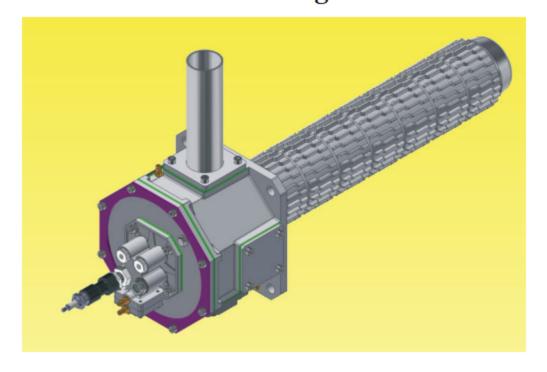


A-PRO Self-Preheating Burner



Foshan NUOE Combustion Control Technology Co., Ltd.

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Foshan NUOE Combustion Control Technology Co., Ltd.

A-PRO Self-Preheating Burner

Energy saving / low nitrogen

Features

- The waste heat is recovered with its own heat exchanger, and the combustion-supporting air can be preheated up to 650 °C.
- Modular design, each module can be replaced and maintained separately.
- Suitable for pulse control and continuous control.
- Staged combustion, combustion is more environmentally friendly.
- The electrode has its own cooling air protection circuit and has the functions of detection and ignition at the same time.
- Heat-resistant steel heat exchanger, suitable for a variety of heat treatment furnaces below 950°C.



Product Description

Air shell: Cast aluminum
 Air inlet material: Cast aluminum

Applied maximum furnace 1250° C

temperature: 2848W5/SUS310s/Silicon carbide

Heat exchanger quality: SUS 310S/Silicon carbide
 Combustion head material: Cast aluminum/Q235

Fixed flange: 15~250KW
 Power: 80mbar
 Air inlet pressure: 60mbar

Gas inlet pressure: NG /LPG/COG

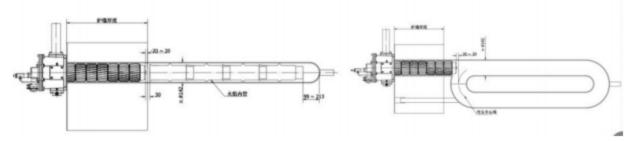
Fuel: 1:3
 Adjustment ratio: 1.05

Air excess coefficient

Product performance

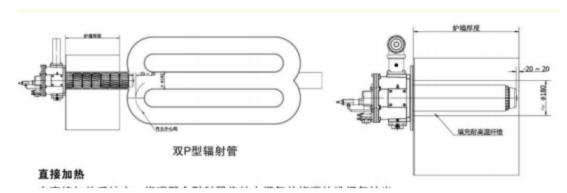
A-PRO Self-Preheating Burner is a new generation of high efficiency burners and an upgraded version of the A-MAX series. Compared with A-MAX series, A-PRO uses CFD simulation technology to optimize and reconstruct the heat exchanger structure. Under the condition of weight loss, the heat transfer efficiency is increased by 15%, and the exhaust temperature is lower.

The A-PRO shell adopts die-casting process, which has the advantages of lighter weight, higher structural strength and less flow resistance.



Type I radiation tube

Type P radiation tube



Double P-type radiation tube

Filled with high temperature resistant fiber

Direct heating

In the direct heating system, the burner cooperates with the injector to extract the flue gas from the furnace from the exhaust gas of the burner.

Type selection

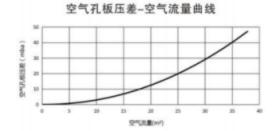
Model	A-PRO	1MB	545	I
Rated Power 1MB: 36KW, 2MB: 60KW, 3MB: 100KW, 4MB: 1				
Burner Length 545, 595, 645, 545+n*50				
D: Direct heating(Need matching flue gas reflux sleeve and Ejector	or) I: Indirect	heating		

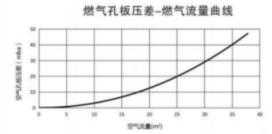
Example: A-PRO 1MB 6451 (Burner Length 645, Indirect heating, no need for flue gas reflux sleeve and ejector)

Pressure-flow characteristics

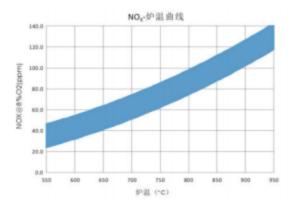
Air Orifice Plate Pressure Difference-Air Flow Curve

Gas Orifice Plate Pressure Difference-Gas Flow Curve



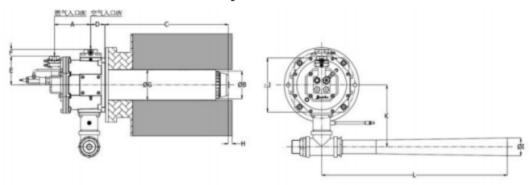


Emission NOx-Furnace Temperature Curve

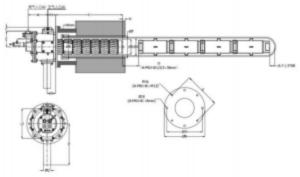




Specifications

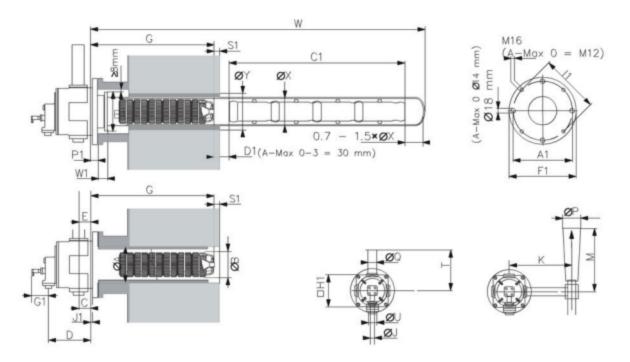


Specifications	Dimension [mm]													
	A	В	С	D	Е	F	fG	Н	I	J	K	L	U	V
A-PR0-1M	152	123	545-695	60	119	59	180	±20	43	236	269	625	R 1/2	R 1
A-PR0-2M	152	142	545-695	60	119	59	200	±20	73	236	283	625	R 1/2	R11/2
A-PR0-3M	179	178	545-695	83	123	82	236	±20	79	280	292	820	R 1/2	R 2
A-MAX-4M	203	240	545-695	95	157	91	300	±20	98	372	353	820	R 3/4	R 2
A-MAX-5M	203	273	545-695	95	157	91	336	±20	98	372	345	920	R 1	R 2



			- 90/											
Specifications						Dimension [mm]								
	Α	В	С	D	E	F	G	Н	I	пJ	K	L	U	V
A-PR0-1M	152	123	545-695	60	119	59	180	± 20	43	236	269	625	R 1/2	R 1
A-PR0-2M	152	142	545-695	60	119	59	200	±20	73	236	283	625	R 1/2	R11/2
A-PRO-3M	179	178	545-695	83	123	82	236	± 20	79	280	292	820	R 1/2	R 2
A-PR0-4M	203	240	545-695	95	157	91	300	±20	98	372	353	820	R 3/4	R 2
A-PR0-5M	203	273	545-695	95	157	91	336	± 20	98	372	345	920	R 1	R 2
Specifications		Dit	nension [m	m]										
	0	P	Q	R	S									
A-PR0-1M	280	331	DN50	200	290									
A-PR0-2M	280	331	DN50	220	290									
A-PR0-3M	325	353	DN65	260	330									
A-PR0-4M	420	399	DN100	-	445									
A-PR0-5M	420	399	DN100	-	445									

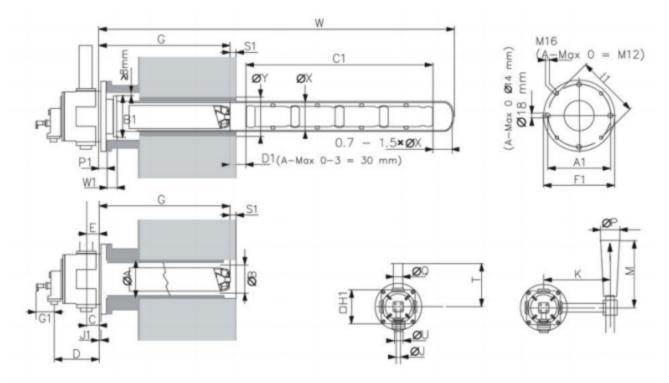
Dimensions of A-MAX-M Self-Preheating Burner



Product Type	[mm]												
	φΑ	φΒ	С	D	E	G	φJ	K	M	φP	φQ	T	
A-Max 1M	133	123	60	212	60	545-695	R1/2"	269	625	43	DN 50	331	
A-Max 2M	156	142	60	212	60	545-695	R1/2"	283	625	73	DN50	331	
A-Max 3M	193	178	83	262	83	545-695	R1/2"	292	820	79	DN 65	353	
A-Max 4M	254	240	95	298	95	545-695	R3/4"	353	820	98	DN	399	
											100		
A-Max 5M	287	273	95	298	95	695	R1"	345	920	98	DN100	399	

Prod	luct Type			[mm]										
	φU	W	φX	φY	A1	ФВ1	C1	D1	Φf1	G1	H1	φI1	si	kg
A-Max 1M	R1"	0-2600	142	182	280	200	0	30	330	90	236	290		20
A-Max 2M	R1/2"		162	202	280	220	0+5	30	330	90	236	290	=0±20	25
A-Max 3M	R2"		202	242	325	260	nx25	30	385	90	280	330		33
A-Max 4M	R2 1/2"	1000	-	-	420	-	<u> </u>	-	480	110	372	445	22	48
A-Max 5M	R2 1/2"		-	-	420	-	D)	-	480	110	372	445		57

Dimensions of F-TR Self-Preheating Burner



Product Type	[mm]												
	φΑ	φВ	С	D	Е	G	φJ	K	M	φP	φQ	T	
A-Max 1FTR	180	123	60	212	60	545-695	R1/2"	269	625	43	DN 50	331	
A-Max 2FTR	200	142	60	212	60	545-695	R1/2"	283	625	73	DN50	331	
A-Max 3F TR	236	178	83	262	83	545-695	R1/2"	292	820	79	DN 65	353	
A-Max 4FTR	300	240	95	298	95	545	R3/4"	353	820	98	DN	399	
											100		
A-Max 5FTR	336	273	95	298	95	695	R1"	345	920	98	DN100	399	

Prod	luct Type						[r	mm]					V	Veight
	φ U	W	φX	φY	A1	ФВ1	C1	D1	Φfl	G1	H1	φI1	si	kg
A-Max 1FTR	R1"		142	182	280	200		30	330	90	236	290		20
A-Max 2FTR	R1 1/2"	0	162	202	280	220	-50	30	330	90	236	290		25
A-Max 3F TR	R2"	1000-2600	202	242	325	260	=nx250+50	30	385	90	280	330	S1=0±20	33
A-Max 4FTR	R2 1/2"	=	-	-	420	-	ย็	-	480	110	372	445	01	48
A-Max 5FTR	R2 1/2"		-	-	420	-		-	480	110	372	445		57