Car park design jet fans AUO ARO 290

Building & Industry
NOVENCO
SCHAKO Group

Product
Oval design jet fans in a unidirectional (AUO) and fully reversible (ARO) version. This range of design jet fans excel in low noise levels. The installation height is 320 mm.

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 oval 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 exterior the fan casing is acoustic isolated with an Aluzinc plating through which the fan housing makes up a whole with the silencers. 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.

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

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

Electric isolation
The jet fans have internal terminal boxes.

Surface treatment
As standard, all jet fans are delivered in an Aluzinc execution. A powder coating in any desired 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 and 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		AUO 290	ARO 290
Execution	-	Unidirectional	100% reversible
Measured thrust	N	5 / 21	4 / 15
Sound pressure level [1], re. 2 x 10^{-5} Pa	dB(A)	38 / 49	38 / 50
Electrical connection	V, Hz	3x400V, 50Hz	3x400V, 50Hz

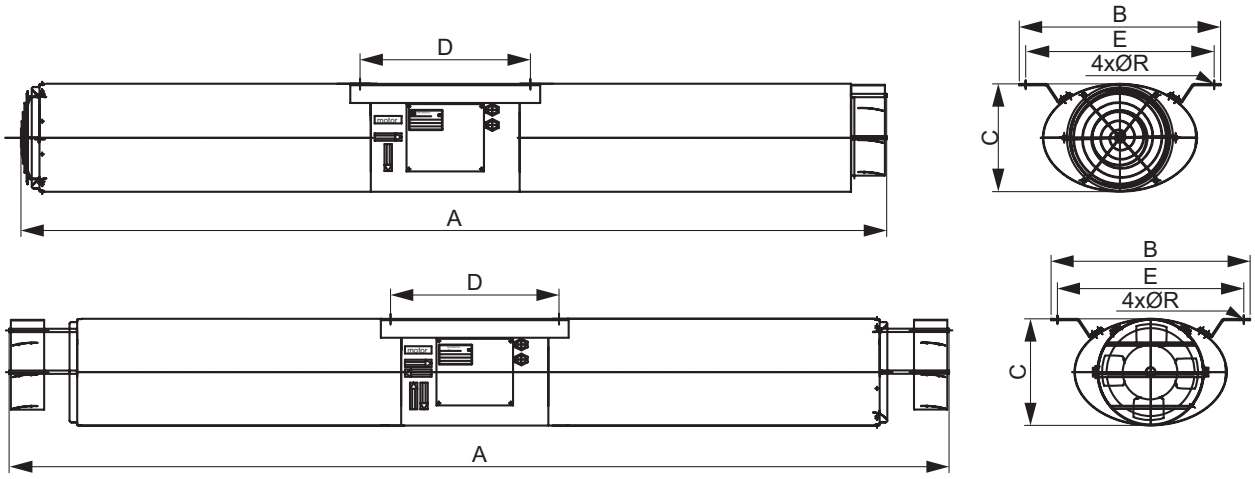
Motor data (standard temperature)			
Installed motor power	kW	0.1 / 0.5	0.1 / 0.5
Nominal current	A	0.7 / 2.2	0.7 / 2.2

Motor data (F200120/F30060/Ff300120)			
Installed motor power	kW	0.1 / 0.5	0.1 / 0.5
Nominal current	A	0.5 / 1.9	0.5 / 1.9

Motor data (F400120)			
Installed motor power	kW	0.1 / 0.5	0.1 / 0.5
Nominal current	A	0.8 / 2.0	0.8 / 2.0

Total weight			
Total weight	kg	80	80

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
AUO 290	2570	598	320	506	560	14
ARO 290	2823	598	320	506	560	14