



**FIRE  
ENGINEERED  
AXTÂN RANGE**  
FULLY-CERTIFIED  
ALL-IN-ONE SOLUTION

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# PROUD TO BUILD BRITISH

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We've been pioneers in new air technology since 1966. Our heritage is in the design and manufacture of fans and ventilation systems. **Nuaire offer one of the most comprehensive ranges of high-performance Axial fans to suit every application.**

Our Axial ranges are manufactured in the UK and in state-of-the-art production facilities, then tested to ensure the high-quality standard and guaranteed on-site performance you'd expect from Nuaire.

Our Axial Team have over 20+ years' experience working with consultants and smoke contractors. We are here to support you, whether that's to offer our expertise or to provide CPDs (Continuous Professional Development courses), get in touch for more information.



**Pioneering**

We lead the way in product innovation with a stream of ground-breaking products over decades.



**Trusted**

We have a reputation for our build quality. We establish long term relationships and are always transparent with our test data.



**Agile**

We're one of the UK's leading manufacturers, covering both residential and commercial air quality. We offer innovative advice and provide flexible solutions.



**Expert**

Our team is made up of over 600 people, 50 of which have over 25 years' experience. We have the skills and knowledge to help find the best solution for our customers.



**Attentive**

We're expert listeners, rising to any challenge and going the extra mile for our customers. We add value by solving problems. We sell solutions, not fans.



**Personal**

We work closely with our customers and can provide bespoke solutions to meet their specific project needs. Many of our product ranges were developed this way.

For help with selecting a unit please contact:

**Simon Plummer** - External Technical Sales  
Call **07767 298 286** Email [Simon.Plummer@nuaire.co.uk](mailto:Simon.Plummer@nuaire.co.uk)

**Major Projects Team**  
Call **02920 858200** Email [enquiries@nuaire.co.uk](mailto:enquiries@nuaire.co.uk)



# ABOUT AXIAL FANS

Nuaire Axial fans are designed to offer maximum design flexibility. Using our bespoke Axial Configurator software, we are able to select the perfect axial for your specific project requirements.

We offer flexibility in: case size, case material, blade type, blade angle, motor position, motor type, and many other factors. This level of flexibility and customisation means there are millions of possible combinations for complete product specification.

## AXTÂN AXIAL RANGE



Extracting hazardous smoke within a building fire, the AxTân smoke shaft range has been designed to protect common escape routes from multi-storey buildings in the event of a fire.

Fire-engineered solution, our AxTân range can also be used for mitigating corridor overheating. Providing day-to-day ventilation with a one off 300°C for 2 a hour event.

**BSRIA-tested AxTân is unique in the market as it is the only fully-certified system:** an all-in-one solution with skid, cowl, and fan combined.

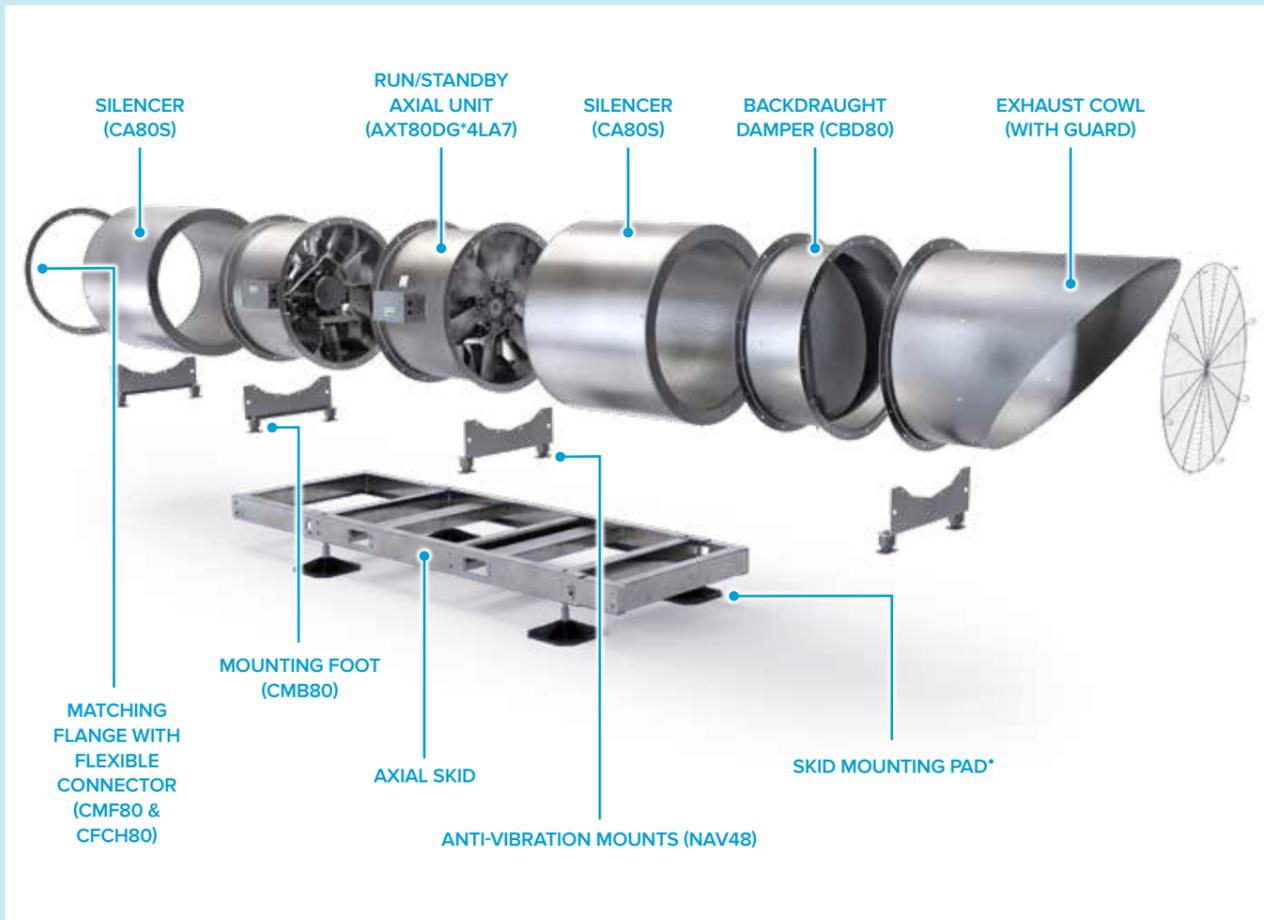
AxTân features high-efficiency motors for lower running costs whilst maintaining minimal sound levels. Our AxTân range is truly unique to the market.



All AxTân units are manufactured in the UK.

# FEATURES & BENEFITS

HT Certified and CE Marked to EN12101 Part 3 2015.



**RELIABLE & TROUBLE-FREE SOLUTION**



**ROBUST CASING AND WEATHERPROOF DESIGN**



**LOW SFP VALUES DELIVER RUNNING COST SAVINGS**



**QUICK AND EASY SELECTION AND DESIGN TOOLS WITH MODULAR COMPONENTS**



**QUICK INSTALLATION & COMMISSIONING**



**PRE-ASSEMBLED AND READY TO LIFT TO THE ROOF**

# AXTÂN BESPOKE RANGE

Our industry-leading experts will help specify and supply high temperature Axial fans.



## AXTÂN ASSEMBLY WITHOUT SILENCERS

Horizontal Skid Assembly Certified to EN12101-3. 800mm dia. Smoke Run & Standby axial with exhaust cowl, backdraft damper, matching flange, and flexible connector.

Code: AXH80DG-4LN



## AXTÂN ASSEMBLY WITH INLET SILENCER

Horizontal Skid Assembly Certified to EN12101-3. 800mm dia. Smoke Run & Standby axial with exhaust cowl, backdraft damper, matching flange, and flexible connector.

Code: AXH80DG-4LR



## AXTÂN ASSEMBLY WITH OUTLET SILENCER

Horizontal Skid Assembly Certified to EN12101-3. 800mm dia. Smoke Run & Standby axial with exhaust cowl, backdraft damper, atmosphere silencer, matching flange, and flexible connector.

Code: AXH80DG-4LA



## AXTÂN ASSEMBLY WITH INLET & OUTLET SILENCERS

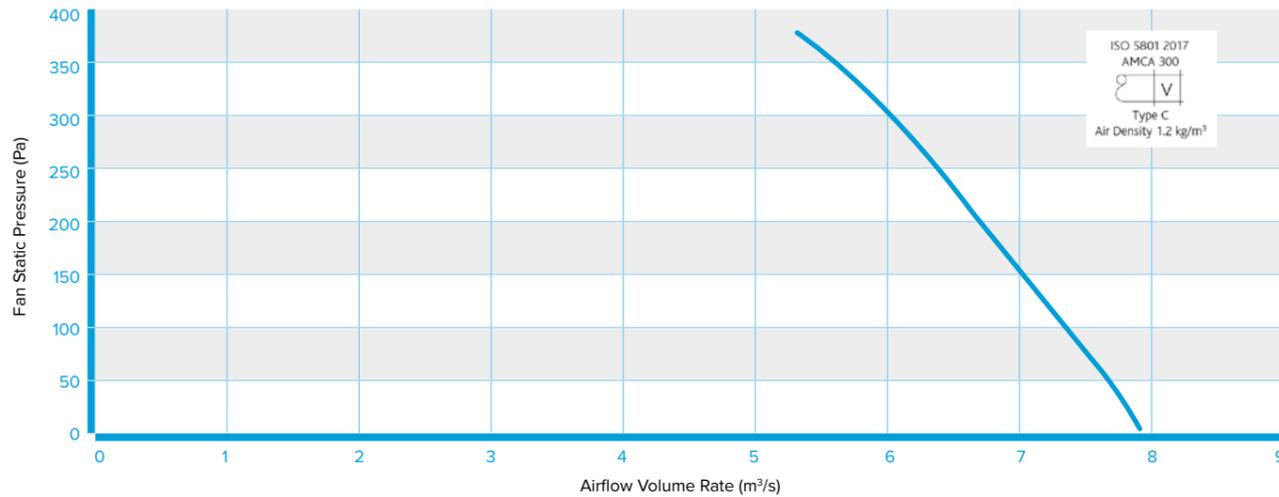
Horizontal Skid Assembly Certified to EN12101-3. 800mm dia. Smoke Run & Standby axial with exhaust cowl, backdraft damper, room side and atmosphere silencer matching flanges and flexible connector.

Code: AXH80DG-4LB

## AXTÂN HORIZONTAL SKID RANGE

PERFORMANCE, TECHNICAL INFORMATION & DIMENSIONS

### PERFORMANCE



### SOUND DATA

MODEL	FREQUENCY/Hz	SOUND POWER SPECTRUM dBW								dBA @3m*
		63	125	250	500	1KHz	2KHz	4KHz	8KHz	
AXH80DG-4LN Fan only no silencer	Induct inlet	98	105	104	97	92	86	83	77	76
	Open outlet	95	101	98	94	91	85	80	77	
AXH80DG-4LR Inlet silencer only	Induct inlet	95	100	95	81	78	76	75	69	76
	Open outlet	95	101	98	94	91	85	80	77	
AXH80DG-4LA Outlet silencer only	Induct inlet	98	105	104	97	92	86	83	77	65
	Open outlet	92	96	89	78	77	75	72	69	
AXH80DG-4LB Inlet & outlet silencer	Induct inlet	95	100	95	81	78	76	75	69	65
	Open outlet	92	96	89	78	77	75	72	69	

\*Outlet dBA calculated for free field spherical radiation at a distance of 3m.

# AXTÂN CONSULTANT SPECIFICATION

### OPERATION

800mm diameter, 1440rpm two stage run & standby long case circular axial fan.

Air performance data to ISO 5801, sound performance data to ISO 13347 Part 2/AMCA 300.

Manufactured from hot dipped galvanised mild steel, the case is fitted with integral guide vanes for maximum efficiency. Terminal box is fitted on the outside of the case.

Impeller wings are manufactured from aluminium alloy mounted in an aluminium alloy hub as standard.

The motor is 400V three phase, class H Insulation with drain holes fitted.

Motor efficiency is IE3, motor efficiency stated is based on IEC rated output for the motor.

Day to day operation up to ambient temperature of 60°C and once off smoke duty of 300°C for 2 hours.

Horizontal skid baseframe manufactured from mild steel, finish hot dipped galvanised.

Skid assembly, fully certified to EN12101 part 3 2015 as an assembled unit for 300°C for 120 mins.

Assembly consists of 800mm dia. run & standby smoke rated fans, matching flanges, flexible connectors, mounting pads, spring antivibration mounts, non return damper, 1 dia. long silencers (optional) and exhaust cowl (including guard).

Control panels are supplied by others.

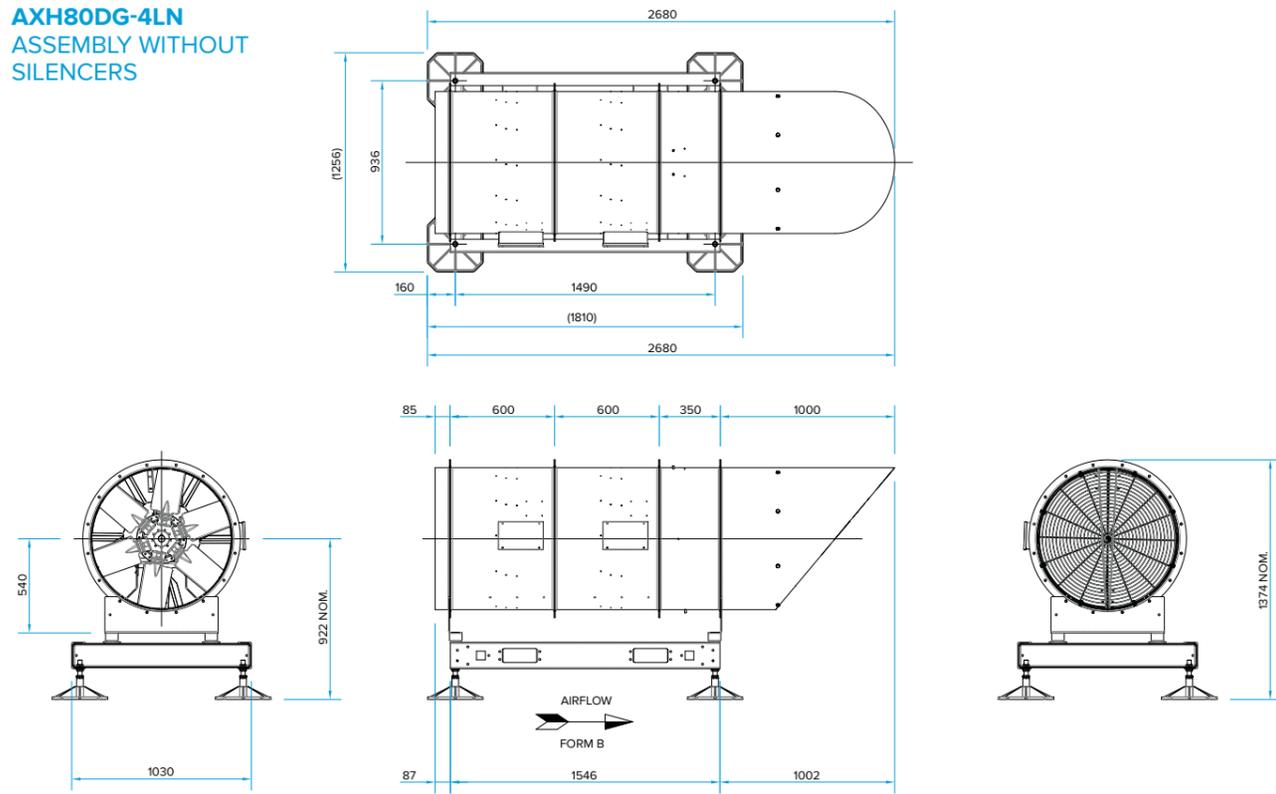
Coastal units are painted to C4 finish, contact Nuair for details.

C4 has a 1-year warranty.

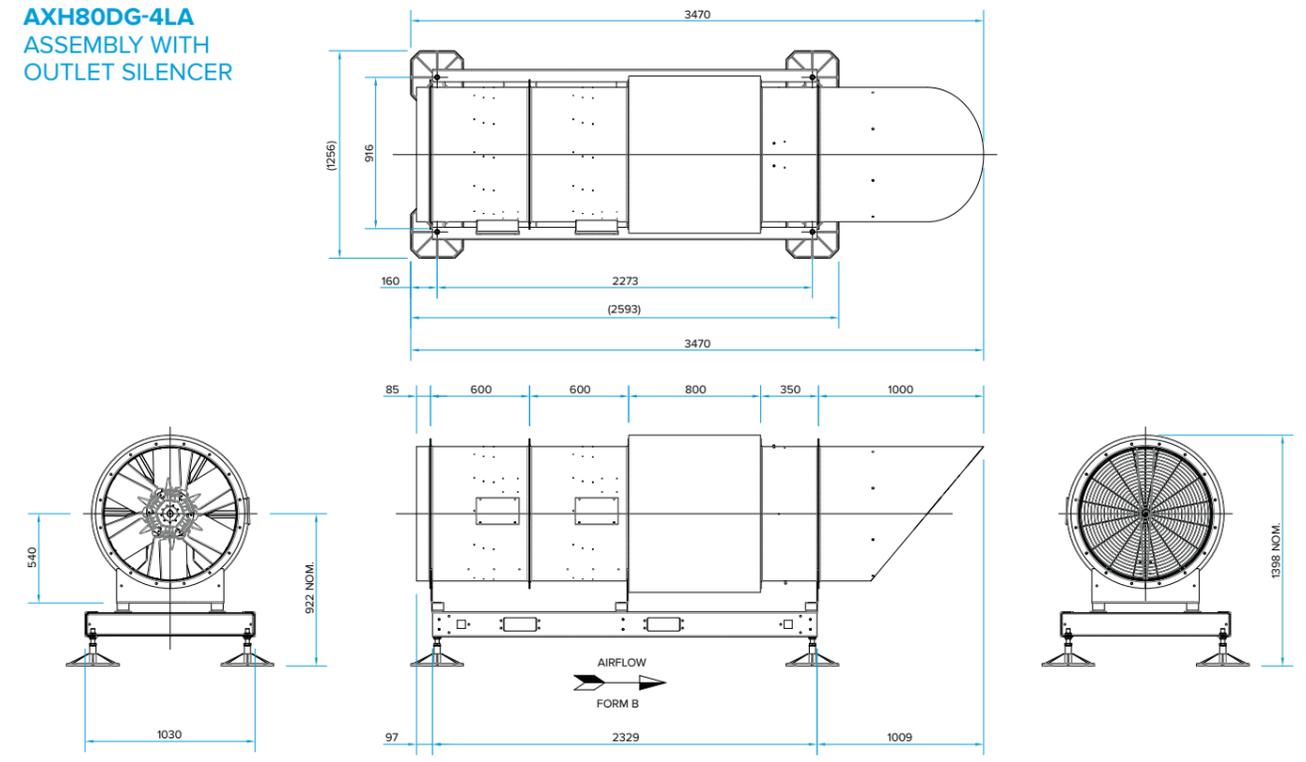
**3-YEAR WARRANTY  
FROM DATE OF DELIVERY**



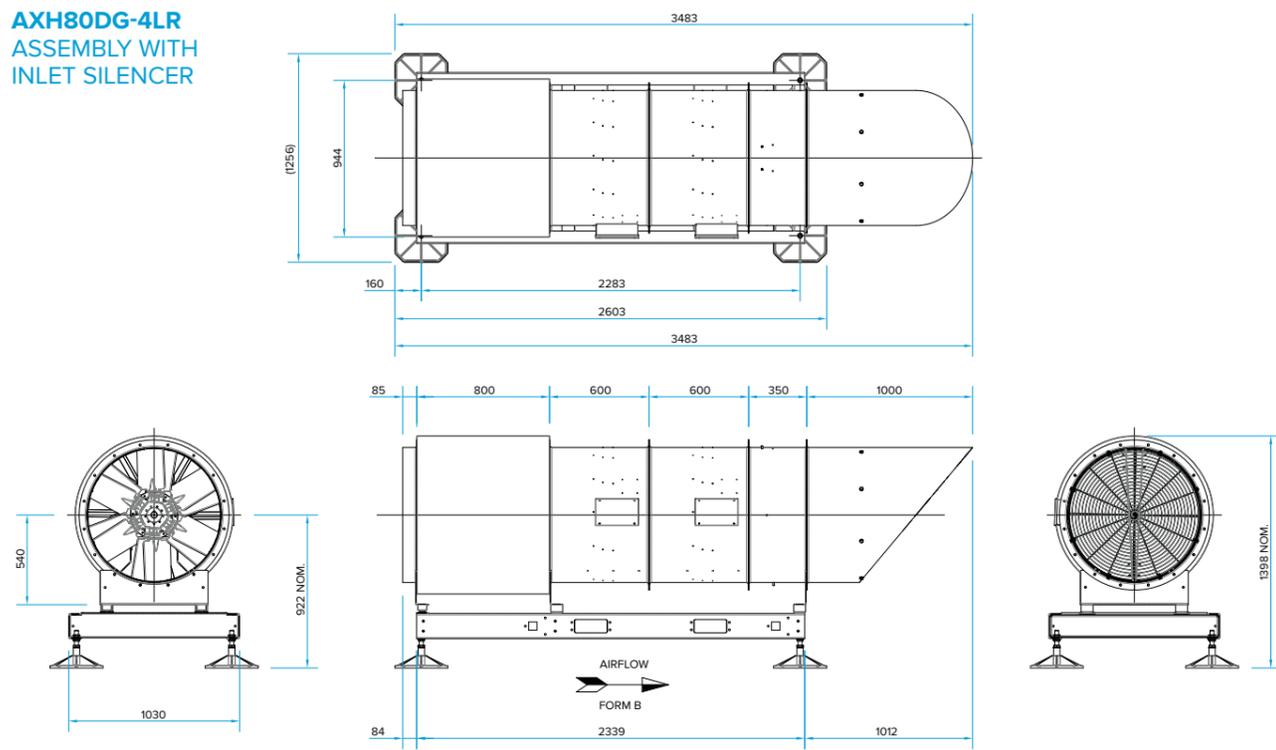
**AXH80DG-4LN**  
ASSEMBLY WITHOUT  
SILENCERS



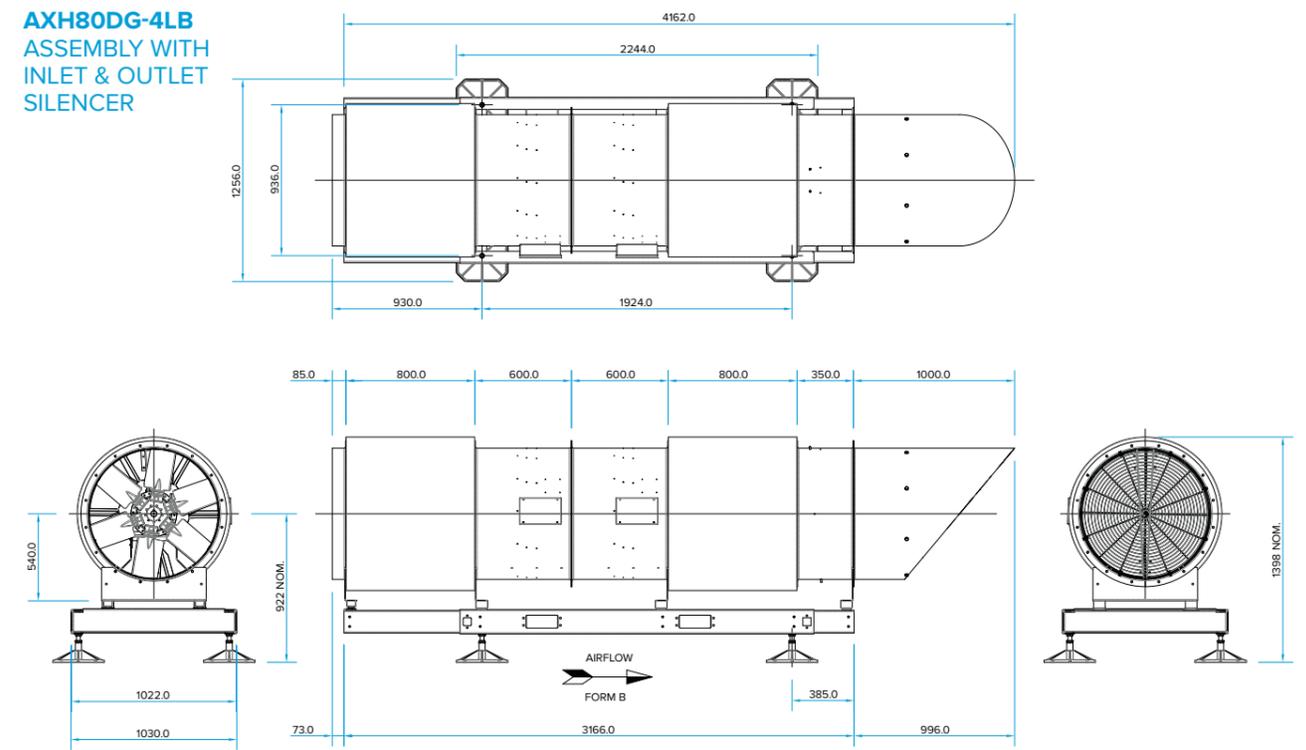
**AXH80DG-4LA**  
ASSEMBLY WITH  
OUTLET SILENCER



**AXH80DG-4LR**  
ASSEMBLY WITH  
INLET SILENCER



**AXH80DG-4LB**  
ASSEMBLY WITH  
INLET & OUTLET  
SILENCER







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