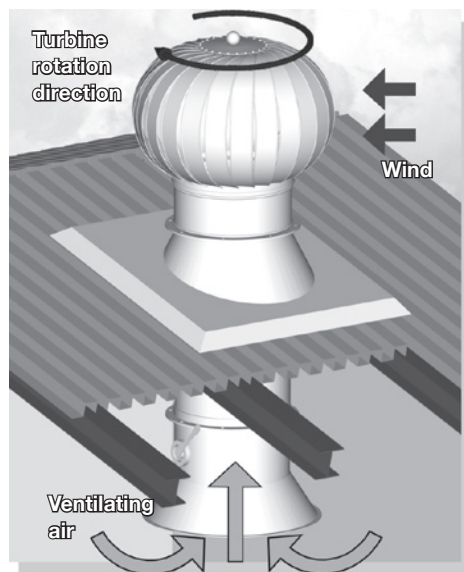


PICTURE



FUNCTION PRINCIPLE



DESCRIPTION

Rotary chimney cowl Turbowent is a device, which, in a dynamic way, uses force of the wind to increase chimney draught. The turbine always rotates in the same direction no matter of the wind strength or its direction. It is to be mounted on the roof bases for industrial ventilation, or on

reducing bases for multiple natural (gravitation) ventilation ducts.

Maximal working temperature: 150 [°C]
Noise level: 26dB
Rotating unit: greased ball bearings

DESTINATION

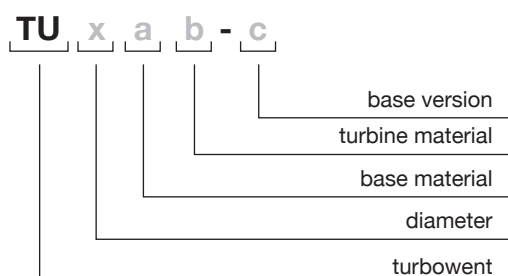
- when there are wind fluctuations on the chimney duct ending, caused by its bad location
- when there is an unfavorable terrain configuration, with strong and frequent winds
- when there is a lack of chimney draught or it is too weak
- in order to improve the natural (gravitation) ventilation

MEASUREMENTS

Diameter	Turbine diameter D
Ø 400	~ 630
Ø 500	~ 740



DENOTATIONS / PRODUCT CODES

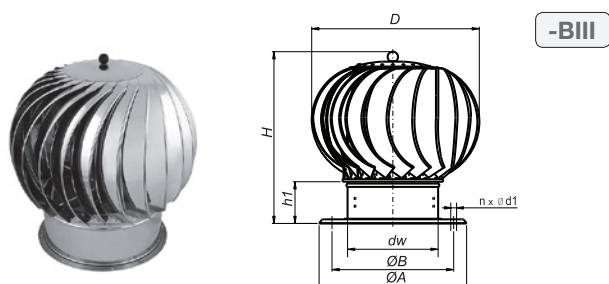


MATERIALS

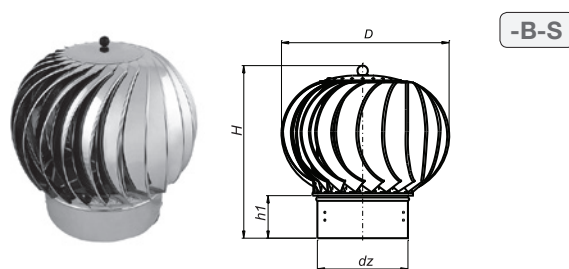
	W	W	W	W - ventilation ducts
Destination	-	-	-	S - gas and oil exhaust ducts
	-	-	-	D - smoke ducts
	-	-	-	
Base material	CH	-	CH	CH - chrome-nickel sheet 1.4301
	-	OC	-	OC - galvanised steel sheet
	-	-	-	AL - aluminum
Turbine material	CH	-	-	CH - chrome-nickel sheet 1.4301
	-	-	-	OC - galvanised steel sheet
	-	AL	AL	AL - aluminum

TURBOWENT - VERSIONS OF BASES

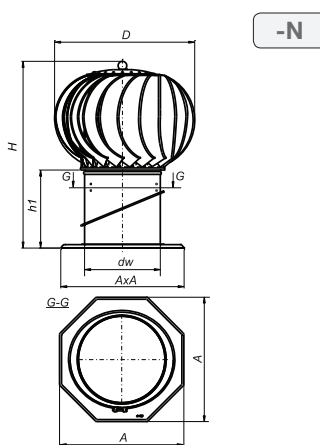
1. BASE WITH COLLAR



2. INLET PIPE



3. ADJUSTABLE BASE



Adjustment ranges for various diameters:
- Ø400÷Ø500 - angle 0÷45° or 0÷30°

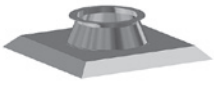
MEASUREMENTS TABLE FOR VARIOUS INLET DIAMETERS

Ø 400	Dimensions [mm]										Weight [kg]		
	Base version	D	dw	dz	H	h1	h2	A	B	d1	Amount n	OCAL	CHAL
-BIII	~630	398.8	-	649	165	-	464	438	9.5	8	8.00	8.00	11.00
-B-S	~630	-	400.8	650	170	-	-	-	-	-	6.85	6.85	9.80
-N	~630	398.8	-	785	300	-	550	-	-	-	12.90	12.90	15.90

Ø 500	Dimensions [mm]										Weight [kg]		
	Base version	D	dw	dz	H	h1	h2	A	B	d1	Amount n	OCAL	CHAL
-BIII	~740	498.8	-	784	178	-	564	538	9.5	8	10.70	10.70	14.80
-B-S	~740	-	500.8	795	183	-	-	-	-	-	8.80	8.80	13.40
-N	~740	498.8	-	905	300	-	650	-	-	-	15.20	15.20	19.80

DIFFERENT KINDS OF ROOF BASES

POD-D-BI-OC



PDKD-I-J



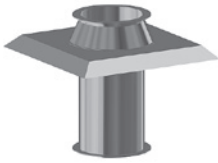
PDKD-I-D



PZR-I



POD-D-BII-OC



PDKD-II-J



PDKD-II-D



PZR-II



POD-D0BIII-OC



PDKD-III-J



PDKD-III-D



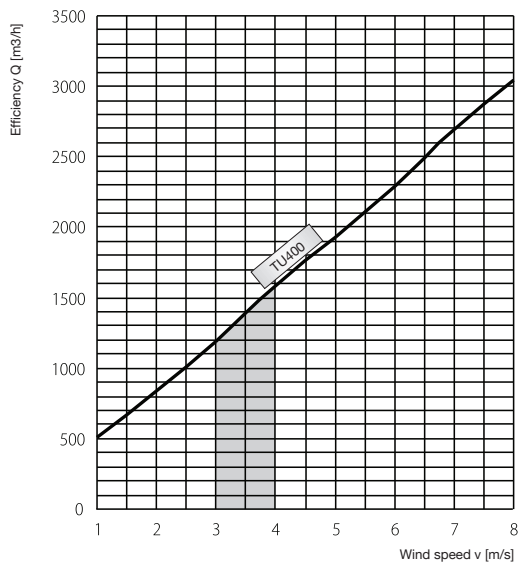
PZR-III



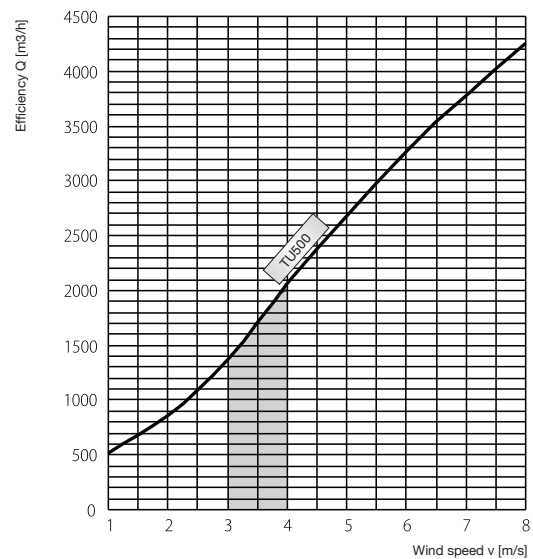
PZR-IV



AIRFLOW CHARTS



Efficiency chart for Turbowent 400 in a function of wind speed, not including the influence of chimney height (*1 [m/s] = 3,6 [km/h])



Efficiency chart for Turbowent 500 in a function of wind speed, not including the influence of chimney height (*1 [m/s] = 3,6 [km/h])