

PRODUCER



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# Whirl flow Air-Duct WIR-700

**Table. Key technical parameters of the Whirl flow Air Duct type WIR-700**

Parameter	Unit of Measure	WIR-700
Capacity range	m <sup>3</sup> /min	250 ÷ 600
Length of the outlet gap	m	10
Regulating range of the outlet gap width	mm	40 ÷ 110
Diameter of Whirl flow Air-Duct segment and the flap* (accessory equipment)	mm	700
Diameter of the flexible air-duct inlet:		
– variant 1	mm	800
– variant 2		1000
– variant 3		1200
Weight of the Whirl flow Air-Duct with the accessory equipment:		
– variant 1	kg	1402
– variant 2		1465
– variant 3		1524
Type of power unit**	-	ZN-800
Type of power unit electric motor***	-	dSOKg 160L2-E
• Nominal voltage of electric motor	V	500 / 1000
• Nominal power of electric motor	kW	18,5
Corrosion protection	-	zinc-plated

\* On request, elements of Ø700 can be made with a diameter Ø600 or Ø630mm.

\*\* There is a possibility to position the junction boxes of motor on the side of housing the power unit.

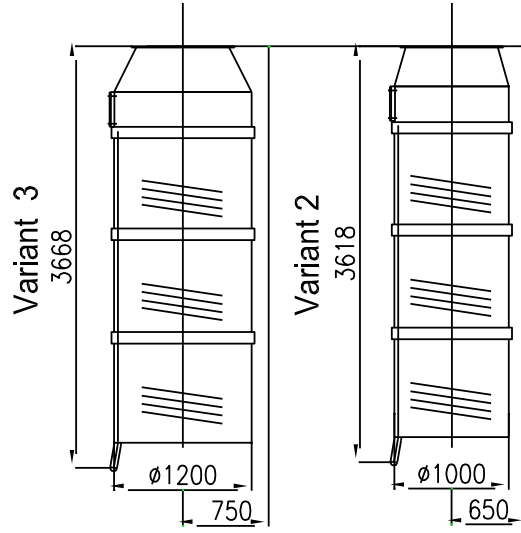
\*\*\* On request, the whirl flow air-duct can be equipped with a switchable (500/1000V) electric motor type dSOKg160L2-P.

### Scope of using

- The Whirl flow Air-Duct is designed to control the flow of air in the combined system of ventilation and to remove under-roof accumulations of methane.
- The Whirl flow Air-Duct includes power unit type ZN-800, which controls the flow of air flowing through the Whirl flow Air-Duct. The Whirl flow Air-Duct can also be equipped with flap closed manually, used to control the flow of air in emergency situations, i.e. in the case of dismount, unplugged or breakdown of power unit.
- The Whirl flow Air-Ducts are adapted to work in mines, in which there is methane hazard (excavation with degree of „a”, „b” and „c” of methane explosion hazard) and coal dust explosion hazard (excavation with class of „A” and „B” of coal dust explosion hazard). Device is comply with the requirements of the Minister of Economy of 22 December 2005 (Journal of Laws No. 263 of 2005, item 2203) and they are devices of group I category M2.

**Whirl flow Air-Duct WIR-700 is certified**  
**The Certificate of Conformity No. CZ/968/IV/2013,**  
**issued by The Central Mining Institute The Certification Body (No. 1453).**

# Whirl flow Air-Duct WIR-700



Scheme of the air circulation in the excavation for Whirl flow Air-Duct situated by the left or right sidewall

