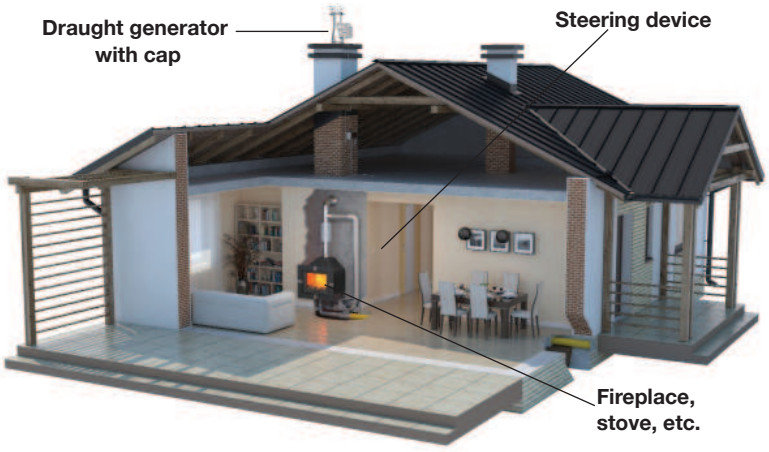
Picture

CE

Function principle



Description

DRAUGHT GENERATOR is a chimney fan that is is to be mounted on the top of a chimney (flue or smoke*). Its principle is to increase and stabilize chimney draught no matter of what the chimney height, wind speed or other natural conditions are. Draught generator creates underpressure in the chimney duct using a special physical effect - called injection. It is based on creating the stream of airflow in the secondary duct, which creates underpressure in the main chimney duct. Air movement is caused by ventilator which is placed outside the duct.

This working mode does not block the chimney duct and does not obstruct the fume extraction as well as allows the device to withstand high temperatures.

Maximal fumes temperature: 400 [°C]
Power: 230[V] / 50 [Hz]

This solution is reserved in the RP Patent Office

Destination

- when there are wind fluctuations on the chimney duct ending, caused by its bad location
- when there is an unfavorable terrain configuration, with strong and frequent winds
- when there is a lack of chimney draught or it is too weak (f.e. when the chimney duct is too short)
- in order to stabilize and improve the chimney draught in a fireplace or boiler*
- protects the chimney duct from rain or snow

Lp	Technical data	Value	
		Ø 150	Ø 200
1	Max. underpressure [Pa]	43	30
2	Max. efficiency [m³/h]	300	400
3	Single phase voltage [V/Hz]	230/50	230/50
4	Power [W]	105	160
5	Protection level	IP34	IP34
6	Ambient temperature range [°C]	-30 ÷ 65	-30 ÷ 65
7	Max. working temp. [°C]	400	400

Denotations / product codes

GCKD x - d

- d — base version
- x — diameter
- GCKD — draught generator with cap

Materials

Destination	-	W - ventilation ducts
	S	S - gas and oil exhaust ducts
	D	D - smoke ducts*
Material	CH	CH - chrome-nickel sheet 1.4301

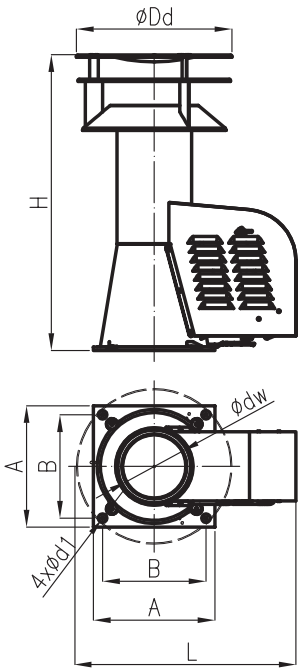
***CAUTION!** - Only smoke ducts from wood burning devices etc.

DRAUGHT GENERATOR WITH CAP

Draught generator - versions of bases

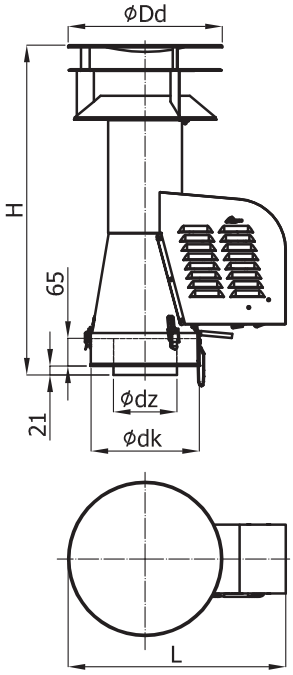
1. SQUARE BASE

STANDARD



2. BASE WITH INSULATION CLOSING

-B-K

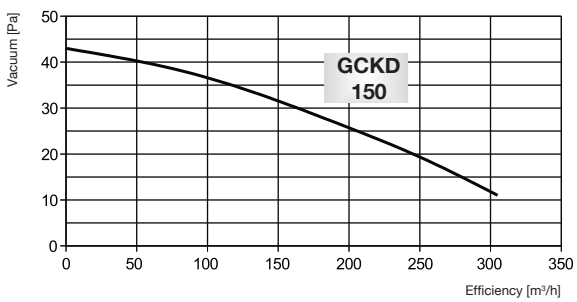


Measurements table for various inlet diameters

Ø 150		Dimensions [mm]										Weight [kg]
Lp	Base version	Dd	H	dz	dk	dw	A	B	L	d1	Amount n	CH
1	STANDARD	361	686	-	-	147	282	240	510	6.2	4	10.40
2	-B-K	361	770	149	253.3	-	-	-	510	-	-	10.60

Ø 200		Dimensions [mm]										Weight [kg]
Lp	Base version	Dd	H	dz	dk	dw	A	B	L	d1	Amount n	CH
1	STANDARD	448	790	-	-	197	342	290	579	6.2	4	13.00
2	-B-K	448	876	199	303	-	-	-	579	-	-	13.40

Airflow charts



Electrical diagram