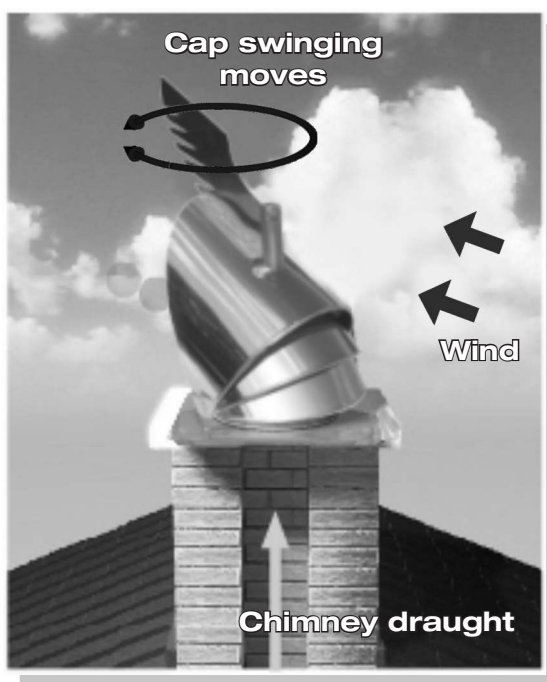


PICTURE



FUNCTION PRINCIPLE



DESCRIPTION

Self-adjusting chimney cowl Rotowent DRAGON is a device, which, in a dynamic way, uses force of the wind to increase chimney draught. The cap always places itself in the opposite direction to the wind no matter of its strength or direction.

It is to be mounted on gravitation based chimney ducts endings: ventilation, flue (gas, oil) and smoke. Thanks to the special, patented, rotating system with ball bearings placed outside the cap, it can withstand very high temperatures, which can be achieved in wood or coal burning stoves.

Maximal working temperature: 500 [°C]

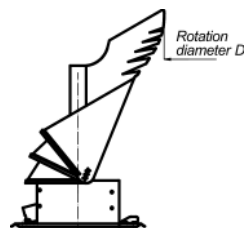
Rotation system: high temperature ball bearings

DESTINATION

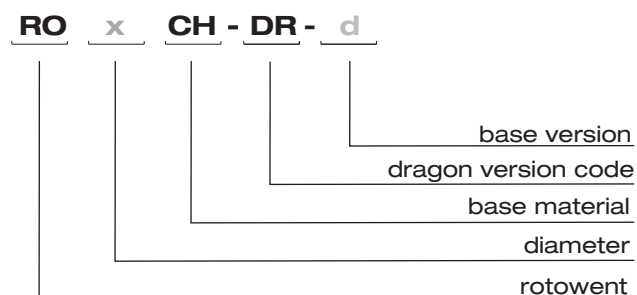
- when there are wind fluctuations on the chimney duct ending, caused by its bad location
- when there is an unfavorable terrain configuration, with strong and frequent winds
- when there is a lack of chimney draught or it is too weak
- in order to improve the natural (gravitation) ventilation, heating or smoke chimney draught

MEASUREMENTS

Diameter	Cap rotation diameter D [mm]
Ø150	~ 335
Ø200	~ 440
Ø250	~ 560
Ø300	~ 660



DENOTATIONS / PRODUCT CODES



MATERIALS

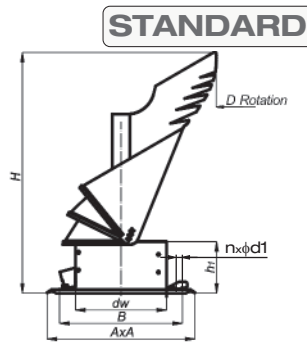
Destination	W	W - ventilation ducts
	S	S - gas and oil exhaust ducts
	D	D - smoke ducts
Base material	CH	CH - chrome - nickel sheet 1.4301
Cap material	*)	*) - chrome - nickel sheet 1.4404

Caution!

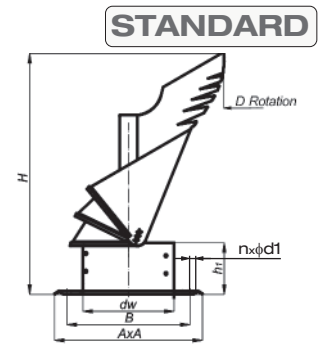
The cowl shouldn't be mounted on ducts exhausting fumes from stoves for low temperature fuels based on coal

ROTOWENT DRGAON - VERSIONS OF BASES

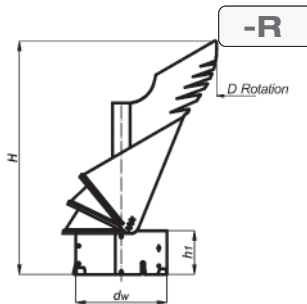
1. SQUARE BASE
Ø150 - Ø250



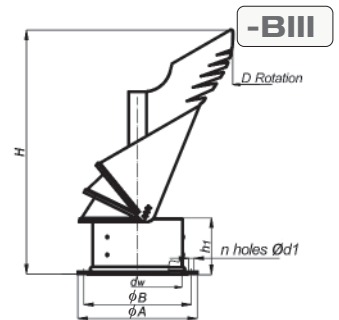
SQUARE BASEA
NOT OPENABLE Ø300



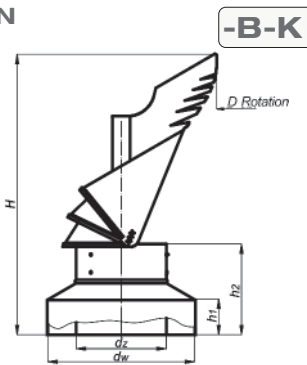
2. DISMOUNTABLE BASE



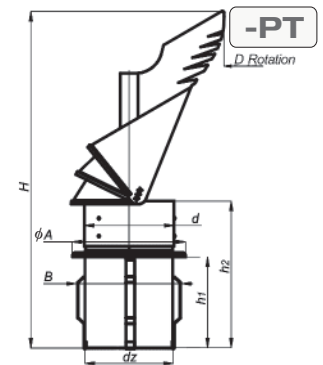
3. BASE WITH COLLAR



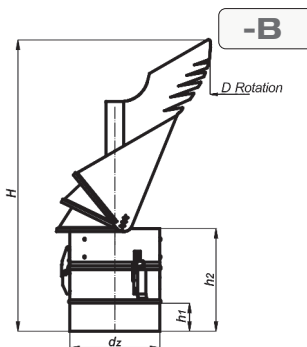
4. BASE WITH INSULATION
CLOSING



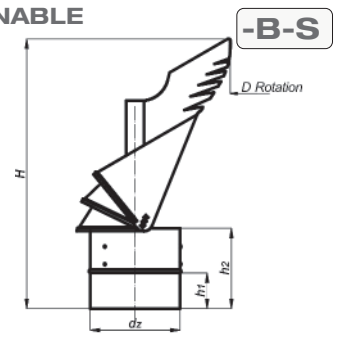
5. FORCE - IN BASE
Ø150 - Ø300



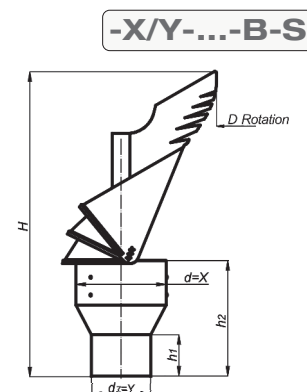
6. INLET PIPE OPENABLE
Ø150 - Ø250



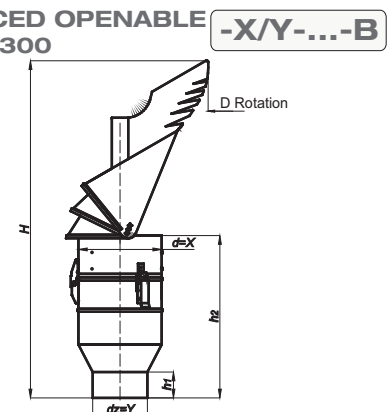
7. INLET PIPE NOT OPENABLE



8. INLET PIPE REDUCED
NOT OPENABLE



9. INLET PIPE REDUCED OPENABLE
Ø150, Ø200, Ø250, Ø300



MEASUREMENTS TABLE FOR VARIOUS INLET DIAMETERS

Ø 150		Dimensions [mm]									Weight [kg]
Lp	Base version	d _w	d _z	H	h ₁	h ₂	A	B	d ₁	Amount n	CH
1	STANDARD	148.0	-	405	85	-	250	208	6.2	4	1.90
2	-R	150.5	-	440	120	-	-	-	-	-	1.55
3	-BIII	150.5	-	400	80	-	212	182	9.5	6	1.95
4	-B-K	253.3	151.8	520	70	200	-	-	-	-	2.45
5	-PT	-	144.0	555	157	235	187	158	-	-	2.25
6	-B	-	151.8	530	60	205	-	-	-	-	1.90
7	-B-S	-	151.8	470	60	150	-	-	-	-	1.70
8	-X/Y-...-B-S	-	Y	515	60	195	-	-	-	-	1.90
9	-X/Y-...-B	-	Y	620	60	295	-	-	-	-	2.25

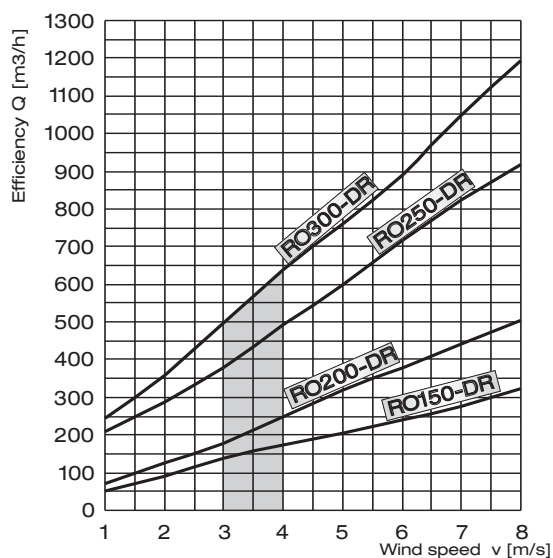
Ø 200		Dimensions [mm]									Weight [kg]
Lp	Base version	d _w	d _z	H	h ₁	h ₂	A	B	d ₁	Amount n	CH
1	STANDARD	198.0	-	520	85	-	330	284	6.2	4	2.70
2	-R	200.0	-	555	120	-	-	-	-	-	2.05
3	-BIII	199.0	-	515	80	-	263	233	9.5	6	2.55
4	-B-K	303.1	201.1	635	70	200	-	-	-	-	3.10
5	-PT	-	194.0	680	167	245	237	208	-	-	2.90
6	-B	-	201.1	635	60	205	-	-	-	-	2.50
7	-B-S	-	201.1	585	60	150	-	-	-	-	2.20
8	-X/Y-...-B-S	-	Y	630	60	195	-	-	-	-	2.45
9	-X/Y-...-B	-	Y	725	60	295	-	-	-	-	2.95

Ø 250		Dimensions [mm]									Weight [kg]
Lp	Base version	d _w	d _z	H	h ₁	h ₂	A	B	d ₁	Amount n	CH
1	STANDARD	245.0	-	620	80	-	380	330	6.2	4	3.60
2	-R	250.3	-	645	120	-	-	-	-	-	2.65
3	-BIII	250.8	-	615	90	-	313	283	9.5	8	3.35
4	-B-K	352.4	252.3	725	70	200	-	-	-	-	4.00
5	-PT	-	244.0	780	177	255	287	259	-	-	3.85
6	-B	-	252.3	735	60	245	-	-	-	-	3.50
7	-B-S	-	252.3	675	60	150	-	-	-	-	2.90
8	-X/Y-...-B-S	-	Y	730	60	205	-	-	-	-	3.25
9	-X/Y-...-B	-	Y	825	60	315	-	-	-	-	4.10

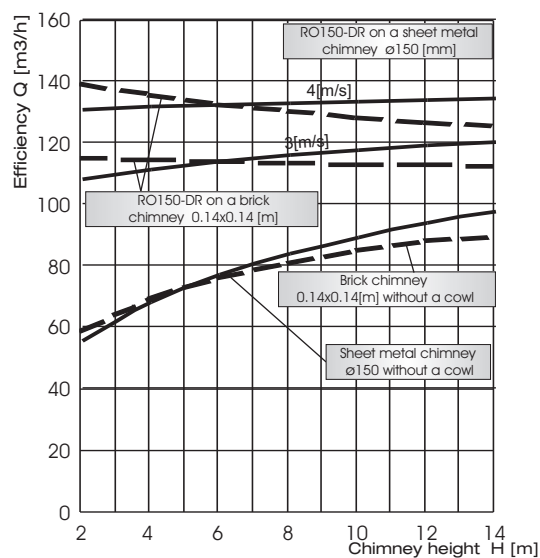
MEASUREMENTS TABLE FOR VARIOUS INLET DIAMETERS

Ø 300		Dimensions [mm]									Weight [kg]
Lp	Base version	d _w	d _z	H	h ₁	h ₂	A	B	d ₁	Amount n	CH
1	STANDARD	293.0	-	730	80	-	470	420	6.2	4	5.60
2	-R	300.0	-	740	140	-	-	-	-	-	4.50
3	-BIII	298.7	-	745	145	-	363	337	9.5	8	5.00
4	-B-K	403.7	301.7	800	70	200	-	-	-	-	5.20
5	-PT	-	-	-	-	-	-	-	-	-	-
6	-B	-	301.7	825	60	225	-	-	-	-	4.95
7	-B-S	-	301.7	750	60	150	-	-	-	-	4.40
8	-X/Y-...-B-S	-	Y	850	60	250	-	-	-	-	4.75

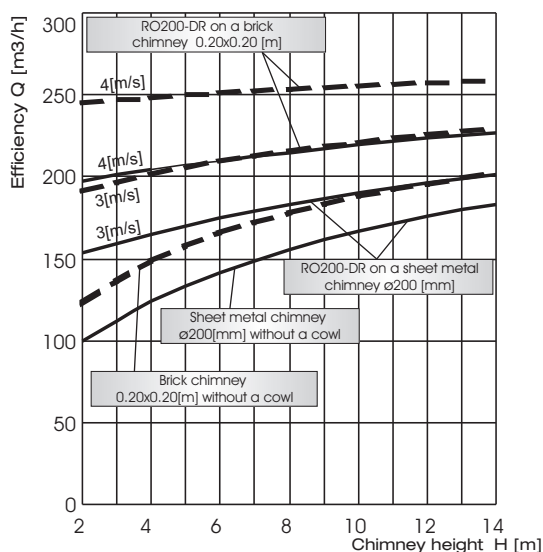
AIRFLOW CHARTS



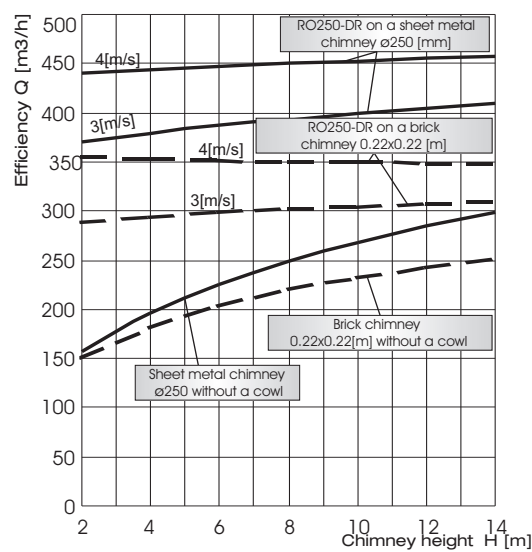
Efficiency chart for Rotowent Dragons (various diameters) in a function of wind speed, not including the influence of chimney height *1 [m/s] = 3,6 [km/h]



Efficiency chart for Rotowent Dragon 150 in a function of chimney height on a brick or sheet metal chimney (for two wind speeds: 3 and 4 [m/s])



Efficiency chart for Rotowent Dragon 200 in a function of chimney height on a brick or sheet metal chimney (for two wind speeds: 3 and 4 [m/s])



Efficiency chart for Rotowent Dragon 250 in a function of chimney height on a brick or sheet metal chimney (for two wind speeds: 3 and 4 [m/s])