

PRODUCER



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## TECHNICAL DATA-SHEET



# General-purpose Electric Ejector (Fan) USE-350/\*\*\*/\*\*\*\*



**Table. Key technical parameters of the General-purpose Electric Ejector (Fan) USE-350/\*\*\*/\*\*\*\***

Parameter	Unit of Measure	USE-350/1,5	USE-350/2,2
Flow speed of air in a 40 m	m/s	0,6	0,8
Capacity range	m <sup>3</sup> /s	0,33 ÷ 1,00	0,5 ÷ 1,5
	m <sup>3</sup> /min	20 ÷ 60	30 ÷ 90
Total ram effect - nominal	Pa	650	950
Rotational speed	r.p.m.	2845	2865
Power of electric motor	kW	1,5	2,2
Nominal voltage of electric motor	V	500* *other voltages in accordance with the requirements of the Customer	
Type of electric motor	-	dSOKg 90S2	dSOKg 90L2
Diameter range of each type air duct co-operating with the ejector	mm	200 ÷ 400	200 ÷ 400
The maximum temperature of the air	°C	40	
The density of suction air	kg/m <sup>3</sup>	1,2	
Ambient temperature range	°C	-20 ≤ T <sub>amb</sub> ≤ +40	
Weight	kg	about 63	about 65
Corrosion protection	-	zinc-plated/painted	

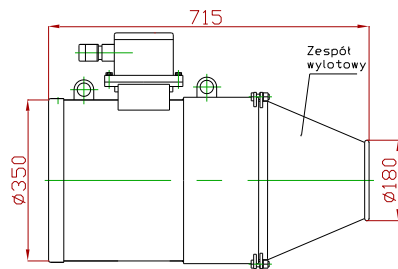
USE-350/\*\*\*/U U- adapted to the requirements of the User (e.g. USE-350/1,5/U)

**General-purpose Electric Ejector (Fan) USE-350/\*\*\*/\*\*\*\* is certified  
The Certificate of Conformity No. OBAC/201/CZ/ATEX/12,  
issued by The „OBAC” Institute for Research and Certification Ltd. (No. 1461).**

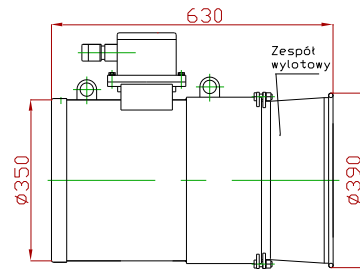
## Scope of using

- Universal application as a fan, ejector, blower or injector.
- Possible air flow in the free stream or in the ventilation ducts.
- Removing or diluting local and under-roof accumulations of methane by stream of air.
- Removing or diluting local accumulations of carbon dioxide and other mining gases.
- Ventilation of rooms, recesses, corners.
- Conditioning workplaces when connected to a cooler, such as longwall air cooler.
- The General-purpose Electric Ejectors (Fans) USE-350/\*\*\*/\*\*\* 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). Devices are 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. The ejector can also be used outside of mining in other industrial sectors, e.g. in coal processing plant.
- It is possible to change parameters of the ejector e.g. the supply voltage and connecting elements as expected Customers.
- It is possible to connect ducts: flexible, metal, vortex, perforated, etc., in the diameter range 250 ÷ 400 mm.

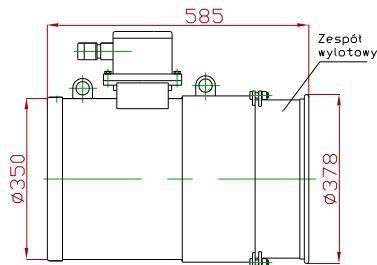
### The examples of the construction of the ejector with different connecting endings



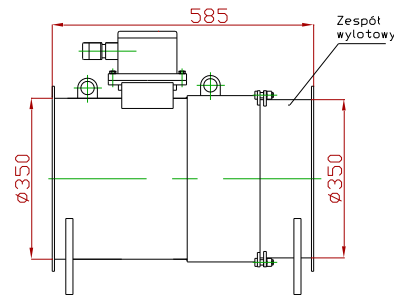
*Ejector (blower)  
Exhaust assembly with confusor (jet)*



*Ejector (vortex blower)  
Exhaust assembly with diffuser*

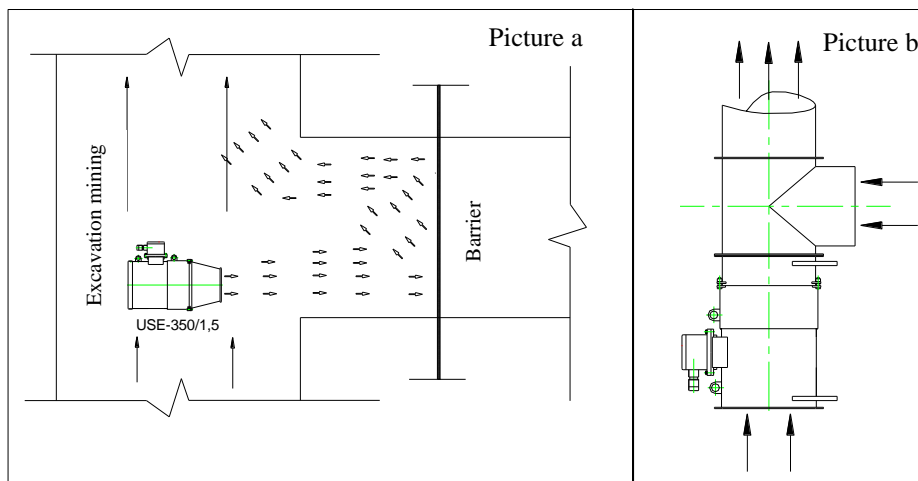


*Fan with steering  
Cylindrical exhaust assembly*



*Fan with steering  
Flange connection*

### Examples of cooperation



*Picture a. Example of ventilation: recesses, corners or barriers*

*Picture b. Example of the suction an additional air stream using the ejector*