

Car park design jet fans AUZ ARP 340

Building & Industry

NOVENCO

SCHAKO Group



Product

Oval design jet fans in a unidirectional (AUZ) and fully reversible (ARP) version. This range of oval jet fans excels in low noise levels. The installation height is 422mm.

Application

These compact and robust jet fans have been developed especially for the use in car parks. The jet fans have been designed for an optimal capacity, long life span and very reliable operation.

Construction

The internal fan housing consists of a round fan casing with flanges. Oval silencers have been mounted on both sides on the fan casing. The fan has been constructed with guide vanes for an optimal efficiency. On the unidirectional version a wire guard is mounted on the inlet side and a deflector on the discharge side. With deflectors the air stream flows in the desired direction. On the reversible version deflectors are mounted on both sides of the fan. As standard, the jet fans are equipped with mounting feet for direct mounting to the ceiling or wall.

ZerAx/NovAx impeller

The impeller consists of a hub in which special casted aluminium impeller blades have been mounted at a pre-determined pitch angle. The impeller is coupled directly onto the motor shaft. All fans are statically and dynamically balanced in acc. with VDI 2060 and ISO 21940-11:2016.

Motor

The motor is two-speed 3x400V, 50Hz for direct start. Motor protection IP55 in accordance with IEC 34-5. Insulation class F or H depending on temperature protection.

Electric isolation

The jet fans are equipped with a terminal box on the outside of the fan casing.

Surface treatment

As standard, the fan casings and mounting frames are hot-dip galvanized steel. The silencers are an Aluzink execution. A coating in any desired RAL color is available as an option. In the standard execution the jet fans meet the requirements for operation in unheated, low corrosive environments according to DS/EN ISO 12944-2, corrosion category C3.

Temperature resistance

The standard operating temperature is from -20 until +40°C.

Jet fans for hot smoke removal are certified according to the EN 12101 part 3 in the classes F200/F300/F400.

The complete range of jet fans has been high temperature tested according to the table below:

Temp	200°C	300°C	400°C
60 min		✓	
120 min	✓	✓	✓

High temperature test classes

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Jet fan		AUZ 340	ARP 340
Execution	-	Unidirectional	100% reversible
Measured thrust	N	15 / 50	15 / 50
Sound pressure level ¹ , re. 2×10^{-5} Pa	dB(A)	42 / 59	50 / 64
Electrical connection	V, Hz	3x400V, 50Hz	3x400V, 50Hz

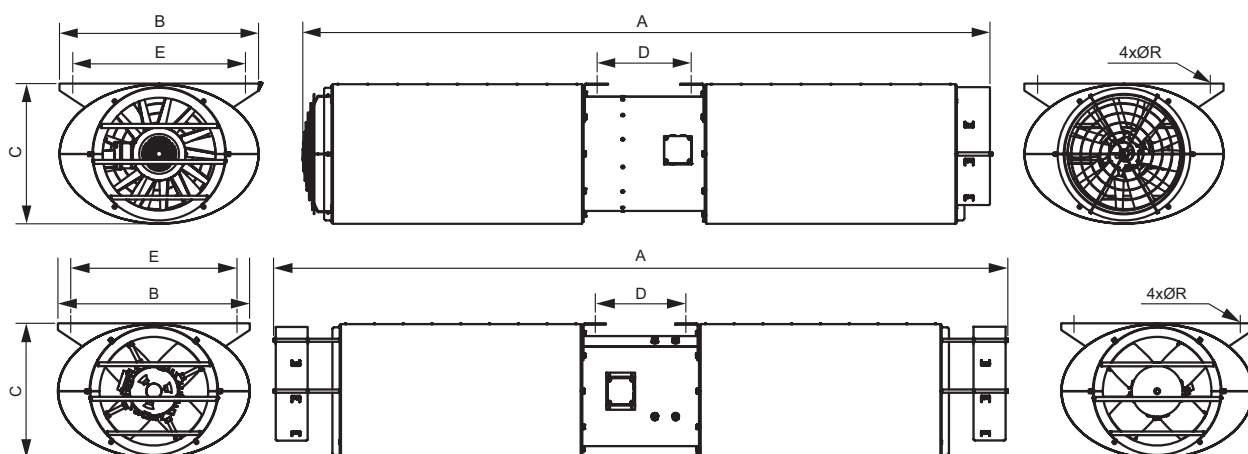
Motor data (standard temperature)			
Installed motor power	kW	0.3 / 1.3	0.3 / 1.3
Nominal current	A	0.9 / 3.0	1.0 / 3.4

Motor data (F200120/F30060/Ff300120)			
Installed motor power	kW	0.3 / 1.3	0.3 / 1.3
Nominal current	A	0.9 / 2.6	0.8 / 3.2

Motor data (F400120)			
Installed motor power	kW	0.3 / 1.3	0.3 / 1.3
Nominal current	A	1.1 / 3.2	0.8 / 3.2

Total weight			
Total weight	kg	86	100

1. Sound pressure level at 3m from the jet fans under the free field conditions at an angle of 45°
2. Complete jet fan is certified according EN 12101 part 3



Dimensions	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	ØR
AUZ 340	2070	599	422	283	520	14
ARO 290	2296.6	599	422	283	520	14