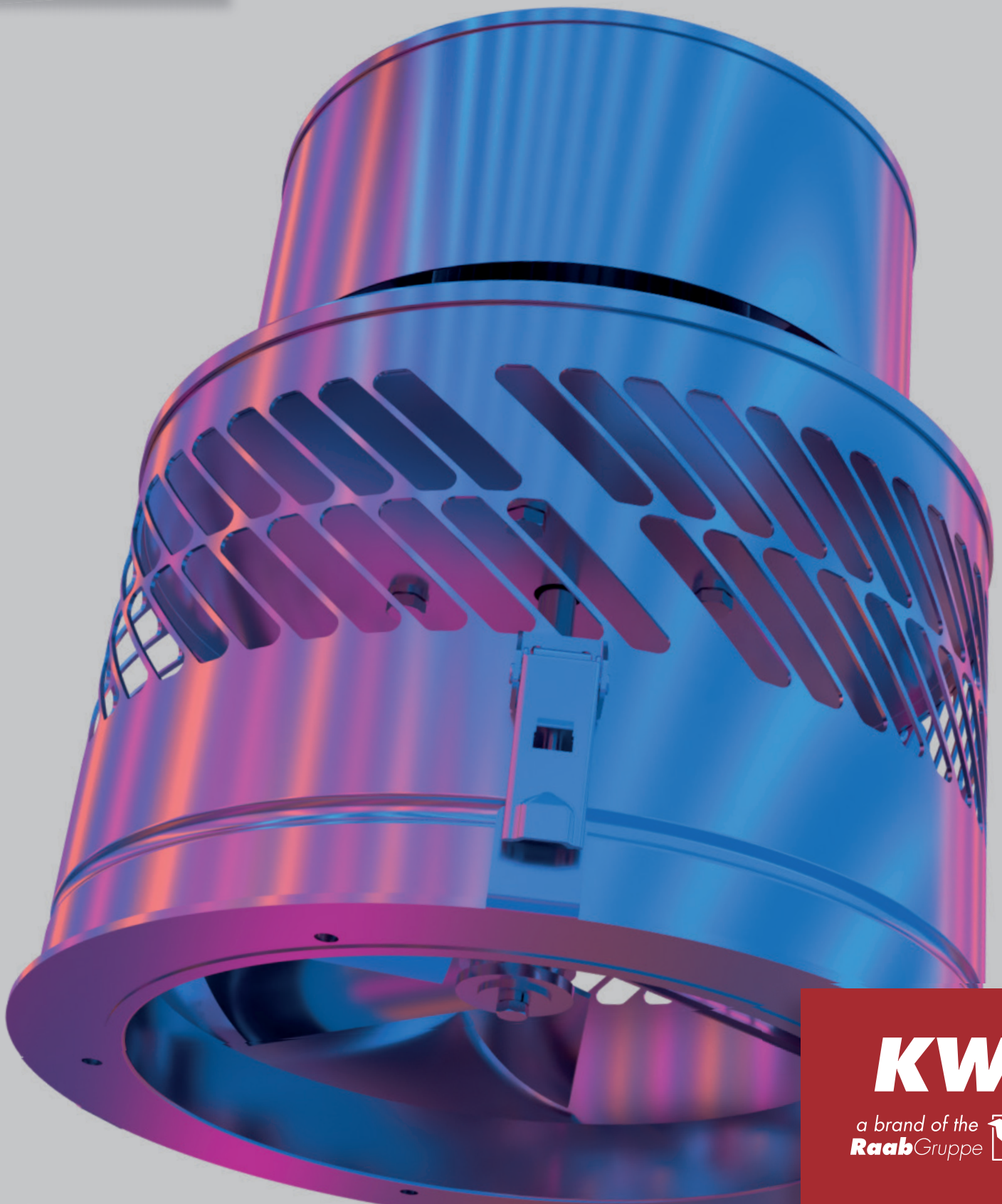


DIAJEKT®

The powerful chimney fan

PRODUCT SHEET



KW

a brand of the
Raab Gruppe



DIAJEKT®

Draught problems can occur in the chimney due to unfavourable weather conditions, suboptimal positioning of the chimney, a cold flue gas system during start-up or incorrect design of the flue gas system. In this case, the flue gases are not reliably transported away and affect the operational safety of the flue gas system and the fireplace. In addition, emissions and heating costs increase due to insufficient chimney draught.

If the natural draught is too weak for the reasons mentioned above, the chimney fan Diajekt ensures a reliable and optimal draught in the chimney, which facilitates the lighting of the fireplace or, in extreme cases, makes it possible in the first place. The constant negative pressure in the flue gas system improves combustion, which leads to fewer emissions and lower fuel consumption. Flue gas systems and chimneys must be designed in such a way that the negative pressure required for safe flue gas discharge is always present. This makes the diajekt a safety-relevant component that enables safe acceptance by the chimney sweep in the event of draught problems.

MODE OF OPERATION

The Diajekt chimney fan is particularly suitable for fireplaces with negative pressure in the flue gas system. These can be so-called natural draught fireplaces, for example solid fuel stoves and boilers, but also fireplaces with sensitive requirements for a stable negative pressure, for example baking ovens, vapour extractors, etc. In the case of multiple occupancy, for example with gas fireplaces, it is an effective component within the flue gas system for reducing emissions and increasing operational safety. The Diajekt chimney fan can also be used for oil and gas fireplaces in case of technical or weather-related draught problems. The Diajekt is also suitable for use in ventilation systems.

The Diajekt is mounted on the chimney mouth and produces a diagonal ejection of the flue gas due to the special arrangement of the impeller blades and the arrangement of the outlet openings. When the flue gas system is at operating temperature, the chimney fan can be switched off depending on the system. The pressure loss is very low and is in the range of a conventional rain bonnet. The design of the Diajekt offers significant advantages over other systems.

INSTALLATION

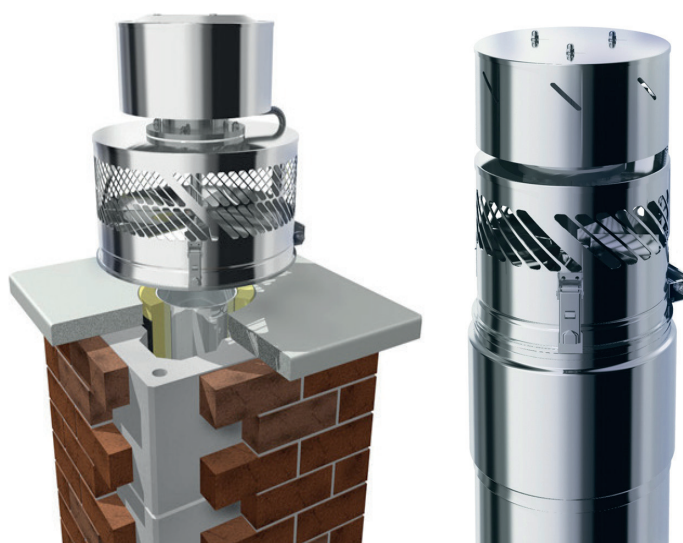
Universal fastening on the brick chimney head by means of the square screw plate.

Adaptation to all common stainless steel systems is possible by means of a plug-in adapter (see accessories below).



ADVANTAGES

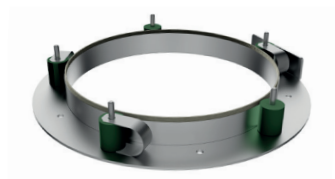
- ✓ Chimney fan operation only when required. Can also be switched off when the fireplace is in operation, thus minimising the use of auxiliary energy.
- ✓ The special design of the Diajekt ensures that the flue gas flows out freely when the appliance is at a standstill.
- ✓ Low-maintenance and durable, as all electrical components are located outside the aggressive and hot flue gases.
- ✓ Quick-release fasteners on the housing ensure quick and easy maintenance and cleaning, no more screws that can get lost.
- ✓ High stability through the use of plug-in adapters for round flue gas systems or direct screwing onto the chimney head.
- ✓ Visually, the unique design blends seamlessly into the stainless steel chimney system.
- ✓ Despite its high performance, the Diajekt is very quiet in operation and comparatively economical in energy consumption.
- ✓ Easy to transport



ACCESSORIES



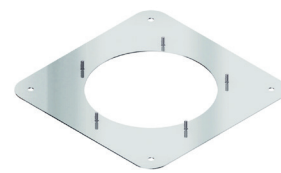
Slide-in adapter



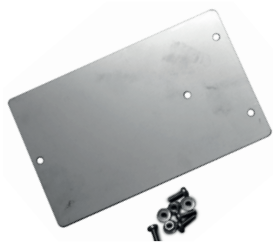
Vibration damper



Rain collar



Rain collar



Holding plate



Metal protection hose extension



Step controller



Control CFC 10



Pressure control CFC 5



Extension box CE 20



Maintenance switch



Speed controller

SOUND LEVELS

Unit sound power (DIN EN ISO 3744) ^{1,2,3}									
Designation	L _w (dB)							L _w dB (A) Total level	L _p dB (A) Total level
	125 Hz	250 Hz	500 Hz	1,000 Hz	2,000 Hz	4,000 Hz	8,000 Hz		
RSD 150 S	51.7	50.6	51.3	51.7	46.8	50.6	31.7	55.0	24.0
RSD 150	59.2	58.7	60.3	59.2	54.8	45.8	37.8	63.0	32.0
RSD 250 S	55.0	56.5	57.0	57.1	56.1	45.3	38.5	61.5	30.5
RSD 250	70.9	70.6	69.9	70.2	67.8	59.9	52.0	74.2	43.2
RSD 350	80.8	79.1	78.6	77.9	75.0	67.7	61.9	82.1	51.1

Channel sound power (DIN EN ISO 5136) ^{1,2,3}									
Designation	L _w (dB)							L _w dB (A) Total level	L _p dB (A) Total level
	125 Hz	250 Hz	500 Hz	1,000 Hz	2,000 Hz	4,000 Hz	8,000 Hz		
RSD 150 S	65.0	58.3	51.7	44.0	35.2	28.2	12.5	54.2	23.2
RSD 150	69.2	63.3	59.1	50.4	40.6	32.6	22.0	60.4	29.4
RSD 250 S	67.4	61.6	55.3	52.4	46.2	36.5	24.4	59.2	28.2
RSD 250	81.8	75.2	67.7	62.3	56.6	51.7	41.2	71.1	40.1
RSD 350	89.3	81.4	72.5	70.6	67.0	59.7	51.4	78.2	47.2

¹⁾ L_w = Sound power dB · ²⁾ L_p = Sound pressure level dB (A) at a distance of 10 m · ³⁾ Errors and technical modifications excepted

TECHNICAL DATA



- ✓ Completely made of stainless steel (except motor)
- ✓ Single and multi-family houses
- ✓ Available in three output classes
- ✓ Universal mounting on brick chimney heads
- ✓ Adaptation to all common stainless steel systems by means of slide-in adapter
- ✓ Voltage: 230 V 50 Hz, cable length approx. 2.50 m
- ✓ Diagonal ejection
- ✓ Maximum flue gas temperature 300 °C

Diajekt® – suitable for all systems

Designation	Item no.	Nominal width [mm]	Power [W]	Negative pressure [Pa]	Flow rate [m³/h]	Height [mm]	Weight [kg]
RSD 150	2002443	150	45	71	332	332	8.3
RSD 250	2002444	250	115	120	1,362	384	13.6
RSD 350	2002445	350	350	180	2,928	445	24.5



- ✓ Diajekt Silence available in 2 performance classes
- ✓ Very quiet operation
- ✓ Particularly suitable for single installations
- ✓ For open fireplaces
- ✓ New fan wheel design
- ✓ Adapted in performance
- ✓ Voltage: 230 V 50 Hz, cable length approx. 2.50 m
- ✓ Diagonal ejection
- ✓ Maximum flue gas temperature 300 °C

Diajekt® S – suitable for all systems

Designation	Item no.	Nominal width [mm]	Power [W]	Negative pressure [Pa]	Flow rate [m³/h]	Height [mm]	Weight [kg]
RSD 150 S	2000741	150	40	43	249	332	8
RSD 250 S	2000710	250	68	53	459	384	12.8