



























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 1/4 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
- » Premix head can be selected as Low NOx Burner
- » Dungs VPS 504 Gas Leakoge Control
- » Internal or External Flue Gas Recirculation for low emission rules
- » Simultaneous firing
- » Soundproof fan



Lower emission levels

improve operating efficiency

Easy serviceability and maintenance

Technical Features

	Capacity						Power	Motor	GAS INPUT
Туре		(w -max	kcal/h min-max		m3/h min-max		Supply	Kw	RESSURE mbar
SC 5.1 GM	200	750	172.000	645.000	20,85	78,18	3N - 50 Hz 380V	0,75	100-300
SC 5.2 GM	260	950	223.600	817.000	27,1	99,03	3N - 50 Hz 380V	1,5	100-300
SC 8.1 GM	330	1150	283.800	989.000	34,4	119,88	3N - 50 Hz 380V	1,5	100-300
SC 8.2 GM	430	1600	369.800	1.376.000	44,82	166,79	3N - 50 Hz 380V	2,2	100-300
SC 8.3 GM	580	2100	498.000	1.806.000	60,46	218,91	3N - 50 Hz 380V	3	100-300

Heating values of gaseous fuels

 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	Modulation Ratio
SC 5.1 GM	IP 40	2x7,5 kW	1/4
SC 5.2 GM	IP 40	2x7,5 kW	1/4
SC 8.1 GM	IP 40	2X7,5 kW	1/4
SC 8.2 GM	IP 40	2x7,5 kW	1/4
SC 8.3 GM	IP 40	2x7,5 kW	1/4

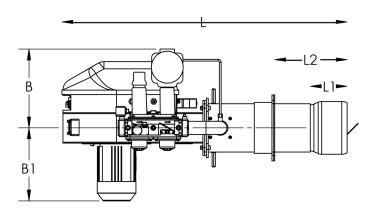
Did You Know?

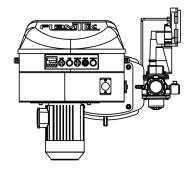
Standard air density 1.293 Kg/m3 refers to 0°C and 1013 mbar

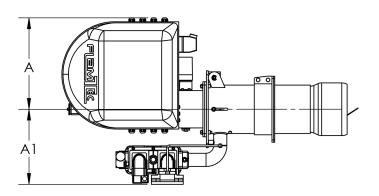
Reference conditions: Air Temperature 20 °C Pressure 1013.5 mbar Altitude 0m a.s.l

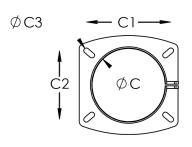


Dimensions



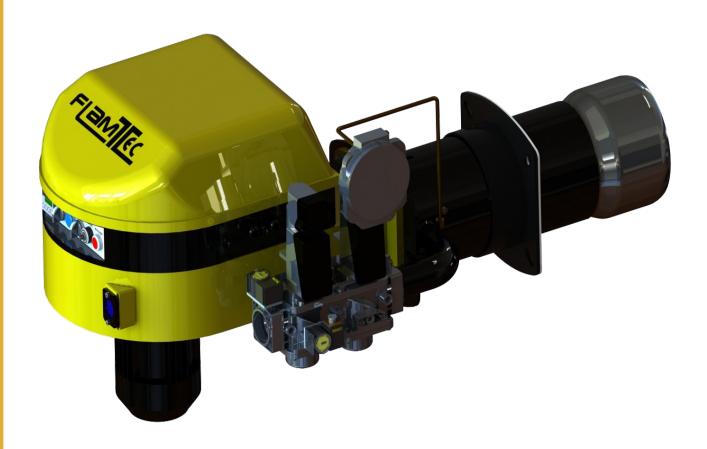


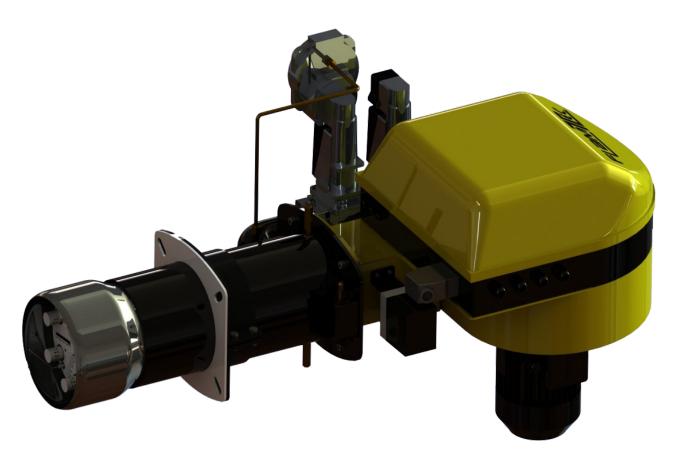




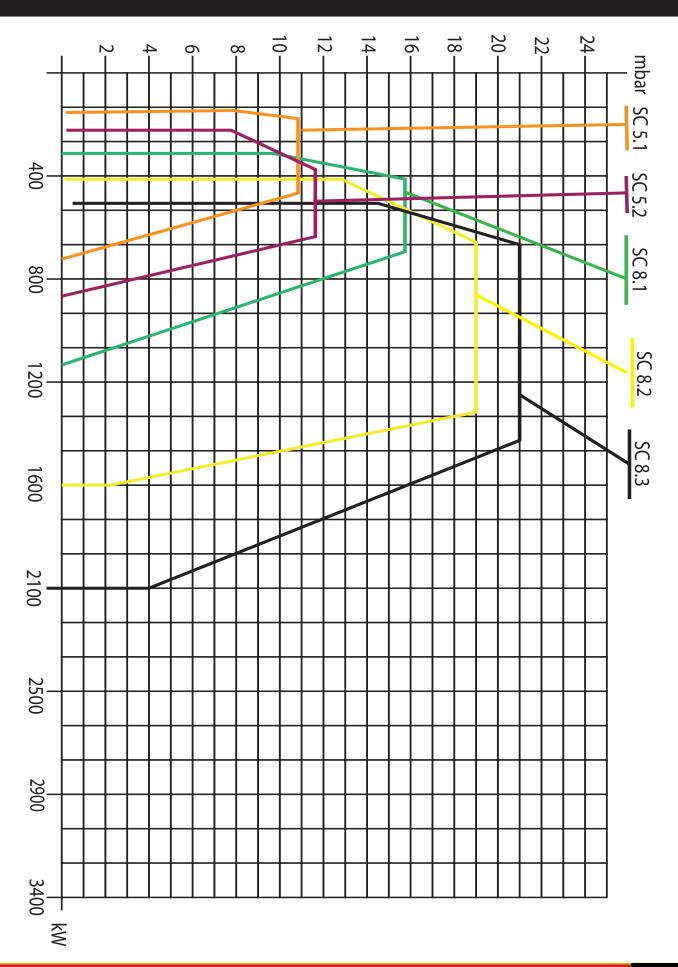
	А	A1	В	B1	ØС	C1	C2	ØC3	L	L1	L2
SC 5.1 GM	380	390	300	280	170	200	170	M12	1160	180	380
SC 5.2 GM	380	390	300	310	170	200	170	M12	1180	180	380
SC 8.1 GM	420	390	310	310	170	200	170	M12	1230	180	380
SC 8.2 GM	420	390	310	330	220	240	190	M14	1250	270	480
SC 8.3 GM	420	390	310	360	220	240	190	M14	1250	270	480

Image





Capacitive Diagrams





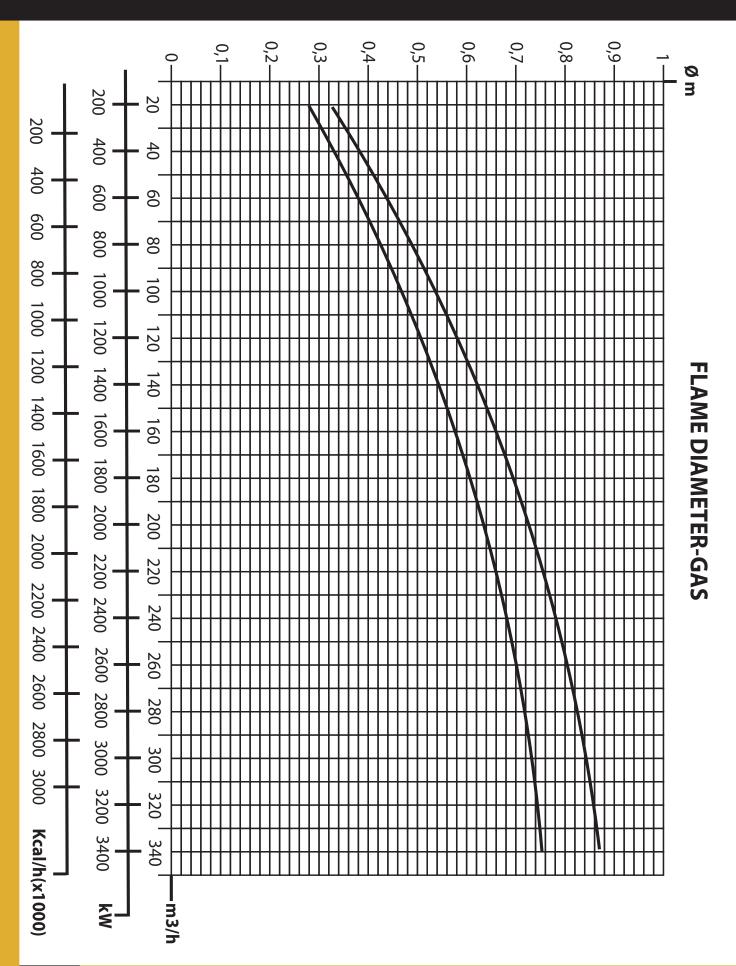
The most modern designs are the invesment on our future. Compact and aesthetic desings satisfy elaborative customers.

■ U4

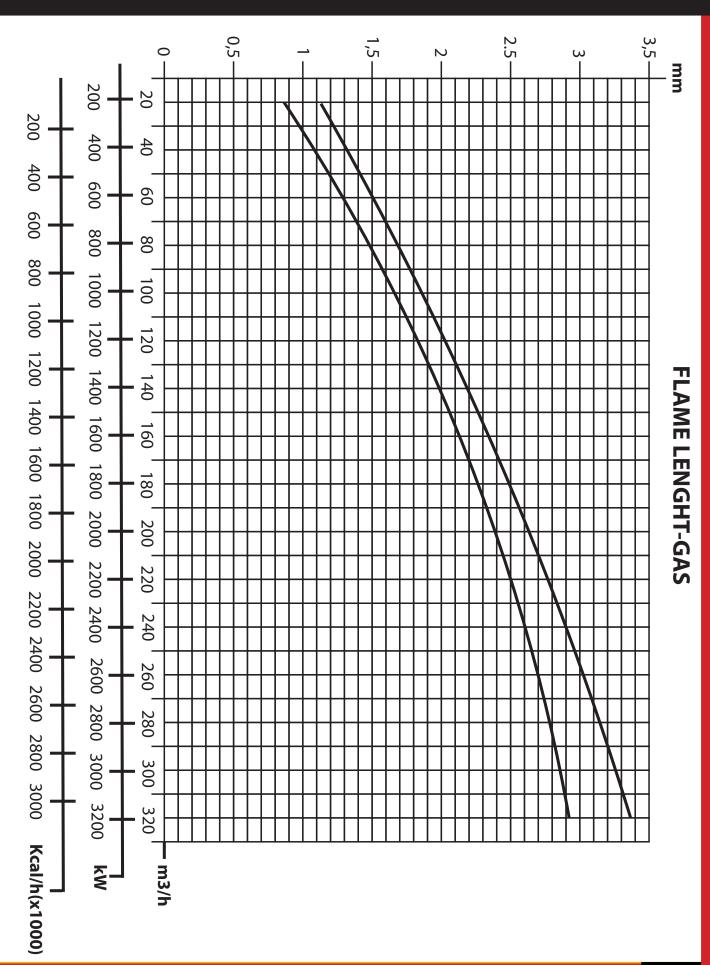
03

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

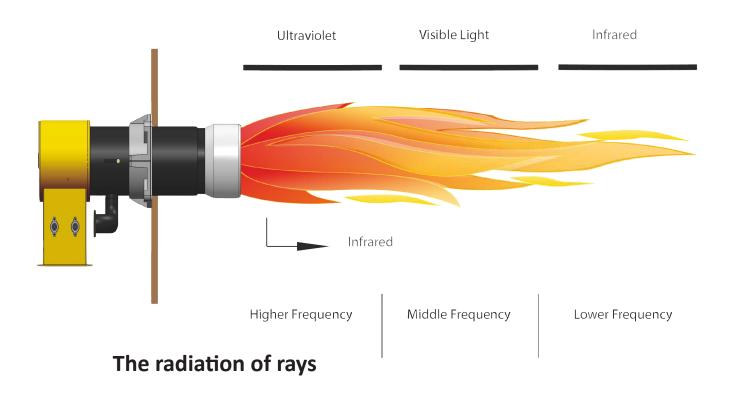
Flame Diameter (Gas)

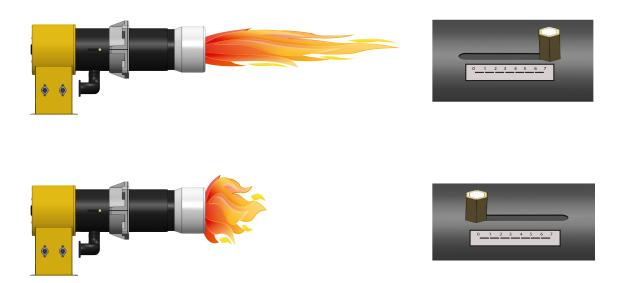


Flame Lenght (Gas)



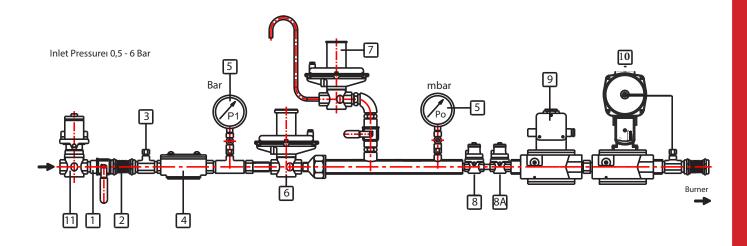
Flame Specifications



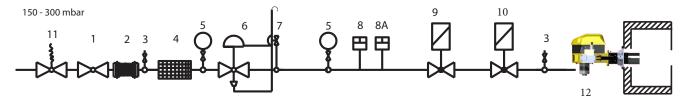


The arrangement of the shape of the flame

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

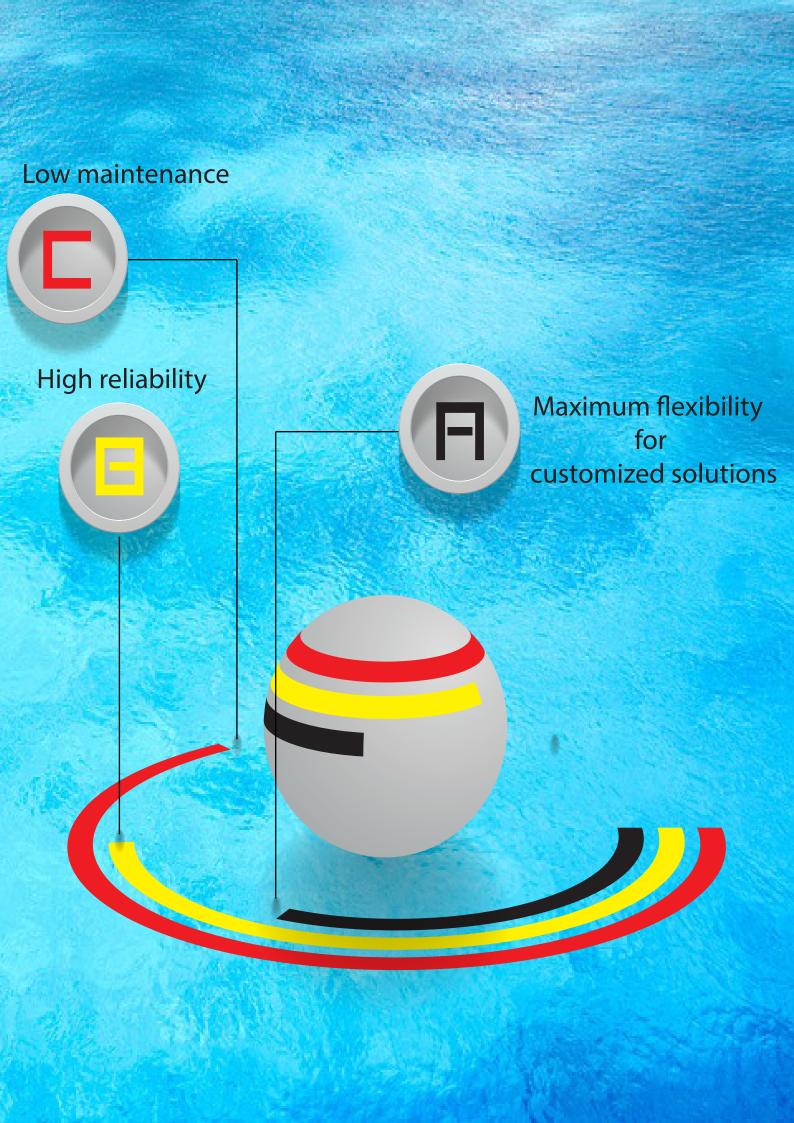
- 8-MIN Gas pressure switch
- 8A-MAX.Gas pressure switch
- 9-Security valve
- **10-Operating valve**
- 11-Firing valve
- 12-Burner

1 No need to additional control

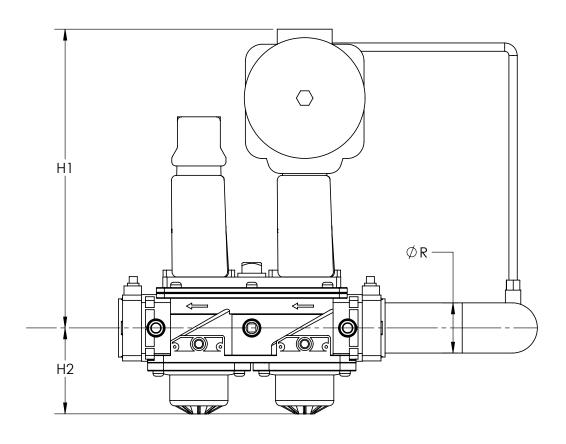
2 Less workforce

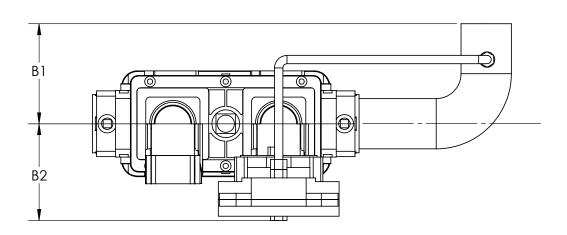
3 Easy commissioning

4 Easy maintenance



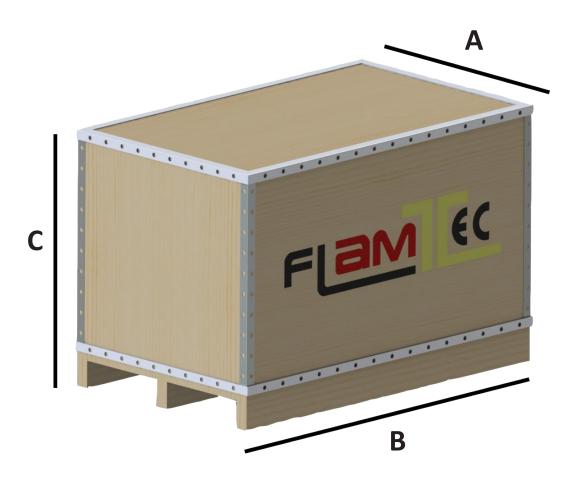
Gas Train Dimensions





	ØR	H1	H2	А	B1	B2
SC 5.1 GM	60	360	105	475	120	100
SC 5.2 GM	60	360	105	475	120	100
SC 8.1 GM	60	360	105	475	120	100
SC 8.2 GM	60	360	105	475	120	100
SC 8.3 GM	60	360	105	475	120	100

Packing



	Lenght(a)	Width(b)	Height(c)	Weight	
SC 5.1 GM	81 cm	122 cm	72 cm	95 kg	
SC 5.2 GM	93 cm	131 cm	75 cm	100 kg	
SC 8.1 GM	96 cm	135 cm	77 cm	125 kg	
SC 8.2 GM	96 cm	138 cm	80 cm	140 kg	
SC 8.3 GM	96 cm	140 cm	80 cm	150 kg	

Technical Specifications

	SC	SC	SC	SC	SC
	5.1 GM	5.2 GM	8.1 GM	8.2 GM	8.3 GM
Structural steel (ST-37)plate body	•	•	•	•	•
Upper cover	•	•	•	٠	•
Suitable case for high temperature	opt	opt	opt	opt	opt
Combustion head made from stainless stell withstand of 1150 °C	•	•	•	•	•
Gas filter	opt	opt	opt	opt	opt
Flame screening window	•	•	•	•	•
Ionisotion flame detecter	opt	opt	opt	opt	opt
Protection Level for mechanic	IP 54				
Protection Level for electric	IP 40				
Air damper servomotors	•	•	•	•	•
Adjustable gas nozzles	4	4	4	4	4
Burner flange gasket	•	•	•	•	•
Instruction manual	•	•	•	•	•
On-Off Button	•	•	٠	•	•
Work Lamp	•	•	•	•	•
Block Reset	•	•	•	•	•
Gas pipe	1	1	2	2	2
Gasket	•	•	•	•	•
Nozzle holder	•	•	•	•	•
Turbulator	•	•	•	•	•
Gas Nozzle	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	•	•	•	•	•
Dungs VPS 504	opt	opt	opt	opt	opt
Siemens LFL Controller	•	•	•	•	•
Bearing	2	2	2	2	2
Cable Tube	•	•	•	•	•
Ignition electrode	•	•	•	•	•
Siemens SQM 31-401A2700	•	•	•	•	•
Flam Valve	•	•	•	•	•
Electric Motor	•	•	•	•	•
Fan	•	•	•	•	•
Pressure Transmitter	opt	opt	opt	opt	opt
PT-100 Heat probe	opt	opt	opt	opt	opt
P.I.D	opt	opt	opt	opt	opt

Exploded Drawing



