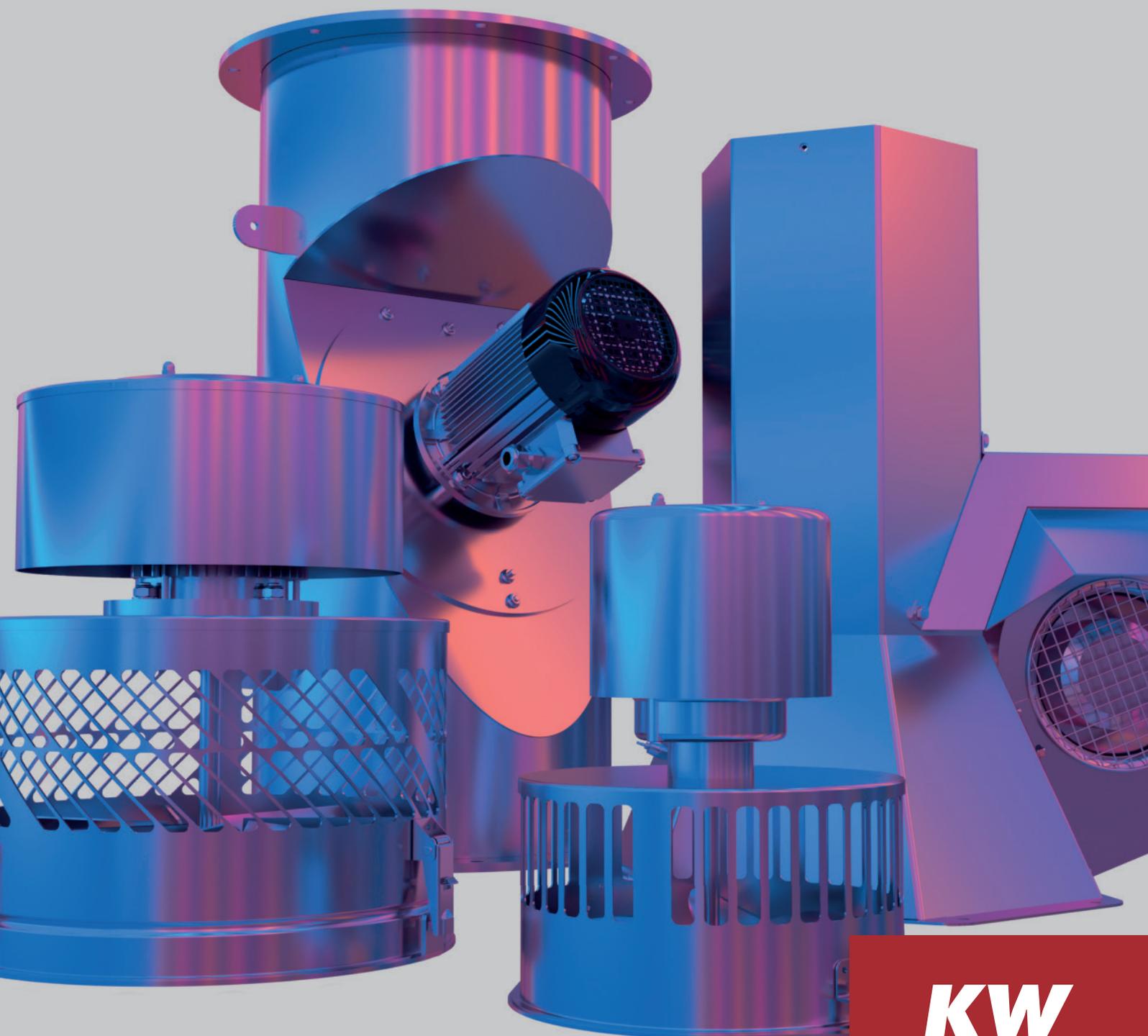


# CHIMNEY FANS

For improved draught conditions

PRODUCT SHEET



**KW**

a brand of the  
**Raab** Gruppe 

# CHIMNEY FANS

## THE PRINCIPLE

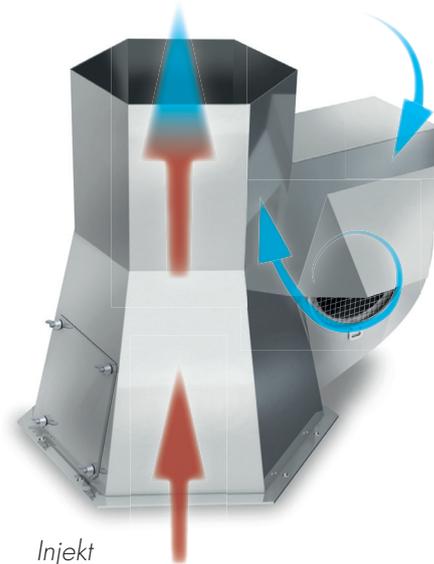
Draught problems can occur in the chimney due to unfavourable weather conditions, suboptimal positioning of the chimney, a cold flue gas system during start-up or incorrect design of the flue gas system. In this case, the flue gases are not reliably transported away and affect the operational safety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

Our chimney fans **AirSpeedy®**, **Diajekt®** and **Injekt®** for detached houses and apartment buildings are mounted on the chimney mouth and create an optimal chimney draught through their suction effect, even with a cold chimney. When the flue gas system is at operating temperature, the chimney fan is switched off automatically or manually, depending on the design.

The powerful and universally applicable **Linejekt®** industrial fan was developed for use in industry. It ensures that there is a constant chimney draught in production processes at any time of the year, or one that is adapted to the respective production process. It also reliably ensures the extraction of process air. Conventional chimneys or exhaust air shafts cannot reliably manage this due to changing weather conditions or modulating and variable processes. The units can be installed in both horizontal and vertical positions. The units can also be used both indoors and outdoors (note protection class).



*Diajekt*



*Injekt*



*Linejekt*

## AREAS OF APPLICATION

- ✓ For all systems in industry and commerce
- ✓ Single and multi-family houses
- ✓ Suitable for all fuels and heat generators
- ✓ Can be mounted on all chimneys and flue gas systems
- ✓ Wide range of output and delivery volume
- ✓ Wide range of accessories for individual adaptation and simple control



*Diajekt on a single-family house*



*Linejekt in an industrial plant*

# CHIMNEY FAN MODELS

## AIRSPEDY®

The AirSpeedy was specially developed for stoves and heating inserts in the low output range up to 8 kW.

It is used for targeted draught support, e.g. in the heating-up phase, when adding wood, in certain weather conditions or wind influences or simply when the chimney height is too low. In this way, it increases the heating comfort, as the back-smoking or sooting of windows can be significantly reduced. The AirSpeedy can also be an intelligent solution for small ventilation tasks such as bathroom or W/C ventilation. For fully automatic or manual speed control, the Diajekt and Injekt models are available with extensive accessories.



## Diajekt® (S)

The powerful Diajekt is reliable and efficient at extracting flue gases as well as exhaust air. It is convincing in industrial and commercial facilities. Its attractive design, however, also predestines it for single-family homes and systems that catch the eye. The Diajekt is suitable for non-corrosive flue gases and heat generators in the area of flue gas systems. It can be mounted on all common stainless steel systems as well as on brick chimneys with an adapter. Like the Injekt, the Diajekt can be switched on as required. The Diajekt S was developed for particularly quiet operation!



## Injekt®

The Injekt is used to increase the negative pressure in the flue gas system with an always open cross-section. It functions according to the injector principle without cross-section-constricting installations, which makes it possible for the chimney sweep to clean the chimney without any further work steps. The fan and electrical drive parts are not located in the flue gas flow. In addition, it can be switched on and off as required. The stainless steel housing is available with two different surfaces: natural stainless steel and black powder-coated stainless steel.



## Linejekt®

The Linejekt industrial fan was specially developed for commercial and industrial applications, for example in process technology, for discharging large exhaust air and waste gas volume flows.

The fan is offered in various sizes from DN 250 to DN 800 and moves air volumes of up to 17,400 m<sup>3</sup>/h. The units are optionally equipped with a single-phase 230 V motor or with a 3-phase motor for control by means of a frequency converter. All units are infinitely variable and can be optionally combined with our control systems or on-site MSR systems. Depending on the structural conditions, the units can be installed both in the factory hall and outdoors.



# TECHNICAL DATA



	AirSpeedy®	Diajekt®	Diajekt® S	Injekt®	Linejekt®
Nominal width [mm]	100–220	150–350	150–250	100–250	250–800
Nominal width extended by accessories [mm]	–	130–350	130–250	130–300	–
Power [W]	35	45–350	40–68	170–270	250–7.740
Max. negative pressure [Pa]	40	71–180	43–53	50–80	475–1.400
Volume flow [m <sup>3</sup> /h]	196	332–2.928	249–459	383–599	830–17.400
Overall height [mm]	272	332–445	332–384	400–700	590–1.250
Weight [kg]	5,6	8,3–24,5	8–12,8	8–12	13,2–198
Max. Flue gas temperature [°C]	250	300	300	400	400
Preferred range of application	<ul style="list-style-type: none"> <li>• Heating aid for wood-burning stoves (not speed-controllable)</li> </ul>	<ul style="list-style-type: none"> <li>• For fireplaces of all types</li> <li>• For industry and commerce</li> </ul>	<ul style="list-style-type: none"> <li>• Noise-sensitive applications</li> <li>• For open fireplaces of all types</li> </ul>	<ul style="list-style-type: none"> <li>• Contamination-sensitive applications with absolutely free chimney outlet</li> </ul>	<ul style="list-style-type: none"> <li>• For industry and commerce</li> <li>• Ideal for high power requirements</li> </ul>

## Insertion adapter

✓ Diajekt ✓ Injekt



## Control CFC 10

✓ Diajekt ✓ Injekt  
✓ Linejekt



## Step regulator

✓ Diajekt ✓ Injekt



## Square screw plate

✓ Diajekt



## Extension box CE 20

✓ Diajekt ✓ Injekt  
✓ Linejekt



## Frequency converter + remote control

✓ Diajekt ✓ Injekt  
✓ Linejekt



## Vibration damper

✓ Diajekt ✓ Injekt



## Pressure control CFC 5

✓ Diajekt ✓ Injekt  
✓ Linejekt 250 230 V



## Impact sound silencers

✓ Linejekt



## Rain cap/ Weather protection

✓ Diajekt ✓ Injekt  
✓ Linejekt



## Speed controller

✓ Diajekt ✓ Injekt  
✓ Linejekt



## Set for wall/ceiling mounting

✓ Linejekt



## Metal protective tube extension set

✓ Diajekt



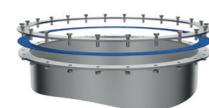
## Maintenance switch

✓ Diajekt ✓ Injekt  
✓ Linejekt



## Flange set

✓ Linejekt



## Silencer AGM/TTS

✓ Diajekt ✓ Injekt  
✓ Linejekt



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