



High Technology

High Performans

GAS PROCESS BURNERS



ECOSTAR GAS PROCESS BURNERS

Since 1964, of dynamism and experience of TERMO ISI A.Ş.,The company has developed professional combustion systems and components and associated servicing.



- * Modular design
- * Capacity range 4 to 5000 kW
- * High outlet velocity and high impulse
- * Direct ignited and flame control
- * Low pollutant emission to optimised combustion
- * Customised versions for various applications and types of gas; also for indirect heating systems and installations with recuperative heat recovery
- * Easy montage top or sides of furnace

Gas process burner is equipped with electronic ignition system and flame tube that is produced with special material so It can resist to high temprature.

Also this burner is working with automatic control system.

There are few control system such as one stage, two stage and modulating (P.I.D.) Additional to this supply PLC.

These burners can be adaptable to single burner system or more than one burner, zone controls.

This burner is also used in high temprature applications without any problem and with high efficiency.

According to customer request flame tube can be produced in different length

Fan and Control pannel is divided from the burner so, it will work with high temprature and there will not be any need for service.





Mechanical construction of the burners

The burners have a modular design. This allows them to be adapted easily to the relevant process or integrated easily into an existing system. Maintenance and repairing time is shorter and conversion work on existing furnace and kiln systems is simplified. The burners consist of 3 modules.

Burner housing and furnace / kiln flange

For mounting the burner on the furnace or kiln, accommodating burner insert and burner tube and ducting the combustion air. With air pressure measuring test point for determining the combustion air pressure.

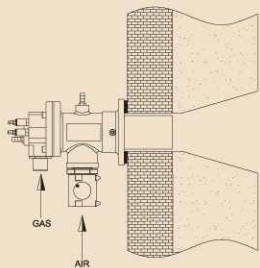
Burner quarl or burner tube made in stainless steel or ceramic material

The various overall lengths allow precise adaptation to the requirements of the installation.

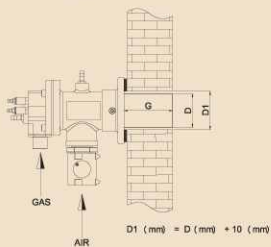
Burner Insert

- Gas connection flange
- Ignition and ionisation electrodes
- Burner head

/ TYPE OF APPLICATION

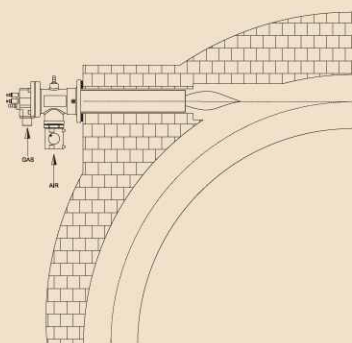


Industrial furnaces and kilns, open firing installations (Conically opening)

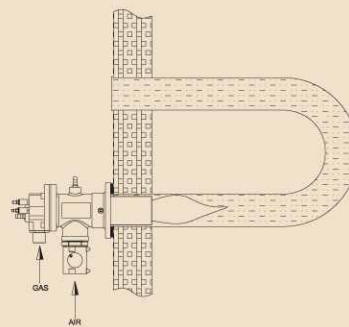


Industrial furnaces and kilns, open firing installations (Cylindrical)

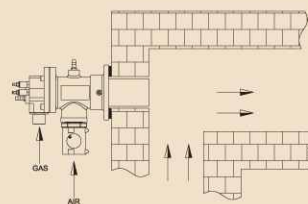
$D1 \text{ (mm)} = D \text{ (mm)} + 10 \text{ (mm)}$



Tangentially fired crucibles (Cylindrical)

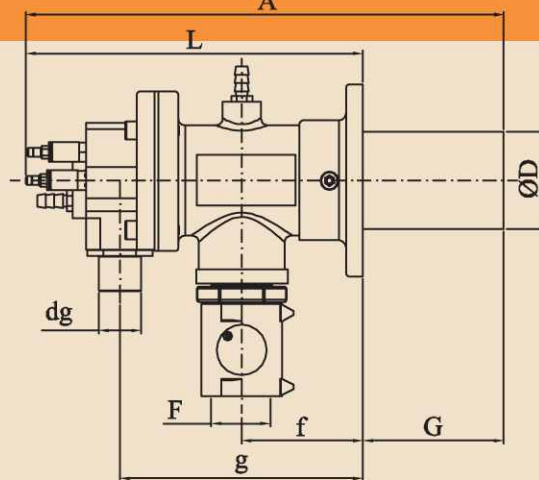
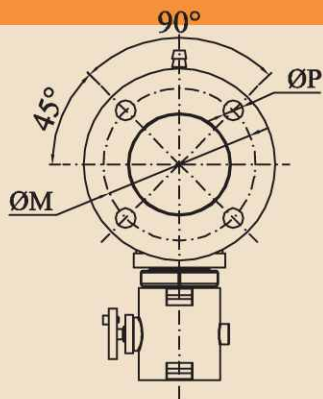
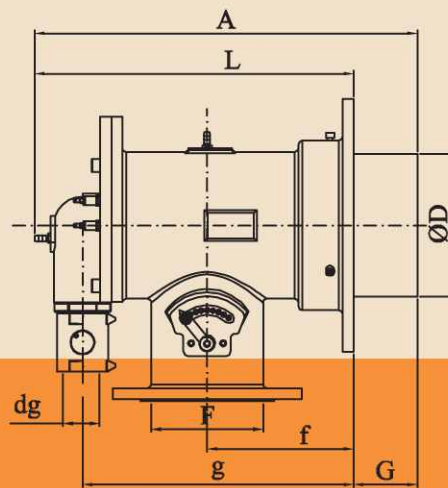
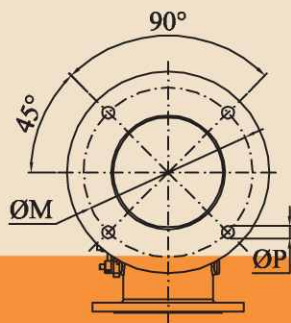
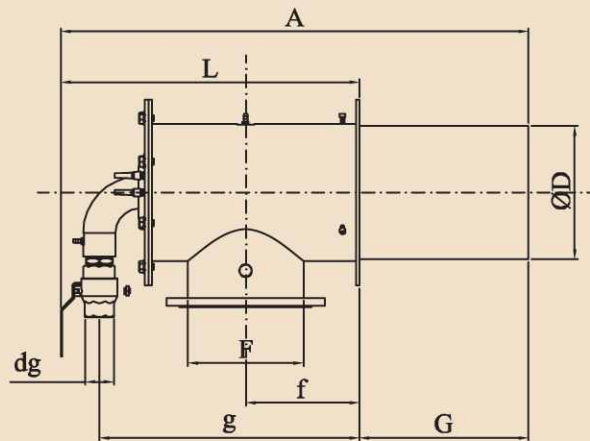
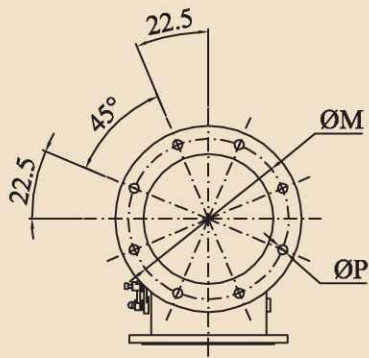


Radiant tube heating



Hot air generation

/ BURNERS DIMENSIONS



TYPE	ØD	F	dG	ØP	ØM	G	A	L	g	f
FPB 20	41	R3/4"	R1/2"	9	90	100	220	120	103	38
FPB 80	69	R1 1/2"	R1/2"	12	108	100	347	247	166	86
FPB 200	100	R2"	R3/4"	12	198	100	365	265	190	98
FPB 400	140	NW 80	R1"	15	220	100	487	387	303	131
FPB 550	177	NW 100	R1 1/4"	15	243	100	543	443	357	180
FPB 870	219	NW 150	R1 1/2"	17	330	100	620	520	423	223
FPB 1200	308	NW 250	R2"	17	330	100	753	653	423	223
FPB 1600	308	NW 250	R2"	14	380	100	753	653	615	269
FPB 2500	308	NW 250	R2 1/2"	25	330	100	753	653	566	220

EXAMPLE APPLICATIONS



Sıcak hava jeneratörü
Hot air gas generator



Glass pot



Glass cooling furnace

APPLICATION

- Field applications in the industrial world are innumerable, a cross section of the most dominant segments is listed
- All heat processing on metals such as; annealing, tempering, drying, hardening etc.
- All heat processing and firing in heavy clay, fine ceramics and glass industries.
- Precious nonferrous, light metal (tank furnace or melting pot, heat treatment)
- Heat for drying processes for grain, milk, cattle fodder etc.

/ PREMIX SYSTEM



Premix system



Premix Burner



Glass melting furnaces

Premix burner system that fuel is mixed before the burner and mixed gas will be carried to the burner gas pipes.
Gas and air is mixed with special type of mixer system.
Premix burner is low capacity but usually used with high quantity of burners in the systems.
Very stable flame and homogen heat distribution at every part of the furnace.



Premix gas and air line

/ CAPACITY TABLE

BURNER TYPE	CAPACITY		CAPACITY		NATURAL GAS CONSUMPTION		LPG GAS CONSUMPTION		FAN Rate	MAIN SUPPLY	WEIGHT
	Min. Kcal/h	Max. Kcal/h	Min. kW	Max. kW	Min. Nm ³ /h	Max. Nm ³ /h	Min. Nm ³ /h	Max. Nm ³ /h	Nm ³ /h	V	Kg
FPB 4	300	4,000	0.35	4.65	0.04	0.48	0.01	0.18	10	220	1
FPB 6	500	6,000	0.58	6.98	0.06	0.73	0.02	0.27	10	220	1
FPB 20	4,000	20,000	5	23	0.5	2.4	0.2	0.9	30	220	2
FPB 80	16,000	80,000	19	93	1.9	9.7	0.7	3.6	150	220-380	10
FPB 200	40,000	200,000	47	233	4.8	24.2	1.8	8.9	350	220-380	20
FPB 400	80,000	400,000	93	465	9.7	48.5	3.6	17.8	650	220-380	35
FPB 550	110,000	550,000	128	640	13.3	66.7	4.9	24.4	900	220-380	45
FPB 870	174,000	870,000	202	1,012	21.1	105.5	7.7	38.7	1,400	220-380	75
FPB 1200	240,000	1,200,000	279	1,395	29.1	145.5	10.7	53.3	2,000	220-380	75
FPB 1600	320,000	1,600,000	372	1,860	38.8	193.9	14.2	71.1	2,500	220-380	75
FPB 2500	500,000	2,500,000	581	2,907	60.6	303.0	22.2	111.1	4,000	220-380	95
FPB 3500	700,000	3,500,000	814	4,070	84.8	424.2	31.1	155.6	5,500	220-380	230
FPB 5000	500,000	5,000,000	581	5,814	60.6	606.1	22.2	222.2	7,800	220-380	250



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