ROOF-MOUNTED FAN FOR FIREPLACES



Roof exhaust gas extraction booster fan for fireplaces. Air flow up to **1000 m³/h**

Application

The fans are designed for boosting the draft and extracting smoke fumes heated up to 200 °C* for 5 hours. The units are used for extracting hot smoke from fireplaces, furnaces and hearths. The fans are also suitable for standard periodic or constant exhaust ventilation.

Design

The fan casing is made of galvanized steel with a polymer coating protecting from weather elements and aggressive environments. The fan has a protective grille to prevent accidental contact and penetration of foreign objects.

Motor

The fan is equipped with a single-phase asynchronous motor on ball bearings which contribute to a long-term uninterrupted service. The motor is offset from the transported air stream and has an integral thermal protection. The compartment housing of the motor is isolated from the hot air stream and has ventilation openings for air circulation and heat removal. A purpose-designed impeller with backward-curved blades minimizes soot and carbon deposits for trouble-free operation and easy maintenance.

Speed regulation and fan control

The fan is connected to the power mains via a transformer or thyristor speed controller, which enables draft regulation and, consequently, maximum efficiency of the fireplace operation.

WARNING!

The fan must be turned on in case of open fire in the fireplace. When the transported air temperature is 200 °C, the fans must run at the top speed without a speed controller.

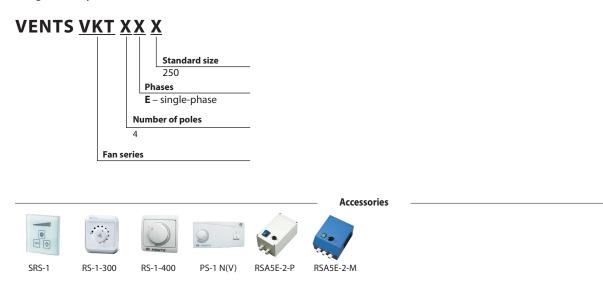
Installation

The fan is mounted on the roof on the top section of the chimney. Make sure that the location provides for sufficient space as required for the fan maintenance. The approximate temperature of the effluent gases can be determined according to the kindling colour.

*The smoke fume temperatures can be determined by putting a piece of kindling into the chimney at the level chosen for the fan installation and keeping it there for 30 minutes while the fireplace is hot.

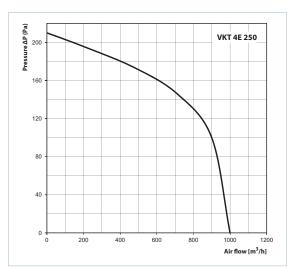
Kindling colour	Approximate smoke fume temperature, [°C]			
Unchanged	up to 150			
Yellow (wheat bread crust)	200			
Brown (brown bread crust)	250			
Black	300			
Charred kindling	400			

Designation key:



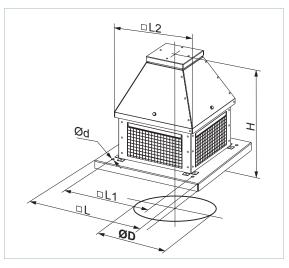
Technical data:

	VKT 4E 250		
Voltage [V] at 50 Hz	1~230		
Power [W]	96		
Current [A]	0,6		
Maximum air flow [m³/h]	1000		
RPM [min ⁻¹]	1500		
Sound pressure level at 3 m distance [dBA]	52		
Max. transported air temperature [°C]	200		
Ingress protection rating	IP44		



Fan dimensions:

Fee Terrs	Dimensions [mm]					Weight		
	Fan Type	ØD	Ød	Н	L	L1	L2	[kg]
	VKT 4E 250	250	11	434	430	330	323	14,6





VKT fan application option