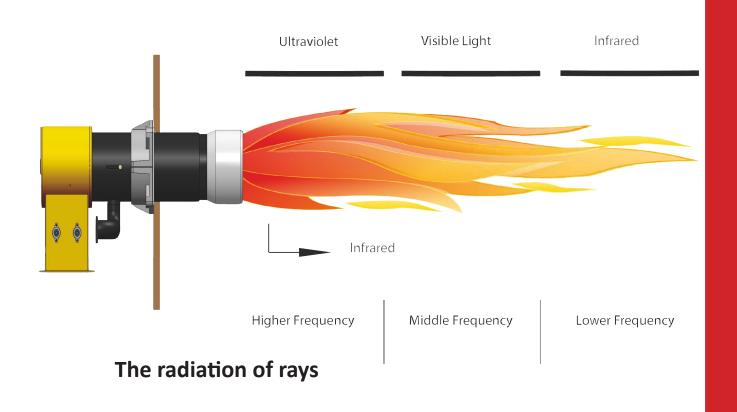


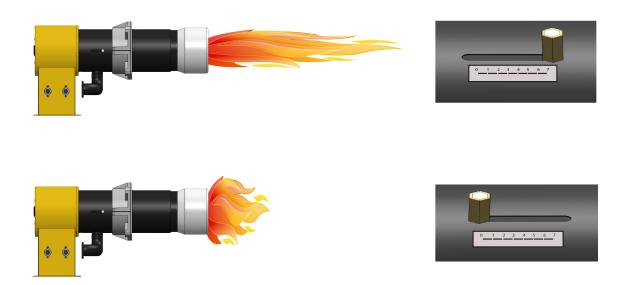
Image





Flame Specifications





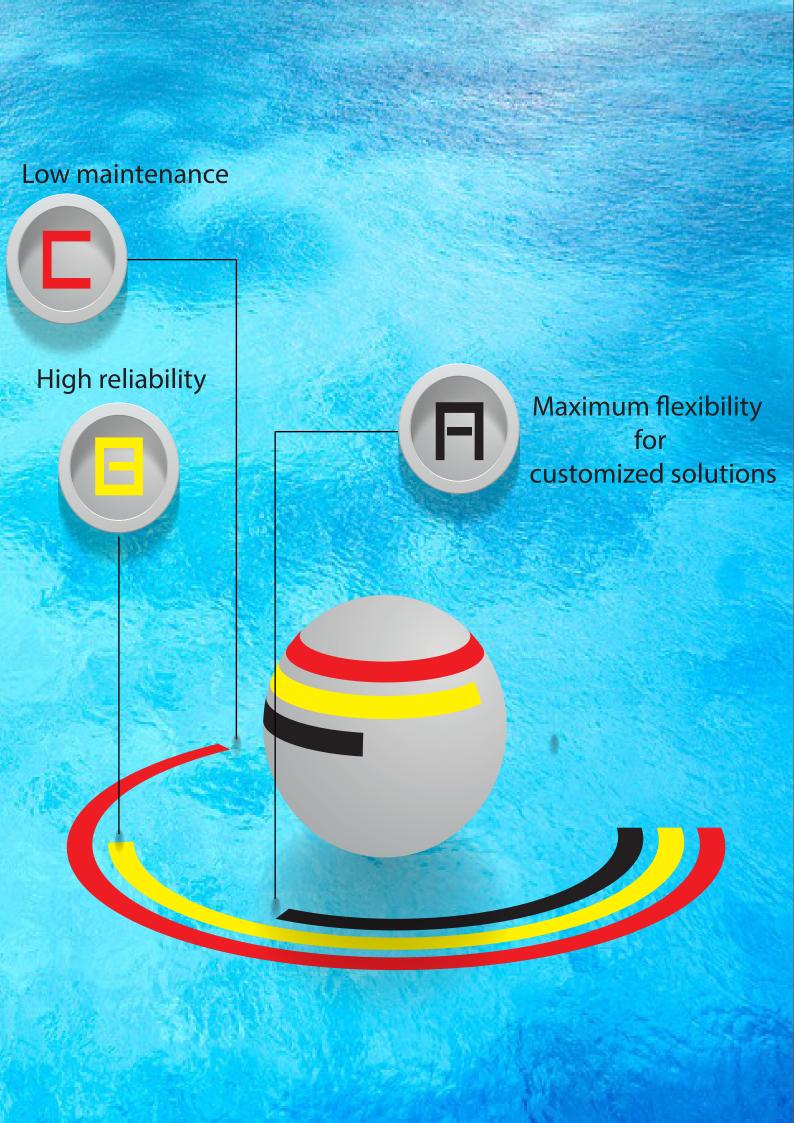
The arrangement of the shape of the flame

1 No need to additional control

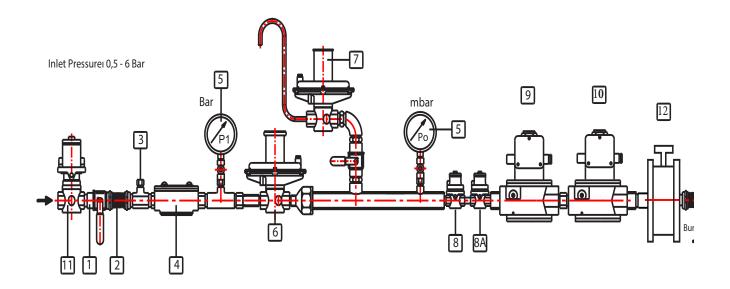
2 Less workforce

3 Easy commissioning

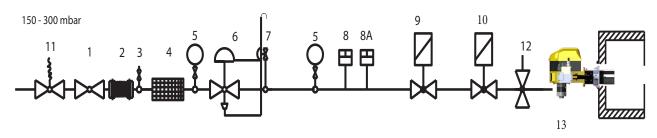
4 Easy maintenance



Gas Trains



Operating gas pinlet pressure



1-Ball Valve

2-Compensator

3-Testing nipple

4-Gas filter

5-Monometer (with tap)

6-Gas Pressure regulator

7-Relief Valve

8-MIN Gas pressure switch

8A-MAX.Gas pressure switch

9-Operating valve

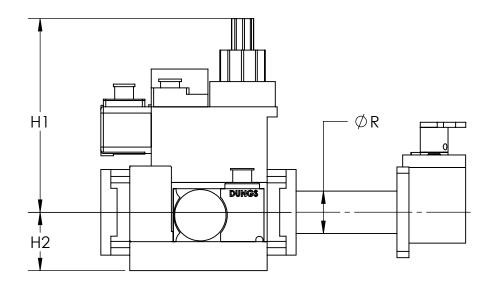
10-Security valve

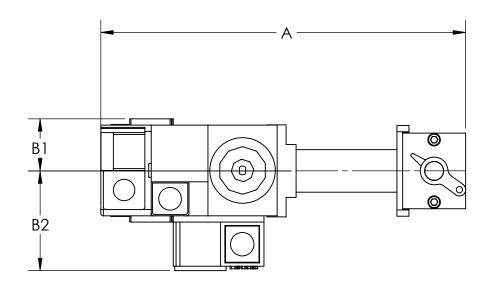
11-Firing valve

12-Butterfly valve

13-Burner

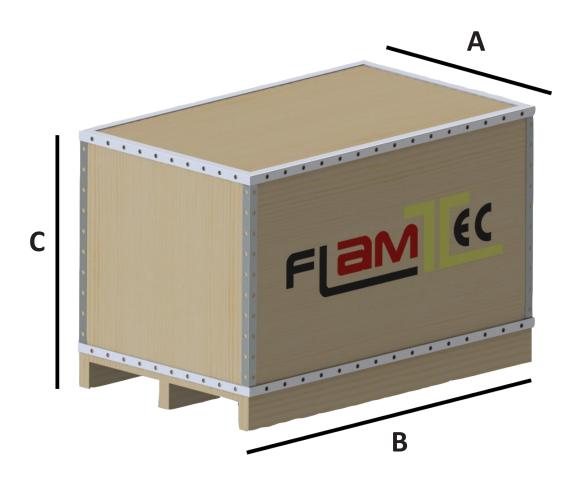
Gas Trains Dimensions





	ØR	H1	H2	А	B1	B2
SC 3.1 GZ	34	160	50	280	40	85
SC 3.2 GZ	34	160	50	280	40	85
SC 5.1 GZ	34	160	50	280	40	85
SC 5.2 GZ	34	160	50	280	40	85
SC 8.1 GZ	48	180	50	360	95	95
SC 8.2 GZ	60	180	50	360	95	95
SC 8.3 GZ	60	180	50	360	95	95

Packing



	Lenght(a)	Width(b)	Height(c)	Weight
SC 3.1 GZ	81 cm	122 cm	70 cm	50 kg
SC 3.2 GZ	81 cm	122 cm	72 cm	60 kg
SC 5.1 GZ	93 cm	131 cm	75 cm	75 kg
SC 5.2 GZ	и	135 cm	77 cm	85 kg
SC 8.1 GZ	96 cm	138 cm	80 cm	115 kg
SC 8.2 GZ	96 cm	140 cm	80 cm	120 kg
SC 8.3 GZ	96 cm	140 cm	85 cm	135 kg

Technical Specifications

	SC						
	3.1	3.2	5.1	5.2	8.1	8.2	8.3
	GZ						
Structural steel (ST-37)plate body	· ·	•	•	•	•	•	٠
Upper cover	•	•	•	•	•	•	•
Suitable case for high temperature	opt						
Combustion head made from stainless stell withstand of 1150 °C	•	•	•	•	•	•	•
Gas filter	opt						
Flame screening window	•	•	•	•	•	•	•
Protection Level for mechanic	IP 54						
Protection Level for electric	IP 40						
Air damper	•	•	•	•			
Ionisotion flame detecter	•	•	•	•	•	•	•
Adjustable gas nozzles	4	4	6	6	6	6	6
Burner flange gasket	•	•	•	•	•	•	•
Instruction manual	•	•	•	•	•	•	•
On-Off Button	•	•	•	•	•	•	•
Work Lamp	•	•	•	•	•	•	•
Block Reset	•	•	•	•	•	•	•
Gas pipe	1"	1"	1"	1"	1"	2"	2"
Nozzle holder	•	•	•	•	•	•	•
Turbulator	•	•	•	•	•	•	•
Gas Nozzle	4	4	6	6	6	6	6
Dungs LGW 3A 2 Air Pressure Switch	•	•	•	•	•	•	•
2x7,5 kw Transformer	•	•	•	•	•	•	•
Dungs GW 150 A5 Min Gas Pressure Switch	•	•	•	•	•	•	•
Dungs GW 500 A5 Max Gas Pressure Switch	•	•	•	•	•	•	•
Siemens Lme 22.331.C2 Controller	•	•	•	•	•	•	•
Bearing	2	2	2	2	2	2	2
Cable Tube	•	•	•	•	•	•	•
Ignition electrode	•	•	•	•	•	•	•
Siemens Servomotor	•	•	•	•	•	•	•
Electric Motor	•	•	•	•	•	•	•
Fan	•	•	•	•	•	•	•
Gasket	•	•	•	•	•	•	•

Exploded Drawing

