

PRODUCER



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## TECHNICAL DATA-SHEET

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# Whirl flow Air-Duct WIR-1000

**Table. Key technical parameters of the Whirl flow Air Duct type WIR-1000**

Parameter	Unit of Measure	WIR-1000
Capacity range	m <sup>3</sup> /min	500 ÷ 1100
Length of the outlet gap	m	10
Regulating range of the outlet gap width	mm	60 ÷ 120
Diameter of Whirl flow Air-Duct segment and the flap (accessory equipment)	mm	1000
Diameter of the flexible air-duct inlet: – variant 1 – variant 2 – variant 3	mm	1000 1200
Weight of the Whirl flow Air-Duct with the accessory equipment: – variant 1 – variant 2 – variant 3	kg	1900 2000
Type of power unit	-	ZN-1000
Type of power unit electric motor*	-	dSOKg 200L2-E
• Nominal voltage of electric power	V	500 / 1000
• Nominal power of electric motor	kW	37
Corrosion protection	-	zinc-plated

\* 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.

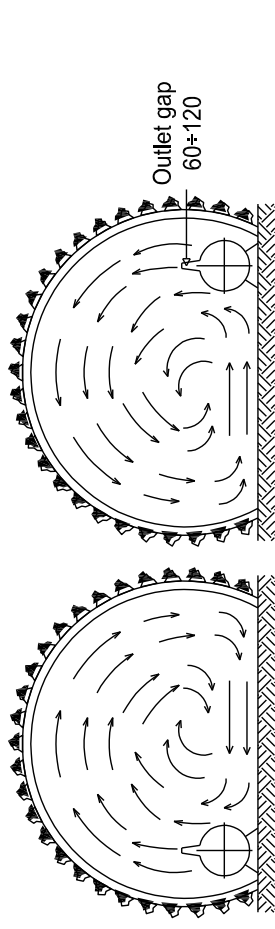
### Scope of using

- 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-1000, 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.

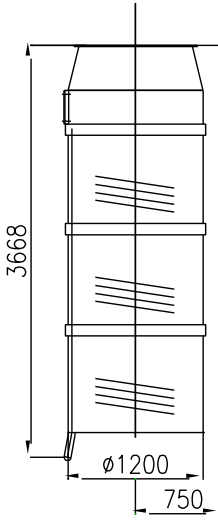
**Whirl flow Air-Duct WIR-1000 is certified**  
**Certificate No. KOMAG/11/ZAŚW/287,**  
**issued by KOMAG Mining Mechanization Centre**  
**Attestation Tests Division, Certifying Body (No. 1456).**

# Whirl flow Air-Duct WIR-1000

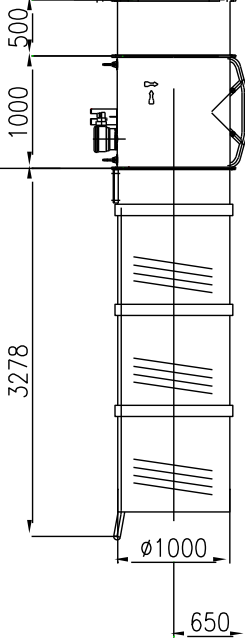
Scheme of the air circulation in the excavation for Whirl flow Air-Duct situated by the left or right sidewall



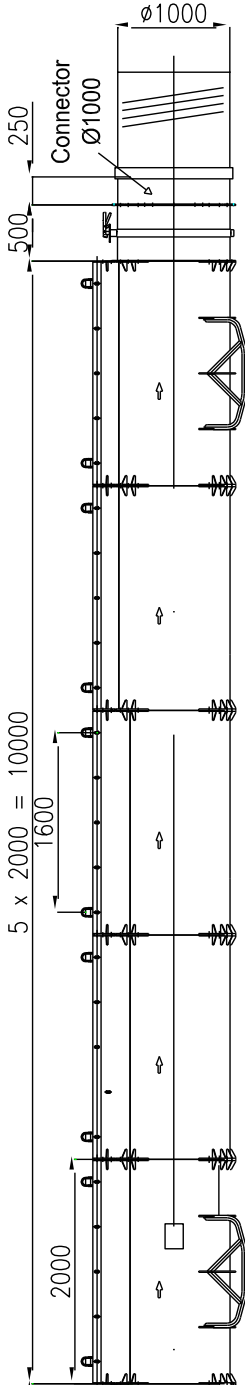
Variant 2



Variant 1



Air-duct dispenser with flexible air-duct



Segments of Whirl flow Air-Duct Ø1000

Flexible air-duct  
Flap closed manually