

# Systemair circular duct fans

For reliable, safe and easy installations  
– always insist on Systemair duct fans

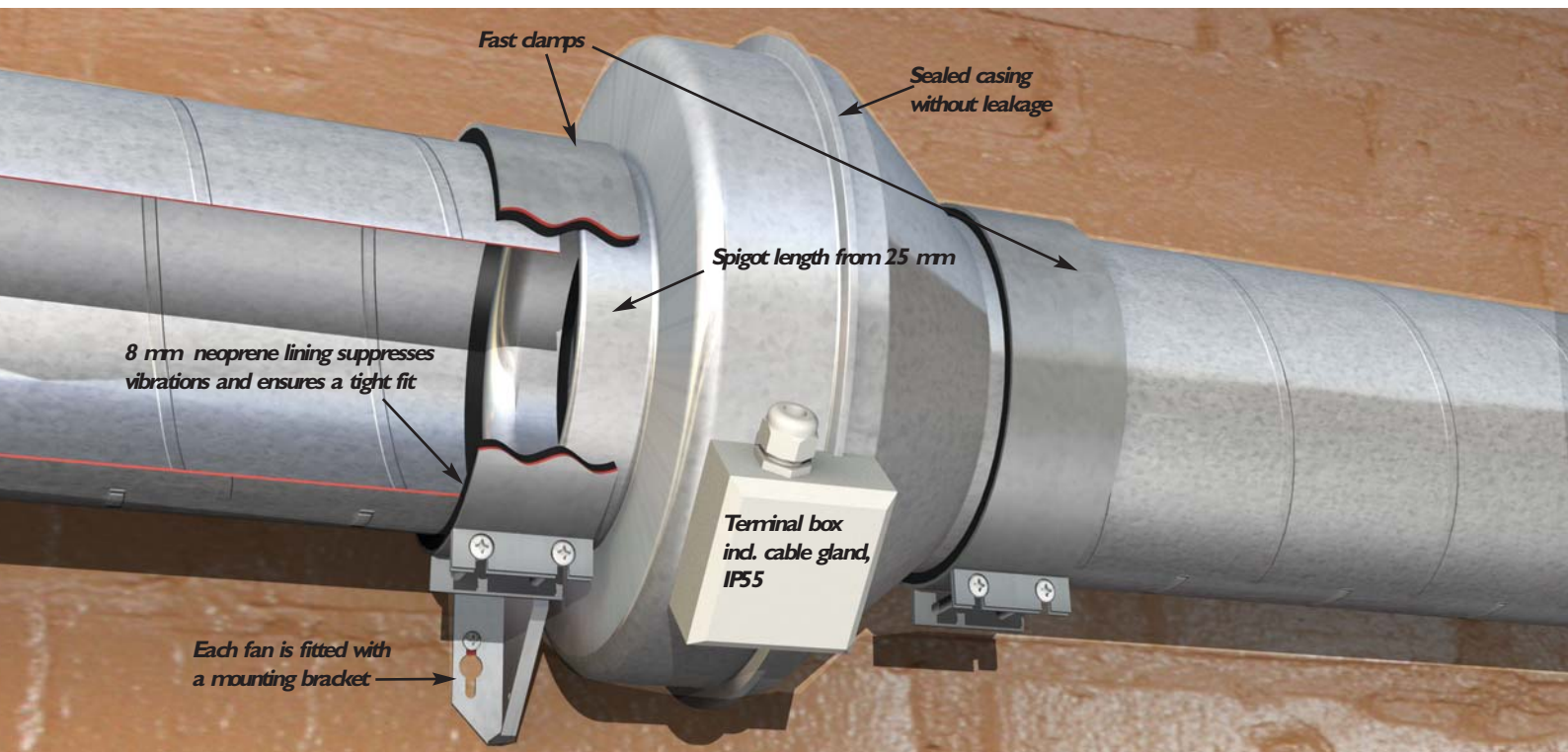
**KD 250-500**



**K100-315**



# For reliable, safe and easy installations – always insist on Systemair duct fans



## We have set new standards for

- Reliability
- Air tightness
- Performance
- Installation

## Systemair K-fan – easy to install, problem free operation

Our duct fans have always been incredibly reliable. There are still fans around that have operated for 25-30 years without stopping for a moment.

right performance – no more, no less. We give a three year guarantee.

### Absolutely airtight

We have created a totally new production method and the result is an airtight casing. The fan meets leakage demands according to tightness class C in EN 12237. The low noise-level has been further reduced.

The FK mounting clamp facilitates easy installation and removal, and prevents the transfer of vibration to the duct.

### Our fans meet the EU-standard

For diameters 63 to 315 mm the European Standard EN 1506:1997 stipulates a spigot length of minimum 25 mm. Systemair is today one of the few manufacturers to fulfil this standard, especially for fans with connection diameter 100-125 mm.

The fan has a thermal contact with electrical reset in accordance with EN 60335-2-80. The Systemair K-fan is today an optimized product with exactly the

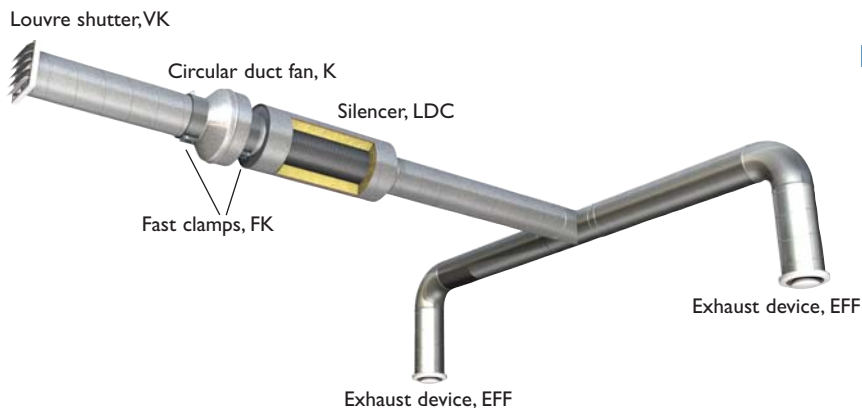
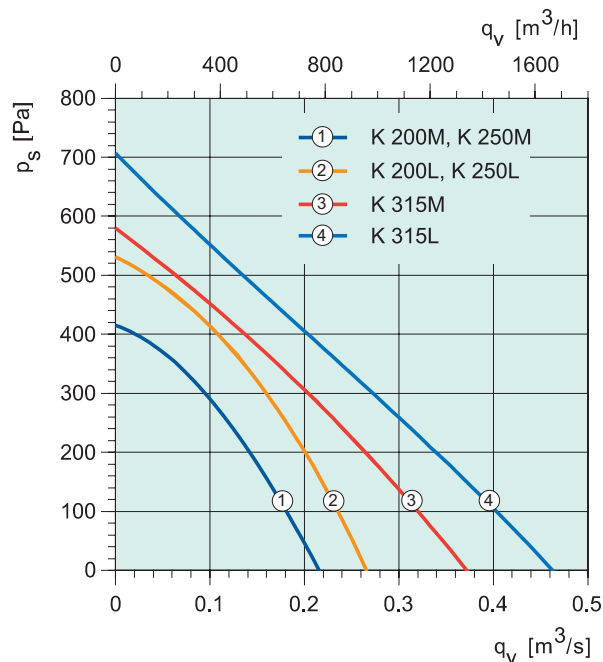
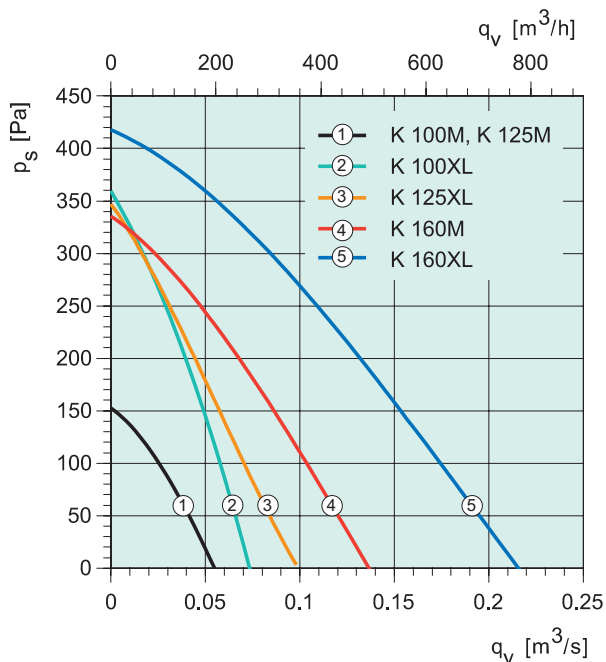
### Benefits:

- The fan is fitted with a mounting bracket, suitable for quick and easy wall or ceiling installation.
- Easy to get vibration free connection to the duct thanks to the long spigot and the special designed fast clamp FK.
- Speed controllable with transformer or thyristor.
- The casing is so tight that the fan can be used in wet environments and even outdoors. (Terminal box, IP55 with an IP68 rated M 20 cable gland).
- Three year guarantee.
- Min. 25 mm spigots.

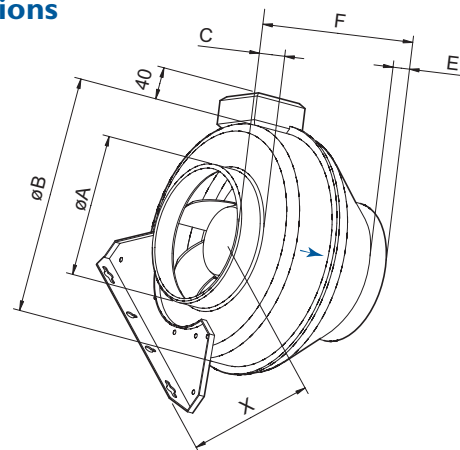


Systemair duct fans are delivered with the bracket mounted and the cable gland included

# Systemair K-fan – compact inline fan



## Dimensions



## Quick selection

Air flow, m<sup>3</sup>/h at static pressure, Pa

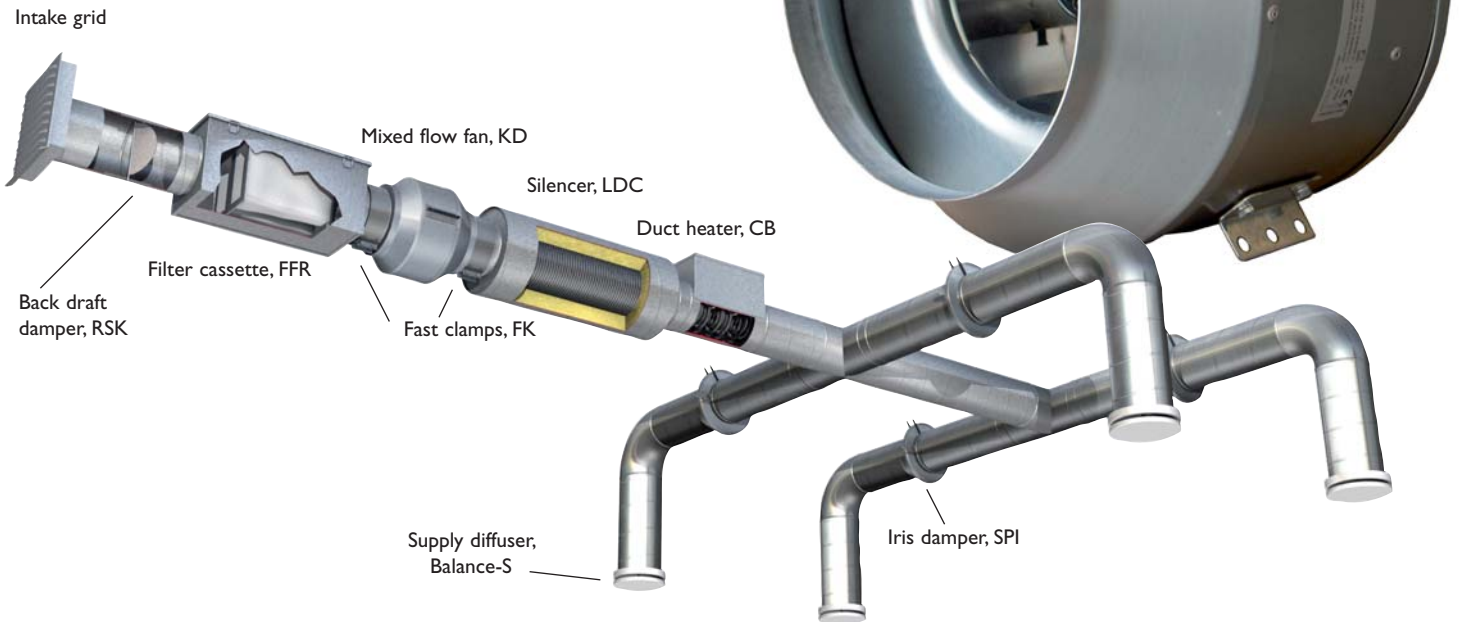
	50	100	150	200	250	300
K 100 M	135	80	-	-	-	-
K 100 XL	235	205	175	145	105	60
K 125 M	155	100	30	-	-	-
K 125 XL	305	255	205	160	115	60
K 160 M	435	370	305	245	175	75
K 160 XL	705	630	545	470	390	305
K 200 M	715	650	580	510	435	345
K 200 L	905	845	780	710	635	550
K 250 M	705	630	550	465	380	290
K 250 L	905	845	780	720	655	580
K 315 M	1175	1105	1025	945	860	770
K 315 L	1640	1550	1440	1315	1195	1070

Type	øA	øB	C	E	F	X
<b>M/XL</b>						
100	100	218/246	26	26	218/213	112/124
125	125	218/246	27/26	27/26	196/203	112/124
150	150	286/336	25/29	25/26	202/226	148/174
160	160	286/336	25/29	26	198/221	148/174
<b>M/L</b>						
200	200	336	30	27	205/231	184
250	250	336	30	27	177/202	184
315	315	408	32/38	27	220/225	222

## Accessories for the smart ventilation solutions:



# KD – for larger air volumes



## Range 250 - 500 mm

- Compact design
- High capacity
- Low noise

### Mixed flow fan

The KD fan is quite simply a continuation of the K-fan and designed to handle larger air volumes. Because of the relationship between pressure and air flow of radial fans with backward-curved blades, this fan type is not suitable for circular duct fans above diameter 315 mm.

KD is a mixed flow fan, i.e. the fan impeller is a combination between a radial and an axial impeller. It gives considerably more airflow than radial fans and is the best fan impeller type for 315-500 mm ducting. The possibilities for tailor made total solutions is as easy with KD-fans as with K-fans.

The KD fan is for instance suitable to use for both supply and extract air systems with large air volumes and medium pressures.

### Easy installation and removal

Brackets are supplied with the fans to make installation easier. The FK mounting clamp facilitates easy installation and removal, and prevents the transfer of vibration to the duct.

To protect the motor from overheating the KD fans have integral thermal contacts with leads for connection to a motor protection device.



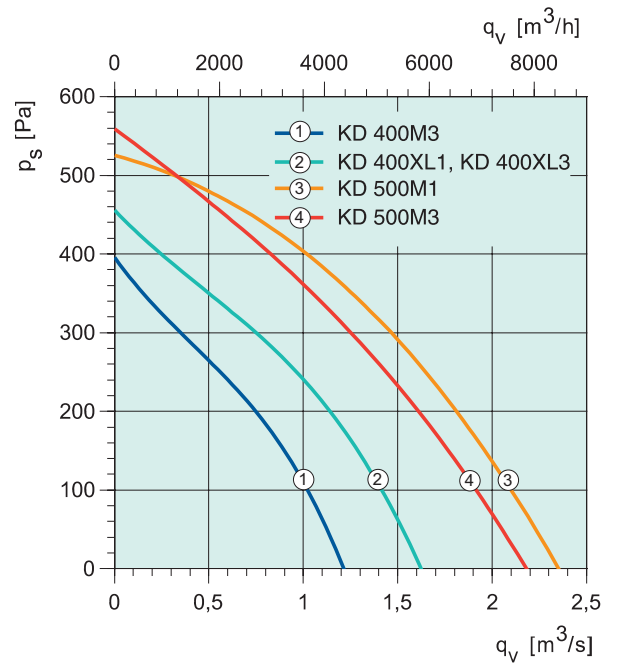
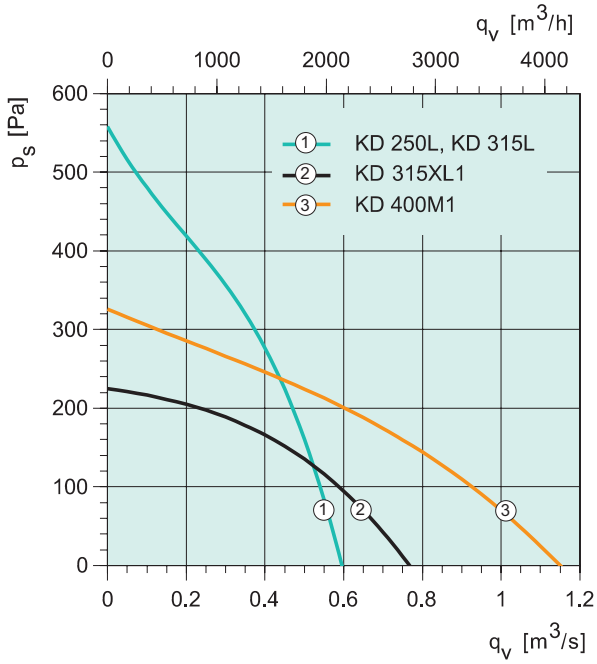
### About the external rotor motor

An external motor is essentially constructed like a normal non-synchronous motor, with one difference: the stator and the rotor have swapped places. The stator with its windings is at the centre of the motor, while the rotor is located in the casing itself. The motor shaft (connected to the rotor) turns on sealed ball bearings inside the stator, and the impeller or fan blades are fitted to the rotor casing. With its design, the motor and fan form a compact unit at the centre of the air stream.

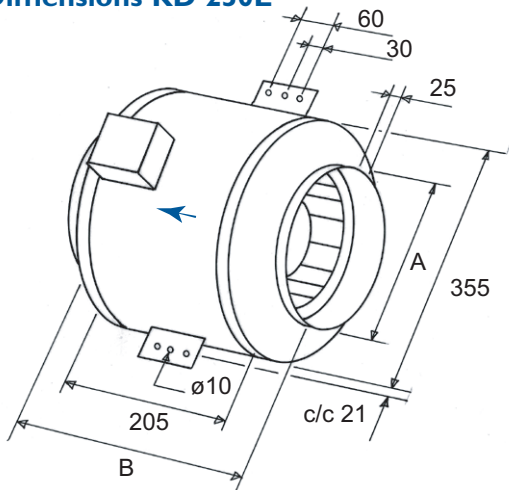
Because the external motor's unique construction allows it to be cooled by the transported air, the motor speed can be controlled by voltage regulation.



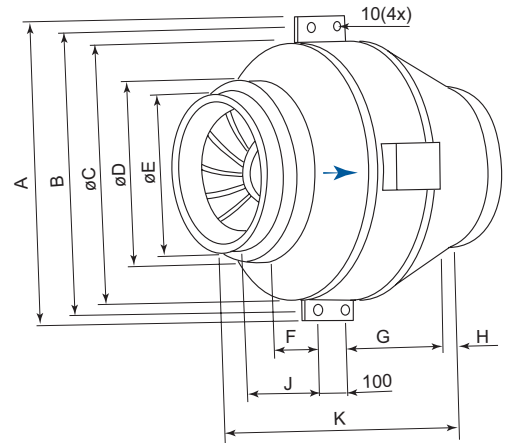
# KD – for larger air volumes



## Dimensions KD 250L



## Dimensions KD 315-500



## Quick selection

	Air flow, m <sup>3</sup> /h at static pressure, Pa					
	50	100	150	200	250	300
KD 250 L	1870	1765	1650	1525	1380	1205
KD 315 L	2050	1950	1830	1680	1520	1335
KD 315 XLI	2470	2115	1640	825	-	-
KD 400 MI	3760	3325	2855	2230	1310	825
KD 400 M3	4025	3675	3255	2761	1905	1135
KD 400 XLI	5485	5090	4640	4105	3490	2700
KD 400 XL3	5615	5255	4805	4250	3515	2630
KD 500 MI	8030	7480	6945	6395	5865	5300
KD 500 M3	7400	6900	6395	5790	5180	4475

	250/315L	315XL	400 MI/M3	400 XLI/400XL3	500 MI/M3
A	385/305	540	590	662	758
B	250/315	518	568	625	721
øC		455	503	560	663
øD		355	400	450	500
øE		315	355	400	450
F		75	99	136	163
G		167	142	228	268
H		48	40	43	46
J		140	159	193	235
K		484	480	601,5	642

## Accessories for the smart ventilation solutions:

