INSTALLATION INSTRUCTIONS

EKR 25-2



Exhaust air system for the ventilation of commercial kitchens

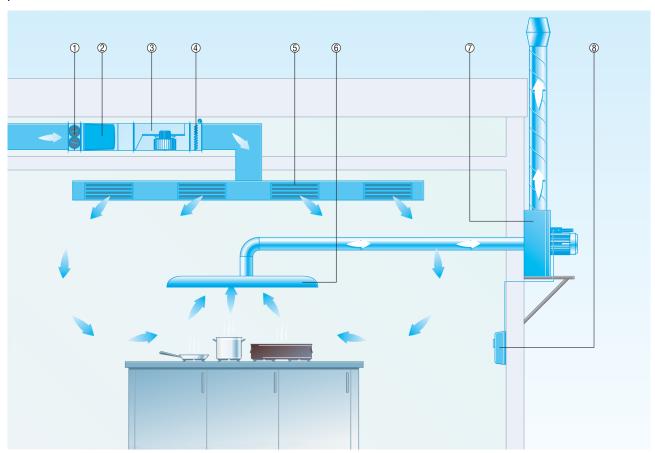
Hygiene and health and safety at work are all closely associated with the correct operation of cooker extraction equipment. Range hoods that are installed in commercial kitchens can get clogged with grease very quickly if they are not maintained correctly. The deposits that are formed on hoods, filters, exhaust air ducts and fans constitute a fire hazard.

Hoods, filters and exhaust air ducts can be cleaned relatively easily. Cleaning very dirty air extraction fans, especially the impellers can be very difficult. In most cases, the only solution is to replace with new equipment.

For just such problem areas, MAICO offers robust air extraction fans for use in kitchens. These units are specifically designed for operation with hot and contaminated exhaust air.

In the example shown, supply air is brought into the commercial kitchen using a supply air system consisting of DPK duct fans, TRP air filters and WHP air heaters.

An exhaust air system around the EKR or EKR FU exhaust air box extracts the air through the cooker range hood and transports it to the outside.



- ① AKP Channel shutter
- ② TFP Air filter
- ③ DPK Duct fan for supply air
- WHP Water air heater
- ⑤ LGA, LGZ internal grilles
- @ range hood
- ② EKR or EKR FU exhaust air box
- ® Controller

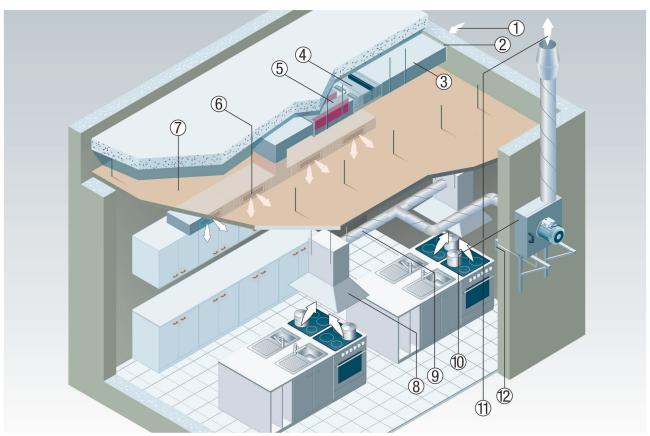
Ventilation and air extraction of large kitchen using channel fan and kitchen exhaust air box

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- In situations where there is little space available for the ventilation system, the DPK EC and DSK EC (sound-insulated) duct fans are ideal for installing in suspended ceilings, for example. Its low mounting height means that it fits easily in suspended ceilings. This allows the ventilation ducts to be fitted with ease.
- And the EKR-2 kitchen exhaust air box is the right choice of fan for places where hot and greasy air needs extracting from large kitchens in commerce or schools. The external motor, which is therefore not in the air flow, is not sensitive to hot, greasy or contaminated air flows.
- In the example shown, a channel fan is supplying a kitchen with supply air.
- Air filter, sound absorber and electric air heater round off the supply air pipe. The supply air is blown in close to the ceiling and spread throughout the room.
- The exhaust air is extracted by range hoods above the cooking areas. The air inlets and air outlets are distributed such that the room receives optimum cross-ventilation. The EKR-2 kitchen exhaust air box then removes the outgoing air outdoors via a duct system. The volume of air extracted by the kitchen exhaust air box can be set using a control unit as necessary.



- ① Outside air
- ② External grille
- ③ Channel system supply air
- Channel fan DPK EC / DSK EC (sound-insulated)
- S KSP channel sound insulation
- Supply air opening
- 3 suspended ceiling
- ® range hood
- ® EKR-2 kitchen exhaust air box
- Exhaust air
- Control for supply and exhaust air