



RANGE OF PRODUCTS AND SOLUTIONS FOR INDUSTRY AND FOR END USER



2020





KING Gas fired radiators



AIR HEATING

- » 3 cast iron models and 1 stainless steel
- » 10 years guarantee on combustion chamber and burner
- » Heating of domestic areas such as offices and shops

Systema S.p.A presents its range of KING gas fired radiators, with forced and balanced flow, which represents an affordable alternative to conventional heating in use until now.

The combustion takes place in a airtight heat exchanger; the air needed for the combustion is taken from outside, by a specific pipe, and products of combustion are evacuated through a coaxial pipe.

It is realized in 3 versions, satisfying all potency, installation and dimensioning requests. On the forced models the pipes can be 5 meter long, with coaxial discharge and with right or left lateral discharge. The ventilated version can have 2 speeds or turned off with convective exchange. The forced models are complete with tank.

KING with cast iron exchanger from 2 to 4,9 kW

KING with stainless steel exchanger from 7,2 kW



**10 years guarantee
on combustion chamber and burner**

The King from 2 kW to 4,9 kW are made by cast iron, the most suitable, valuable and reliable material for the realization of the exchanger of these thermo-convectors as it is noiseless and gives a guarantee of duration (more than 10 years) and a high combustion efficiency.

It is stylish, refined and distinguishable thanks to its pleasant and functional rounded esthetic line, suitable for any type of environment, from modern to rustic. Thanks to its particular and unique upper front slots it guarantees a great comfort in a short time, a better thermal efficiency with heating by convection and radiation, ensuring effective heat distribution without causing the air stratification.

In compliance with UNI-CIG 7129 law devices of type C and B.

The stainless steel King is realized in 1 model from 7,2 kW. It is flexible in its applications (wall or ceiling) and the weight is low.

With king radiator you can choose to heat every single environment, programming the hourly and daily temperatures, according to the real needs.

The controls are simple and collected in a single panel, easy to be managed.

The centrifugal fan has 2 speeds.

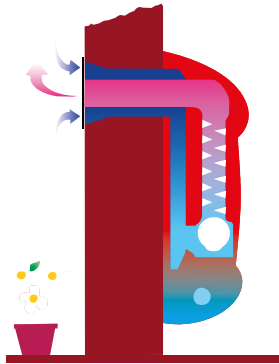
The king radiator is supplied with exhaust and air intake tubes kit, fixing screws, kit of nozzles for gas change, assembly template, instruction manual and guarantee certificate.

In compliance with UNI-CIG 7129 laws devices of type C.

TECHNICAL DATA

Models			BALANCED FLOW PILOT FLAME THERMOCOUPLE SERIES MODELS		FORCED FLOW ELECTRONIC SERIES MODELS		
			NOT-VENTILATED		FORCED FLOW AND VENTILATED		
			K21	K30FE	K50FE	K70FE	
Rated heat flow	kW		2	3	4,9	7,2	
Working heat output	kW		1,84	2,76	4,45	6,64	
Combustion efficiency *	%		91,8	92,1	90,7	92,2	
Efficiency class			1	1	1	1	
Max fuel consumption (15°C-1013 mbar)	Nat. gas G20	m³/h	0,21	0,32	0,526	0,76	
	Butane G30	kg/h	0,158	0,237	0,389	0,568	
	Propane G31	kg/h	0,155	0,233	0,383	0,559	
Electrical power supply	V/Hz		--	230/50			
Electrical power (absorbed)	W		--	71,5	71,5	129	
Treated ambient air flow	m³/h		--	150	260	470	
Heated ambient volume	m³		36	58	102	154	
Fan speed number			--	2	2	2	
Dimensions	Width	mm	560	560	730	880	
	Height	mm	615	615	615	710	
	Depth	mm	225	225	225	330	
Weight	kg		31	33	52	44	
Gas Fitting Diameter	Inc. (")		1/2"-M	1/2"-F	1/2"-F	1/2"-F	
Air-fume coaxial pipe diameters	Aria	mm	100	60	60	100	
	Fumi	mm	60	38	38	60	
Air-fume max length (Coaxial pipes)	mm		500	5000	3000	5000	
Type of equipment			C11	C13			

* Standard conditions



COMBUSTION CYCLE

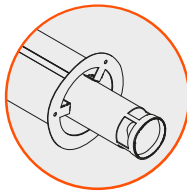
It is safe because the combustion cycle is completely sealed with respect to the environment to heat and the flame is controlled by a thermocouple or an electronic panel, according to the model, which stops the gas flow in case of flame switching off.

It allows greater energy saving in comparison with traditional systems (more or less 30/40%) as the set temperature is reached in a very short time.

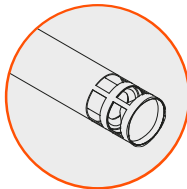
As it is an autonomous gas radiator, it is easy and quick to be installed in different places.

Accessories

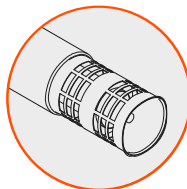
Air/Fumes terminal
King K21
STANDARD INCLUDED



Air/Fumes terminal
King K30FE and K50FE
STANDARD INCLUDED

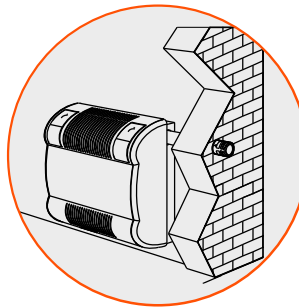


Air/Fumes terminal
King K70FE
STANDARD INCLUDED

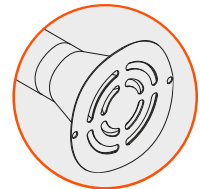


Optionals

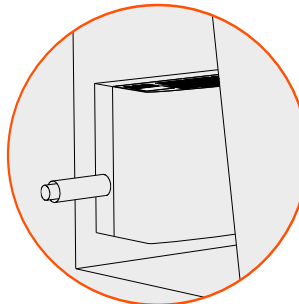
LATERAL DISCHARGE Kit
K30FE and K50FE OPTIONAL



Wall level external wind
proof Air/Fumes terminal
King K30FE and K50FE
OPTIONAL



LATERAL DISCHARGE Kit
K70FE OPTIONAL



SYSTEMA S.p.A. THE COMPANY

 Headquarter and productions plant in Padua



Established in 1986, SYSTEMA S.p.A. is one of the leaders on the conception and production of industrial and tertiary heating and cooling systems. Systema is ISO 9001 certified and is constantly looking at technology and evolution, this is the reason why it cooperates with Universities and other important institutions to improve the quality, the reliability and the safety of its products.

SYSTEMA S.p.A. is taking care of technical certifications, R&D, training centre for designer as well as for Italian and foreign assistance centres.

 Production plant in Poland



The company has 2 production sites, one in Padua (Italy) covering a surface area of 23,000 m² with the plant 5,000 m².

Another 4,000 m² production plant is active in Poland, with an independent R&D laboratory for heating products, strategic to facilitate sales also in East European countries.

The activity is structured with three divisions, each dealing with a specific sector:

- ❖ **RADIANT DIVISION**, products for industrial and tertiary heating with radiant technology
- ❖ **AIR DIVISION**, products for hot air heating
- ❖ **COOLING DIVISION**, air conditioning products, with the new technology of absorption groups.

Regarding the **TYPES OF ENERGY USED**:

- For the heating we can use any kind of gas, fuel oil or hot water.
- For the cooling production we use the absorption technique, with very low electrical consumptions, by exploiting energy sources such as gases, hot water (even from solar applications) steam and fumes.

SYSTEMA S.p.A. is structured with a sale network of 32 agencies in Italy and 18 foreign dealers, appropriately trained for the technical service in full autonomy. The organization within the company is structured with the Financial Area, the Technical Division, the Commercial Department, the Production and the Consulting Services which take care of the customer during the study of the solution as well as assistance on site for the commissioning and maintenance actions.

The company philosophy is always focused to the research of new technologies which can exploit the Green Energies, in particular the Renewables Energies, for the comfort of its customers as well as the benefit of the environment for the future generations!

SYSTEMA S.p.A. wants to continue to be a partner of its customers!



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