

## Declaration of performance

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| <p><b>1. Unique identification code of the product types</b><br/>         Novenco® ZerAx® family of axial fans<br/>         AZL-AZN-AZT-AUZ</p> | <p><b>2. Intended use</b><br/>         Industrial fans for general ventilation purposes in non-residential buildings at temperatures between -20 to +40 °C</p>   |
| <p><b>3. Manufacturer</b><br/>         Novenco Building &amp; Industry A/S,<br/>         Oeverup Erhvervsvej 50-52, DK-4700 Naestved</p>        | <p><b>4. Authorised representative</b><br/>         Not applicable</p>   |
| <p><b>5. Systems of assessment and verification of constancy of performance</b><br/>         System 4</p>                                       | <p><b>6. Harmonised standards</b><br/>         EN 5801:2017 ◦ EN 9001:2015 ◦ EN 12100:2011 ◦<br/>         EN 12499:2009 ◦ EN 12944-2:2017 ◦ ISO 13347-1:2004 ◦<br/>         ISO 13347-2:2004 ◦ EN 14001:2015 ◦<br/>         ISO 14694:2003+A1:2010 ◦ ISO 21940-11:2016+A1:2022 ◦<br/>         ISO 21940-14:2012 ◦ EN 60034-1:2010 ◦<br/>         EN 60034-7:2022+AC:2022 ◦ IEC 60034-30-2:2021</p> <p><b>Notified body</b><br/>         Not applicable</p> |

**7. Declared performances**

Parameters	Performances			
	AZL	AZN	AZT	AUZ
Fan sizes [mm]	ø250 to ø1000	ø250 to ø2000	ø280 to ø450	ø340
Airflow rates [m3/s]	0.1 to 33	0.1 to 125	NPD	NPD
Total pressures	up to 3300	up to 3400	NPD	NPD
Min. / max. thrusts [N]	NPD	NPD	8 / 100	15 / 50
Optimal fan speeds [RPM] *	2270 to 4919	1130 to 4919	NPD	NPD
Fan efficiencies	up to 92%			
Max. motor-consumed power [kW]	0.03 to 31.8	0.55 to 315	2.5	1.3
Motor efficiency classes	IE1, IE2, IE3, IE4, or IE5			
Min. / max. sound power level [dB(A)] **	69 / 106	53 / 115	50 / 77	42 / 59
Operational temperature range [°C]	-20 to +50		-20 to +55	-20 to +40

The above table shows the combined performances for the fan ranges, i.e. a specific fan configuration has the optimum operation point within these ranges and cannot operate within the entire performance range. Refer to the product catalogues and AirBox calculations for specific data.

\* Optimal fan speeds are max. allowable speeds at 20 °C for frequency-regulated operation and depend on fan specifications.

\*\* Sound power levels are for unattenuated basic configurations without silencer accessories.

**8. Appropriate technical documentation and/or specific technical documentation**

**EU**

Ecodesign regulation 327/2011  
 EMC directive 2014/30/EU  
 Low voltage directive 2014/35/EU  
 Machinery directive 2006/42/EU

**UK regulations**

Ecodesign for ErP 2010/2617  
 Electrical Equipment (Safety) 2016/1101  
 EMC 2016  
 Energy Information 2011/1524  
 Supply of Machinery (safety) 2008

This declaration bases on Novenco Building & Industry's design specifications for and tests of the ZerAx family of fans controlled with frequency converters (VFDs) at high and low speeds. Hence, the fans are approved for running with variable speeds.

We direct attention to the use of certified equipment only, which includes the use of VFDs. Use of non-certified equipment voids the warranty. Refer to the Novenco product documentation and sales support for recommendations.

The performance of the products identified above conforms with the set of declared performances. This declaration of performance is in accordance with EU regulation 305/2011 and the amendment 574/2014, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by

Peter Holt  
Technical director  
Novenco Building & Industry A/S  
Naestved, Denmark, 30<sup>th</sup> October 2024

