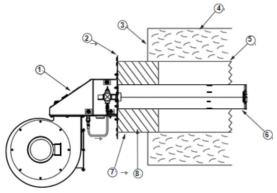
Burner Model	XPO 1PB	XPO 2PB	XPO 3PB	XPO 4PB	XPO 5PB	XPO 5PB+	XPO PAK 3	XPO PAK 5
A	1145	1145	1145	1096	1096	1096	1147	1096
B	848	838	810	756	736	736	813.6	736
C	高度和长度根据布置的不同会有变化，请参照Honeywell单独提供的组装图尺寸 The dimension will be different based on layout. Ask layout drawing from HTS sales.							
D								
E	45°	45°	45°	30°	30°	30°	399.6	521
F	457	457	457	711	711	711	321	410
G	420	420	420	641	641	641	281	360
H	160	160	160	209	209	209	160.1	209
I	23	23	23	23	23	23	220.2	288
J	16	16	16	16	16	23	17.5	17.5
K	159	159	159	216	216	216	159.1	216
UV管尺寸	2″	2″	2″	2″	2″	2″	2″	2″

注意:
Note

1.XPO 1, 2, 3 与4, 5 的法兰尺寸不同，螺栓位置和数量也不同，详见图纸。
The flange for XPO1,2,3 and 4,5 are different. Both on bolts position and quantity, please see the draw.
2. XPO PAK 3,5 的法兰方向基于UV 管在左侧或者上方。
XPO PAK 3,5 flange direction based on UV sensor left or top.

燃烧器安装指导 Burner mounting instructions

[1] XPO®燃烧器 XPO® burner
[2] 安装法兰 Mounting flange
[3] 单元墙 Unit wall
[4] 液体溶液 Liquid solution
[5] 燃烧室 Fire tube
[6] 燃烧器套筒 Burner blast tube
[7] 非冷却烟管壁
Non-cooled fire tube wall
[8] 客户提供的隔热材料
Customer-supplied insulation



* 所有非液体冷却面必须按如图所示方式进行隔热
* All non-liquid cooled surfaces must be insulated as shown above.

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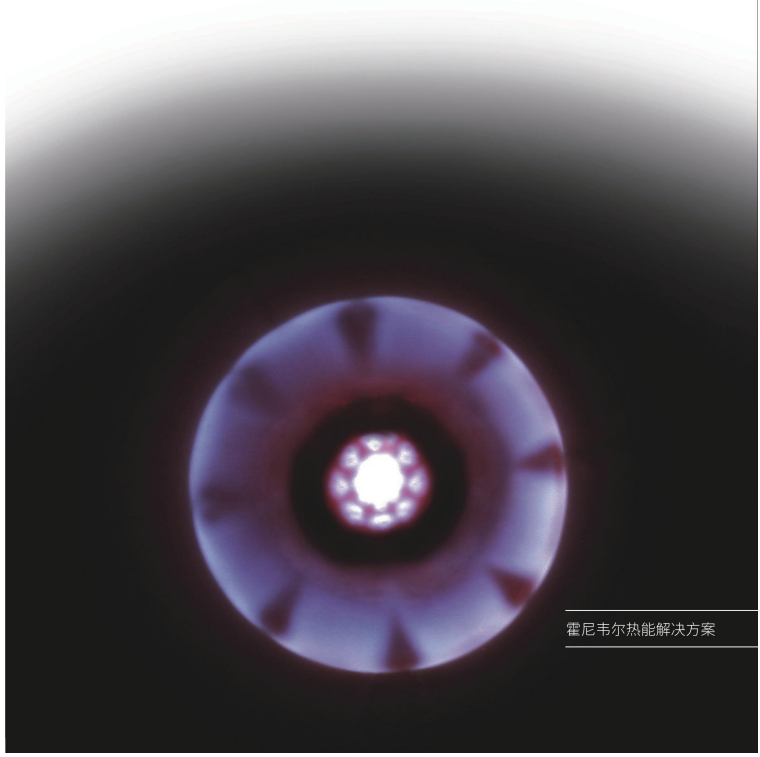
XPO®
超低排放氮氧化物间接燃烧器
Ultra low NOx indirect burner



霍尼韦尔热能解决方案

- 使用清洁燃气的低温燃烧器
  Low temperature burner for use with clean fuel gases
- 在30%的过剩空气下，氮氧化物排放最优可达个位数PPM
  Single digit NOx emissions at 30% excess air
- 低过剩空气要求下，高效率
  High efficiency with low excess air requirements
- 高达 2000KW 的燃烧效率，至少 4:1 的调节比
  Capacities up to 2000KW with a least 4:1 turndown ratio

用作间接液体加热
For use in indirect fired solution backed heaters

产品介绍 Product description

霍尼韦尔麦克森 XPO® 低温燃烧器，适用于液体应用，包含：
Honeywell Maxon XPO® burners are low temperature burners for use in liquid backed applications, including:

回水锅炉 Water back heater
火管锅炉 Fire tube boiler
直接接触热水加热器 Direct contact water heater
液体加热器 / 罐 Solution heating/tanks
雪熔炉 Snow melter

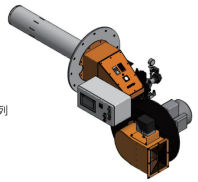
XPO® 燃烧器对过剩空气的要求低，但运行效率高。其设计旨在更方便地对现有的液体加热应用进行改造。
XPO® burners provide high efficiency operation with low excess air requirements. They are designed for ease of retrofitting into existing liquid backed applications.

组合 XPO® 燃烧器集火焰监督、保险联锁装置和流量控制功能，以及针对操作人员的用户友好界面为一体。标准配置包括：
The packaged XPO® burners are intergrated with flame supervision, safety interlock and flow control function, with user freiendly interface for operator.The Standard configuration include:

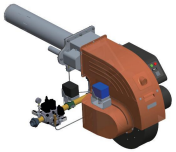
1. 具有减压和稳压功能的双安全电磁阀
   Intergrated Double safety shut-off valve with pressure regulating funciton
2. SLATE点火控制器具有空气/燃气执行器的电子比调功能
   SLATE burner control unit with electrical parral actuator with air dampler+ gas BV
3. 紫外线传感器
   UV sensor
4. 气体高/低压开关+阀体侧漏压力开关+空气压力开关
   Gas high/low pressure switch+ pressure switch for valve tightness test+ air pressure switch
5. 可选一体式风机或分体式风机 (与燃烧器型号相关)
   package blower or separate blower to be installed on-site(depends on burner model)

注意：客户需自行安装气体过滤器和进气口上游的手动切断阀。
Note:It's customer's responsbility to install the gas filter and manual shut-off valve upstream of the gas inlet.

XPO PB系列



XPO PAK 系列



XPO® 超低氮氧化物燃烧器的可选型号
Available XPO® ultra low NOx burner sizes

燃烧器数据
Typical burner data
Fuel: natural gas at 15°C with 10.9 kWh/Nm3 HHV - sg = 0.6 [1]
Combustion air: 15°C - 21% O2 - 50% humidity - sg = 1.0 [1]
燃料：天然气，15°C，10.9 kWh/Nm3，比重 = 0.6 [1]
助燃空气：15°C - 21% O2 -50% 湿度，比重= 1.0 [1]
压力作为参考。实际压力受空气湿度、海拔高度、燃料类型及气体质量的影响。
Stated pressures are indicative. Actual pressures are a function of air humidity, altitude, type of fuel and gas quality

	XPO 1PB	XPO 2PB	XPO 3PB	XPO 4PB	XPO 5PB	XPO 5PB+	XPO PAK 3	XPO PAK 5
	基于25% 的过剩空气测得的结果 Based on 25% excess air							
燃烧器最大功率 [2][4] KW Maximum burner capacity [2][4] KW	400	525	960	1260	1700	2000	960	1700
调节比 [3] Turndown ratio [3]	4:1	4:1	4:1	4:1	4:1	4:1	4:1	4:1
额定助燃风量 m3/hr Maximum airflow m3/hr	625	850	1260	1870	2340	2920	1260	2340
助燃风机功率 [4] KW Fan horsepower [4] KW	1.1	2.2	4	4	5.5	11	4	5.5
助燃风压力 mbar Air pressure mbar	30	28	40	40	40	56	40	40
燃烧管外径 mm Blast tube OD mm	152	152	152	203	203	203	152	203
锅炉燃烧管内径 mm Fire tube size (inside diameter) mm	355-457	406-560	457-610	560-812	560-864	560-914	457-610	560-864
燃气压力 mbar Gas pressure at pipe train inlet mbar	100-350	100-350	100-350	100-350	150-350	200-350	100-350	150-350
炉膛背压 mbar Chamber back pressure mbar	适用锅炉（热水或蒸汽) 吨/小时 Suitable for boiler (hot water & steam) Power ton/hour							
0	0.5 W/S	0.5 W/S	1.0 W/S	1.5 W/S	2 W/S	2.5 W/S	1.0 W/S	2 W/S
5	0.5 W/ 0.45 S	0.5 W/S	1.0 W/S	1.5 W/1.47 S	2 W/S	2.5 W/ 2.4 S	1.0 W/S	2 W/S
7.5	0.5 W	0.5 W/S	1.0 W/S	1.5W/1.42 S	2 W/ 1.9 S	2.5W/ 2.3S	1.0 W/S	2 W/ 1.9 S
10	0.47 W	0.5 W/0.48 S	1.0 W/S	1.5 W/1.35 S	2W /1.84 S	2.5W/ 2.3S	1.0 W/S	2W/ 1.84 S

[1] sg (比重) = 相对空气的密度 (空气密度=1.293 kg/Nm3)。
sg (specific gravity) = relative density to air (density air = 1.293 kg/Nm3).

[2] 燃烧器最大功率受燃料及炉膛背压的影响。
Maximum burner capacity will affected by fule and Chamber back pressure.

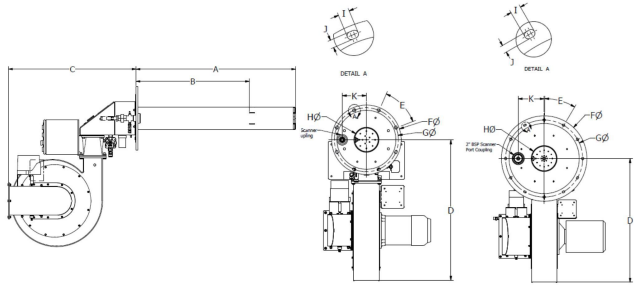
[3] 各应用的炉膛尺寸不同，调节比也就不同。热通量越低(<3631 kW/m2)，调节比也越低。
Turndown ratio will vary depending on the application heat flux. Lower heat flux (<3631 kW/m2) will result with lower turndown ratios.

[4] 显示的功率为风机在50Hz电源条件下运行。
Capacity displayed assumes blower operation on 50Hz electrical supply.

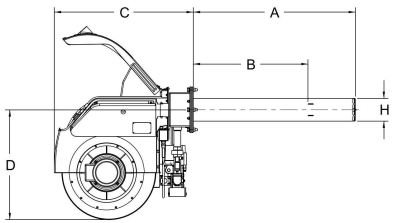
[5] W表示热水锅炉，S表示蒸汽锅炉。
W - hot water boiler, S - steam boiler.

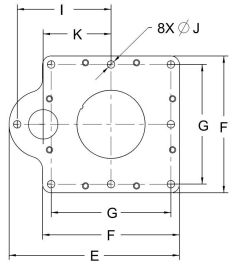
[6] 夏季（气温30 °C-35 °C）测试功率会减少3%。
In summer (ambient temperature 30C-35C) tested capacity down 3%.

安装尺寸 Dimensions for installaiton



XPO 1, 2 & 3PB　　XPO 4 & 5PB





XPO PAK 3&5