

The logo for FLAMTEC is centered in the upper half of the image. It features the word 'FLAM' in a bold, black, sans-serif font, followed by 'TEC' in a similar font. The 'T' and 'E' are highlighted in a bright yellow color. The background is a white circle with a grey border, set against a larger white circle with a grey border. The entire design is overlaid on a background of yellow and orange splatters.

FLAMTEC

**Gas Burner
Monoblock
Gama
One Stage
Domestic
Burner Series
80-500 kw/h**

**A Leading
Manufacturer of
Innovative
Combustion
Solutions**

We simply technology for industrial solutions



HEATING



INCINERATORS
WASTE



AGRICULTURE



ASPHALT
BUILDING



TEXTILE
DRYING



FOOD
PRODUCTION



WOOD
BOILERS



CHEMICAL
PLANTS



ENGINEERING



PLANT
MODERNIZATION

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

- » 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.
- » 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
- » Premix head can be selected as Low NOx Burner
- » Dungs VPS 504 Gas Leakage Control
- » Simultaneous firing
- » Soundproof fan



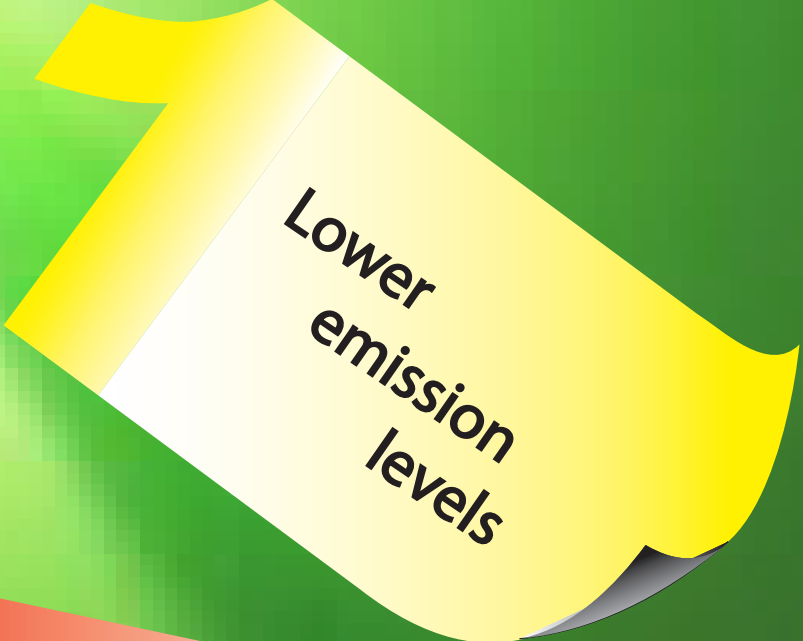
Endless Possibilities

01 Worldwide direct and immediately service



02 Optimized and Customized efficient technological solutions

03 Maximized efficiency
Ultra cost-saving



Lower
emission
levels



Improve
operating
efficiency



Easy serviceability
and maintenance

Technical Features

Type	Capacity						Power Supply	Motor Kw	GAS INPUT PRESSURE mbar
	Kw min-max		kcal/h min-max		m3/h min-max				
SC 1.1 GS	18	120	15.480	103.200	1,88	12,51	1N - 50 Hz 230V	0,15	100-300
SC 1.2 GS	50	180	43.000	154.800	5,21	18,76	1N - 50 Hz 230V	0,15	100-300
SC 2.1 GS	80	280	68.800	240.800	8,34	29,19	1N - 50 Hz 230V	0,25	100-300
SC 2.2 GS	100	360	86.000	309.600	10,42	37,53	1N - 50 Hz 230V	0,25	100-300
SC 3.1 GS	110	500	94.600	430.000	11,47	52,12	1N - 50 Hz 230V	0,37	100-300

Heating values of gaseous fuels

Fuel	Density Kg/m ³	LOWER HEATING VALUE			
		MJ/kg	MJ/m ³ n	Kcal/m ³ n	Kw/m ³ n
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

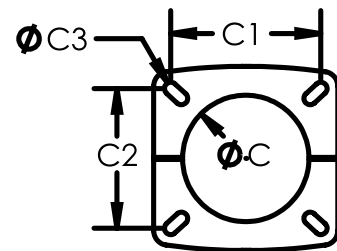
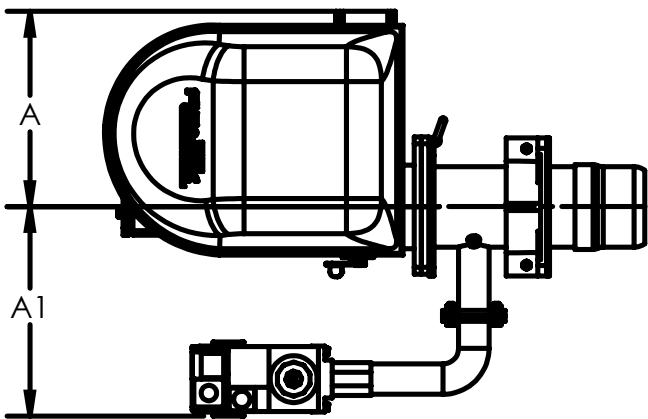
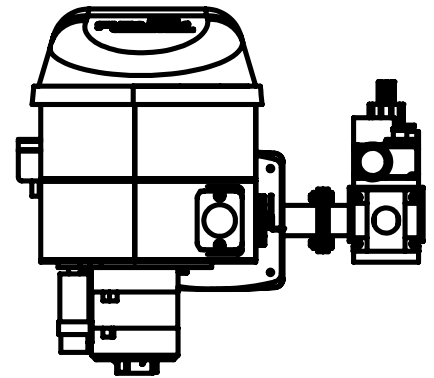
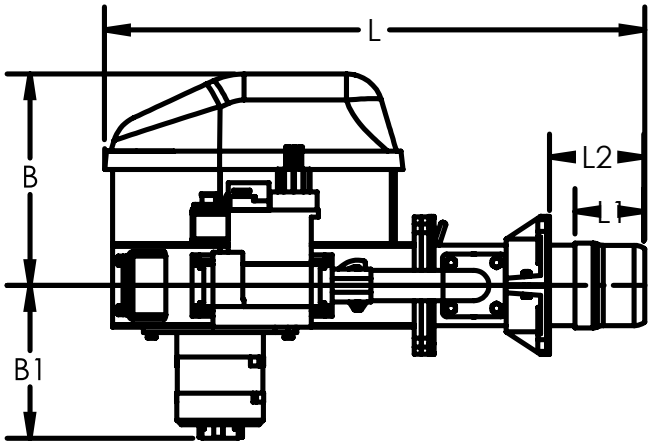
Type	Protection Level	Ignition Transformer
SC 1.1 GS	IP 40	2x7,5 kW
SC 1.2 GS	IP 40	2x7,5 kW
SC 2.1 GS	IP 40	2x7,5 kW
SC 1.2 GS	IP 40	2x7,5 kW
SC 3.1 GS	IP 40	2x7,5 kW

Did You Know?

Standard air density 1.293 Kg/m³ refers to 0°C and 1013 mbar

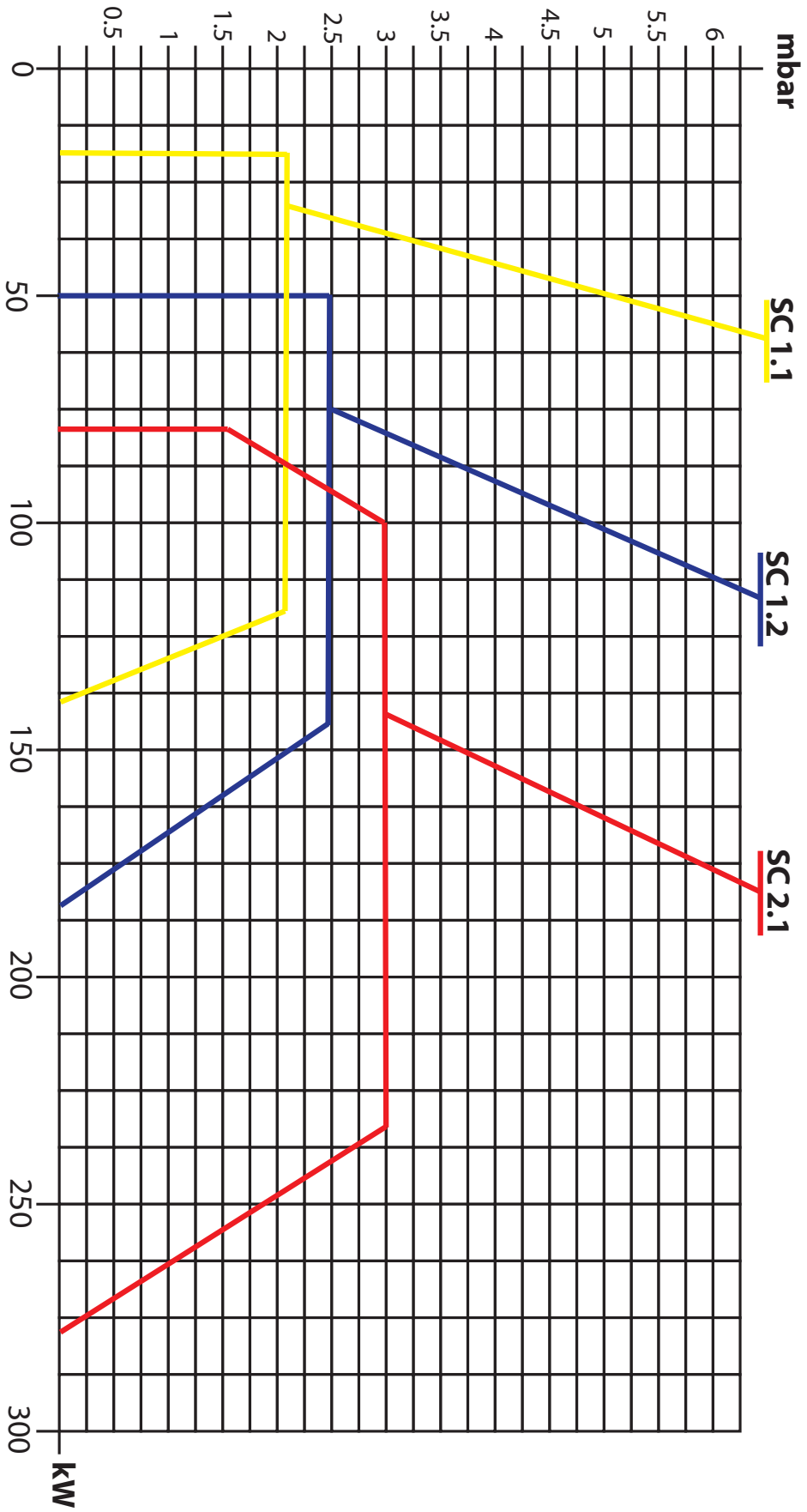
Reference conditions:
 Air Temperature 20 °C
 Pressure 1013.5 mbar
 Altitude 0m a.s.l

Dimensions

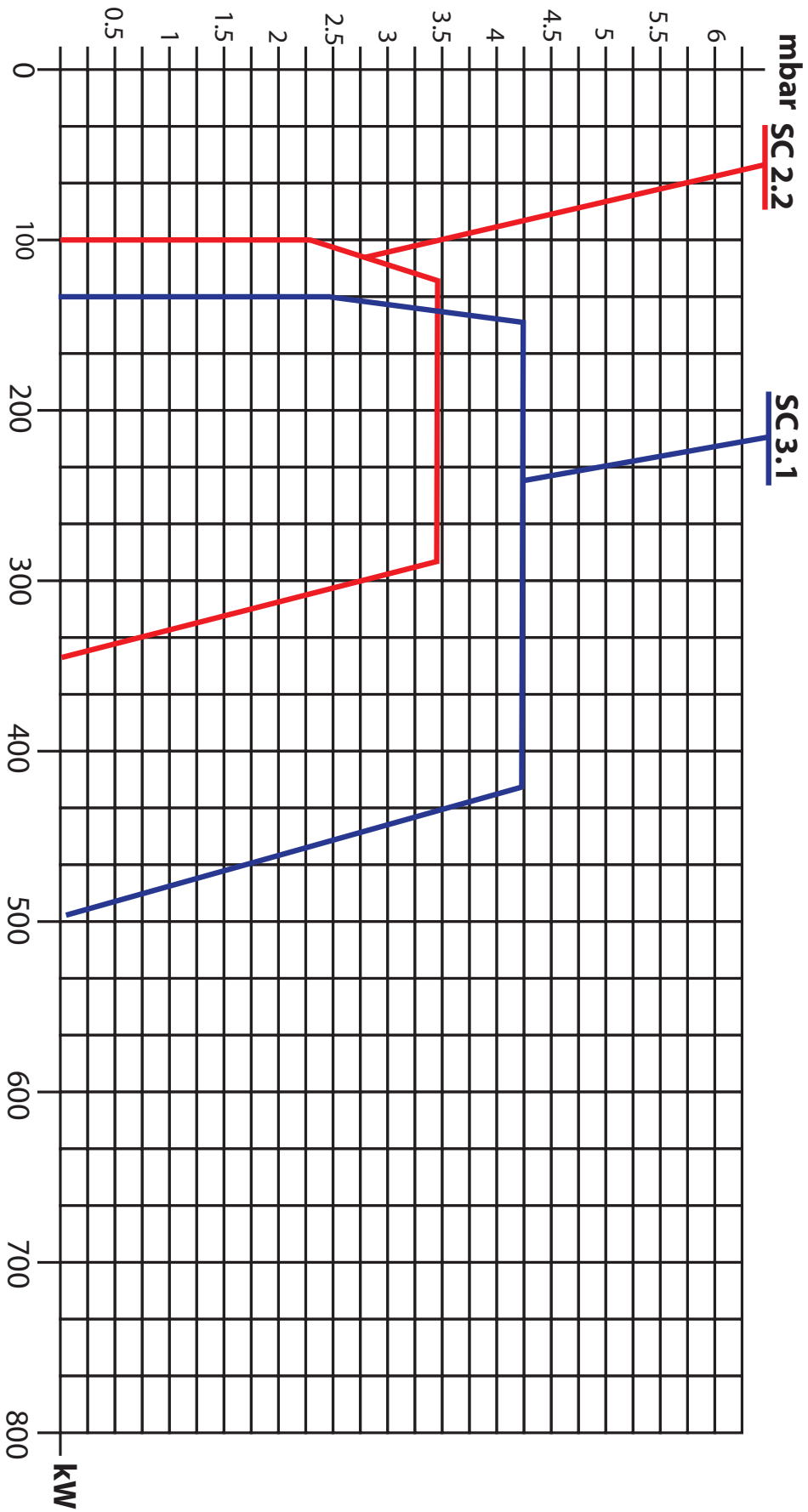


	A	A1	B	B1	ØC	C1	C2	ØC3	L	L1	L2
SC 1.1 GS	220	235	235	170	90	110	104	M6	620	77,5	120
SC 1.2 GS	220	250	235	170	114	130	125	M8	660	110	190
SC 2.1 GS	250	320	290	185	114	130	125	M8	735	110	190
SC 2.2 GS	250	320	290	185	140	155	142	M12	870	110	250
SC 3.1 GS	340	320	320	248	140	155	142	M12	1060	110	250

Capacitive Diagrams



Capacitive Diagrams



01 ▶

Easy maintenance, easy access to the nozzle, scanner and the head of the burner without separating the burner from the fuel or power line.

◀ 02

Digital solution for efficiency and safety brings easiness and simplicity.

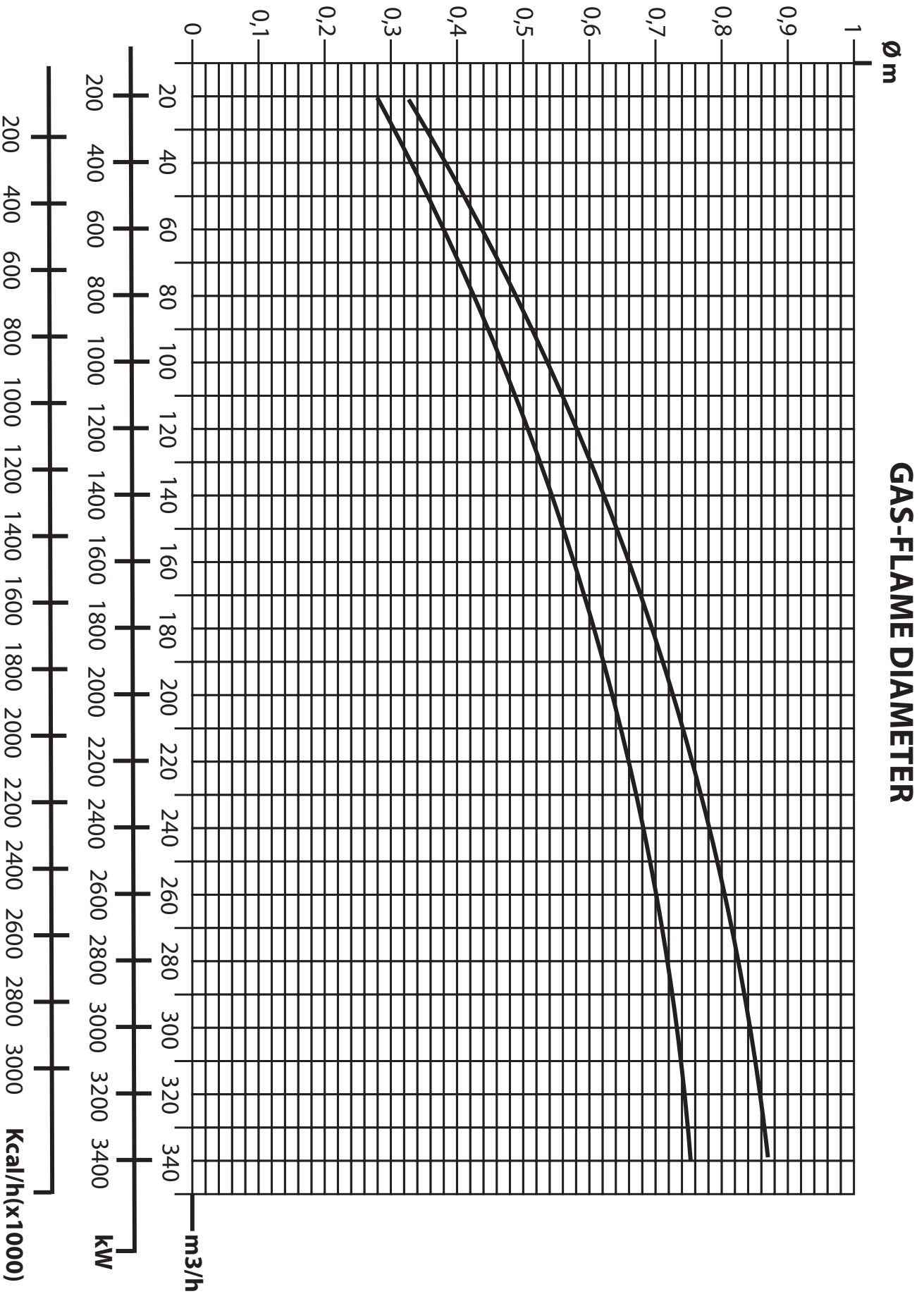
The most modern designs
are the investment on
our future. Compact and
aesthetic desings satisfy
elaborative customers.

◀ 04

03 ▶

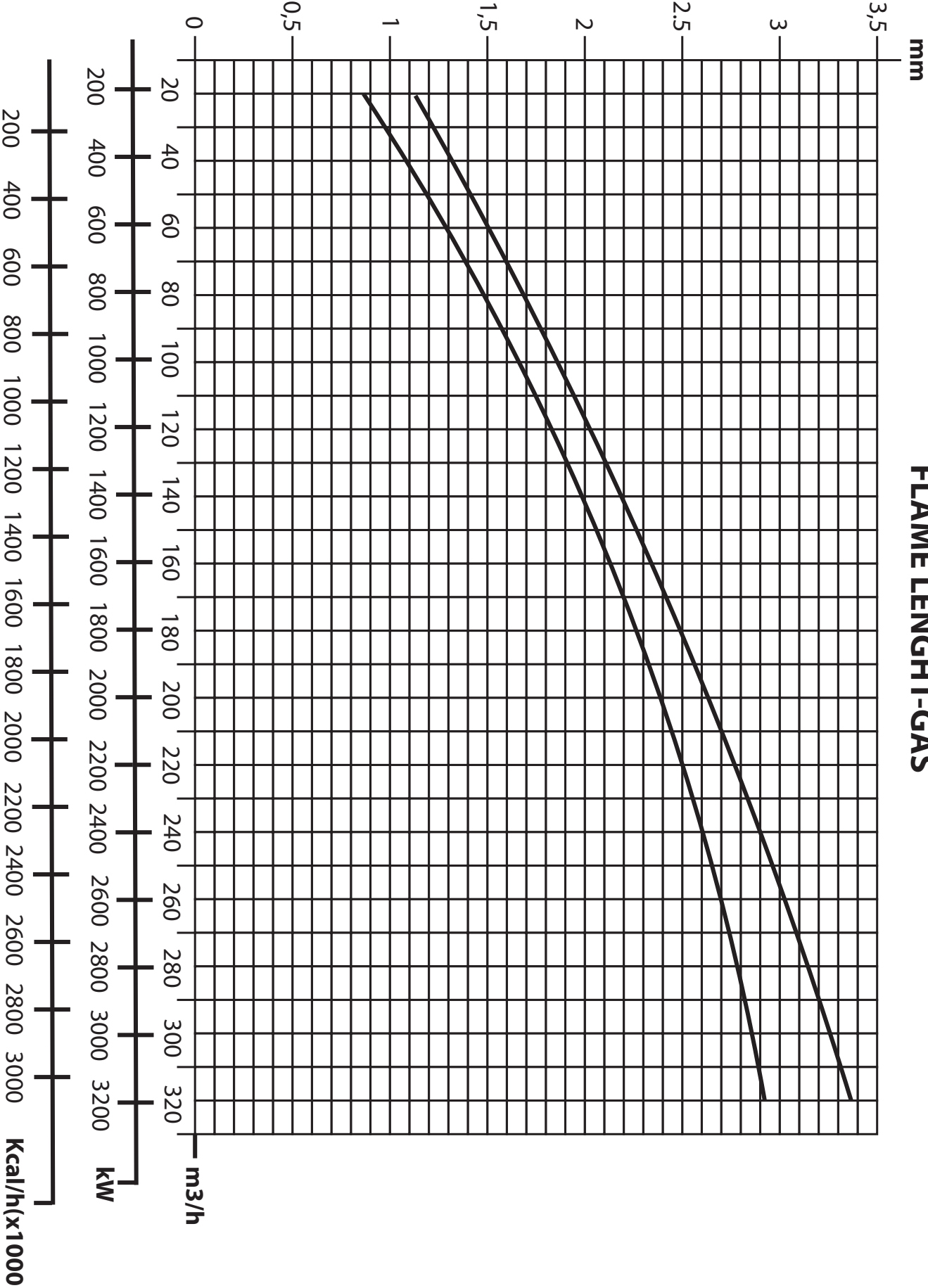
Our burner works
quietly and provide
a tranquil athmosphere
for users.

Flame Diameter (Gas)



Flame Length (Gas)

FLAME LENGTH-GAS



1 No need to additonal control

2 Less workforce

3 Easy commissioning

4 Easy maintenance

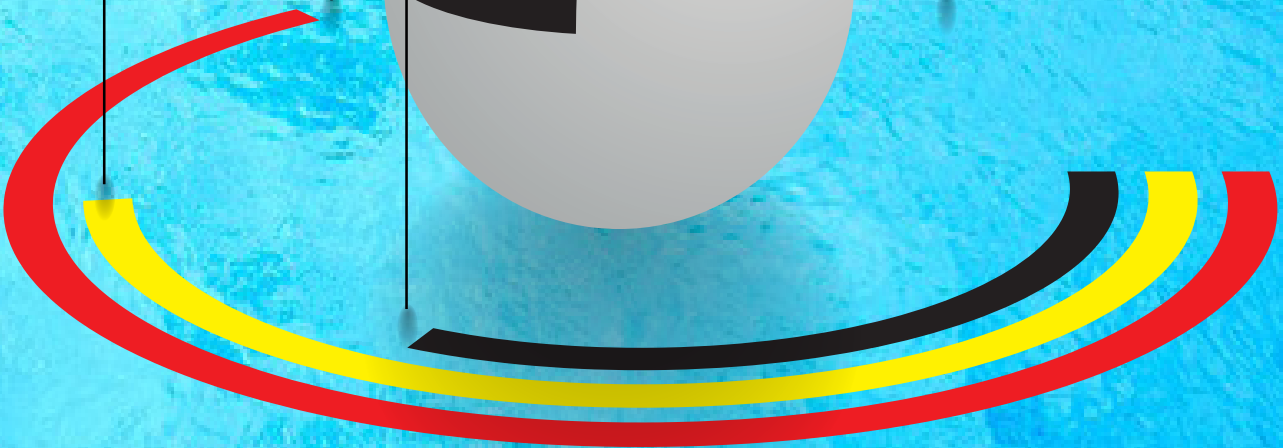
Low maintenance

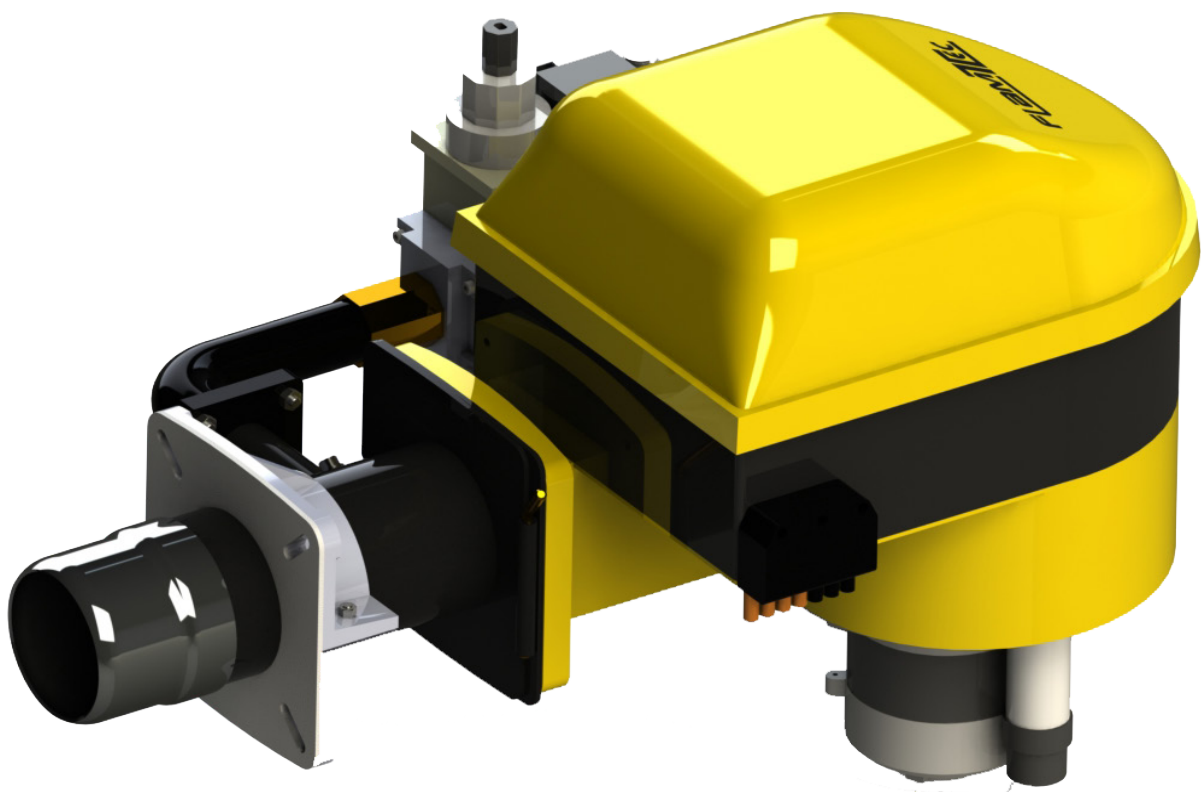
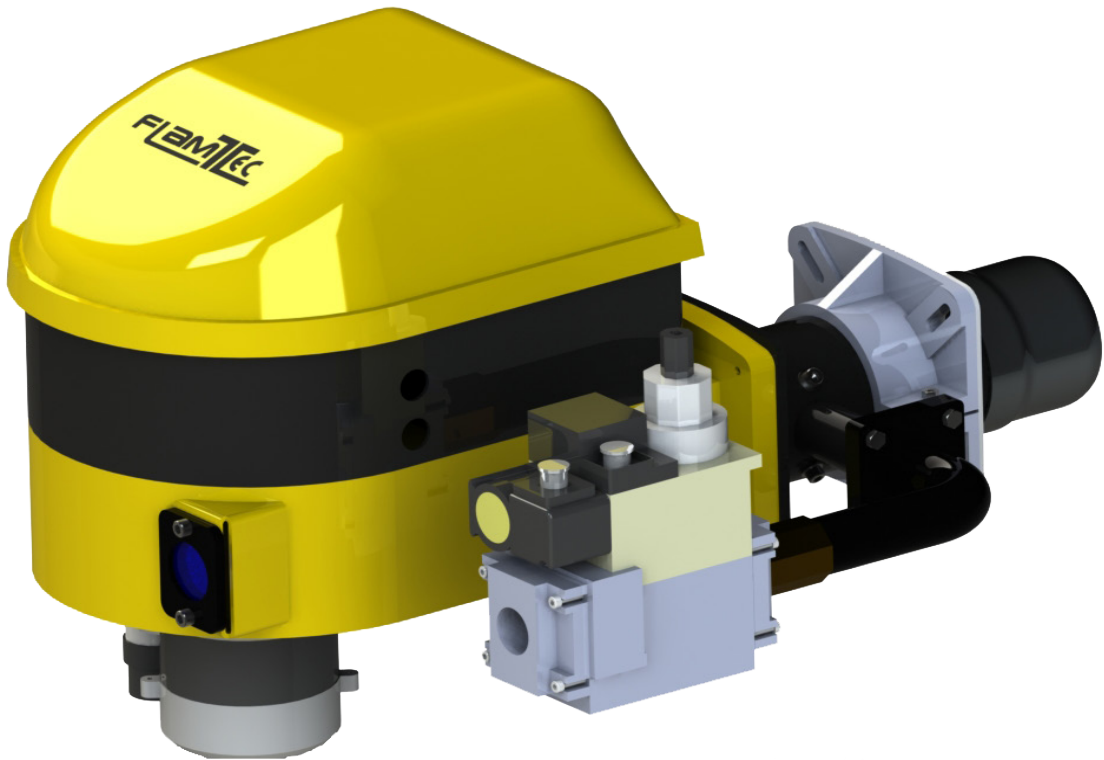


High reliability

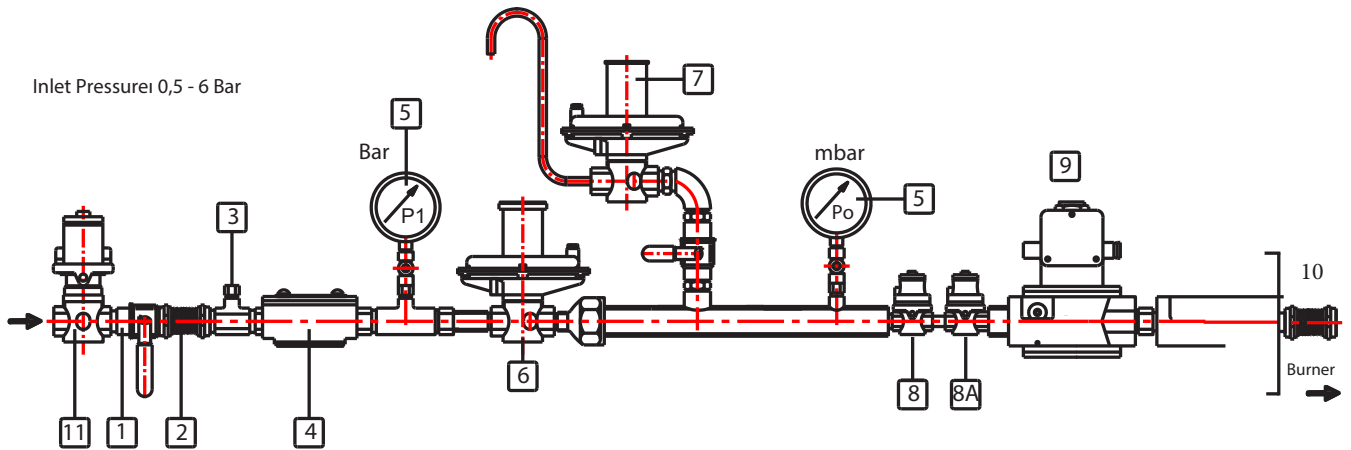


Maximum flexibility
for
customized solutions



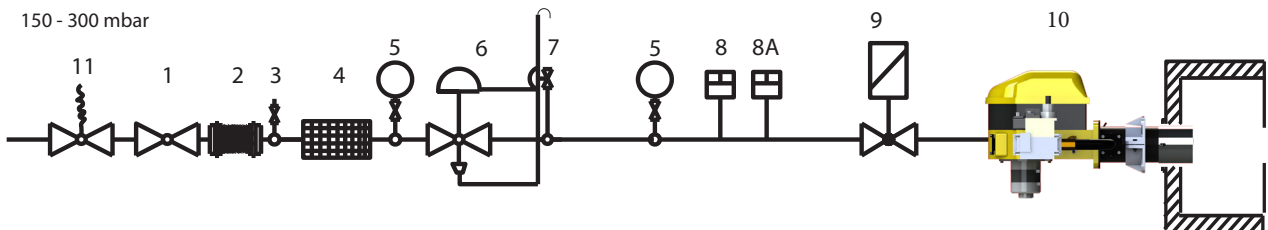


Gas Trains



Operating gas pinlet pressure

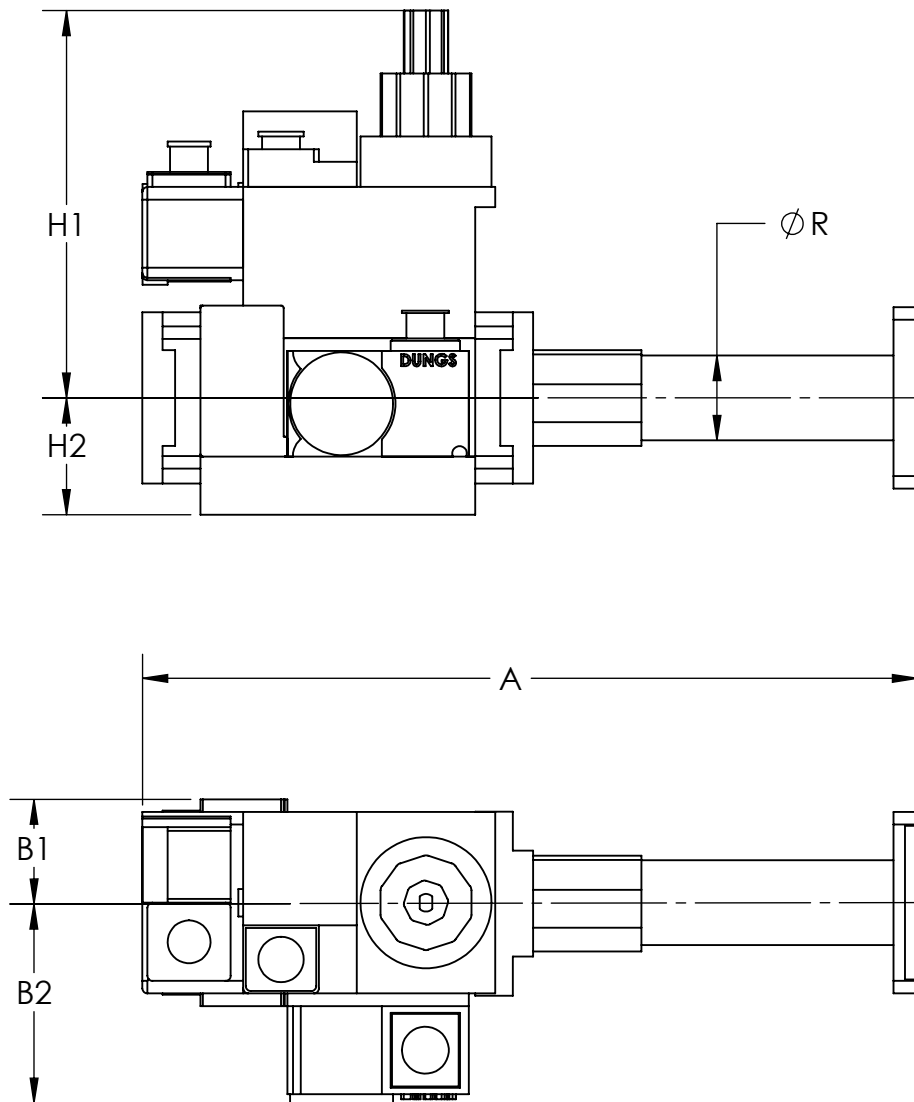
150 - 300 mbar



- 1-Ball Valve
- 2-Compensator
- 3-Testing nipple
- 4-Gas filter
- 5-Monometer (with tap)
- 6-Gas Pressure regulator
- 7-Relief Valve

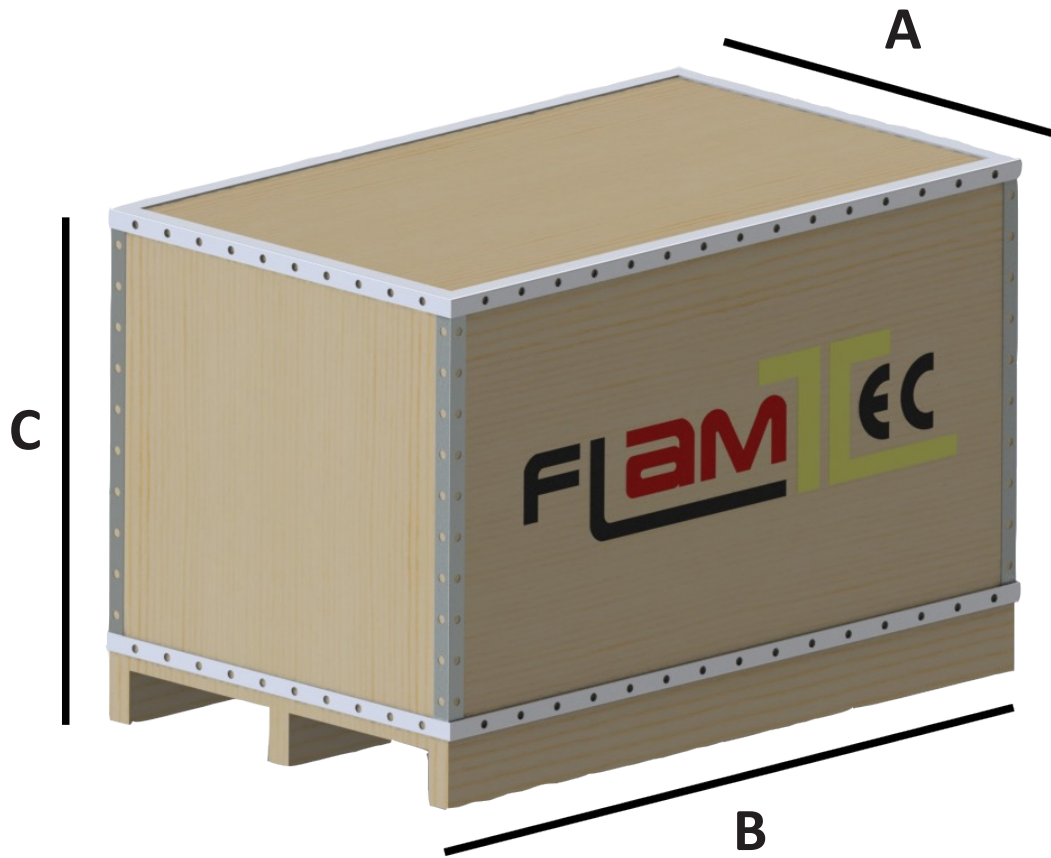
- 8-MIN Gas pressure switch
- 8A-MAX.Gas pressure switch
- 9-Multiblock valve
- 10-Burner
- 11-Firing valve

Gas Trains Dimensions



	ØC	H1	H2	A	B1	B2
SC 1.1 GS	27	145	50	250	40	85
SC 1.2 GS	27	145	50	250	40	85
SC 2.1 GS	27	145	50	250	40	85
SC 2.2 GS	27	145	50	250	40	85
SC 3.1 GS	27	145	50	250	40	85

Packing

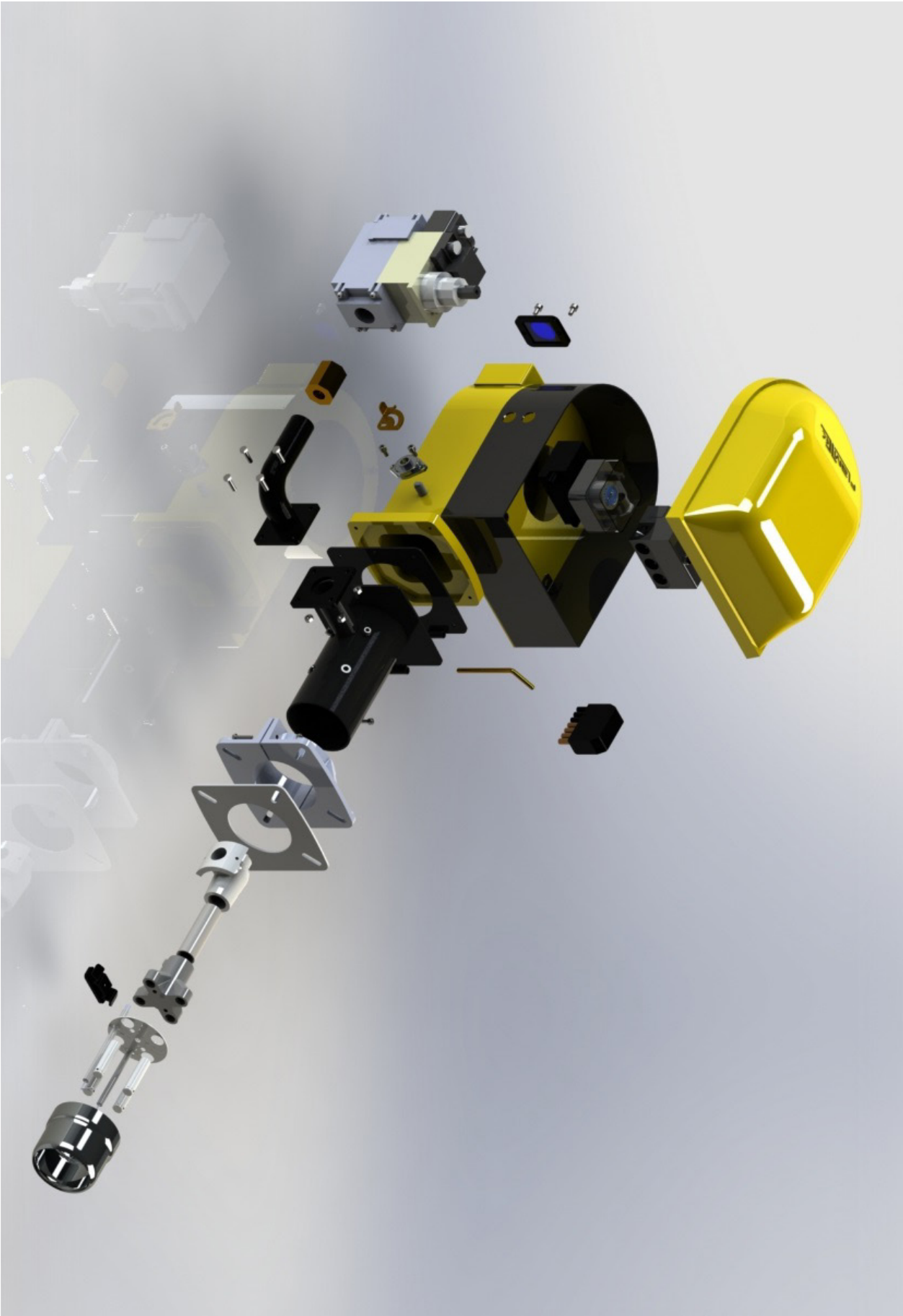


	Lenght(a)	Width(b)	Height(c)	Weight
SC 1.1 GS	46 cm	68 cm	51 cm	35 kg
SC 1.2 GS	46 cm	73 cm	53 cm	35 kg
SC 2.1 GS	48 cm	79 cm	62 cm	40 kg
SC 2.2 GS	48 cm	92 cm	62 cm	40 kg
SC 3.1 GS	62 cm	111 cm	71 cm	45 kg

Technical Specifications

	SC 1.1 GS	SC 1.2 GS	SC 2.1 GS	SC 2.2 GS	SC 3.1 GS
Structural steel (ST-37)plate body	•	•	•	•	•
Upper cover	•	•	•	•	•
Suitable case for high temperature	opt	opt	opt	opt	op
Combustion head made from stainless stell withstand of 1150 °C	•	•	•	•	•
Gas filter	opt	opt	opt	opt	opt
Flame screening window	•	•	•	•	•
Protection Level for mechanic	IP 54	IP 54	IP 54	IP 54	IP 54
Protection Level for electric	IP 40	IP 40	IP 40	IP 40	IP 40
Ionisotion flame detector	•	•	•	•	•
Adjustable gas nozzles	•	•	•	•	•
Burner flange gasket	•	•	•	•	•
Instruction manual	•	•	•	•	•
Work Lamp	X	X	•	•	•
Block Reset	X	X	•	•	•
Gas pipe	•	•	•	•	•
Nozzle holder	•	•	•	•	•
Turbulator	•	•	•	•	•
Gas Nozzle	4	4	4	4	4
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 22.331C2 Controller	•	•	•	•	•
Bearing	2	2	2	2	2
Cable Tube	•	•	•	•	•
Ignition electrode	•	•	•	•	•
Electric Motor	•	•	•	•	•
Fan	•	•	•	•	•
Gasket	•	•	•	•	•

Exploded Drawing



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Manufacturer
of Innovative
Combustion Solutions**
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