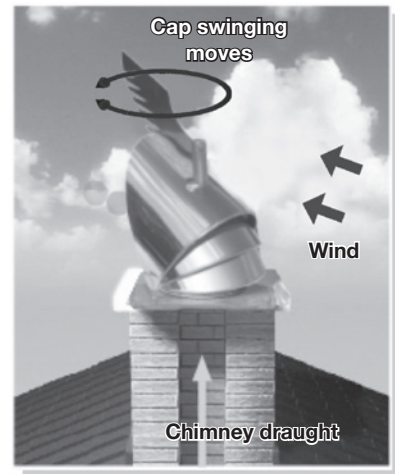


PICTURE **FUNCTION PRINCIPLE**



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 with-

stand very high temperatures, which can be achieved in wood or coal burning stoves.
Maximal working temperature: 500 [°C]
Rotation system: high temperature ball bearings

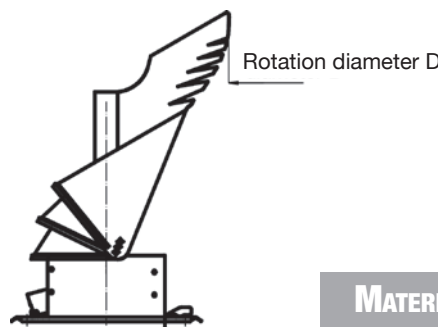
Includes solutions reserved in the RP Patent Office

DESTINATION

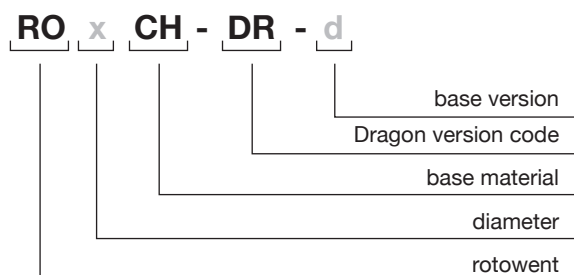
- when there are wind fluctuations on the chimney duct ending, caused by its bad location
- when there is an unfavorable terrain configuration, with strong and frequent winds
- when there is a lack of chimney draught or it is too weak
- in order to improve the natural (gravitation) ventilation, flue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

MEASUREMENTS

Diameter	Cap rotation diameter D [mm]
Ø 150	~ 335
Ø 200	~ 440
Ø 250	~ 560
Ø 300	~ 660



NOTATIONS / PRODUCT CODES



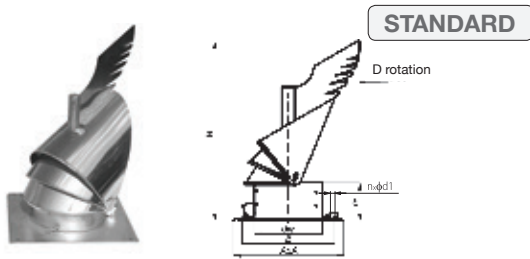
MATERIALS

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

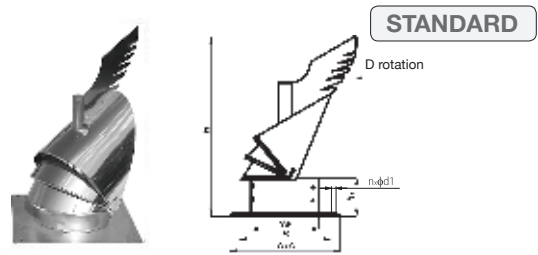
NOTICE!
 The cowl shouldn't be mounted on ducts exhausting fumes from stoves for low temperature fuels based on coal

ROTOWENT DRAGON - VERSIONS OF BASES

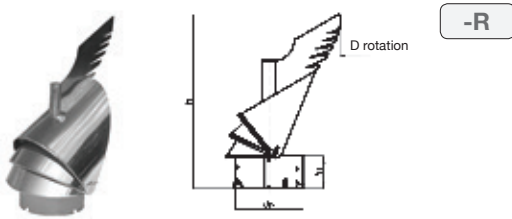
1. SQUARE BASE
Ø150 - Ø250



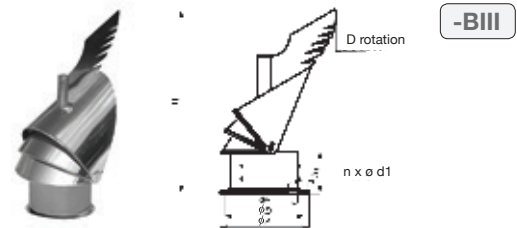
1a. SQUARE BASE NOT OPENABLE Ø300



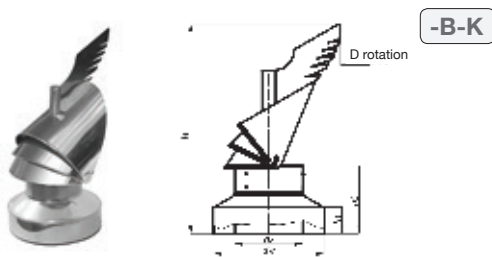
2. DISMOUNTABLE BASE



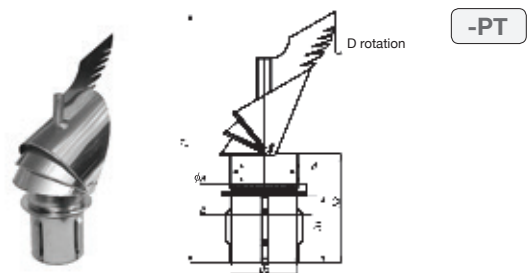
3. BASE WITH COLLAR



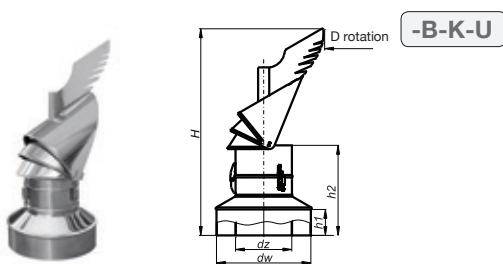
4. BASE WITH INSULATION CLOSING



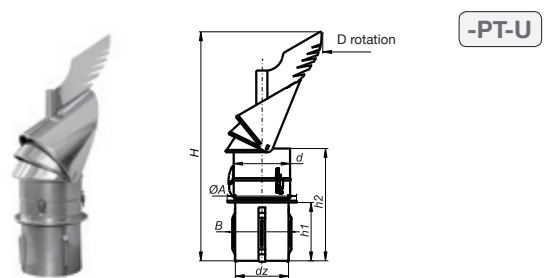
5. FORCE-IN BASE Ø150 - Ø300



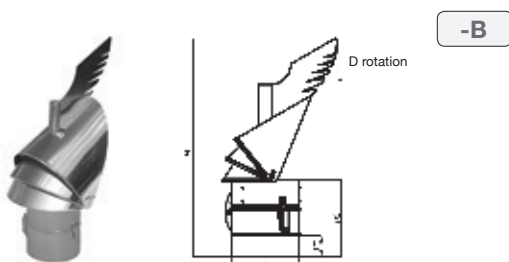
6. BASE WITH INSULATION CLOSING OPENABLE



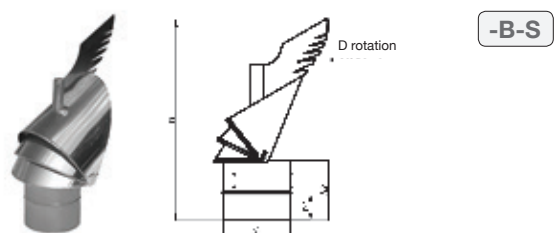
7. FORCE-IN MOUNTING BASE OPENABLE Ø150 - Ø300



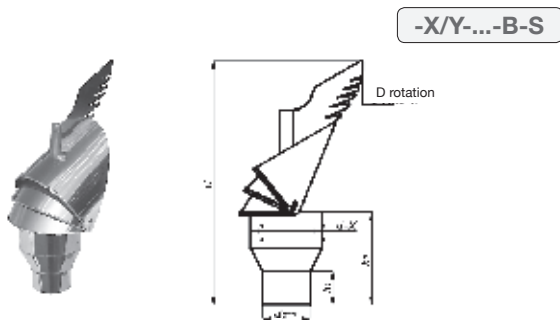
8. INLET PIPE OPENABLE Ø150 - Ø300



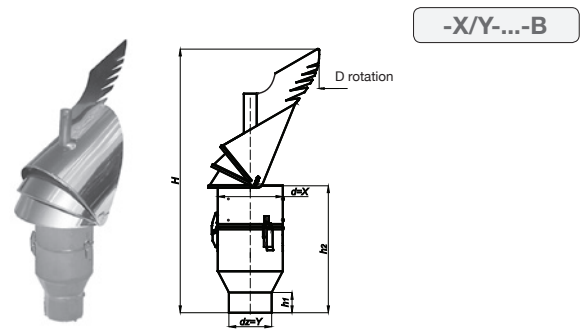
9. INLET PIPE NOT OPENABLE



10. INLET PIPE REDUCED



11. INLET PIPE REDUCED OPENABLE
Ø150, Ø300



MEASUREMENTS TABLE FOR VARIOUS INLET DIAMETERS

Ø 150	Dimensions [mm]										Weight [kg]
	Base version	D	dw	dz	H	h1	h2	A	B	d1	
STANDARD	~335	148.0	-	405	85	-	250	208	6.2	4	1.90
-R	~335	150.5	-	440	120	-	-	-	-	-	1.55
-BIII	~335	150.5	-	400	80	-	212	182	9.5	8	1.95
-B-K	~335	253.3	151.8	520	70	200	-	-	-	-	2.45
-PT	~335	-	144.0	555	157	235	187	158	-	-	2.25
-B-K-U	~335	253.3	151.8	570	70	250	-	-	-	-	2.75
-PT-U	~335	-	144.0	605	157	285	187	158	-	-	2.45
-B	~335	-	152.0	530	60	205	-	-	-	-	1.90
-B-S	~335	-	152.0	470	60	150	-	-	-	-	1.70
-X/Y-...-B-S	~335	-	Y	515	60	195	-	-	-	-	1.90
-X/Y-...-B	~335	-	Y	620	60	295	-	-	-	-	2.25

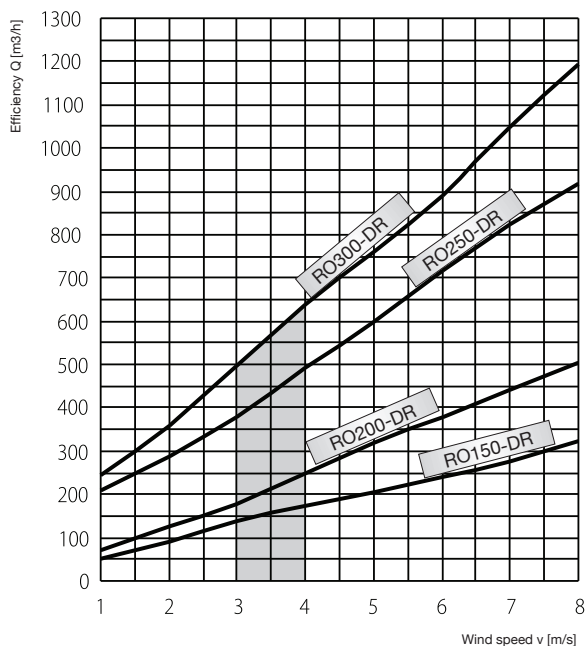
Ø 200	Dimensions [mm]										Weight [kg]
	Base version	D	dw	dz	H	h1	h2	A	B	d1	
STANDARD	~440	198.0	-	520	85	-	330	284	6.2	4	2.70
-R	~440	200.0	-	555	120	-	-	-	-	-	2.05
-BIII	~440	199.0	-	515	80	-	263	233	9.5	6	2.55
-B-K	~440	303.1	201.1	635	70	200	-	-	-	-	3.10
-PT	~440	-	194.0	680	167	245	237	208	-	-	2.90
-B-K-U	~440	303.1	201.1	685	70	250	-	-	-	-	3.45
-PT-U	~440	-	194.0	730	167	295	237	208	-	-	3.25
-B	~440	-	201.1	635	60	205	-	-	-	-	2.50
-B-S	~440	-	201.1	585	60	150	-	-	-	-	2.20
-X/Y-...-B-S	~440	-	Y	630	60	195	-	-	-	-	2.45
-X/Y-...-B	~440	-	Y	725	60	295	-	-	-	-	2.95

MEASUREMENTS TABLE FOR VARIOUS INLET DIAMETERS

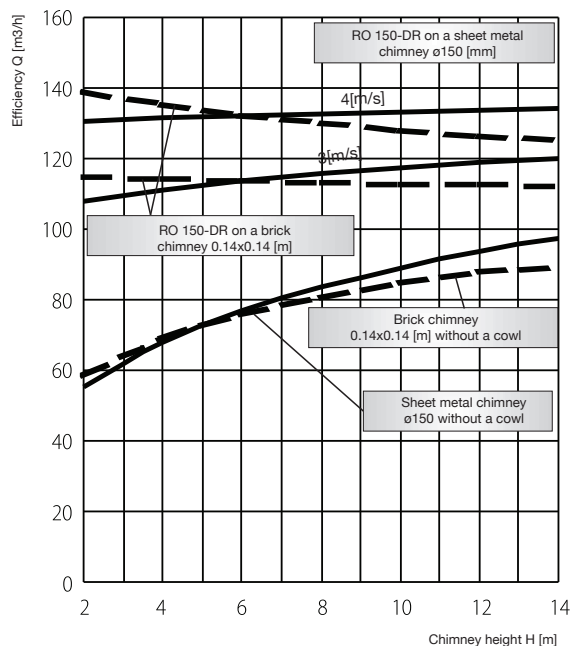
Ø 250	Dimensions [mm]										Weight [kg]
Base version	D	dw	dz	H	h1	h2	A	B	d1	Amount n	CH
STANDARD	~560	245.0	-	620	80	-	380	330	6.2	4	3.60
-R	~560	250.3	-	645	120	-	-	-	-	-	2.65
-BIII	~560	250.8	-	615	90	-	313	283	9.5	8	3.35
-B-K	~560	352.4	252.3	725	70	200	-	-	-	-	4.00
-PT	~560	-	244.0	780	177	255	287	259	-	-	3.85
-B-K-U	~560	352.4	252.3	775	70	250	-	-	-	-	4.45
-PT-U	~560	-	244.0	830	177	305	287	259	-	-	4.30
-B	~560	-	252.3	735	60	245	-	-	-	-	3.50
-B-S	~560	-	252.3	675	60	150	-	-	-	-	2.90
-X/Y-...-B-S	~560	-	Y	730	60	205	-	-	-	-	3.25
-X/Y-...-B	~560	-	Y	825	60	315	-	-	-	-	4.10

Ø 300	Dimensions [mm]										Weight [kg]
Base version	D	dw	dz	H	h1	h2	A	B	d1	Amount n	CH
STANDARD	~660	293.0	-	730	80	-	470	420	6.2	4	5.60
-R	~660	300.0	-	740	140	-	-	-	-	-	4.50
-BIII	~660	298.7	-	745	145	-	363	337	9.5	8	5.00
-B-K	~660	403.7	301.7	800	70	200	-	-	-	-	5.20
-PT	~660	-	294	855	177	255	337	308	-	-	5.00
-B-K-U	~660	403.7	301.6	850	70	250	-	-	-	-	5.70
-PT-U	~660	-	294	905	177	305	337	308	-	-	5.50
-B	~660	-	301.7	825	60	225	-	-	-	-	4.95
-B-S	~660	-	301.7	750	60	150	-	-	-	-	4.40
-X/Y-...-B-S	~660	-	Y	850	60	250	-	-	-	-	4.75
-X/Y-...-B	~660	-	Y	900	60	300	-	-	-	-	5.25

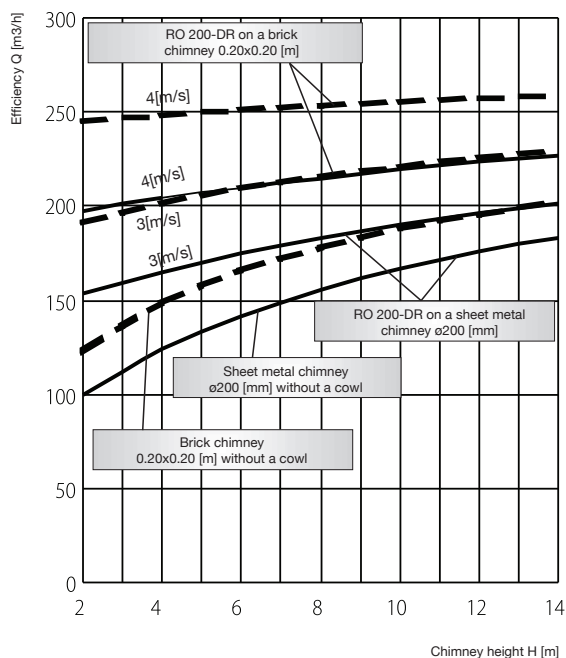
AIRFLOW CHARTS



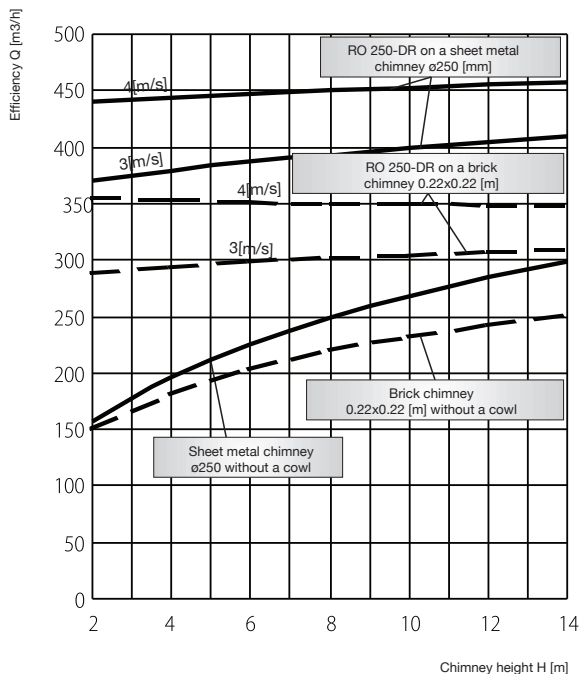
Efficiency chart for Rotowent Dragons (various diameters) in a function of wind speed, not including the influence of chimney height
*1 [m/s] = 3,6 [km/h]



Efficiency chart for Rotowent Dragon ø150 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 ø200 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 ø250 in a function of chimney height on a brick or sheet metal chimney (for two wind speeds: 3 and 4 [m/s])