Ventilation turbine VENTILA VIV

All-aluminum ventilation turbine. Complete turbine including VV rotating head, base a adjustable neck ZK.

LIMITED 15 YEAR WARRANTY

USE

Ventilation turbines form an active part of the ventilation system, which, due to its rotation caused by the free flow of air without the need for power supply, actually ventilates a wide range of spaces over which turbines are located. Ventilation turbines can be used for ventilation of roof claddings, attics and lofts, interiors, offices and all types of buildings. They are also ideal for ventilation of the industrial halls of different shapes and types, storage, production and sports or cultural venues.

Functionality

The air flow (gust) drives the rotary head of the ventilation turbine, which by its one-sided rotary motion creates a smooth move so-called the suction effect. This move exhausts the heat and humidity from the places on which the turbines are mounted. Power of the ventilation turbine depends on the wind speed and the diameter of the suction throat and the size of the rotating head.

Technical description

The ventilation turbine is a solid aluminum structure consisting of three parts. Base with adjustable neck VENTILA ZK: serves for attaching the ventilation turbine to the roof casing. Adjustable neck: articulated design of the adjustable neck makes it easy to install on any sloping and flat roof with a slope of up to 45° (27°). The rotary head VENTILA VV: produces the driving force of a complete ventilation turbine VENTILA VIV. 21 pieces of special aerodynamic shaped blades are positioned and mounted on the rotating head so as to ensure maximum efficiency transmission of the drive force of the wind and its rotation to produce a smooth suction effect and a drain from the space under the ventilation turbine. The blades are arranged to prevent the rainwater from entering the turbine. Two maintenance-free all-metal bearings, which are equipped with a double plastic seal and a permanent lubricating charge, guarantee ideal performance and silent and continuous operation of the ventilation head throughout its service life in weather conditions from -20°C to + 60°C. The design of the ventilation turbine is designed and constructed to withstand wind up to a speed of at least 120 km/h. The connection of the VENTILA VV ventilation turbine with the neck and the base VENTILA ZK is secured by a screw metric connection thus ensuring safety against accidental tearing of the head in impact blasts.

VENTILA VIV (12",14",16",20")

Warning

To ensure maximum efficiency of the ventilation turbines, it is necessary to have them set on the highest place above or on the roof on the windward side. It is also necessary to ensure sufficient air supply for circulating air in the ventilated areas.

Transportation and storage

Ventilation turbines are supplied in a cardboard box of a suitable shape so that the packaging can prevent standard damage during storage and shipping. The box must not be extremely stressed by the weight of other objects and must not be visibly deformed. In the case of a deformed box, make sure that the ventilation turbine status is immediately checked or is not damaged. The head must have a regular shape and the blades must not be curled or damaged. We recommend the product to be transported and stored only in a box and in a horizontal position. The goods must not be stored in a dusty and aggressive environment in which the aluminum or galvanized material could be damaged.

Parameters	Name and type designation of the products VENTILA			
	VENTILA VIV 12/300	VENTILA VIV 14/355	VENTILA VIV 16/400	VENTILA VIV 20/500
Head diameter / mm	440	490	540	640
Head height / mm	290	315	340	370
Diameter of neck/ mm	300	355	400	500
Height of neck / mm	250	250	250	250
Height head + neck / mm	480	510	530	560
Base dimensions / mm	500 x 500	500 x 500	500 x 500	650 x 650
Total weight / kg	4,34	4,74	5,5	7,5
Starting speed m/s	1,5	1,8	1,6	1,4
P stat max / Pa	62	62	63	60
Suction capabilities v km/hod	m3/h-1			
wind speed 8 km/hod	63	180	112	230
wind speed 14 km/hod	175	400	407	698
wind speed 36 km/hod	740	1150	1485	2380
Suction capabilities v m/s	m3/h-1			
wind speed 2 m/s	63	180	112	230
wind speed 4 m/s	175	400	407	698
wind speed 10 m/s	740	1150	1485	2380
Minimum size of intake holes / m2	0,5	0,75	1	1,5
Air gap / m2	100	100	100	200

Warning !!!

The use, handling and assembly of the VENTILA products must be in accordance with the manufacturer's recommendations.

Attention !!!

VENTILA VV, VIV, HV ventilation turbines and their components are not designed for very dusty and aggressive environments. The above information is provided to our best of our knowledge and conscience. The conditions created during the application are not under the control of the manufacturer or the seller, therefore they are not responsible for them..

Exclusive importer:

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