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 BOONYIUM AND ASSOCIATES LIMITED

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让燃烧完美而简约 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.

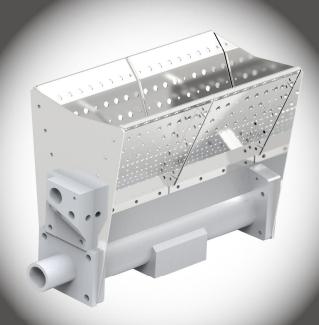
DYDTEC entered overseas market in 2016, we have successfully exported our products to the areas including US, EU, Africa, Asia and Pacific.

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.





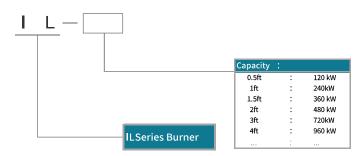
IL serie burners are designed to heat fresh air, medium & low-temperature air (direct-fired). They are used for processes such as heating, drying or curing for the environment or objects in automotive, medical, food and chemical industries. The burners may also be installed at downsteam or preheating section to ensure higher heating temperature.



- Designed for direct-fired air heating and medium/low temperature drying;
- Modular design (rated power: 240kW/ft)
- Short flame length (max. length: 700mm)
- ANSI/CSA standards
- Turndown 30:1







PARAMETERS

		Basic Paran	neters			
Parameter Item	Р	arameter Val	ues	Remarks		
Rated capacity(kW/ft)	240		For direct-fired air-condition applications, the selected power is 80% the rated			
Differential pressure of air accros the baffle (Pa)	75~250					
Regulation ratio	30:1					
Max. upstream temperature– cast aluminum(°C)	230		The temperature of fresh air after being pre-heated via the heat exchanger			
Max. upstream temperature— cast iron(°C)	325		The temperature of fresh air after being pre-heated via the heat exchanger			
Max. downstream temperature— cast aluminum(°C)	450					
Max. downstream temperature— cast iron(°C)	500					
Max. temperature rise (°C)	400					
Min.upstream oxygen content	21%		IL serie standard burners are only suitable for fresh air applications.			
Required pressure of natural gas (KPa)	1		Pressure in front of the inlet			
Flame length (mm)	150~700					
Air flow rate (m/s)	11~20					
Suitable fuel	Natural gas, propane, butane		Gases must be clean			
-		tions of typ		es burners		
Fuel type	Natural gas, propane, butane					
Fuel temperature (°C)	15					
Fuel heat value (kWh/Nm³)		10.9				
Fuel specific weight	0.6		Against the air density			
Combustion air temperature (°C)	15					
Oxygen content in combustion air		21%				
Combustion air humidity		≤50%				
Inlet pressure of pipeline	20~30					
Concentration of combustic	n produ	cts (harmfu	l gases) of	IL series bu	rners unde	r normal
			Emissi	ons Concentration/ppm		
Fuel Type		СО	Hydrocarbo n	NO2	СНЗСНО	CO2
Natural gas		3~4	1~2.5	0.1~0.35	0.05~0.14	480~2100
Liquefied gas	3~5	0.5~1	0.1~0.5	0.05~0.17	520~2550	
allowable value*	50	/	5	2	5000	
* The standard value is the allowable v	alue requir	ed by "Indus	trial Ventilati	on".		

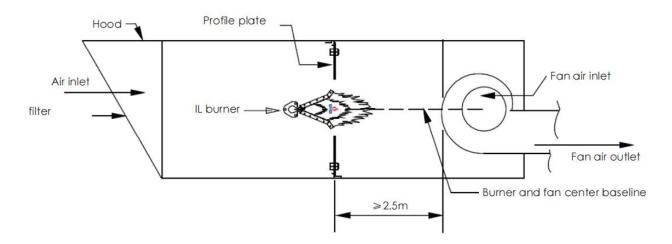




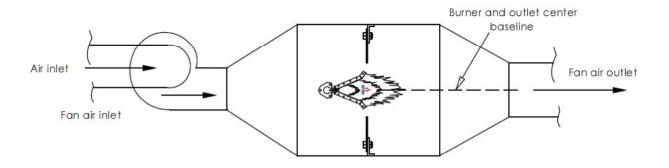
Application il

Typical low-temperature applications include AC heating for painting process, AC heating for general buildings, AC heating for central-station AC heaters, channel heaters, grain drying, malt drying etc. Typical air heating applications for the high-temperature process include the air dryer, chemical dryer, fresh air heating cabinet, bake & curing, metal part modeling, and all applications that heat fresh air to 500°C. Combination methods for burners can be selected based on site conditions for the applications listed above. Typical combinations are described as follows:

EXHAUST SYSTEM



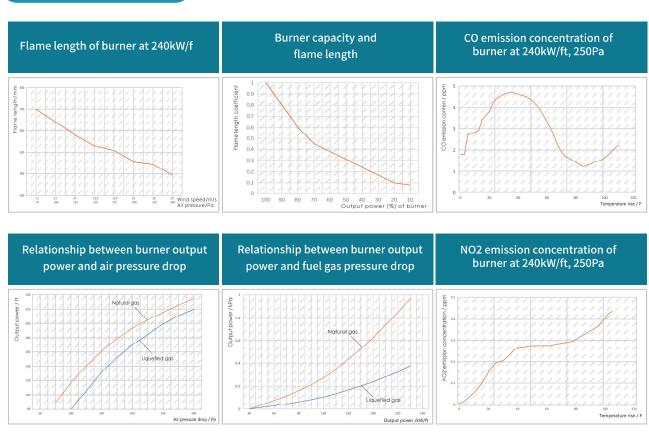
BLOWING SYSTEM



NOTES

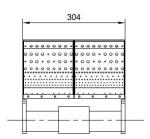
- ·The design power of direct-fired AC is 200kW/ft. The power of other applications is 240kW/ft;
- ·The oxygen content in the fresh air 21%;
- •The deviation of the flow of fresh air: $\pm 15\%$;
- The rated power of the linear type is 240kW; the rated power of type T is 360kW. Various powers can be obtained by combining them as required;
- \cdot Two structures are designed for the unit module: 1) gas enters from the side; 2) gas enters from the back. The structures can be selected based on operation conditions.

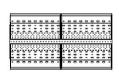
Data curve 📶

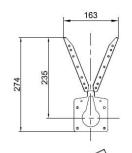


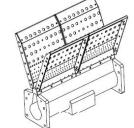


LINEAR TYPE 1FT

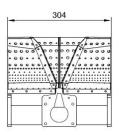


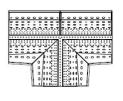


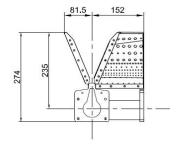


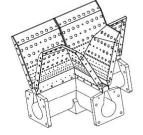


T TYPE 1.5FT



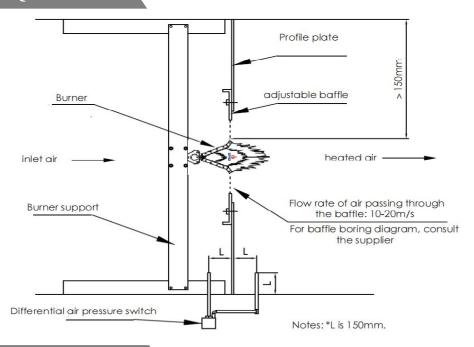




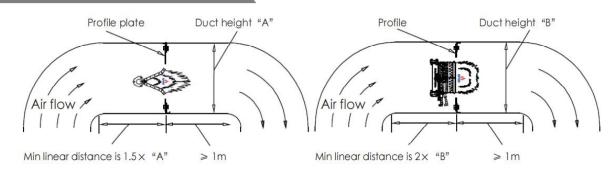


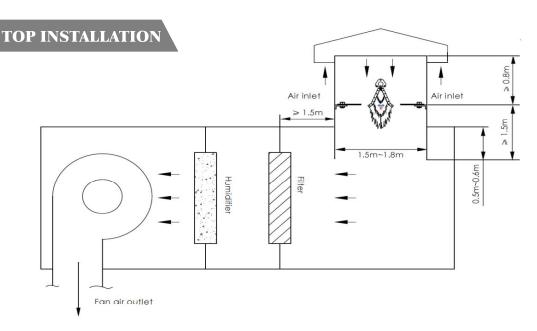


GENERAL REQUIREMENTS



INSTALLATION OF ARC DUCTS





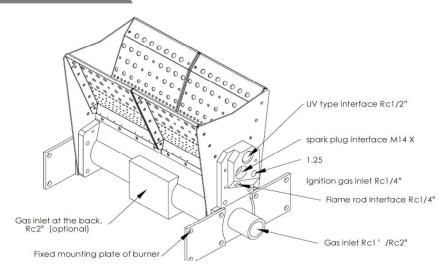
INSTALLATION NOTES

 \cdot When arrange burners based on customer needs, make sure the maximum number of modules connected at each air inlet meets the requirements listed below to ensure even distribution of combustible gases.

Gas Inlet Position	Gas Inlet Size	Allowable Max. Number of Module	
gas enters from the side	1"	≤1.5ft	
gas enters from the side	2"	≤4ft	
gas enters from the back	2"	≤5ft	



BURNER ACCESSORIES



· Notes: Unused interfaces on the plate at the ignition side must be sealed using plugs.

NO.	Name Type		Applicable Burner	Photo	
1	Flame rod	RP-FE-1/4-150-5	I L Series		
2	Spark plug	RP-SE-L	I L Series		







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