

Supply air/exhaust air towers

Circular supply air/exhaust air tower SP

Application

Towers SP are designed for supply and exhaust of air from rooms.

Description

They are available in circular version.

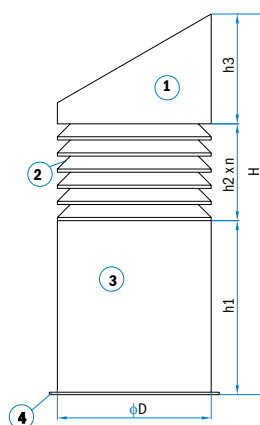
They consist of three parts:

- **Housing mantle** with attached flange or special connection
- **Vane** is fitted at any height and under any inclination. Number of blades depends on required effective area.
- **Cap** is available in three forms: (flat, pointed or inclined).

Materials and dimensions of product are determined by the customer. Possible materials & colours: aluminium, steel or rust-resistant coated (polished). Air displacement towers can be painted in any RAL colour. Vanes from size 400-1300 always made from ALU.

Types of installation

Tower is installed via the flange or special connection. If special connection is being used, air displacement tower is fixed on concrete duct with screws.



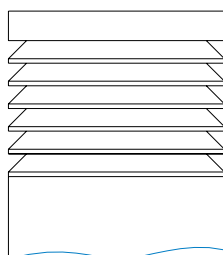
1. Installation with flange

1. End cap
2. Vane
3. Housing mantle
4. Flange

Types of end cap

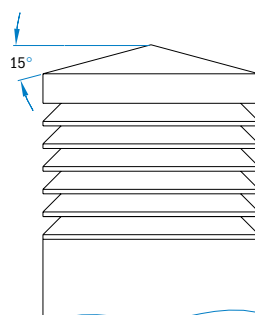
Type 1

Flat end cap



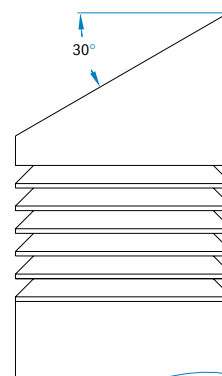
Type 2

Pointed end cap: inclination 15°



Type 3

Inclined end cap: inclination 30°



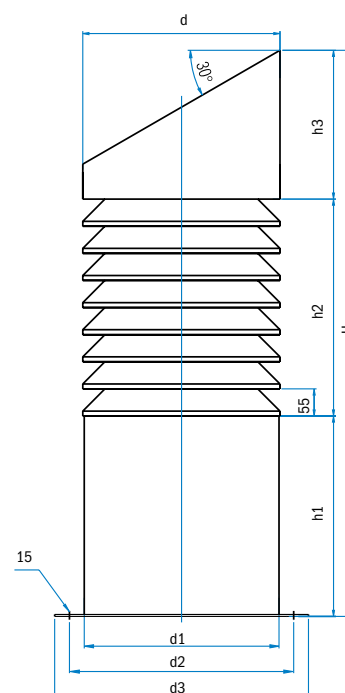
Dimensions

					h3		
Size	d	d1	d2	d3	Cap1	Cap2	Cap3
140	137	113	173	233		88	149
200	193	170	230	290		96	181
250	249	225	285	345	70	103	214
300	305	281	340	400		111	246
360	361	336	396	456		118	278
400	400	395	455	515		124	301
500	500	495	555	615		137	359
700	700	695	755	815		164	474
900	900	895	955	1015		191	589
1000	1000	995	1055	1115		204	647
1300	1300	1295	1355	1415		244	820

Technical data

All necessary technical data are provided according to the project on the basis of the customer's requests (required dimensions, air flow, etc.).

Sizes 400-1300



Ordering key

SP - R / 400 / 1851 / 1000 / Cap type 3 / material / flow rate

1	2	3	4	5	6	7
1						
SP-R	Round					
2	Size					
3	Height					
4	Height of the housing					
5	Cape type (1, 2, 3)					
6	Material					
		Rust-resistant sheet metal AISI 304 (2B)				
		Rust-resistant sheet metal AISI 304 gloss (BA)				
		Aluminium + RAL in optional colour				
		Zinc-coated sheet metal+ RAL in optional colour				
7	Flow rate					
		m ³ /h				

Vanes are made of aluminium and are powder painted.

Print out of selection programme

Supply	Velocity in duct	Return
☒	2.00	☒

Maximal velocity can not exceed 10m/s.

Input data		
Q	3000	m ³ /h
v _{ef}	3.30	m/s

Maximal effektiv velocity can not exceed 4m/s.

d	895	mm
h1	1000	mm
Maximal number of vanes is 17.		
n	5	kos
h2	275	mm
h3	587	mm
h	1862	mm

Total height is to big. Strengthened flange. Lying transport.

Cap		
Type 1	Type 2	Type 3
☐	☒	☐

Material	
d>=400 vanes are always made of aluminium and coloured.	
Housing	
galvanized steel+powder coated	☒
aluminium+powder coated	☐
stainless steel ASI 304 matt	☐
stainless steel ASI 304 polished	☐

Pressure drop Δp [Pa]
4

Sound power level LWA [dB(A)]
22

Discount in %	100
Price [EUR/pcs]	

