KG Heater Series

KG Series Warm Air Furnace Introduction

- Heating, fresh air, recirculation
- Knowledge-based with a patent certificate number 54171
- Four global standards and European Union certification (CE)
- Non-pollution certificate (carbon Zero) from the National Standard Research Institute of Iran
- solid and quiet with KGY exclusive chassis system
- Equipped with an axial fan that distributes the warm air through a duct system or free blowing.
- Can be installed inside and outside the hall
- Body made of hot galvanized material with furnace electrostatic powder paint with protective and optical resistance.
- Exhaust to remove combustion products.
- Ability to assemble on site for hard-to-reach areas
- From 100,000 to 250,000 kcal in three sizes in two models with damper and without damper
- High safety, efficiency and durability
- Quick heating - sound economy

KG Heater Series

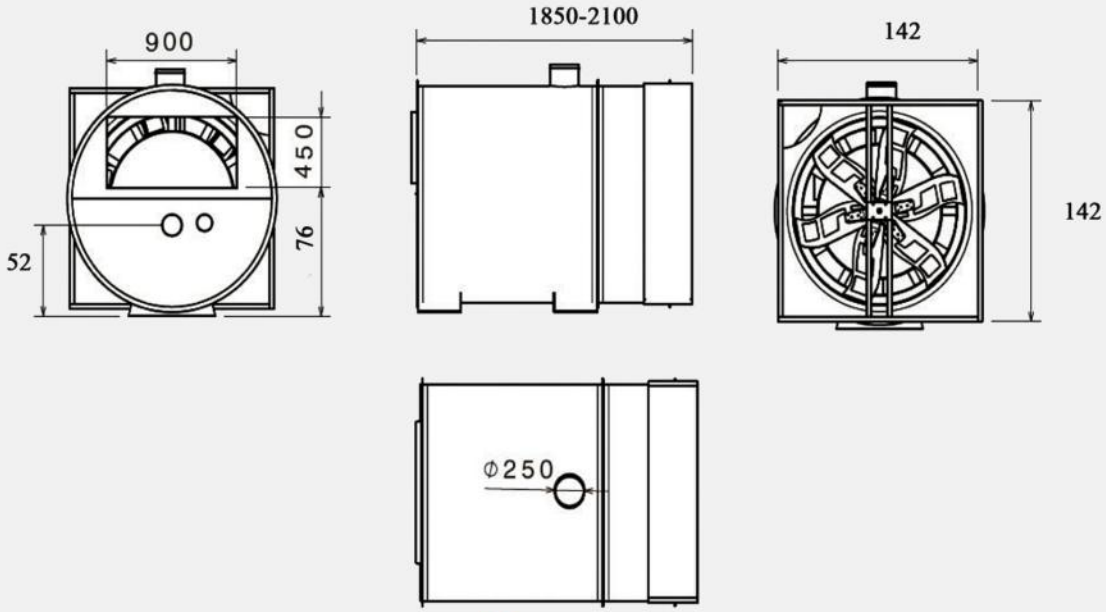
KG Heater Series Performance

- The KG Heater is a warm air furnace that uses gasoil and gas as it's fuel.
  KG heaters are produced in two models, with damper for installation outside the hall and without damper for installation inside the hall.
- In the damper model heater, the cold air after passing through the combustion chamber and thermal surfaces, transfers to the interior of the hall by the axial fan and through the end channel, and after the heater is turned off, the damper is automatically closed and prevents the entry of cold air.
- By installing KG heaters in the environment, the air of the hall will circulate and there is no need for automatic damper which saves the operating expenses.

KG Heater Series

KG Heater Series Technical Features

Feature	Unit	KG 100	KG 120	KG 140
Power supply	V/Hz	3*380/50	3*380/50	3*380/50
Net weight	Kg	235	290	344
Dimensions (length, width, height)	cm	180*100*100	185*122*122	185*142*142
Damper dimensions	cm	205*100*100	210*122*122	210*142*142
Outlet channel dimensions	cm	55*30	74*35	90*45
Flue diameter	cm	25	25	25
Outlet airflow	M3/h			45000
Heat transfer surfaces	M2	7.5	9	13.5
Maximum thermal power	Kcal	150000	220000	250000
Electric motor fan	KW	0.75	1	1.5
Fan diameter	cm	80	100	120
Belt		B57	B79	B89
Covered space	M2	1000-4000	1500-5000	2000-6000



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KG Heater Series Structure

- KG140 Heater has a warm galvanized body coated with electrostatic powder paint with protective and optical resistance.
- Other parts include multi-layer heat exchanger, pressed and detachable connections, axial fan and automatic damper.
- The combustion chamber is made of stainless steel.
- For safe and easy movement, the heater is equipped with a hook.
- KG heater is produced in two models (with damper, without damper) that are chosen based on different usages.

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KG Heater Series Control

- The burner can be turned off through control panels.
- The KG heating can be controlled through furnace and exhaust air temperature sensors.
- The electrical and mechanical panel is equipped with several temperatures, pressure voltage and emergency thermo-switch sensors that guarantee the correct operation and safety of the heater.
- By turning off the burner, the fan can be adjusted directly and used for continuous ventilation of the hall.

Phase charge control	Phase-load control is used to control the voltage level and phase order of the input power, as well as to protect the electric motor and prevent the mixing of thermal current and electrical overload	
Miniature fuse	Suitable miniature fuses are used to protect the machine from electric short circuit and current increase	
Mode choosing switch	Using zero and one keys to start the fan independently when you need to ventilate the place without heating	
Mechanical frame, start/stop	There are different ways for single-phase and three-phase AC and DC motors initiation and control. The simplest way to initiate this kind of motors is utilizing mechanical frame, start/stop and command circuit	
12A contactor	Contactor is used for controlling different charges including electromotors, circuits and other electrical equipment	

Glass relay	This machine like the contactor is a unit in which by utilizing the magnetism, some contacts connect and disconnect to each other. By this difference that it can't bear high-power circuit and is used in command circuit	
Analog thermostat	For burner flame control and turning on and off the fan	
Automatic damper	Automatic coupling dampers has been used in machine's fan. Opening and closing convenience, lowest friction by the exhaust air, prevention of hot air movement to the outside of the hall while heater is off, prevention of dust entrance and cold air of outside and animals into the hall while the heater is off. these are the most important advantages of automatic dampers	
Automatic centrifugal system	Designed to open the damper automatically when the fan is energized and to close it by gravity	

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