Service: Ductwork Cleaning

Clean ductwork contributes to continuous separation efficiency and frequently reduces the risk of fire.

Fast, professional cleaning of ductwork ensures system efficiency

If efficiency is low, contaminated ductwork can be the reason. Adhesives and humid substances easily adhere to ductwork walls. This is particularly true if the air flow inside the duct is too low, if the ductwork was incorrectly dimensioned, or if there was inadequate maintenance.

Keller Service Technicians sometimes encounter entirely clogged ductwork. This may present a very high fire risk for combustible materials. There is an added risk that the ductwork cannot withstand the weight and collapses.

Prior to cleaning

After cleaning

Getting an insight into the interior of the ductwork by endoscopes

Cleaning by experts

In the past we merely pointed out such flaws. Customers then entrusted the task to cleaning companies or managed the issue themselves. This involved dismantling the ductwork, cleaning it on the plant floor, followed by re-assembly beneath the plant ceiling - a complicated effort.

In order to provide fast and safe ductwork cleaning service, Keller negotiated a partnership with a company who specialize in the cleaning of suction and ventilation channels. Their experts utilize electronically or air-driven brushes which are inserted into the ductwork assembly. Brass chains might be used in cases of extreme contamination. Dismantling of ductwork components is rarely required. However, this may be necessary for hard to reach areas.

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Before & After photo documentation

In order to document the condition of the ductwork prior to and after the cleaning, e. g., as verification for authorities, the specialists can go through the interior of the ductwork using a camera.

Prior to cleaning

After cleaning

Robot cams help getting an insight into sections which otherwise would not be visible

Keller Lufttechnik is your contact

Customers who wish to benefit from this service can rely on Keller Lufttechnik. We will arrange the scheduling and handling with the experts.

Practical examples

Explosive dust	Potentially explosive sediments such as aluminum grinding dust can pose a high risk of fire and explosion if a spark is introduced. To ensure the safety of personnel and the system, this sediment is removed using soft brushes.
Oily residue	Oily fumes and aerosols from coolant treatment can adhere to the inside walls to form a very viscous layer. A cleaning agent is applied which liquefies the oily buildup. The ducts can then be cleaned using rotating brushes without any problem.
Heavy-duty contaminants	In some instances, such as polishing, very heavy duty deposits are formed. The reduced diameter of the ductwork will reduce separation efficiency. In these instances brass chains are used to avoid creating sparks and damaging the walls. The rotating chains dislodge larger pieces deposited inside the walls of the ductwork, which are then extracted by the air filtration system.

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