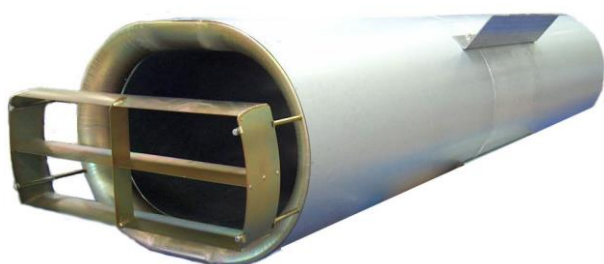




NOVENCO product description

Design jet fans type AUO/ARO-500



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 540mm.

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 aerodynamic efficiency. On the exterior the fan casing is acoustic isolated with an AluZink[®] 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, ISO 1940, 1-1986 Class Q 6.3.

Motor

The motor is two-speed 3x400V, 50Hz or 3x380V, 60Hz 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 either electric isolating switches integrated in the fan casing or internal terminal boxes.

Surface treatment

As standard, all jet fans are delivered in an AluZink[®] execution. A powder coating in any desired colour 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. Class F400 is only available for 50Hz.

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

Temp.	200°C	300°C	400°C
60min		X	
120min	X	X	X

High temperature test classes



NOVENCO technical specification

Design jet fans type AUO/ARO-500

Jet fan		AUO-500	ARO-500
Execution	-	Unidirectional	100% reversible
Measured thrust	N	27 / 105	28 / 111
Sound pressure level*, re. 2×10^{-5} Pa	dB(A)	45 / 59	49 / 64
Electrical connection	V, Hz	3x400V, 50Hz	3x380V, 60Hz

Motor details (standard temperature)					
Installed motor power	kW	0,5 / 2,2	0,5 / 2,2	0,5 / 2,2	0,5 / 2,2
Nominal current	A	1,5 / 4,6	1,3 / 5,1	1,5 / 4,6	1,3 / 5,1

Motor details (200°C)**					
Installed motor power	kW	0,5 / 2,2	0,5 / 2,2	0,5 / 2,2	0,5 / 2,2
Nominal current	A	1,5 / 4,6	1,3 / 5,1	1,5 / 4,6	1,3 / 5,1

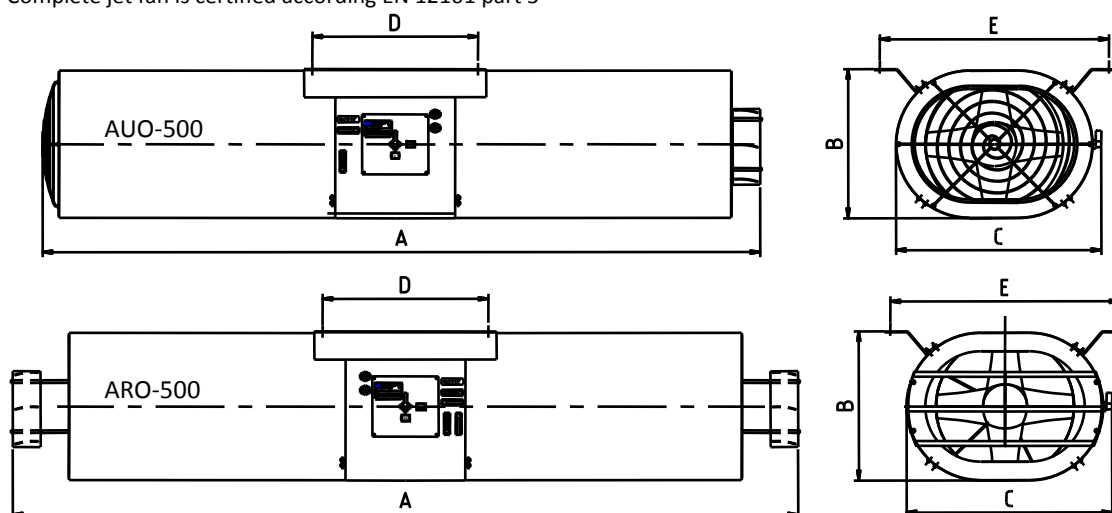
Motor details (300°C)**					
Installed motor power	kW	0,5 / 2,2	0,5 / 2,2	0,5 / 2,2	0,5 / 2,2
Nominal current	A	1,5 / 4,6	1,3 / 5,1	1,5 / 4,6	1,3 / 5,1

Motor details (400°C)**					
Installed motor power	kW	0,5 / 2,2	-	0,5 / 2,2	-
Nominal current	A	1,5 / 4,6	-	1,5 / 4,6	-

Total weight	kg	160	160
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* Sound pressure level at 3m from the jet fans under the free field conditions at an angle of 45°

** Complete jet fan is certified according EN 12101 part 3



Dimensions		A	B	C	D	E
AUO-500	mm	2.606	540	760	600	830
ARO-500	mm	2.854	540	760	600	830

Data subject to change