



DISTRIBUTED BY





บริษัท บุญเยี่ยมและสหาย จำกัด BOONYIUM AND ASSOCIATES LIMITED 1314-1322 เป็นเสียนซี แบลเลียนและ และสหาย จำกัด Tel uz 322 1878/Auto Lino) มี 322 4330-3 Eav 02 222 4328-9 Make The Combustion Perfect And Simple



DYDTEC Group is specialized in combustion industry. Our products and services include industrial burner, combustion system, flame treatment system, air heater, heat exchanger, project renovation for combustion safety, energy saving and low nitrogen, maintenance of combustion system. We see us as a solution provider in the combustion industry and can satisfy the needs from customers.

Over 10 years expanding, DYDTEC has supplied thousand of combustion systems and air heaters. We have rich application experiences in various industries including automotive, environment protection, industrial drying, light industry and heave industry.

Our product applies the European standard EN746 and American standard NFPA86.

DYDTEC entered overseas market in 2016, we have successfully exported our products to the areas including US, EU, Africa, Asia and Pacific.

With our motto of faith, DYDTEC is dedicated to be excellent, honest, diligent, responsible. We have become the industrial combustion market leader in China and we are ambitious to become an outstanding brand worldwide in the field of industrial combustion in the next decade.

PTC-F BURNER

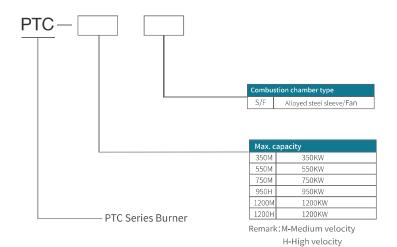
PTC-F gas burner is a high-precision temperature control burner designed by DYDTEC for industrial applications. It has the characteristics of wide capacity regulation range, sufficient combustion, reliability and stability, high convective heat transfer efficiency and so on. It has a wide range of applications, such as hot air heater, drying furnace, preheating furnace, ceramic shuttle kiln, glass tempering furnace, quenching furnace, annealing furnace, RTO, thermal oxidation furnace, etc.

- Applicable maximum combustion chamber temperature 950 °C
- High convective heat transfer efficiency
- Turn down ratio 20:1
- Flexible adjustment to meet a variety of temperature control needs
- Excellent low fire performance
- Perfect for both high and low temperature applications
- Low CO and NOx emissions
- Applicable to natural gas and LPG
- Direct ignition with spark plug









PARAMETERS

MODEL	PTC-350MS/F	PTC-550MS/F	PTC-750MS/F	PTC-950HS/F	PTC-1200MS/F	PTC-1200HS/F		
Max. capacity (kW)	350	550	750 950		1200	1200		
Required gas pressure (Pa)	1000	500	900	900 1350		2100		
Required combustion air pressure (Pa)	1500	550	1010 2200		1600	3400		
Flame length (mm) *	1000	1200	1500	1450	2500	1800		
Weight (kg)	58	82	92	135	135	169		
voltage of fan (V)	AC380							
Oxygen content of combustion air	21%							
Combustion chamber pressure range (kPa)	-0.5 ~ 0.5							
Maximum operating temperature (°C)	950							
NOx emission (mg)	80							

Data measurement conditions: natural gas, combustion air temperature 20 °C, combustion chamber back pressure 0Pa.



The flame length is calculated from the outlet of the fire casing.

Flame detection:

UV is suitable for all burners;

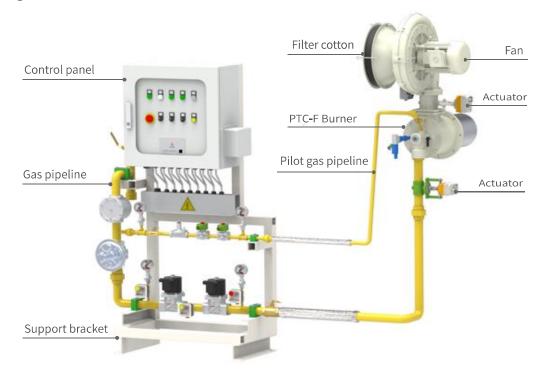
Flame rods can be used for PTC-350 $\,$ only (the temperature combustion air is lower than 150 $^{\circ}\text{C})$



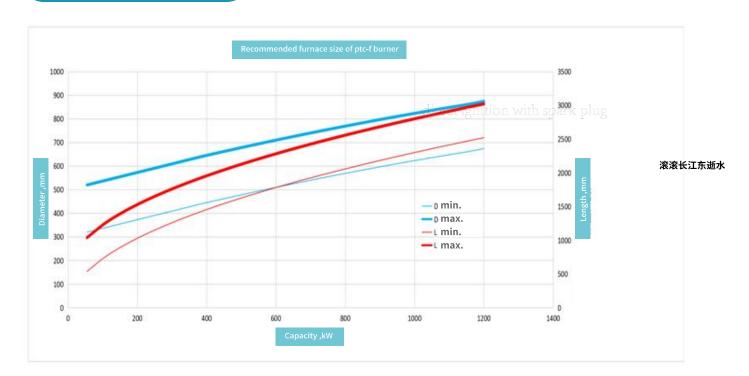
PTC-F Burner

02 Application il

The PTC-F burner is widely used for different high temperature processes. The typical configuration of a single burner is shown below:



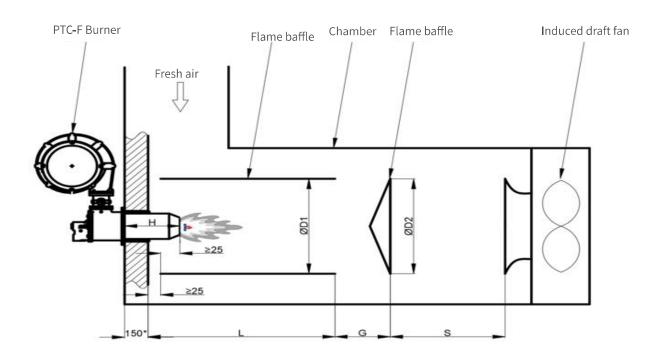
O3 furnace /ize iii





PTC-F burner is suitable for various low-temperature heating applications. The typical application diagram of circulating air is as follows.

PROCESS DRAWING



Dimension

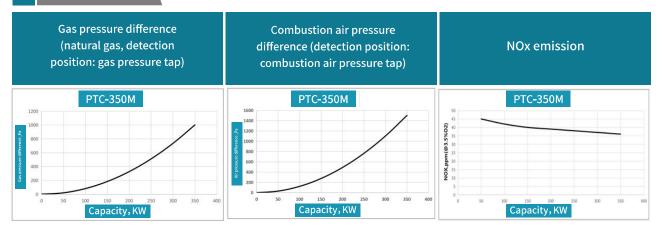
Typo	Typical design dimensions								
Туре	D1	D2	G	Н	L	S			
PTC-350M	400 ~ 600	600	300 ~ 400	291	≥1000	≥600			
PTC-550M	500 ~ 700	700	300 ~ 400	354	≥1200	≥600			
PTC-750M	600 ~ 800	800	300 ~ 400	354	≥1500	≥600			
PTC-950H	700 ~ 900	900	300 ~ 400	395	≥1500	≥600			
PTC-1200M	700 ~ 900	900	300 ~ 400	395	≥2500	≥600			
PTC-1200H	700 ~ 900	900	300 ~ 400	395	≥1800	≥600			
# # (1:1	() · (II · ·	ć II.							

^{* —} The thickness of the installation furnace wall is recommended to be 150mm.



Data curve il

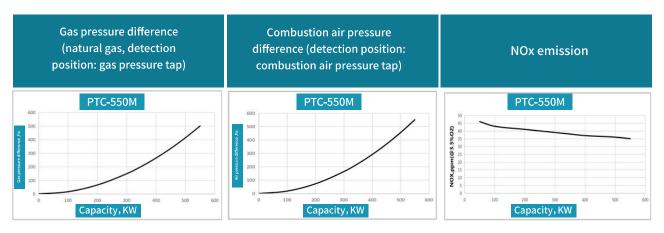
PTC-350MS/F



Note: NOx emission data are tested based on 600 °C combustion chamber temperature .

NOx emission data is only for reference, because NOx emission is also affected by combustion chamber structure, excess air coefficient and

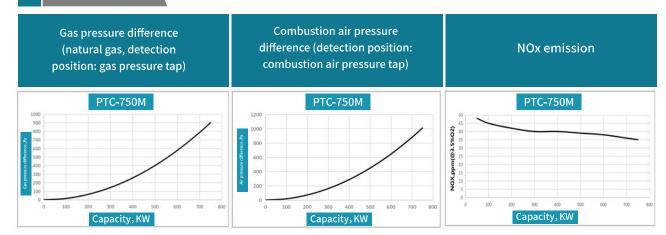
PTC-550MS/F



Note: NOx emission data are tested based on 600 °C combustion chamber temperature .

NOx emission data is only for reference, because NOx emission is also affected by combustion chamber structure, excess air coefficient and other factors.

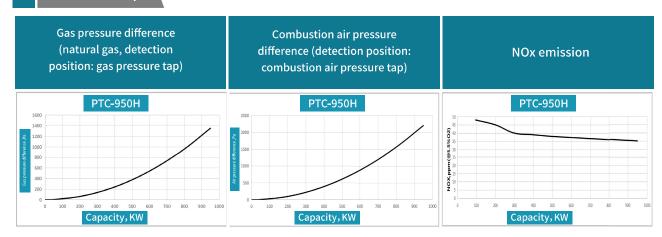




Note: NOx emission data are tested based on 600 °C combustion chamber temperature .

NOx emission data is only for reference, because NOx emission is also affected by combustion chamber structure, excess air coefficient and other factors.

PTC-950HS/F

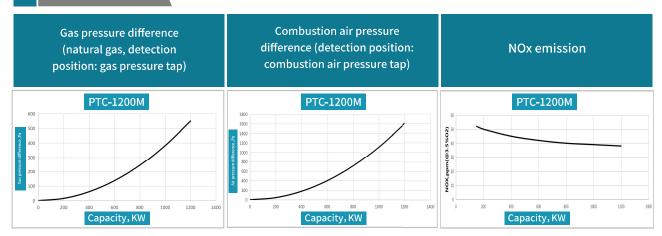


Note: NOx emission data are tested based on 600 $^{\circ}\text{C}$ combustion chamber temperature .

NOx emission data is only for reference, because NOx emission is also affected by combustion chamber structure, excess air coefficient and other factors.

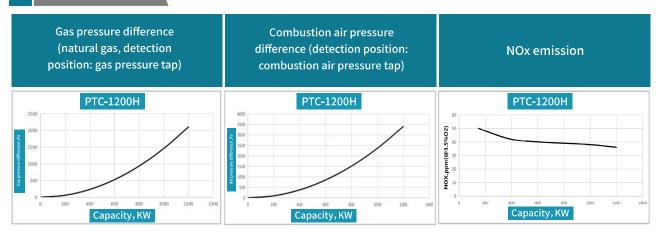


PTC-1200MS/F



Note: NOx emission data are tested based on $600 \, ^{\circ}$ C combustion chamber temperature . NOx emission data is only for reference, because NOx emission is also affected by combustion chamber structure, excess air coefficient and other factors.

PTC-1200HS/F

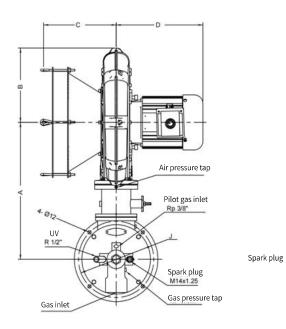


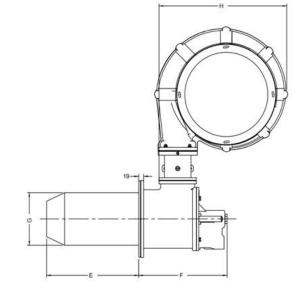
Note: NOx emission data are tested based on 600 °C combustion chamber temperature .

NOx emission data is only for reference, because NOx emission is also affected by combustion chamber structure, excess air coefficient and other factors.



OVERALL





DIMENSION

Unit,mm	Α	В	С	D	Е	F	G	Н	1	J
PTC-350MS/F	441	256	254	303	291	251	141	509	Rp 1.5"	190
PTC-550MS/F	472	256	254	303	354	340	199	491	Rp 2"	263
PTC-750MS/F	506	286	260	345	354	340	199	609	Rp 2"	263
PTC-950HS/F	600	342	271	380	395	408	254	753	Rp 2"	300
PTC-1200MS/F	600	342	271	380	395	408	254	753	Rp 2"	300
PTC-1200HS/F	600	342	271	471	395	408	254	753	Rp 2"	300

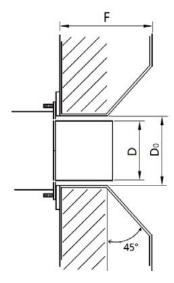


Mounting hole requirements

Before the installation of burner, holes shall be reserved on the furnace wall according to the size of refractory bricks. To facilitate installation, the opening size must be at least 20mm larger than the outer diameter of the refractory brick, and the recommended opening size D0 range is (D+20) mm.

An expansion gap shall be reserved between the refractory brick / fire casing and the rigid material of the furnace wall, and shall be filled and tamped with aluminum silicate fiber cotton.

When the thickness of the furnace wall is greater than the length of the refractory brick / fire casing, the excess part shall be at the bell mouth with an included angle of 45° along the flame flow direction inside the furnace wall (as shown in the figure), so as to avoid the scouring of the furnace wall by the high-temperature flame.

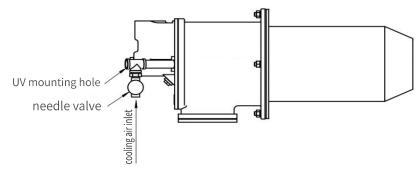


Installation notes

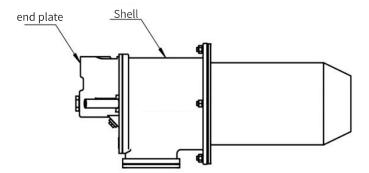
- An expansion gap shall be reserved between the refractory brick / fire casing and the rigid material of the furnace wall, which shall be filled and tamped with aluminum silicate fiber cotton;
- The fiber gasket is used for sealing between the burner mounting flange and the furnace wall mounting plate;
- After the furnace is used for the first time at the design temperature, please check the shrinkage of the fiber around the refractory brick / fire casing, and refill the gap with the refractory fiber to ensure good sealing;
- Flexible compensation connecting pipe must be used in the pipeline system of combustion supporting air and gas;
- The burner must be installed correctly as required to avoid abnormal heat transfer.



• If UV cooling air is set, the air volume shall be set with a needle valve to regulate the flow, and the cooling air flow shall not exceed 5nm3/h, so as to avoid the high temperature of the mixing cone caused by the full combustion of the flame in the mixing cone due to the excessive UV cooling air volume, which will affect the service life.



• When the burner is in normal use, the surface temperature of the burner shell and end plate is lower than 60 °C.



• When the burner is shut down, if the temperature in the combustion chamber is higher than 500 °C, a small amount of combustion air shall be reserved to reduce the temperature of the burner.

All installation, maintenance, ignition and setting must be operated by professional technicians in strict accordance with the latest local standards and specifications. In order to avoid personal and property damage, please strictly comply with the requirements in the operation manual.

Operators must wear appropriate protective clothing (shoes, safety helmet).

In order to avoid the risk of burns or high-voltage electric shock when the burner is in ignition stage or high-temperature operation stage, the operator must avoid any contact with the burner.

All simple or complex maintenance can only be allowed under shutdown status.

Product improvement and specification parameters are subject to change without notice.



O9 Accevories [1]

NO.	Name	Type Applicable burner		Photo
	spark plug	RP-SE-RFG020	PTC-350M	
		RP-SE-RFG075	PTC-550M	
1			PTC-750M	
1			PTC - 950M	
			PTC-1200M	
			PTC-1200H	
		RFG040-8	PTC350M	
2	washer ·	RFG075-8	PTC-550M	
		KFGU13-0	PTC-750M	
			PTC-950M	
		RFG125-8	PTC-1200M	
			PTC-1200H	400





DYDTEC

Add: Floor 1&4 of Building 1,No.111 Zhiye Road Pudong District,China

Tel: 021-58814568

E-mail: info@dydtec.com Web: www.dydtec.com



