

Eco-Innovation for Energy & Environment



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NSL系列射流风机

NSL Series Jet Fan



南方风机股份有限公司
Nanfang Ventilator Co., Ltd.

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南风股份微信公众号
NanFeng Corporation
Wechat Public Account

独立认证符合EN12101-3
标准, 在高达300°C高温
紧急运行2小时。



Independently certified to
EN12101-3 for emergency
operation up to 300°C for
2 hours.

自1998年起建立运行
ISO9001质量管理体系,
持续年度监督审核,
确保质量。



Established & operated &
annual audit the ISO9001
QMS since 1998 to ensure
quality.

符合欧盟安全指令,
已完成机械指令MD
符合性评估。



EU Safety Directive and
Machinery Directive MD
conformity assessment
are complied.



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南方风机股份有限公司(以下简称“公司”),是一家专业的核电、地铁、隧道、工业与民用风机设计、制造、检测、销售、服务为一体的通风系统整体解决方案供应商,是国内首批登陆深圳证券交易所创业板企业之一(股票代码:300004)。

南方风机股份有限公司始创于1988年位于广东省佛山市南海区狮山镇小塘三环西路31号,注册资本4.79亿元。产业园占地431亩,现有职工约600人。公司拥有18万平米大型现代化生产车间、一流的专业风机生产设备共5万多台,高、精、尖端的技术团队60余人,是国家高新技术企业,拥有省级企业技术中心、工程研究中心、拥有国家合格评定和认可的检测实验室,为国内通风与空气处理行业仅有三家经CNAS认可的实验室之一。

Nanfeng Ventilator Co.,Ltd (hereinafter referred to as NanFeng Corporation and the company) is a ventilation systems professional comprehensive solution supplier for fans involving design, manufacturing, testing, sales and service of nuclear power, subway, tunnel, industrial and civil building. As a pioneer in its field, the Company was among the first cohort of companies listed on the Shenzhen Stock Exchange - ChiNext Board (300004).

Founded in 1988 and with the registered capital 479 million yuan, NanFeng Corporation is located at No.31, San Huan West Road(Shi Nan Part), Xiaotang, Nanhai District, Foshan, Guangdong, P.R.China, with a registered capital of RMB 479 million. The industrial park operates from a 431-mu(equivalent to 167 acre) industrial park supported by approximately 600 employees. It boasts 180,000 square meters of modern production facilities housing over 50,000 units of modern fan processing equipment, and with a standing technical team of more than 60 technical specialists. It is a national high-tech enterprise with a provincial enterprise technology center, engineering research center, and a testing lab that has been evaluated and approved by China National Accreditation Service (CNAS) for Conformity Assessment - one of only three such certified facilities in China's ventilation and air treatment industry.

公司一直秉承自主研发企业精神,拥有较强的研究开发能力,目前拥有110多项的发明、实用新型或外观专利,是行业内首家同时获得“核级风机、风阀产品设计、制造许可证”及“军工核安全设备设计、制造许可证”的企业,也是最早获得中国核安全局颁发的“核1、2、3级不锈钢核电用钢管产品的制造许可证”的企业之一。

公司深耕风机行业30余年,始终坚持发展和创新,成为国内领先的通风与空气处理系统整体解决方案供应商。产品类别包含各种工业离心风机、轴流风机、混流风机、箱体风机、暖通空调、厨房专用风机、漩涡风机、玻璃钢风机……,亦可定制各种专业领域用途风机,比如高温风机、煤粉风机、防爆风机、消防风机、除尘风机、屋顶风机、喷粉风机、工业吊扇等,广泛应用于核电、地铁、隧道、大型建筑、工业多种行业和民用等领域。

The Company maintains a strong commitment to independent R&D, demonstrated by its robust innovation capabilities and owns more than 100 inventions, utility models and design patents. NanFeng Corporation is the first in the ventilation industry to simultaneously obtain the "Design and Manufacturing License for Nuclear Grade Fans and Air Damper" and the "Design and Manufacturing License for Military Nuclear Safety Equipment". NanFeng is also one of the earliest manufacturer to obtain the "Manufacturing License for Stainless Steel Nuclear Power Tubes for Nuclear Safety Grade 1, 2, and 3 issued by the China Nuclear Safety Administration.

Deeply engaged in the fan industry for more than 30 years, NanFeng Corporation always adhering to development and innovation and has become a leading comprehensive solution supplier for ventilation and air handling systems in China. Product covers various industrial centrifugal fans, axial fans, mixed flow fans, cabinet fans, HVAC, kitchen-used fans, vortex fans, Fiberglass fan, etc. The company also customizes various professional field fans, such as high-temperature fan, coal powder fans, explosion-proof fans, High-temperature fire smoke dedicated Fans, dust removal fans, roof fans, spraying fans, industrial ceiling fans, etc., which are widely used in nuclear power, subways, tunnels, civil buildings and industrial fields.

30+ 年

深耕通风行业

Three Decades of Dedication
to Air Moving Industry

公司坚持“创新驱动、诚信为本、精于制造、稳于品质”的经营理念，成为中国暖通行业系统集成总承包的领跑者，为客户提供更节能环保、更优质专业的产品，实现“同创价值、协作共赢”。

因为专注，所以专业，因为专业，所以卓越，因为卓越，所以信赖。

Guided by the principle of "Driven by Innovation, Built on Integrity, Perfected in Manufacturing, Assured in Quality", the Company aspires to lead China's HVAC system integration and EPC contracting market. The Company is committed to delivering energy-efficient, environmentally responsible, and professionally engineered products, embodying its core value of "Collaborative Value Creation for Win-Win Success".

Because of our focus, we are professional. Because of our professionalism, we are outstanding. Because of our excellence, we are trusted.



公司实力 | Company Strength

公司资质证书 Certifications & Qualifications

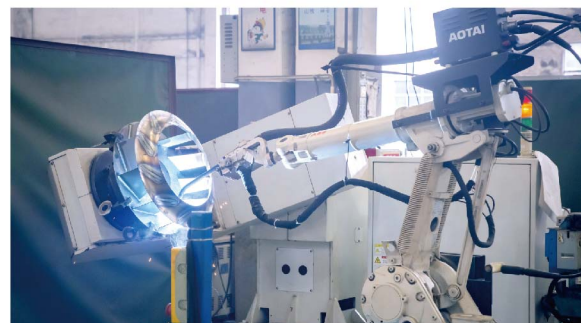


- 核电许可证
Nuclear Safety Equipment Design & Manufacturing License
- 实验室CNAS认证
CNAS Laboratory Accreditation Certificate
- SLS-NF实验室认证
Singapore Laboratory Accreditation Certificate
- ISO认证
Quality, Environment, Occupational Health and Safety Management System Certificate
- CE认证
CE marks for jet fan, axial fan and centrifugal fan
- 风机防爆认证
Fan Explosion Proof certificate
- 消防产品认证
Fire Product Certification
- 300°C/2h认证
Certificate of Compliance for jet fan and axial fan high temperature resistance

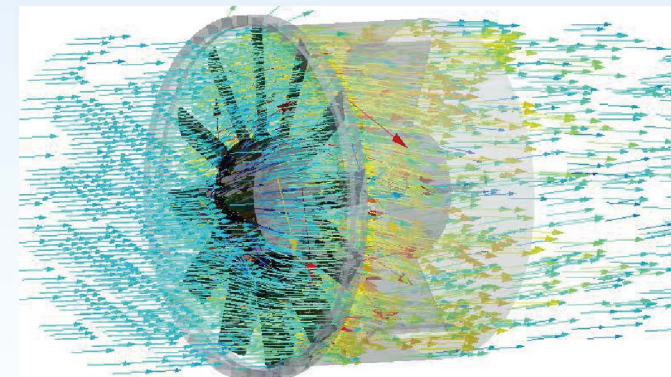
工艺及加工能力 | Process & Manufacturing Capabilities

我司拥有5万台生产设备, 不仅拥有大型AMADA数控激光切割机、数控转塔式冲床、数控折弯机、龙门等离子切割机、五轴联动大型加工中心、数控旋压及翻边设备等, 同时还具备提升生产工艺装备, 如焊接机械人、抛丸循环线及喷漆烘干线。

The Company is equipped with over 50,000 units of advanced manufacturing equipment, including: Heavy-duty AMADA CNC laser cutters, CNC turret punch, CNC bending machines, gantry plasma cutters, 5-Axis Gantry Machining Center, CNC spinning and flanging machines. Additionally, we utilize automated process equipment such as: Welding robots, continuous shot blasting lines, painting and drying lines. (Attach images)



检测能力 | Testing Capabilities



CFD流体力学分析 CFD Fluid Dynamics Analysis

风机叶轮 无损检测设备 Non-Destructive Testing Equipment for Fan Impeller



叶轮动平衡检测设备 Impeller Dynamic Balance Testing System



风机推力测试平台 Fan Thrust Test Platform





工程配套服务能力 Engineering Support & Service Capabilities

公司参与研发建设的国内外重点工程超过1000个, 公司具有一支丰富实践经验、技术素质高、爱岗敬业的现场售后服务技术人员。此外我们非常注重项目技术对接, 对每个项目的设备安装运行维护都提供专业的技术培训服务。

With a proven track record spanning over 1,000 domestic and international projects, the Company maintains a experience team of field service technicians renowned for their technical expertise and professional dedication. We prioritize seamless project coordination and deliver comprehensive technical training covering equipment installation, operation and maintenance for all project stakeholders.



NSL系列射流风机产品概述 NSL Jet Fan Series - Overview

NSL系列射流风机是南方风机股份有限公司依据JB/T10489《隧道用射流风机技术条件》(对标ISO13350国际标准)要求,设计制造的高效低噪产品。并通过XF211《消防排烟风机耐高温试验方法》及BS EN 12101-3的试验认证,取得相关消防产品认证证书。

NSL系列射流风机最大特点:耐高温电机直接处于高温烟气之中,无须另设冷风通道冷却电机。在发生火灾的情况下,整机能在300°C高温下能正常连续运行2小时。

The NSL jet fan series are high-efficiency low-noise products designed and manufactured by NanFeng Corporation in compliance with JB/T10489 Technical Specifications for Tunnel Jet Fans (equivalent to the ISO 13350 standard). The products have been certified according to XF211 Test Method for High Temperature Resistance of Fire Exhaust Fan and BS EN 12101-3, with the applicable fire product certification issued.

A key feature of the NSL jet fan series is its integral design where the high-temperature-resistant motor operates directly within smoke streams, eliminating the need for separate motor cooling systems. Under fire conditions, the fan can operate continuously at 300°C for 2 hours.



NSL系列射流风机产品优势 | NSL Jet Fan Series - Advantages

● **多类型。** 根据通风形式的不同,可提供直径315mm至1600mm的单向或双向可逆转射流风机。

● **高性能。** 先进的气动设计使得风机具有效率高、推力大的优点。单向射流风机,通常用于单向通风,特殊情况下实现风机反转,反向运行的风量、轴向推力是正转时的50%~80%。双向可逆射流风机,通常用于双向通风,双向可逆的射流机反转时的风量、轴向推力不低于正转的98%。

● **低噪声。** 射流风机采用高效的气动设计,叠加消声器的优质消声效果,确保风机噪声限值符合JB/T10489《隧道用射流风机技术条件》(对标ISO13350国际标准)要求。

● **性能保证。** NSL系列射流风机采用GB/T19843《工业用风机射流风机性能试验》(对标ISO13350国际标准)进行性能测试,同时按JB/T10489《隧道用射流风机技术条件》(对标ISO13350国际标准)完成型式检验项目。

● **耐热耐高温。** 风机分别按XF211《消防排烟风机耐高温试验方法》和BS EN 12101-3进行耐高温性能测试认证,确保风机耐高温性能优质,运行稳定可靠。

● **Multi model.** Available in diameters ranging from 315 mm to 1,600 mm, these jet fans can be provided in unidirectional or bidirectional reversible configurations based on ventilation requirements.

● **High Performance.** Advanced aerodynamic design ensures high efficiency and strong thrust. Unidirectional jet fan is usually used for unidirectional ventilation. In special cases, the fan can be reversed, and both airflow and axial thrust during reverse operation are 50%~80% of those during forward rotation. Bidirectional reversible jet fan is usually used for bidirectional ventilation. The airflow and axial thrust of the reversible jet fan during reverse rotation should not be less than 98% of that during forward rotation.

● **Low Noise.** Low Noise. The jet fan adopts an efficient aerodynamic design, combined with the superior noise-reducing performance of the silencer, ensuring that the fan noise limits comply with JB/T10489 Technical Specifications for Tunnel Jet Fans (equivalent to the ISO 13350 standard).

● **Performance Assurance.** The NSL jet fans undergo performance testing in accordance with GB/T 19843 Industrial Fans - Performance Testing of Jet Fans (equivalent to the ISO 13350 standard), while also completing type tests as per JB/T 10489 Technical Specifications for Tunnel Jet Fans (equivalent to the ISO 13350 standard).

● **Heat and High Temperature Resistance.** The fans undergo high temperature performance testing and certification in accordance with XF211 Test Method for High Temperature Resistance of Fire Exhaust Fan and BS EN 12101-3, ensuring superior high temperature resistance, stable operation, and reliable performance.

NSL

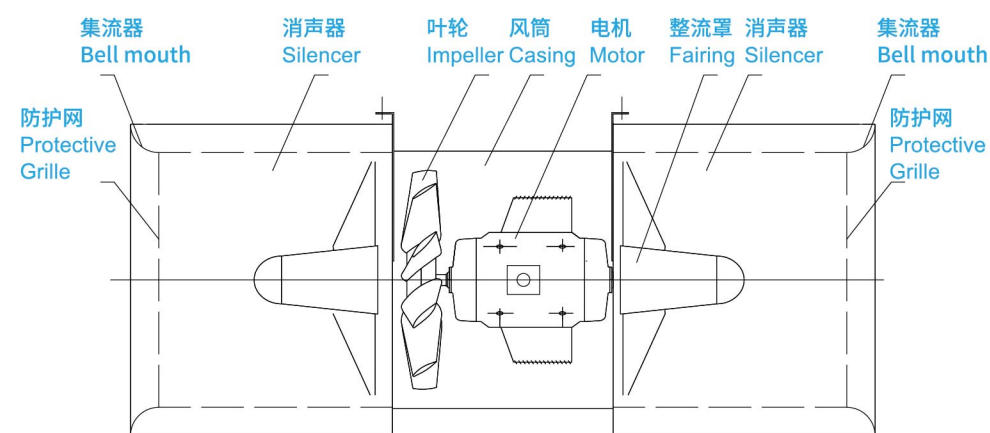
NSL系列射流风机的结构特点 | NSL Series Jet Fan -Structural Features

整机结构 Overall Structure

NSL系列射流风机为整体结构,包括:防护网、集流器、消声器、整流罩、叶轮、风筒、电机等。

叶轮与电机采用直连方式,配用电机可采用B30或B3安装结构型式。B30结构电机采用Z形电机支撑板将电机与后风筒用高强度螺栓联结紧固;B3结构电机采用“π”或“M”字形电机支撑板,将电机座装在与风筒焊接的电机支撑板上,利用高强度螺栓联结紧固。集流器和整流罩安装在消声器内部,消声器通过螺栓连接在风筒两端法兰上,固定消声器的螺栓同时固定风筒支腿。

电机电源线通过专用导线管引出到后风筒外接线盒上;电机注油、排油采用铜制导管引出,连接到风筒外相应位置的油嘴上,注排油十分方便。



Overall structure: The NSL jet fan is an integrated unit, consisting of protective grille, bell mouth, silencer, fairing, impeller, casing, and motor.

The impeller employs a direct-drive configuration compatible with either B30 or B3 motor mounting types. The B30 configuration utilizes a Z-shaped support plate fastened to the rear casing with high-strength bolts. For the B3 configuration, the motor is base-mounted onto a π or M-shaped support plate (welded to the casing) and secured with high-strength bolts. The bell mouth and fairing are installed inside the silencer. The silencer is bolted to the flanges at both ends of the casing, with the same bolts used to secure the silencer also fastening the casing support legs.

The Rated output cable is housed within a dedicated conduit that terminates at the externally located terminal box. For maintenance accessibility, copper lubrication lines are routed to externally positioned oil nozzles, facilitating convenient oil filling and drainage.



风筒

风筒选用符合中国GB/T3274《碳素结构钢和低合金结构钢热轧薄钢板及钢带》或欧标EN10025的优质碳钢制作,材料厚度随机号大小按JB/T10489《隧道用射流风机技术条件》(对标ISO13350国际标准)执行,也可以根据客户要求定制风筒厚度。

风筒表面按GB/T13912《金属覆盖层 钢铁制件热浸锌层技术要求及试验方法》对标ISO 1461要求,采用整体热浸锌处理,锌层厚度达到75μm以上,也可根据客户要求调整镀锌层厚度,或采用其它材质制造和其它表面涂装方式。



Casing

The casing is fabricated from high-quality carbon steel compliant with GB/T 3274 Hot-Rolled Plates, Sheets and Strips of Carbon Structural Steels and High Strength Low Alloy Structural Steels or EN 10025, with material thickness specified per JB/T10489 Technical Specifications for Tunnel Jet Fans (equivalent to the ISO13350 standard) according to fan size, or customized per customer specifications.

The casing complies with GB/T 13912 Metallic Coatings—Hot Dip Galvanized Coatings on Fabricated Iron and Steel Articles—Specifications and Test Methods (equivalent to the ISO 1461 standard), featuring an overall hot-dip galvanized finish with a zinc coating thickness exceeding 75 μm or customized zinc thickness. Alternative materials or specialized surface treatments are also available to meet specific project requirements.



● 叶轮

叶轮采用GB/T 15115《压铸铝合金》对标EN 1706标准的高强度压铸铝合金制作。叶片和轮毂的联接采用简单易拆卸的结构，对开轮毂采用9.8级高强度螺栓压紧。每个叶轮整体通过JB/T9101《通风机转子平衡》(对标ISO 1940-1国际标准)平衡测试，确保风机振动符合JB/T8689《通风机振动检测及其限值》及ISO14695的要求，并通过JB/T 6445《通风机叶轮超速试验》超速试验，满足强度要求。

● Impeller

The impeller is constructed from high-strength die-cast aluminum alloy in accordance with GB/T 15115 Die Casting Aluminum Alloys (equivalent to the EN 1706 standard). The blade-to-hub connection features a straightforward design for easy disassembly. The split hub is secured with high-tensile Grade 9.8 bolt. Each complete impeller undergoes balance testing according to JB/T 9101 Fan Rotor Balance (equivalent to the ISO 1940-1 standard) to ensure the fan vibration meets the requirements of JB/T 8689 Fan Vibration Detection and its Limited Value and ISO 14695, and un-

dergoes overspeed testing according to JB/T 6445 Overspeed Test for Fan Impeller to meet overspeed strength requirements.



● 电动机

风机采用B30或B3的高效节能电机，效率符合GB18613中的二级和三级能效标准，并满足IEC60034-30-1 IE4、IE3和IE2效率指标。安装尺寸符合IEC标准和国家标准。

电机有能力经受耐高温消防考验，满足S1和S2两种工况运行：在-20℃至+40℃温度，海拔不超过1000m，月平均最高相对湿度不超过90%环境下长期连续运行；当紧急冒烟、排烟时，启动S2短时工作运行。如周围环境温度高达300℃，能可靠运120分钟，符合高温消防电机的紧急工况等级。

电机额定电源可选220/380V、230/400V、380/660V、400/690V，50Hz或60Hz等。

电机可根据客户使用条件采用H或F级绝缘材料、防护等级IP55 (IP54或IP65)、TH湿热等级等技术要求来制造，保证电机在高温高湿的环境下安全可靠地运行。

电机的轴承采用NSK、SKF等国际知名品牌高温轴承，同时可根据用户需求，在电机轴承处设置轴温传感器和振动传感器，以监控电机的安全运行。

电机出线电缆采用金属软管保护，可根据客户需求配用不锈钢编织软管或金属包塑软管。



● Motor

The fan is equipped with a high-efficiency B30 or B3 motor that meets the efficiency standards of both GB18613 (Grades 2 and 3) and IEC 60034-30-1 (IE4, IE3, and IE2). The installation dimensions comply with the relevant IEC and Chinese national standards.

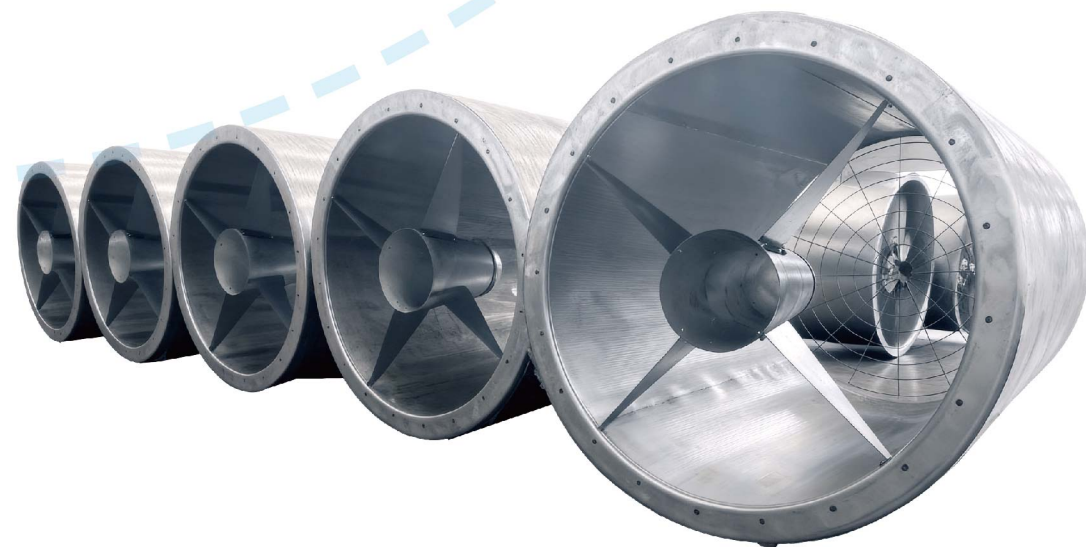
The motor is designed to withstand high-temperature fire protection tests and operate under both S1 and S2 duty cycles. Continuous operation (S1): Suitable for environments ranging from -20°C to +40°C, at altitudes up to 1,000 m, and with a monthly average relative humidity of ≤90%. Short-time operation (S2): Intended for emergency smoke exhaust scenarios. The motor ensures reliable 2-hour operation at 300°C ambient temperature, certified for emergency duty classification in high-temperature fire applications.

Rated power supply options include 220/380 V, 230/400 V, 380/660 V, and 400/690 V at 50 or 60 Hz.

The motor can be manufactured with Class H or F insulation, IP55 (or IP54/IP65) protection, and TH damp-heat classification, ensuring reliable operation in high-temperature, high-humidity environments.

The motor is equipped with high-temperature bearings from top brands like NSK and SKF. Optional sensors are available for bearing temperature and vibration monitoring.

The outgoing cable of the motor is protected by flexible metallic conduits with options for stainless steel braided or plastic-coated finishes based on client requirements.



● 消声器

消声器为两层圆筒结构,均采用符合GB/T2518《连续热镀锌钢板及钢带》对标EN 10142优质镀锌钢板制作,锌层厚度达到20 μm 以上,也可根据客户要求调整镀锌层厚度,或采用其它材质制造和其它表面涂装方式。其中内筒为穿孔板,其外包覆高效消声材料。各零部件之间通过不锈钢拉铆钉和螺钉联接,避免了烧焊对镀锌层的破坏。内外筒材质和厚度可以根据用户要求定制。

标准配置的消声材料采用容重为24kg/m³的玻璃纤维棉,长期使用无吹出、耐高温(750°C)、耐腐蚀,疏密度优异。针对隔音性能、环保要求更加严格的使用场所,用户可以定制消声材料克重以及消声材料类别,包括48、64kg/m³的克重,玻璃纤维棉、矿物棉。

消声器长度有1D、1.5D和2D三种标准,分别装在风机两端。消声器远离风筒一端装有防坠吊环,可以通过钢丝绳固定防止消声器发生意外坠落。消声器长度可以按用户要求定制。



● Silencer

The silencer features a double-layer cylindrical structure, both layers made of high-quality galvanized steel sheets compliant with GB/T 2518 (Continuous Hot-Dip Galvanized Steel Sheets and Strips, equivalent to EN 10142), with a zinc coating thickness exceeding 20 μm or customized zinc thickness. Alternative materials or specialized surface treatments are also available to meet specific project requirements. The inner cylinder is a perforated plate, externally wrapped with high-efficiency sound-absorbing material. All components are connected via stainless steel rivets and screws, avoiding damage to the galvanized layer caused by welding. The material and thickness of the inner and outer cylinders can be tailored to user requirements.

The standard sound-absorbing material has a bulk density of 24 kg/m³ glass fiber wool, ensuring no blow-off during long-term use, high-temperature resistance (750°C), corrosion resistance, and excellent porosity. For applications with stricter noise insulation and environmental requirements, users can customize sound-absorbing materials with different densities (48kg/m³, 64 kg/m³) and material types, including glass fiber wool and mineral wool.

The silencer comes in three standard lengths (1D, 1.5D, and 2D), installed at both ends of the fan. A fall arrest lifting eye is mounted at the end of the silencer away from the casing, allowing secure attachment with a steel wire rope to prevent accidental falls. The silencer length can also be tailored to user requirements.

● 集流器

集流器装在消声器一侧,选用符合中国GB/T3274《碳素结构钢和低合金结构钢热轧薄钢板及钢带》或欧洲标准EN10025的优质碳钢制作,表面按GB/T13912《金属覆盖层 钢铁制件热浸锌层技术要求及试验方法》(对标ISO 1461国际标准)要求,采用热镀锌处理,锌层厚度达到75 μm 以上,也可根据客户要求调整镀锌层厚度,或采用其它材质制造和其它表面涂装方式。集流器起到导流气体均匀平稳的作用,提高风机效率和降低风机噪声。

● Bell mouth

The bell mouth is installed on one side of the silencer and is made of high-quality carbon steel compliant with GB/T 3274 Hot-Rolled Plates, Sheets and Strips of Carbon Structural Steels and High Strength Low Alloy Structural Steels or EN 10025. The bell mouth complies with GB/T 13912 Metallic Coatings—Hot Dip Galvanized Coatings on Fabricated Iron and Steel Articles—Specifications and Test Methods (equivalent to the ISO 1461 standard), featuring the hot-dip galvanized finish with a zinc coating thickness exceeding 75 μm or customized zinc thickness. Alternative materials or specialized surface treatments are also available to meet specific project requirements. The flow bell mouth serves to guide the gas evenly and smoothly, thereby improving fan efficiency and reducing fan noise.



● 整流罩

整流罩采用符合GB/T2518《连续热镀锌钢板及钢带》对标EN 10142优质镀锌钢板制作,锌层厚度达到20 μm 以上,也可根据客户要求调整镀锌层厚度,或采用其它材质制造和其它表面涂装方式。整流罩采用流线型结构成型,可使风机内流场得到优化,提高风机效率和降低风机噪声。

● Fairing

The fairing is made of high-quality galvanized steel sheets compliant with GB/T 2518 (Continuous Hot-Dip Galvanized Steel Sheets and Strips, equivalent to EN 10142), with a zinc coating thickness exceeding 20 μm or customized zinc thickness. Alternative materials or specialized surface treatments are also available to meet specific project requirements. The streamlined fairing design optimizes the internal flow field of the fan, improving efficiency and reducing noise.



● 防护网

防护网采用钢丝网结构,可阻挡手指、工具或杂物接触扇叶,避免因异物干扰导致风机损坏或引发安全隐患,保护设备安全。

● Protective Grille

The protective grille, constructed from wire mesh, prevents fingers, tools, and debris from coming into contact with the fan blades. This avoids damage and safety hazards caused by foreign objects, ensuring equipment safety.

其他配件 | Other Accessories

风机可以根据客户需求配备以下相关配置, 客户可以根据自身要求采购对应配件。

The fan can be configured with the following accessories according to customer requirements, allowing customers to purchase corresponding accessories according to their specific needs.

- **防坠钢丝绳及其扎头。**可根据用户需求配备使用的防坠钢丝绳及其扎头, 起到防止消声器意外坠落作用。

- **Fall arrest steel wire rope and its clips.** The fall arrest steel wire rope and its clips can be optionally provided as per user requirements to prevent accidental dislodgment of the silencer.



- **减振器。**减振器通过吸收和隔离风机运行时产生的振动能量, 降低传递到建筑结构或其他设备的振动强度, 从而减少噪音传播。

- **Vibration Damper.** The vibration damper absorbs and isolates the vibrational energy produced during fan operation, reducing the intensity of vibrations transmitted to the building structure or other equipment, thereby minimizing noise propagation.



- **风机安装吊架或支架。**可根据风机安装现场条件提供多种形式的安装吊架或支架, 吊架或支架采用符合中国GB/T3274《碳素结构钢和低合金结构钢热轧薄钢板及钢带》或欧洲标准EN10025的优质碳钢制作, 执行GB/T13912《金属覆盖层 钢铁制件热浸锌层 技术要求及试验方法》(对标ISO 1461国际标准)要求, 采用表面热浸锌处理, 锌层厚度达到75μm以上, 也可根据客户要求采用其它材质制造, 或调整镀锌层厚度, 或者其它表面涂装方式。

- **Fan installation hangers or supports.** Installation hangers or supports can be provided in various forms based on the installation conditions at the fan site. The hangers or supports are made of high-quality carbon steel compliant with GB/T 3274 Hot-Rolled Plates, Sheets and Strips of Carbon Structural Steels and High Strength Low Alloy Structural Steels or EN 10025. They comply with GB/T 13912 Metallic Coatings—Hot Dip Galvanized Coatings on Fabricated Iron and Steel Articles—Specifications and

Test Methods (equivalent to the ISO 1461 standard), featuring the hot-dip galvanized finish with a zinc coating thickness exceeding 75 μm or customized zinc thickness. Alternative materials or specialized surface treatments are also available to meet specific project requirements.

- **风向调节阀。**安装于风机出风端, 主要用于控制空气流通方向及流量的大小, 以满足不同使用场景的需求, 保障空气流动的安全性及效率。

- **Air Control Damper.** Installed at the outlet end of the fan, the valve is primarily used to regulate airflow direction and Volume flow to meet diverse operational requirements, ensuring safety and efficiency in air circulation.



风机如何选型 | How to select fan model?

列如:需求流量10.4m³/s, 推力403N, 要求单向射流风机。

从单向射流风机性能参数表流量列中找到10.4值, 然后在对应行里读取推力403N, 机号63, 电机功率15kw, 转速2900rpm。

确定适合型号的射流风机后, 列出对应的风机型号信息。

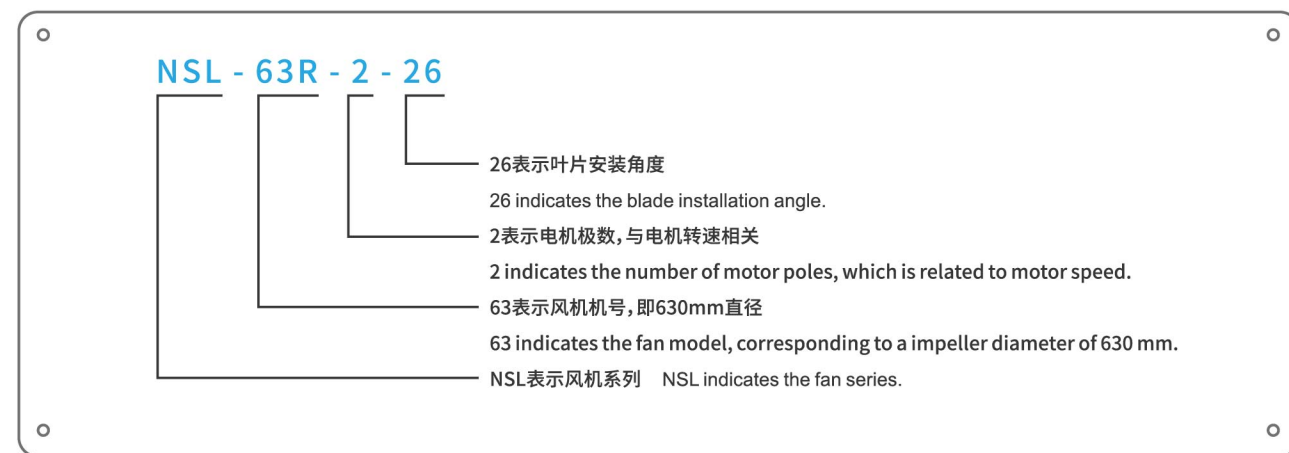
For example: Required Volume flow: 10.4 m³/s, axial thrust: 403 N, uni-directional jet fan.

From the uni-directional jet fan performance parameter table, locate the 10.4 value under the Volume flow column, then read the corresponding axial thrust (403 N), fan model (NSL-63R), Rated output (15 kW), and speed (2900 rpm) in the same row.

After determining the suitable model, list the corresponding fan model information.

选型结果为: 单向射流风机NSL-63R-2-26

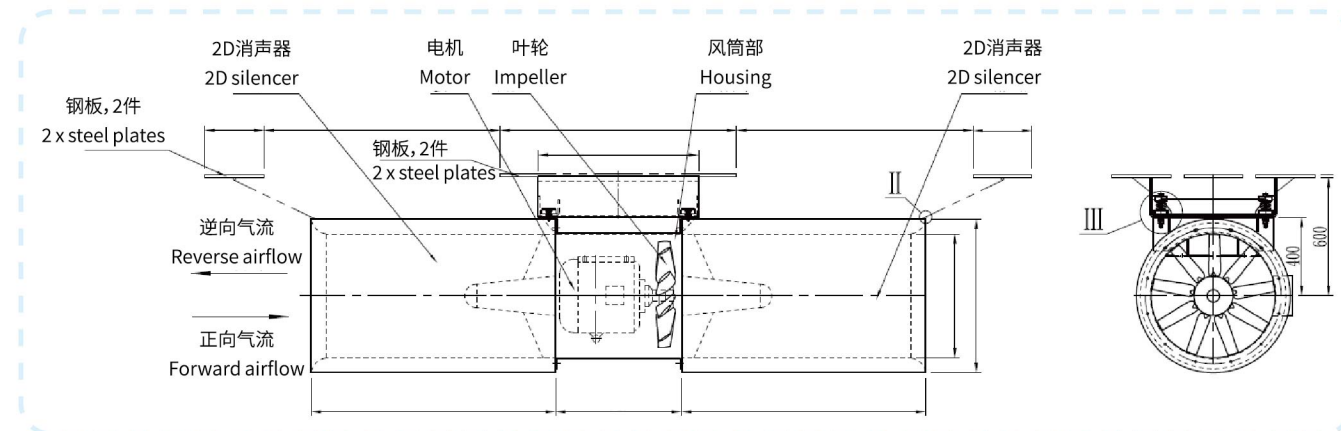
Fan model selection: Uni-directional jet fan NSL-63R-2-26



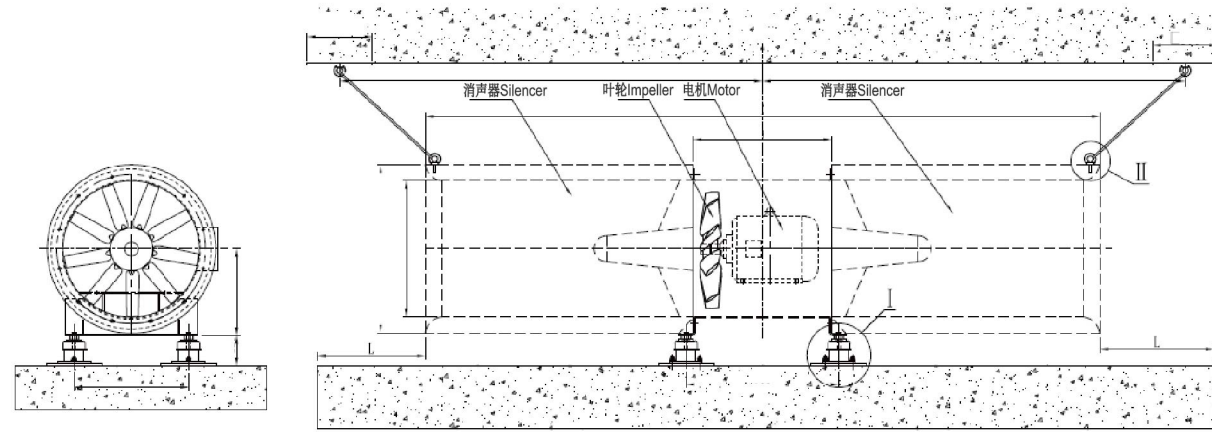
风机安装方式 | Fan Installation Method

- **吊架安装。**隧道空间有限需要把风机安装在隧道顶部时, 通常采用吊装形式。吊装风机需要通过专用吊架固定在隧道顶部, 然后采用减振器降风机连接到吊架上, 如下图:

- **Hanging Installation.** When space in the tunnel is limited and the fan needs to be installed at the tunnel ceiling, hanging installation is typically used. The hanging fan must be secured to the tunnel ceiling using a dedicated hanger, and a vibration damper is used to connect the fan to the hanger, as shown below:



- **卧式安装。**对于有特殊安全要求的安装环境,可在隧道顶部预制混凝土夹层,风机采用卧式安装形式装在夹层上,如下图:
- **Horizontal Installation.** For installation environments with special safety requirements, a prefabricated concrete mezzanine can be constructed at the tunnel ceiling, with the fan installed in a horizontal orientation on the mezzanine, as shown in the figure below:



- **侧壁安装。**对于顶部空间有限而侧面有足够空间的安装环境,可在隧道侧壁预制混凝土框架结构或采用型钢支架固定,风机采用卧式安装形式装在框架或支架上,如图1、图2:
- **Sidewall Installation.** For installation environments with limited overhead space but sufficient space on the sides, a prefabricated concrete frame structure can be built into the tunnel sidewall, or structural steel supports can be used for mounting. The fan is installed in a horizontal orientation on the frame or supports, as shown in the figure below:

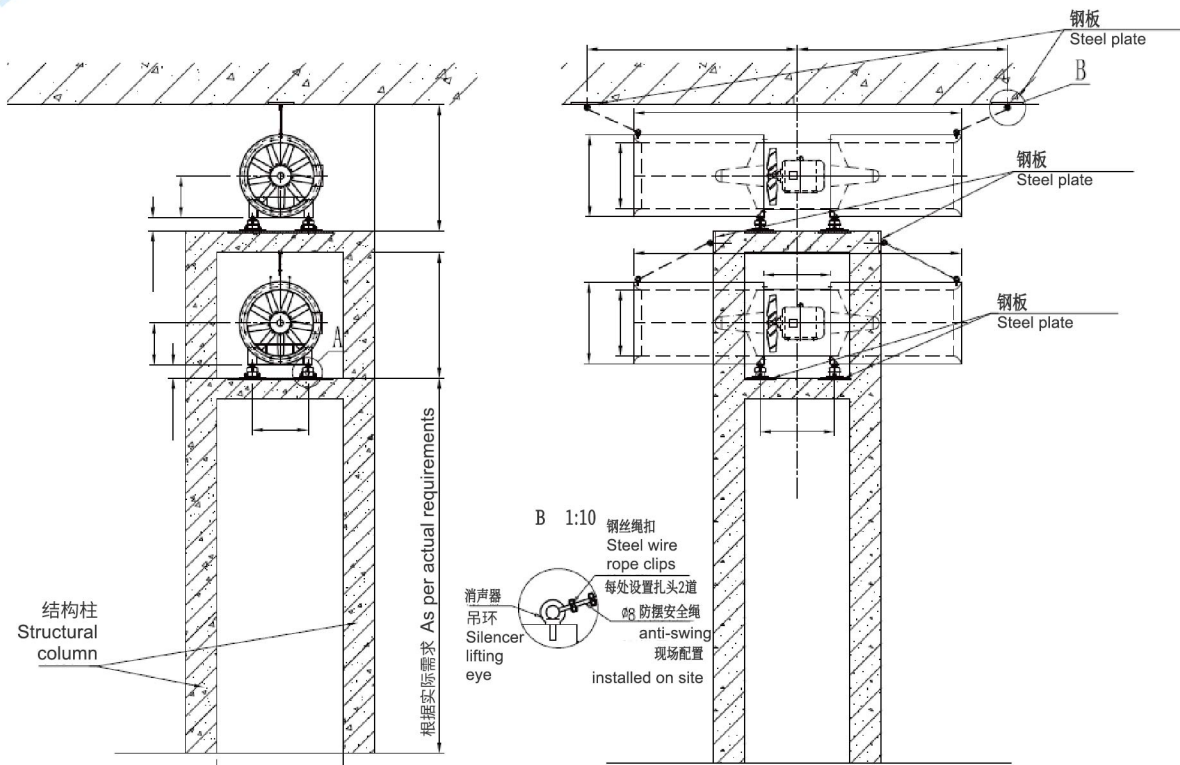


图1、预制混凝土框架结构安装
Installation on the Prefabricated Concrete Frame Structure

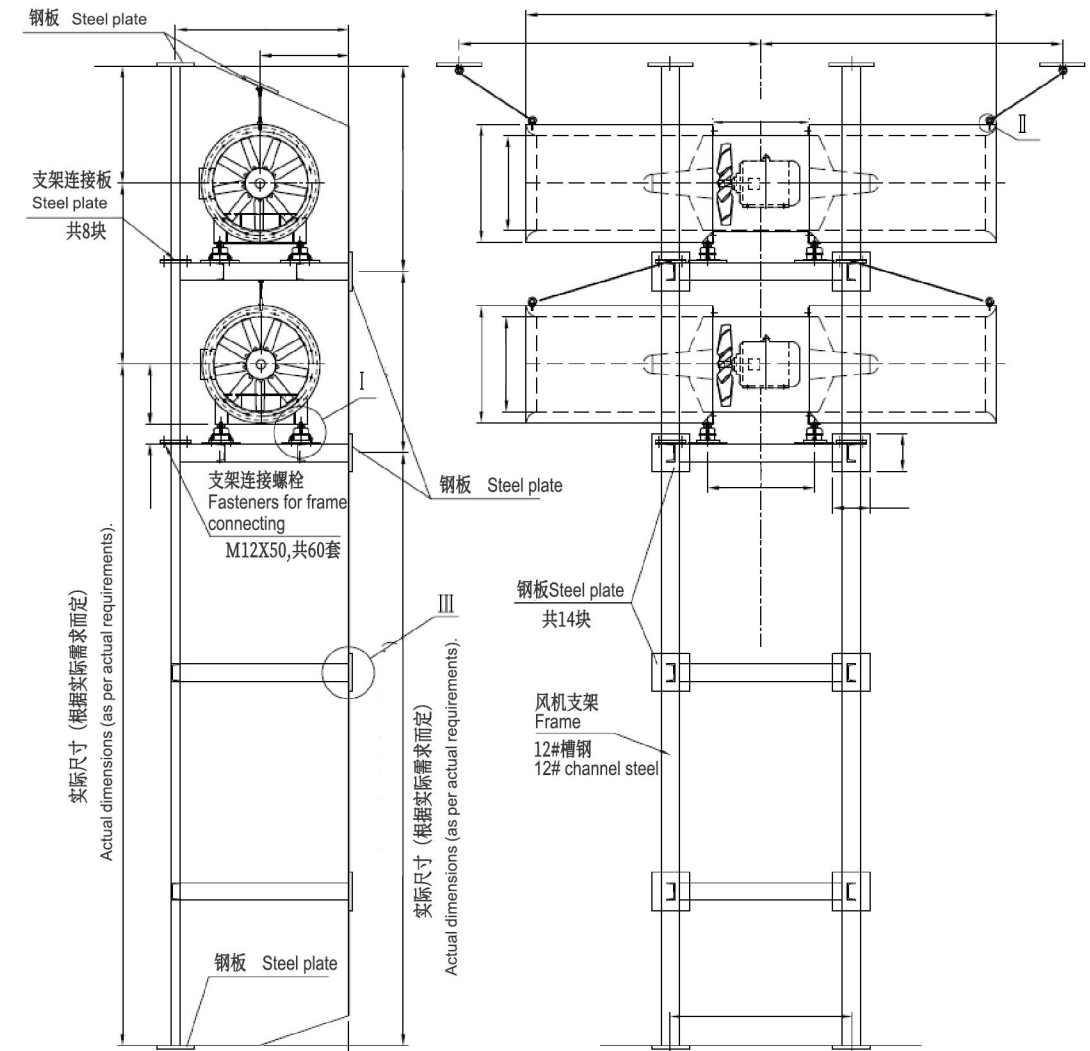


图2、型钢支架安装
Installation on the Section Steel Supporting Frame



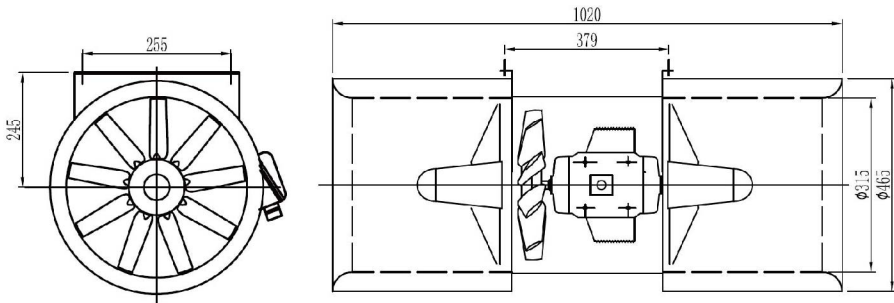
风机性能噪音曲线图

Fan Air Performance and Sound Data Curve

NSL-31.5R,50Hz,1D消声器Silencer, 单向uni-directional

风机型号 Fan model	电机极数 Pole no.	叶轮转速 Impeller speed	叶片角度 Blade pitch	电机功率 Rated output	流量 Volume Flow	出口风速 Outlet velocity	轴向推力 Axial thrust	吸收功率 Absorption power	推力与功率比 Thrust/power	声功率级 Sound power	声压级 Sound pressure
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-31.5R	2	2900	20	0.25	0.9	11.5	10	0.12	83.3	80	52
			30	0.37	1.2	15.4	20	0.29	69	81	53
			36	0.55	1.4	18	25	0.46	54.3	83	54

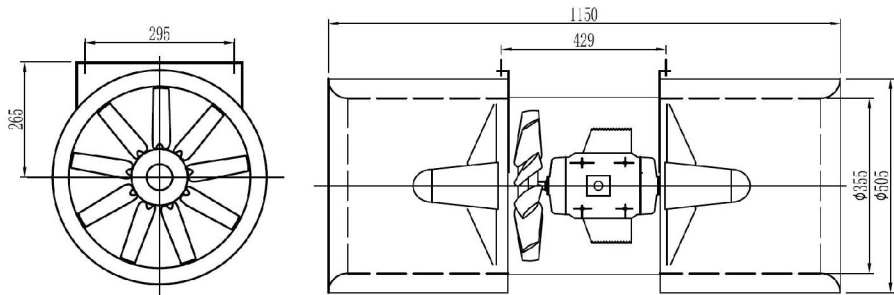
外形图 (1D消声器)
Dimension with 1D Silencer



NSL-35.5R,50Hz,1D消声器Silencer, 单向uni-directional

风机型号 Fan model	电机极数 Pole no.	叶轮转速 Impeller speed	叶片角度 Blade pitch	电机功率 Rated output	流量 Volume flow	出口风速 Outlet velocity	轴向推力 Axial thrust	吸收功率 Absorption power	推力与功率比 Thrust/power	声功率级 Sound power	声压级 Sound pressure
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-35.5R	2	2900	22	0.75	1.4	14.1	20	0.28	71.4	83	53
			28	1.1	1.7	17.2	30	0.51	58.8	84	54
			36	1.1	2	20.2	45	0.83	54.2	85	55

外形图 (1D消声器)
Dimension with 1D Silencer

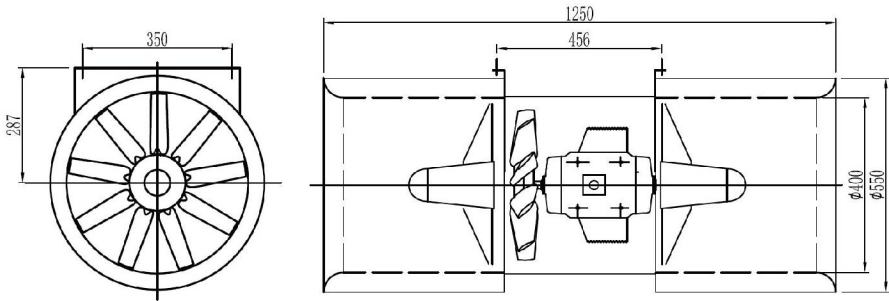


● 单向风机 | Uni-directional Fan ➡

NSL-40R,50Hz,1D消声器Silencer, 单向uni-directional

风机型号 Fan model	电机 极数 Pole no.	叶轮 转速 Impeller speed	叶片 角度 Blade pitch	电机 功率 Rated output	流量 Volume flow	出口 风速 Outlet velocity	轴向 推力 Axial thrust	吸收功率 Absorption power	推力与 功率比 Thrust/power	声功 率级 Sound power	声压级 Sound pressure
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-40R	2	2900	20	0.75	2.1	16.7	40	0.59	67.8	86	54
			28	1.5	2.6	20.7	60	1.13	53.1	89	55
			34	2.2	3	23.9	80	1.74	46	91	56

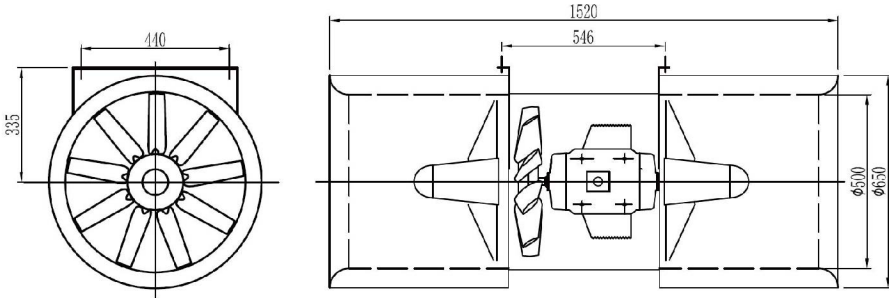
外形图 (1D消声器)
Dimension with 1D Silencer



NSL-50R,50Hz,1D消声器Silencer, 单向uni-directional

风机型号 Fan model	电机 极数 Pole no.	叶轮 转速 Impeller speed	叶片 角度 Blade pitch	电机 功率 Rated output	流量 Volume flow	出口 风速 Outlet velocity	轴向 推力 Axial thrust	吸收功率 Absorption power	推力与 功率比 Thrust/power	声功 率级 Sound power	声压级 Sound pressure
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-50R	2	2900	25	4	5	25.5	152	3.3	46.1	91	56
			32	5.5	5.7	29	200	4.87	41.1	94	59
			36	7.5	6.1	31.1	231	5.99	38.6	96	61

外形图 (1D消声器)
Dimension with 1D Silencer

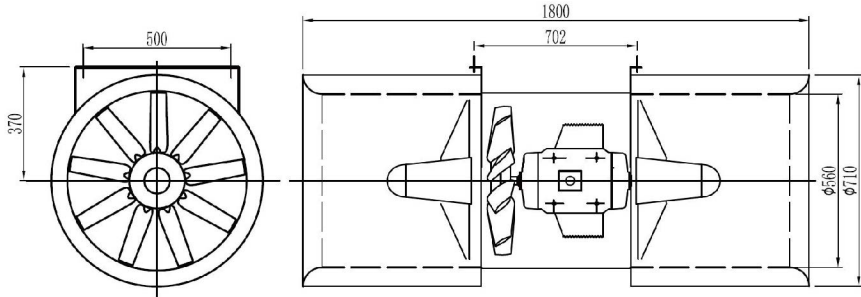


➡ 单向风机 | Uni-directional Fan ●

NSL-56R,50Hz,1D消声器Silencer, 单向uni-directional

风机型号 Fan model	电机 极数 Pole number	叶轮 转速 Impeller speed	叶片 角度 Blade pitch	电机 功率 Rated output	流量 Volume flow	出口 风速 Outlet velocity	轴向 推力 Axial thrust	吸收功率 Absorption power	推力与 功率比 Thrust/power	声功 率级 Sound power	声压级 Sound pressure
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-56R	2	2900	26	7.5	7	28.4	246	5.73	42.9	96	61
			30	11	7.6	30.9	280	7.37	38	97	62
			35	11	8.2	33.3	346	9.23	37.5	100	65

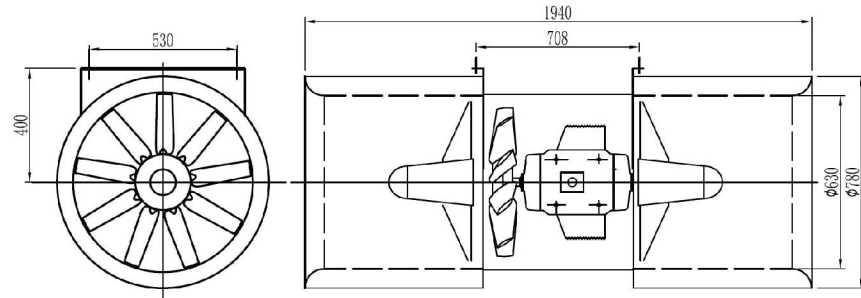
外形图 (1D消声器)
Dimension with 1D Silencer



NSL-63R,50Hz,1D消声器Silencer, 单向uni-directional

风机型号 Fan model	电机 极数 Pole number	叶轮 转速 Impeller speed	叶片 角度 Blade pitch	电机 功率 Rated output	流量 Volume flow	出口 风速 Outlet velocity	轴向 推力 Axial thrust	吸收功率 Absorption power	推力与 功率比 Thrust/power	声功 率级 Sound power	声压级 Sound pressure
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-63R	2	2900	26	15	10.4	33.4	403	11.8	34.2	99	65
			31	18.5	11.7	37.5	497	16.7	29.7	101	67
			35	22	12.9	41.4	560	20.9	26.9	103	69
			40	30	13.5	43.3	601	25.7	23.4	104	70

外形图 (1D消声器)
Dimension with 1D Silencer

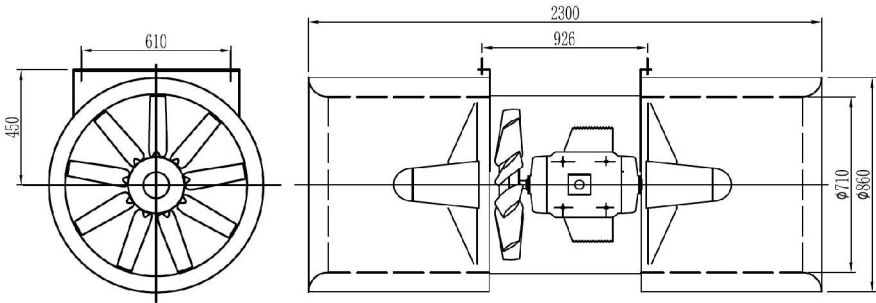


● 单向风机 | Uni-directional Fan ➡

NSL-71R,50Hz,1D消声器Silencer, 单向uni-directional

风机型号 Fan model	电机极数 Pole number	叶轮转速 Impeller speed	叶片角度 Blade pitch	电机功率 Rated output	流量 Volume flow	出口风速 Outlet velocity	轴向推力 Axial thrust	吸收功率 Absorption power	推力与功率比 Thrust/power	声功率级 Sound power	声压级 Sound pressure
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-71R	2	2950	22	18.5	13	32.8	500	14.2	35.2	101	68
			25	22	14.2	35.9	600	18.6	32.3	103	70
			28	30	15.2	38.4	700	22.8	30.8	104	71
			31	37	16.3	41.2	800	28.1	28.5	105	72

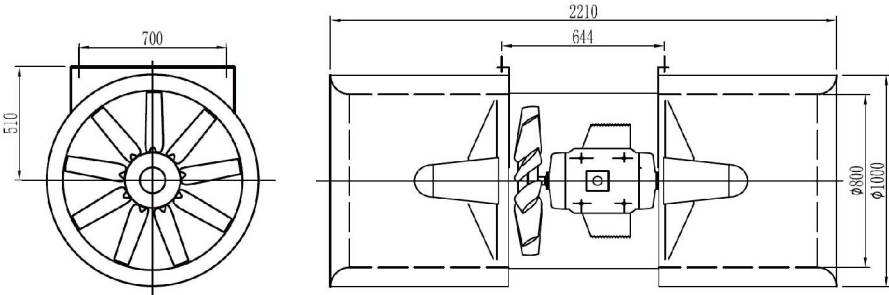
外形图 (1D消声器)
Dimension with 1D Silencer



NSL-80R,50Hz,1D消声器Silencer, 单向uni-directional

风机型号 Fan model	电机极数 Pole number	叶轮转速 Impeller speed	叶片角度 Impeller blade angle	电机功率 Rated output	流量 Volume flow	出口风速 Outlet velocity	轴向推力 Axial thrust	吸收功率 Absorption power	推力与功率比 Thrust/power	声功率级 Sound power	声压级 Sound pressure
	P	r/min	angle	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-80R	4	1450	24	5.5	10.5	20.9	239	4.66	51.3	86	54
			31	7.5	12.2	24.3	323	7.31	44.2	87	55
			37	11	13.2	26.3	394	9.27	42.5	90	58
			42	15	14.6	29	500	12.5	40.1	94	62

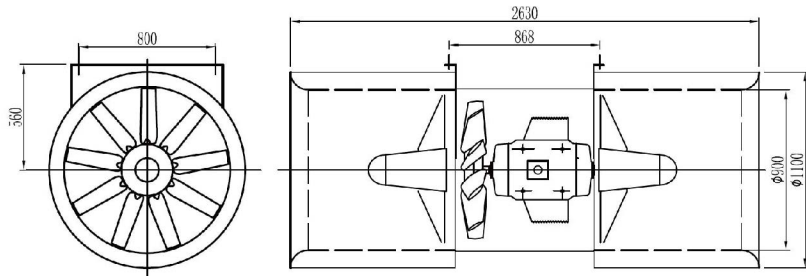
外形图 (1D消声器)
Dimension with 1D Silencer



NSL-90R,50Hz,1D消声器Silencer, 单向uni-directional

风机型号 Fan model	电机极数 Pole number	叶轮转速 Impeller speed	叶片角度 Blade pitch	电机功率 Rated output	流量 Volume flow	出口风速 Outlet velocity	轴向推力 Axial thrust	吸收功率 Absorption power	推力与功率比 Thrust/power	声功率级 Sound power	声压级 Sound pressure
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-90R	4	1450	27	11	15.8	24.8	440	9.87	44.6	90	58
			33	15	17.6	27.7	554	13.7	40.4	92	60
			38	18.5	18.7	29.4	649	16.4	39.5	94	62
			42	22	20	31.4	700	20	35	97	65

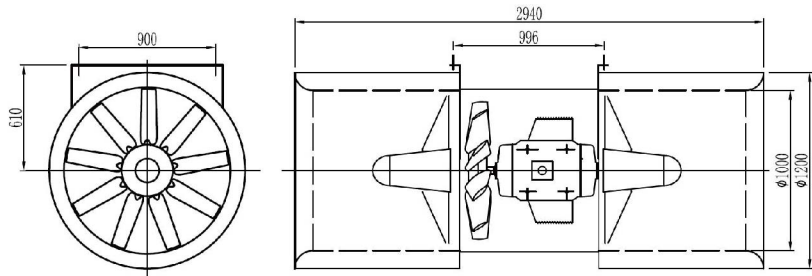
外形图 (1D消声器)
Dimension with 1D Silencer



NSL-100R,50Hz,1D消声器Silencer, 单向uni-directional

风机型号 Fan model	电机极数 Pole number	叶轮转速 Impeller speed	叶片角度 Blade pitch	电机功率 Rated output	流量 Volume flow	出口风速 Outlet velocity	轴向推力 Axial thrust	吸收功率 Absorption power	推力与功率比 Thrust/power	声功率级 Sound power	声压级 Sound pressure
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-100R	6	940	28	5.5	14	17.8	291	4.5	64.7	84	50
			34	7.5	15.5	19.7	364	6.11	59.6	85	51
			42	11	16.7	21.3	459	7.69	59.7	90	56
	4	1470	24	15	19.9	25.3	590	12.9	45.6	93	61
			28	18.5	21.9	27.9	710	17.3	41	94	62
			33	22	23.5	29.9	840	21.3	39.4	96	64
			40	30	26	33.1	1020	28.9	35.3	100	68

外形图 (1D消声器)
Dimension with 1D Silencer

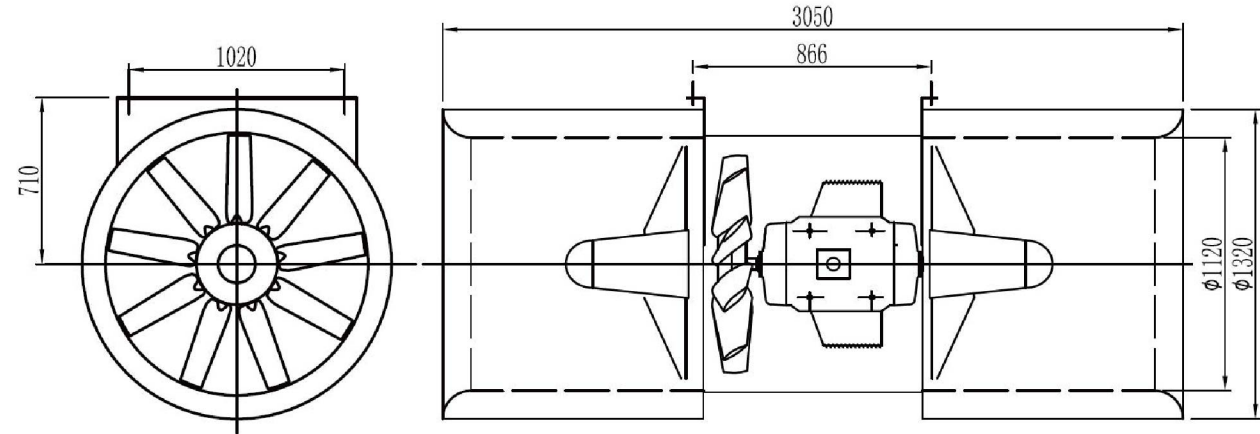


● 单向风机 | Uni-directional Fan ➡

NSL-112R,50Hz,1D消声器Silencer, 单向uni-directional

风机型号 Fan model	电机 极数	叶轮 转速	叶片 角度	电机 功率	流量	出口 风速	轴向 推力	吸收功率	推力与 功率比	声功 率级	声压级
	Pole number	Impeller speed	Blade pitch	Rated output	Volume flow	Outlet velocity	Axial thrust	Absorption power	Thrust/power	Sound power	Sound pressure
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-112R	6	960	27	7.5	18.1	18.4	401	6.22	64.5	89	55
			29	11	20.4	20.7	499	8.88	56.2	89	55
			36	15	22.7	23	619	12.2	50.8	91	57
			40	18.5	24.3	24.7	721	15.1	47.9	93	59
	4	1470	22	18.5	26	26.4	805	18.4	43.8	98	66
			28	30	30.5	31	1125	29.8	37.8	99	67
			34	45	34.2	34.7	1410	41.8	33.7	101	69
			39	55	36.6	37.1	1610	51.2	31.5	103	71

外形图 (1D消声器)
Dimension with 1D Silencer

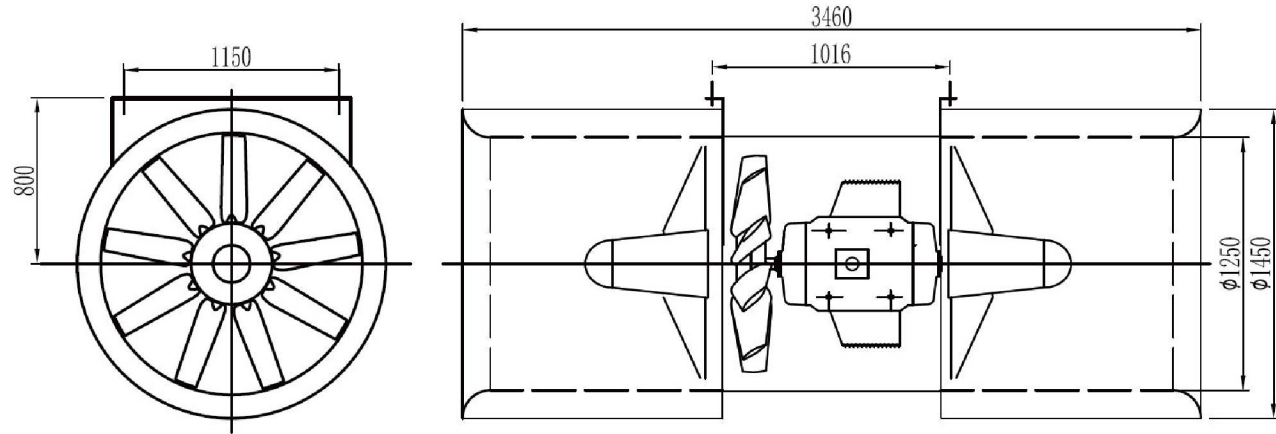


➡ 单向风机 | Uni-directional Fan ●

NSL-125R,50Hz,1D消声器Silencer, 单向uni-directional

风机型号 Fan model	电机 极数	叶轮 转速	叶片 角度	电机 功率	流量	出口 风速	轴向 推力	吸收功率	推力与 功率比	声功 率级	声压级
	Pole number	Impeller speed	Blade pitch	Rated output	Volume flow	Outlet velocity	Axial thrust	Absorption power	Thrust/power	Sound power	Sound pressure
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-125R	6	960	25	15	26.8	21.8	649	12.9	50.2	92	58
			30	18.5	30	24.4	807	18.1	44.5	94	60
			33	22	31.7	25.8	899	21.4	42	95	61
			40	30	35.2	28.7	1103	29.4	37.5	97	63
	4	1470	21	30	36	29.3	1180	29.1	40.5	101	69
			22	37	37	30.2	1280	34.3	37.4	101	69
			25	45	39.5	32.2	1450	41.6	34.9	102	70
			27	55	42.5	34.6	1670	51.7	32.3	103	71

外形图 (1D消声器)
Dimension with 1D Silencer

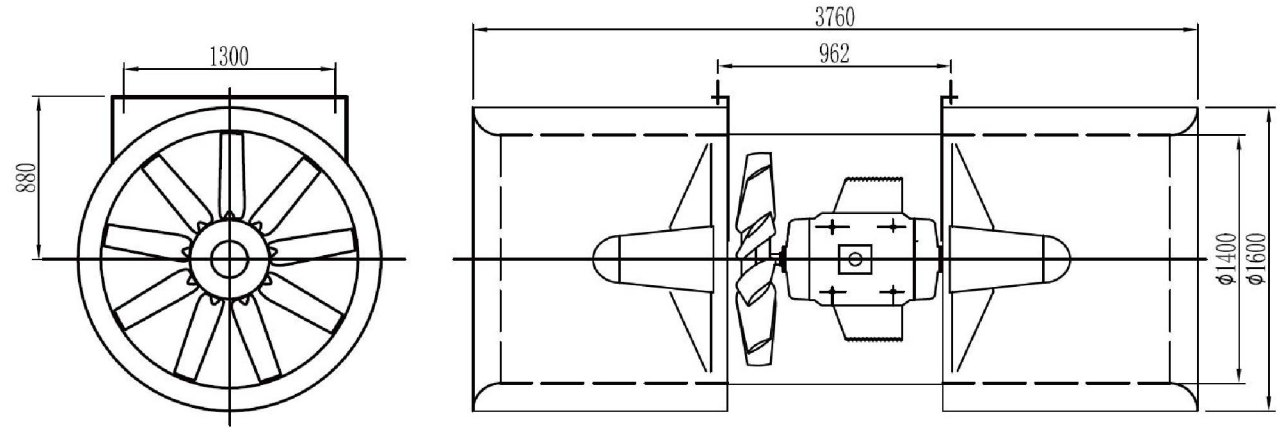


● 单向风机 | Uni-directional Fan

NSL-140R,50Hz,1D消声器Silencer, 单向uni-directional

风机型号 Fan model	电机 极数 Pole number	叶轮 转速 Impeller speed	叶片 角度 Blade pitch	电机 功率 Rated output	流量 Volume flow	出口 风速 Outlet velocity	轴向 推力 Axial thrust	吸收功率 Absorption power	推力与 功率比 Thrust/power	声功 率级 Sound power level	声压级 Sound pressure level
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-140R	8	725	26	11	29	18.8	615	10.4	59.1	90	54
			31	15	31.5	20.5	740	13.4	55.1	91	55
			34	18.5	34	22.1	838	16.9	49.7	92	56
			38	30	39	25.3	980	25.4	38.7	95	59
	6	975	22	22	37	24	1020	21.6	47.1	96	62
			28	30	40.8	26.5	1214	29.1	41.7	97	63
			33	37	44.5	28.9	1480	35	42.2	98	64
			38	45	47.4	30.8	1680	42.4	39.6	100	66
	4	1480	21	75	50.5	32.8	1930	55.2	35	104	75
			24	75	55	35.7	2200	71.2	30.9	105	76
			26	90	58	37.7	2500	77.7	32.2	107	76
			28	90	61	39.6	2800	87.7	31.9	109	77

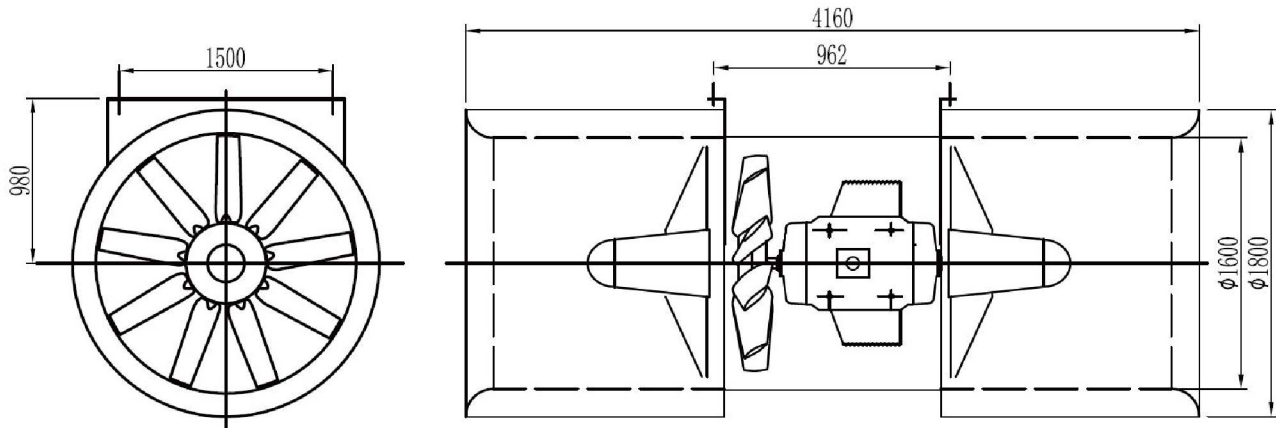
外形图 (1D消声器)
Dimension with 1D Silencer



NSL-160R,50Hz,1D消声器Silencer, 单向uni-directional

风机型号 Fan model	电机 极数 Pole number	叶轮 转速 Impeller speed	叶片 角度 Blade pitch	电机 功率 Rated output	流量 Volume flow	出口 风速 Outlet velocity	轴向 推力 Axial thrust	吸收功率 Absorption power	推力与 功率比 Thrust/power	声功 率级 Sound power level	声压级 Sound pressure level
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-160R	8	725	23	15	40	19.9	906	14.9	60.6	93	57
			30	30	47.9	23.8	1243	27.6	45.1	95	59
			36	37	52.2	26	1528	35.8	42.6	97	61
			40	45	54.3	27	1716	40.2	42.7	98	62
	6	975	16	18.5	42.8	21.3	1024	18.3	55.9	99	65
			20	30	49.5	24.6	1376	28.2	48.7	99	65
			24	45	55.5	27.6	1727	39.9	43.3	100	66
			28	55	59.6	29.6	1988	49.2	40.4	101	67
	4	1480	16	75	63.8	31.7	2380	60.5	39.4	106	76
			18	90	69.7	34.7	2850	79.1	36	108	76
			21	110	76.2	37.9	3400	103	32.9	109	77
			24	132	82.6	41.1	4000	132	30.4	111	77

外形图 (1D消声器)
Dimension with 1D Silencer





30⁺年

深耕通风行业

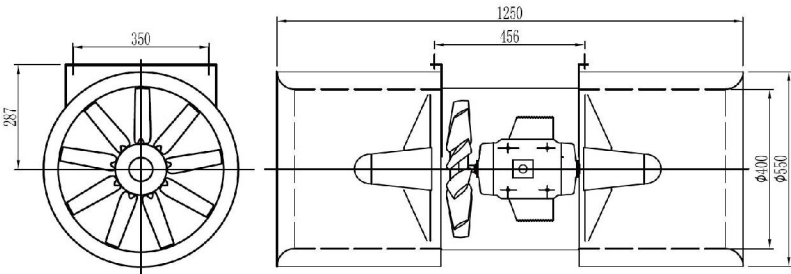
Three Decades of Dedication to
Air Moving Industry



NSL-40R,50Hz,1D消声器Silencer, 双向reversible

风机型号 Fan model	电机 极数	叶轮 转速	叶片 角度	电机 功率	流量	出口 风速	轴向 推力	吸收功率	推力与 功率比	声功 率级	声压级
	Pole number	Impeller speed	Blade pitch	Rated output	Volume flow	Outlet velocity	Axial thrust	Absorption power	Thrust/power	Sound power	Sound pressure
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-40R	2	2900	26	0.75	2	15.9	36.8	0.56	65.7	87	55
			29	1.5	2.6	20.7	60	1.23	48.8	91	57
			41	2.2	3	23.9	80	1.88	42.6	94	59

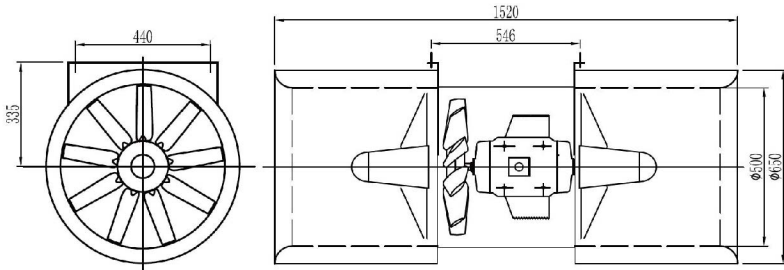
外形图 (1D消声器)
Dimension with 1D Silencer



NSL-50R,50Hz,1D消声器Silencer, 双向reversible

风机型号 Fan model	电机 极数	叶轮 转速	叶片 角度	电机 功率	流量	出口 风速	轴向 推力	吸收功率	推力与 功率比	声功 率级	声压级
	Pole number	Impeller speed	Blade pitch	Rated output	Volume flow	Outlet velocity	Axial thrust	Absorption power	Thrust/power	Sound power	Sound pressure
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-50R	2	2900	30	4	5	25.5	146	3.58	40.8	94	59
			36	5.5	5.6	28.5	185	5	37	96	61
			40	7.5	6	30.6	215	6.18	34.8	97	62

外形图 (1D消声器)
Dimension with 1D Silencer



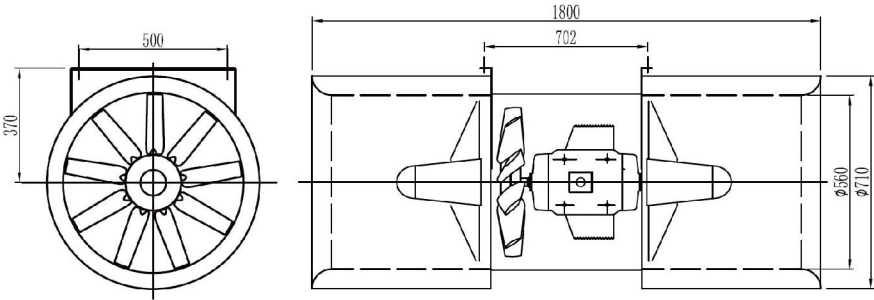
● 双向可逆风机 | Bidirectional reversible fan



NSL-56R,50Hz,1D消声器Silencer, 双向reversible

风机型号 Fan model	电机极数 Pole number	叶轮转速 Impeller speed	叶片角度 Blade pitch	电机功率 Rated output	流量 Volume flow	出口风速 Outlet velocity	轴向推力 Axial thrust	吸收功率 Absorption power	推力与功率比 Thrust/power	声功率级 Sound power	声压级 Sound pressure
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-56R	2	2900	32	7.5	7.1	28.8	247	6.48	38.1	98	64
			35	11	7.5	30.5	278	7.67	36.2	99	65
			40	15	8.5	34.5	333	11.13	29.9	100	66

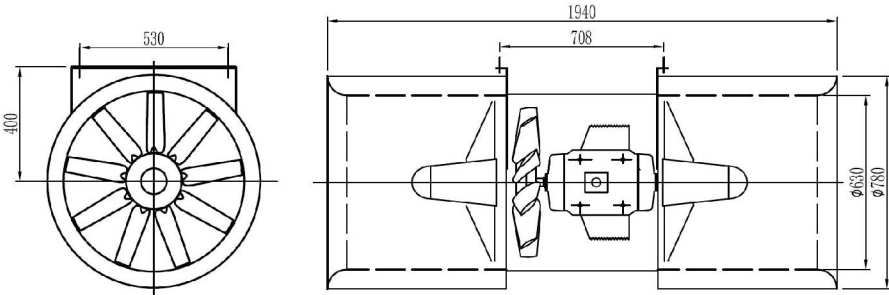
外形图 (1D消声器)
Dimension with 1D Silencer



NSL-63R,50Hz,1D消声器Silencer, 双向reversible

风机型号 Fan model	电机极数 Pole number	叶轮转速 Impeller speed	叶片角度 Blade pitch	电机功率 Rated output	流量 Volume flow	出口风速 Outlet velocity	轴向推力 Axial thrust	吸收功率 Absorption power	推力与功率比 Thrust/power	声功率级 Sound power	声压级 Sound pressure
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-63R	2	2900	31	15	10	32.1	380	11.33	33.5	101	68
			36	18.5	10.8	34.6	445	15.52	28.7	103	70
			40	22	11.5	36.9	495	18.79	26.3	104	71
			44	30	12.2	39.1	552	22.38	24.7	105	72

外形图 (1D消声器)
Dimension with 1D Silencer

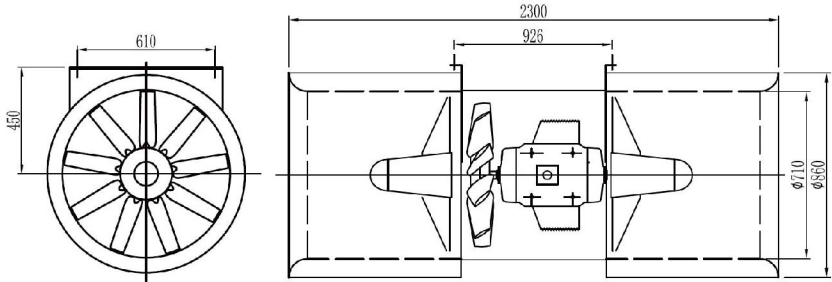


● 双向可逆风机 | Bidirectional reversible fan ●

NSL-71R,50Hz,1D消声器Silencer, 双向reversible

风机型号 Fan model	电机极数 Pole number	叶轮转速 Impeller speed	叶片角度 Blade pitch	电机功率 Rated output	流量 Volume flow	出口风速 Outlet velocity	轴向推力 Axial thrust	吸收功率 Absorption power	推力与功率比 Thrust/power	声功率级 Sound power	声压级 Sound pressure
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-71R	2	2950	28	18.5	13.7	34.6	545	16.65	32.7	103	71
			31	22	14.7	37.1	635	20.54	30.9	105	73
			34	30	15.8	39.9	730	26.78	27.3	106	74
			38	37	16.5	41.7	810	31.56	25.7	107	75

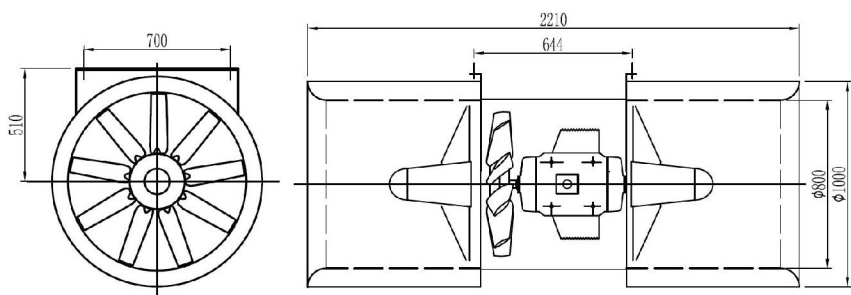
外形图 (1D消声器)
Dimension with 1D Silencer



NSL-80R,50Hz,1D消声器Silencer, 双向reversible

风机型号 Fan model	电机极数 Pole number	叶轮转速 Impeller speed	叶片角度 Blade pitch	电机功率 Rated output	流量 Volume flow	出口风速 Outlet velocity	轴向推力 Axial thrust	吸收功率 Absorption power	推力与功率比 Thrust/power	声功率级 Sound power	声压级 Sound pressure
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-80R		1450	30	5.5	10.6	21.1	242	5.02	48.2	89	55
			36	7.5	12	23.9	309	6.96	44.4	93	59
			41	11	13.1	26.1	368	9.82	37.5	96	62
			45	15	14.5	28.8	480	13.23	36.3	98	64

外形图 (1D消声器)
Dimension with 1D Silencer



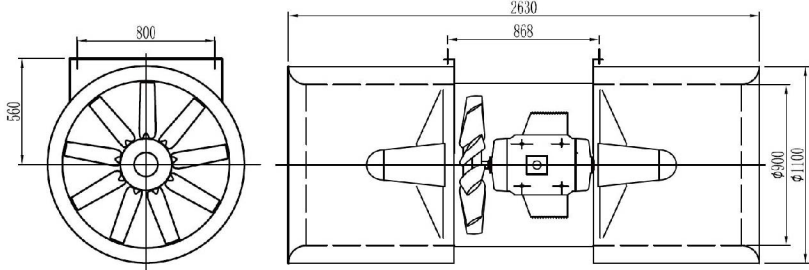
● 双向可逆风机 | Bidirectional reversible fan



NSL-90R,50Hz,1D消声器Silencer, 双向reversible

风机型号 Fan model	电机极数 Pole number	叶轮转速 Impeller speed	叶片角度 Blade pitch	电机功率 Rated output	流量 Volume flow	出口风速 Outlet velocity	轴向推力 Axial thrust	吸收功率 Absorption power	推力与功率比 Thrust/power	声功率级 Sound power	声压级 Sound pressure
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-90R	4	1450	32	11	15.5	24.4	422	10.15	41.6	94	60
			38	15	17.4	27.4	532	14.37	37	98	64
			42	18.5	18.7	29.4	609	17.78	34.3	100	66
			45	22	19.3	30.3	700	19.49	35.9	101	67

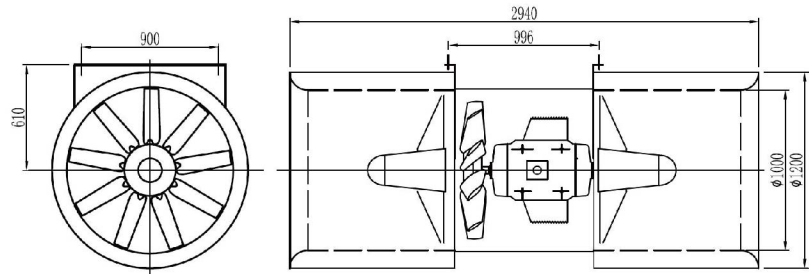
外形图 (1D消声器)
Dimension with 1D Silencer



NSL-100R,50Hz,1D消声器Silencer, 双向reversible

风机型号 Fan model	电机极数 Pole number	叶轮转速 Impeller speed	叶片角度 Blade pitch	电机功率 Rated output	流量 Volume flow	出口风速 Outlet velocity	轴向推力 Axial thrust	吸收功率 Absorption power	推力与功率比 Thrust/power	声功率级 Sound power	声压级 Sound pressure
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-100R	6	940	33	5.5	14.2	18.1	290	5.12	56.6	88	52
			39	7.5	16	20.4	350	7.32	47.8	92	56
			43	11	17	21.6	410	8.72	47	93	57
	4	1470	29	15	20.4	26	600	14	42.9	96	64
			33	18.5	22	28	710	16.99	41.8	98	66
			38	22	23.8	30.3	850	21.21	40.1	101	69
			41	30	26	33.1	980	28.92	33.9	103	71

外形图 (1D消声器)
Dimension with 1D Silencer

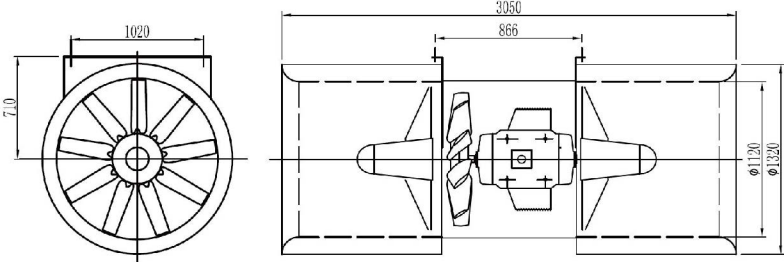


● 双向可逆风机 | Bidirectional reversible fan ●

NSL-112R,50Hz,1D消声器Silencer, 双向reversible

风机型号 Fan model	电机极数 Pole number	叶轮转速 Impeller speed	叶片角度 Blade pitch	电机功率 Rated output	流量 Volume flow	出口风速 Outlet velocity	轴向推力 Axial thrust	吸收功率 Absorption power	推力与功率比 Thrust/power	声功率级 Sound power	声压级 Sound pressure
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-112R	6	960	29	7.5	18.3	18.6	405	6.96	58.2	102	69
			34	11	20.2	20.5	476	9.34	51	103	70
			41	15	22.3	22.6	590	12.53	47.1	104	71
			44	15	23.1	23.4	634	13.91	45.6	105	72
NSL-112R	4	1470	26	18.5	26	26.4	768	17.59	43.7	101	69
			32	30	31	31.5	1124	29.86	37.6	103	71
			40	45	33.8	34.3	1360	43.74	31.1	104	72
			44	55	35.4	35.9	1500	50.19	29.9	105	73

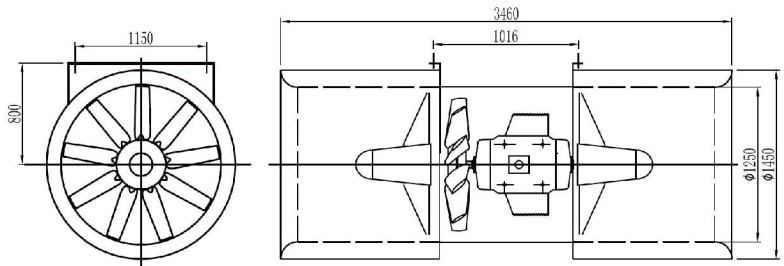
外形图 (1D消声器)
Dimension with 1D Silencer



NSL-125R,50Hz,1D消声器Silencer, 双向reversible

风机型号 Fan model	电机极数 Pole number	叶轮转速 Impeller speed	叶片角度 Blade pitch	电机功率 Rated output	流量 Volume flow	出口风速 Outlet velocity	轴向推力 Axial thrust	吸收功率 Absorption power	推力与功率比 Thrust/power	声功率级 Sound power	声压级 Sound pressure
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-125R	6	960	31	15	25.9	21.1	650	12.68	51.3	98	64
			37	18.5	28.8	23.5	811	17.5	46.3	102	66
			40	22	30	24.4	885	19.65	45	103	67
			44	30	31.3	25.5	976	22.39	43.6	105	69
NSL-125R	4	1470	24	30	33.4	27.2	1024	27.18	37.7	107	75
			28	37	37.6	30.6	1320	35.75	36.9	108	76
			31	45	40	32.6	1500	43.16	34.8	109	77
			33	55	42	34.2	1650	54.04	30.5	109	77

外形图 (1D消声器)
Dimension with 1D Silencer



● 双向可逆风机 | Bidirectional reversible fan

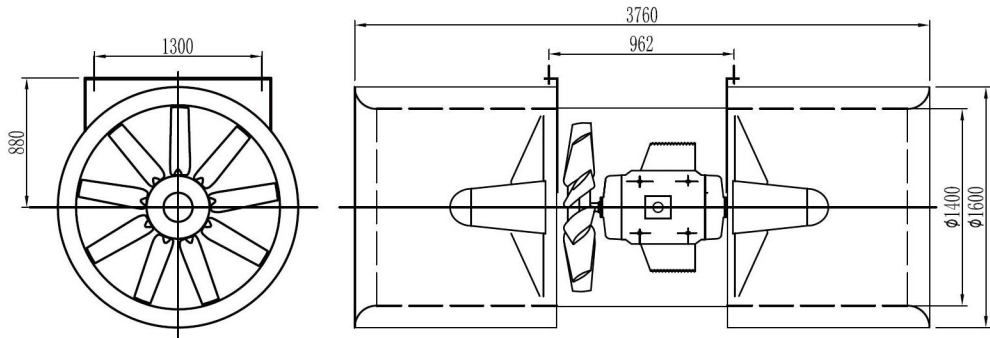


NSL-140R,50Hz,1D消声器Silencer, 双向reversible

风机型号 Fan model	电机 极数 Pole number	叶轮 转速 Impeller speed	叶片 角度 Blade pitch	电机 功率 Rated output	流量 Volume flow	出口 风速 Outlet velocity	轴向 推力 Axial thrust	吸收功率 Absorption power	推力与 功率比 Thrust/power	声功 率级 Sound power level	声压级 Sound pressure level
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-140R	8	725	31	11	28.5	18.5	591	10.73	55.1	91	54
			38	15	32.6	21.2	778	14.88	52.3	96	59
			40	18.5	33.8	22	840	16.61	50.6	98	61
			42	22	35	22.7	890	19.84	44.9	99	62
	6	975	28	22	36.5	23.7	990	20.82	47.6	97	62
			33	30	39.9	25.9	1163	27.18	42.8	99	64
			38	37	43.6	28.3	1420	35.46	40	104	69
			41	45	46.5	30.2	1580	43.06	36.7	106	71
	4	1480	22	55	48	31.2	1700	47.44	35.8	108	76
			26	75	52	33.8	2000	60.32	33.2	110	76
			29	75	55.2	35.9	2300	72.24	31.8	113	77
			33	90	59	38.3	2600	87.88	29.6	116	77

外形图 (1D消声器)

Dimension with 1D Silencer



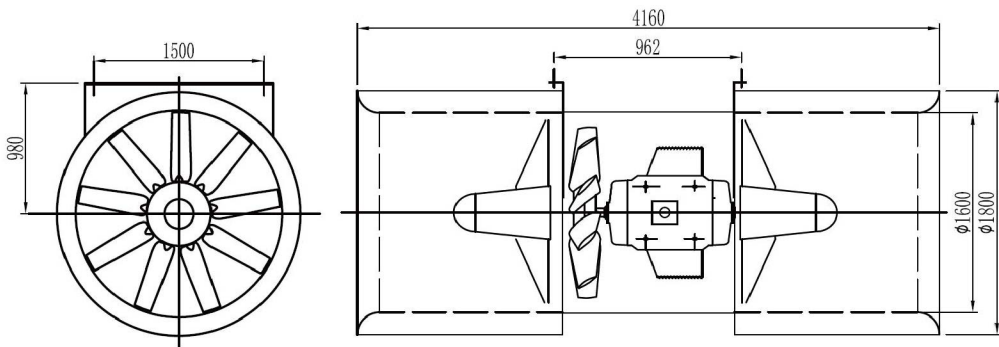
● 双向可逆风机 | Bidirectional reversible fan

NSL-160R,50Hz,1D消声器Silencer, 双向reversible

风机型号 Fan model	电机 极数 Pole number	叶轮 转速 Impeller speed	叶片 角度 Blade pitch	电机 功率 Rated output	流量 Volume flow	出口 风速 Outlet velocity	轴向 推力 Axial thrust	吸收功率 Absorption power	推力与 功率比 Thrust/power	声功 率级 Sound power level	声压级 Sound pressure level
	P	r/min	°	KW	m³/s	m/s	N	KW	N/KW	dB(W)	dB(A)
NSL-160R	8	725	29	18.5	41	20.4	924	17.33	53.3	94	58
			35	30	46	22.9	1190	26.54	44.8	98	62
			40	37	50.6	25.2	1424	33.14	43	102	66
			42	45	52.2	26	1521	38.82	39.2	104	68
	6	975	19	22	42.8	21.3	939	20.02	46.9	99	65
			24	30	48.8	24.3	1295	29.26	44.3	100	66
			29	45	54.8	27.3	1672	42.79	39.1	101	67
			33	55	59.6	29.6	1989	53.85	36.9	104	70
	4	1480	19	75	64	31.8	2340	65.72	35.6	109	76
			22	90	70	34.8	2780	86.08	32.3	111	76
			25	110	73.8	36.7	3150	100.93	31.2	114	77
			27	132	78	38.8	3500	119.23	29.4	117	77

外形图 (1D消声器)

Dimension with 1D Silencer



注: NSL系列射流风机所有数据均经全性能风机试验室按GB1236与ISO13350标准严格测试, 数据真实可靠。所列噪声声压级为: 在自由空间、与风机轴线成45度、距离风机出口10米处测量的A级计权声压级。

Note: All data for the NSL jet fan series have been strictly tested in a full-performance fan laboratory in accordance with GB1236 and ISO 13350, ensuring authenticity and reliability. The listed sound pressure level (A-weighted) is measured at a distance of 10 m from the fan outlet at a 45-degree angle to the fan axis in free-field conditions.

射流风机声学性能 | Acoustic performance of jet fan

声音频谱修正因数（风机配 1D 消声器） Sound spectrum correction factor (with 1D silencer installed on the fan)															
风机型号 Fan model	电机转速 Motor speed (rpm)	125	250	500	1K	2K	4K	8K	125	250	500	1K	2K	4K	8K
NSL-40 R	2900	-3	-4	-9	-11	-13	-15	-17	-6	-3	-9	-14	-12	-15	-18
NSL-50 R	2900	-4	-5	-10	-13	-13	-15	-17	-7	-3	-10	-14	-12	-15	-19
NSL-56 R	2900	-5	-3	-12	-14	-12	-16	-20	-7	-3	-10	-13	-10	-14	-20
NSL-63 R	2900	-5	-5	-11	-11	-10	-13	-19	-8	-3	-11	-12	-9	-13	-21
NSL-71 R	2950	-7	-4	-12	-9	-9	-14	-20	-10	-4	-10	-10	-8	-13	-22
NSL-80 R	1450	-12	-3	-12	-8	-10	-14	-19	-13	-2	-13	-9	-12	-22	-25
NSL-90 R	1450	-10	-3	-11	-7	-10	-13	-17	-11	-2	-12	-8	-12	-21	-23
NSL-100 R	940	-3	-7	-12	-9	-12	-14	-21	-2	-7	-13	-10	-16	-22	-27
NSL-100 R	1470	-11	-5	-11	-6	-10	-12	-19	-11	-3	-11	-6	-11	-19	-24
NSL-112 R	960	-5	-4	-11	-10	-13	-17	-22	-5	-5	-12	-9	-11	-15	-22
NSL-112 R	1470	-12	-5	-8	-6	-11	-15	-20	-8	-6	-9	-6	-9	-15	-20
NSL-125 R	960	-5	-4	-11	-9	-13	-18	-21	-4	-5	-10	-9	-11	-18	-23
NSL-125 R	1470	-8	-6	-7	-7	-11	-16	-19	-6	-7	-8	-7	-10	-17	-22
NSL-140 R	725	-3	-5	-12	-11	-15	-19	-22	-1	-10	-14	-11	-15	-21	-24
NSL-140 R	975	-5	-4	-10	-9	-12	-17	-20	-3	-8	-13	-9	-14	-21	-24
NSL-140 R	1480	-12	-5	-7	-5	-10	-15	-18	-2	-6	-12	-7	-13	-20	-23
NSL-160 R	725	-4	-5	-12	-11	-15	-19	-22	-2	-10	-14	-11	-15	-21	-24
NSL-160 R	975	-6	-4	-10	-9	-12	-17	-20	-3	-7	-12	-8	-13	-20	-23
NSL-160 R	1480	-9	-6	-6	-7	-10	-15	-18	-2	-5	-11	-6	-11	-20	-22

2D对1D的修正值 | 2D-to-1D correction value

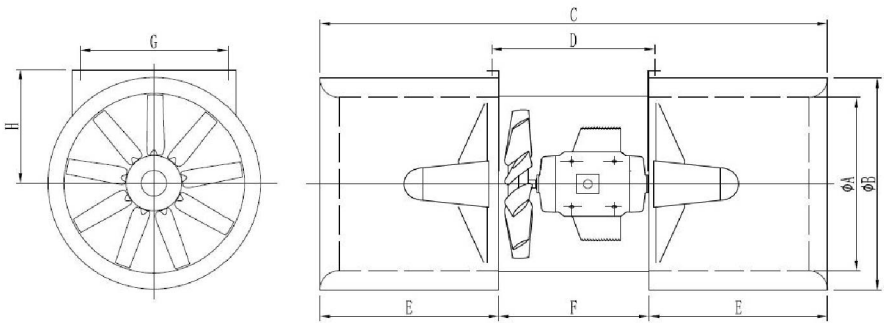
2D 对 1D 的修正值 2D-to-1D correction value							
风机型号 Fan model	125	250	500	1K	2K	4K	8K
NSL-40 R	-1	-2	-6	-4	-5	-1	-5
NSL-50 R	-1	-2	-6	-4	-4	-1	-5
NSL-56 R	-1	-2	-5	-4	-5	-2	-4
NSL-63 R	-1	-2	-4	-6	-6	-4	-4
NSL-71 R	-1	-2	-4	-4	-4	-3	-3
NSL-80 R	-1	-2	-3	-3	-3	-2	-2
NSL-90 R	-1	-2	-2	-2	-1	-1	-2
NSL-100 R	-1	-2	-3	-3	-2	-3	-2
NSL-112 R	-1	-2	-2	-3	-3	-3	0
NSL-125 R	0	-2	-2	-4	-2	-3	-2
NSL-140 R	-1	-2	-2	-3	-2	-3	-2
NSL-160 R	-1	-2	-2	-2	-2	-2	-1

射流风机的声功率级频谱 | Sound power level spectrum of jet fan

射流风机的声功率级频谱 (以 NSL-100R-4P-40 为例) Sound power level spectrum of jet fan Sound power level spectrum of jet fan (example: NSL-100R-4P-40)							
噪声频谱 Noise spectrum	125	250	500	1K	2K	4K	8K
1D 消音器 1D silencer	103	103	103	103	103	103	103
1D 消音器 1D silencer	-11	-3	-11	6	-11	-19	-24
2D 消音器 2D silencer	92	100	92	97	92	84	79
2D 消音器 2D silencer	-1	-2	-3	-3	-2	-3	-2
2D 消音器 2D silencer	91	98	89	94	90	81	77

● 风机外形尺寸示意图 | Fan Outline Dimnslon Drawing

带1.5D消音器的风机
Fan with 1.5D silencer

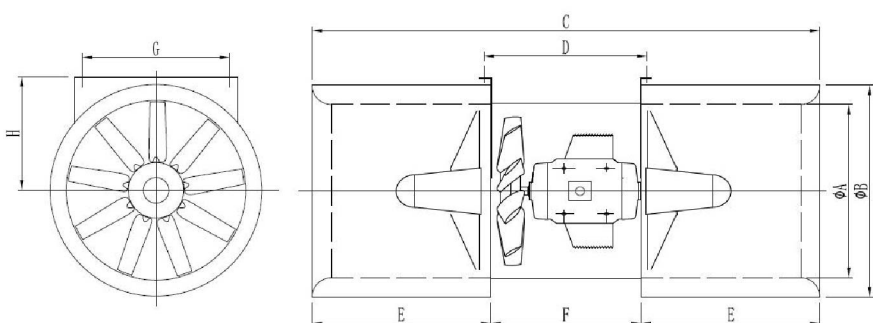


风机型号 Fan model	外形安装尺寸 mm Overall dimensions (mm)								备注 Comments
	A	B	F	D	G	H	C	E	
NSL-31.5R	315	465	350	379	255	245	1335	493	
NSL-35.5R	355	505	400	429	295	265	1505	553	
NSL-40R	400	550	410	456	350	287	1650	620	
NSL-50R	500	650	480	546	440	335	2020	770	
NSL-56R	560	710	640	702	500	370	2360	860	
NSL-63R	630	780	640	708	530	400	2570	965	
NSL-71R	710	860	840	926	610	450	3010	1085	
NSL-80R	800	1000	560	644	700	510	3010	1225	132S/M
NSL-80R	800	1000	710	794	700	510	3160	1225	160M/L
NSL-90R	900	1100	780	868	800	560	3530	1375	
NSL-100R	1000	1200	890	996	900	610	3940	1525	
NSL-112R	1120	1320	760	866	1020	710	4170	1705	160M-200L
NSL-112R	1120	1320	910	1016	1020	710	4320	1705	225S-250M
NSL-125R	1250	1450	910	1016	1150	800	4710	1900	
NSL-140R	1400	1600	910	962	1300	880	5160	2125	
NSL-160R	1600	1800	910	962	1500	980	5760	2425	

说明:备注栏显示同一款风机型号搭配不同机座号电机时对应的射流机外形尺寸;
Note: The Remarks column indicates the overall dimensions of the jet fan when the same fan model is paired with two motors of different frame sizes.

风机外形尺寸示意图 | Fan Outline Dimnslon Drawing ●

带2D消音器的风机
Fan with 2D silencer



风机型号 Fan model	外形安装尺寸 mm Overall dimensions (mm)								备注 Comments
	A	B	F	D	G	H	C	E	
NSL-31.5R	315	465	350	379	255	245	1650	650	
NSL-35.5R	355	505	400	429	295	265	1860	730	
NSL-40R	400	550	410	456	350	287	2050	820	
NSL-50R	500	650	480	546	440	335	2520	1020	
NSL-56R	560	710	640	702	500	370	2920	1140	
NSL-63R	630	780	640	708	530	400	3120	1240	
NSL-71R	710	860	840	926	610	450	3720	1440	
NSL-80R	800	1000	560	644	700	510	3810	1625	132S/M
NSL-80R	800	1000	710	794	700	510	3960	1625	160M/L
NSL-90R	900	1100	780	868	800	560	4430	1825	
NSL-100R	1000	1200	890	996	900	610	4940	2025	
NSL-112R	1120	1320	760	866	1020	710	5290	2265	160M-200L
NSL-112R	1120	1320	910	1016	1020	710	5440	2265	225S-250M
NSL-125R	1250	1450	910	1016	1150	800	5960	2525	
NSL-140R	1400	1600	910	962	1300	880	6560	2825	
NSL-160R	1600	1800	910	962	1500	980	7360	3225	

说明:备注栏显示同一款风机型号搭配不同机座号电机时对应的射流机外形尺寸;
Note: The Remarks column indicates the overall dimensions of the jet fan when the same fan model is paired with two motors of different frame sizes.

风机净重与运输参数 | Net Weight and Transportation Parameters

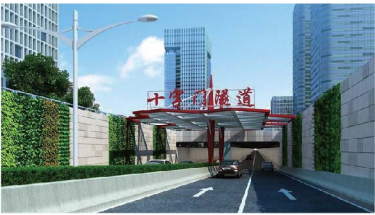
单台射流风机净重（不含支吊架） Jetfan net weight without supporting frame				
风机型号 Fan model	含1D消声器的 风机净重 Fan net weight with 1D silencer (kg)	含1.5D消声器的 风机净重 Fan net weight with 1.5D silencer (kg)	含2D消声器的 风机净重 Fan net weight with 2D silencer (kg)	备注 Comments
NSL-31.5R	79	85	91	
NSL-35.5R	98	105	112	
NSL-40R	116	123	131	
NSL-50R	191	200	210	
NSL-56R	291	302	314	
NSL-63R	357	372	387	
NSL-71R	534	552	571	
NSL-80R	338	361	384	当搭配132机座电机 Installed with motor frame no. 132
NSL-80R	455	485	515	当搭配160机座电机 Installed with motor frame no. 160
NSL-90R	563	601	638	
NSL-100R	844	890	972	
NSL-112R	826	890	969	当搭配160~200机座电机 Installed with motor frame no. 160~200
NSL-112R	1133	1197	1276	当搭配225~250机座电机 Installed with motor frame no. 225~250
NSL-125R	1399	1491	1574	
NSL-140R	2162	2277	2474	
NSL-160R	2412	2592	2756	



射流风机案例业绩
Case Reference of Jet Fan

公路隧道 | Highway Tunnels

哥伦比亚MAR2公路	Colombia MAR2 Highway
澳大利亚莱恩湾隧道线	Lane Cove Tunnel, Australia
马来西亚SMART隧道线	SMART Tunnel, Malaysia
香港南湾隧道线	Nam Wan Tunnel, Hong Kong
香港毕架山隧道线	Beacon Hill Tunnel, Hong Kong
香港三号干线工程	Hong Kong Route 3
台湾雪山隧道	Hsuehshan Tunnel, Chinese Taiwan
广州黄旗山隧道	Huangqishan Tunnel, Guangzhou
广东茂名奥体大道	Aoti Avenue, Maoming
广州海珠湾隧道	Haizhu Bay Tunnel, Guangzhou
集通铁路电气化改造工程	JT Railway Electrification Renovation
北京东六环改造工程	Beijing East Sixth Ring Road Renovation
国道109新线高速公路	New Expressway of the National Highway G109
重庆曾家岩隧道项目	Chongqing Zengjiayan Tunnel
广州机二高速南段SG14标	Guangzhou Baiyun Airport 2nd Expressway (SG14)
广东省吴川高铁站	Wuchuan High-Speed Railway Station, Guangdong
贵州省雷山至榕江高速公路	Guizhou Leishan-Rongjiang Expressway
珠海十字门隧道项目	Zhuhai Shizimen Tunnel
厦门马銮湾新城中心岛隧道	Malan Bay New Town Central Island Tunnel, Xiamen
云南楚大高速公路改扩容机电工程	Chudai Expressway Expansion & M&E Upgrade, Yunnan
广佛环线北滘基地	Guangfo Ring Line Beijiao Base
广连高速一期	Guangzhou-Lianzhou Expressway Phase I Project
广州连州高速公路机电JD04标	Lianzhou Expressway M&E (JD04), Guangzhou
杭绍台铁路东茗隧道和白罗山隧道	Dongming Tunnel & Bailuoshan Tunnel, HSTU Railway
襄阳市东西轴线鱼梁洲机电安装工程	M&E Installation for Xiangyang East-West Axis
海南海口越江隧道	Haikou River-crossing Tunnel, Hainan
四川攀枝花至大理高速JD4项目	Pandai Expressway(JD4), Sichuan
北京广渠路东延道路工程机电	M&E for Guangqu Road East Extension, Beijing
莆炎高速公路机电YED2、YED5、YED7段	M&E for Putian-Yanling Expressway(YED2, 5、7)
四川318线	Section of National Highway G318, Sichuan
济南市济泺路穿黄隧道工程EPC项目	EPC Project for Jiluo Road Yellow River Tunnel, Jinan
上海北横通道工程	Beiheng Passageway, Shanghai
G98海南环岛高速青岭隧道项目	Qingling Tunnel of Isle Ring Expressway (G98), Hainan
南京长江第五大桥A3标机电工程	M&E for Section A3 of 5th River Bridge, Nanjing
四川营达项目	Yingda Expressway, Sichuan
甘孜水电S211线长河坝水电站改造	Renovation for S211 Changheba Hydropower Stn., Garze, Sichuan
广佛环线	Guangfo Ring Line
上海A30沿江通道越江隧道	Yuejiang Tunnel of A30 Riverside Expressway, Shanghai



穗莞深城际铁路	Guangzhou-Dongguan-Shenzhen Intercity Railway
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地铁 | Metro

香港运营地铁通风改造项目	Hong Kong MTR Ventilation Renovation Projects
伊朗德黑兰地铁1号线(南、北延长线)	Tehran Metro Line 1 (South/North Extension), Iran,
台湾高雄捷运地铁线、台北土城地铁线	Kaohsiung Metro and Taipei Tucheng Metro, Chinese Taiwan
广州地铁十四号线二期工程	Guangzhou Metro Line 14 Phase II
广州地铁十三号线二期工程	Guangzhou Metro LineLine 13 Phase II
广州地铁十二号线工程	Guangzhou Metro LineLine 12
广州地铁十一号线工程	Guangzhou Metro LineLine 11
广州地铁十号线工程	Guangzhou Metro LineLine 10
广州地铁七号线二期工程	Guangzhou Metro LineLine 7 Phase II
昆明地铁3号线一期工程	Kunming Metro Line 3 Phase I
贵阳地铁1号线	Guiyang Metro Line 1
重庆地铁五号线	Chongqing Metro Line 5
南昌地铁3号线工程	Nanchang Metro Line 3
福州地铁5号线工程	Fuzhou Metro Line 5
南京至句容城际工程	Nanjing-Jurong Intercity Railway
北京地铁3号线一期工程	Beijing Metro Line 3 Phase I
重庆地铁4号线二期(唐家沱-石船)工程	Chongqing Metro Line 4 Phase II (Tangjiatuo-Shichuan)
贵阳地铁3号线一期工程	Guiyang Metro Line 3 Phase I
深圳地铁13号线二期(北延)工程	Shenzhen Metro Line 13 Phase II (North Extension)
深圳地铁12号线二期工程	Shenzhen Metro Line 12 Phase II
滨海快线(福州至长乐机场城际铁路工程)	Binhai Express (Fuzhou-Changle Airport Intercity Railway)
贵阳地铁S1线一期工程	Guiyang Metro S1 Phase I
南京地铁9号线一期工程	Nanjing Metro Line 9 Phase I
西安市地铁8号线工程	Xi'an Metro Line 8

民用建筑 | Large-scale Infrastructure

埃塞俄比亚阿姆哈拉酒店地下停车场项目	Amhara Hotel Underground Parking Project, Ethiopia
广州市白云区设计之都商业广场项目	Design Capital Commercial Plaza Project, Baiyun District, Guangzhou
香港中文大学深圳音乐学院公寓楼	Residential Apt Bld for Music School of Chinese University of Hong Kong, Shenzhen
香港建造业议会停车场	Parking Facility for Construction Industry Council, Hong Kong
香港加络莲山道住宅小区	Kalowlin Shan Tao Residential District, Hong Kong
香港沙田CMI数据中心	Sha Tin CMI Data Center, Hong Kong
香港玛嘉烈医院	Princess Margaret Hospital, Hong Kong
深圳14号线布吉枢纽东广场改造工程	Metro Line 14 Buji Hub East Plaza Renovation, Shenzhen



[illegible]

● 射流风机下单表格 | Jet Fan Order Form

1、风机运行类型：

1. Fan operation type:

☐

单向运行
Uni-directional

☐

双向可逆运行
Bidirectional reversible

2、风机型号：

2. Fan model:

☐

31.5

☐

63

☐

112

☐

35.5

☐

71

☐

125

☐

40

☐

80

☐

140

☐

50

☐

90

☐

160

☐

56

☐

100

3、要求风机满足如下工况点：

3. The fan shall meet the following operating conditions:

风量 Volume flow	m ³ /s		轴向推力 Axial thrust	N
出口风速 Outlet velocity	m/s		噪声压级 Sound pressure level	dB(A)

4、叶轮部：

4. Impeller:

叶轮转速 (r/min=rpm) Impeller speed (r/min=rpm)	
叶片角度 Impeller blade angle	

5、电机：

5. Motor:

额定功率 (kW) Rated output (kW)	
电源 (V/PH/HZ) Power supply (V/PH/HZ)	
能效等级 Energy efficiency level	
防护等级、绝缘等级 Protection class & insulation class	
耐高温要求 High-temperature resistance	℃ / min
控制方式 Control mode	☐ 工频电机 Line-frequency motor ☐ 变频电机 Inverter-duty motor

● 射流风机下单表格 | Jet Fan Order Form

特别要求电机品牌 Preferred motor brand			
电机轴承 Motor bearings	☐ 国产优质品牌 High-quality domestic brand		
	☐ NSK	☐ SKF	☐ FAG
出线电缆保护软管材料 Conduit material cased for outgoing cable	☐ 不锈钢编织软管 Stainless steel braided flexible conduit	☐ 金属包塑软管 PVC-coated flexible metal conduit	
6、风筒： 6. Casing:			
表面防腐工艺： Surface anti-Corrosion process:	☐ 热浸镀锌 Hot dip galvanising	☐ 喷漆，油漆类别、 国标色号、厚度： Painting (paint type, GB color code, thickness):	
7、消声器： 7. Silencer:			
消声材料类别： Sound-absorbing material:	☐ 玻璃纤维棉 Glass fiber wool	☐ 矿物棉 Mineral wool	
消声材料克重 (kg/m³) : Material density (kg/m³):	☐ 24	☐ 48	☐ 64
外壳材料： Casing material:	☐ 镀锌钢板 Galvanized steel plate	☐ SUS304	☐ SUS316
穿孔板材料： Perforated plate material:	☐ 镀锌钢板 Galvanized steel plate	☐ SUS304	☐ SUS316
8、防护网： 8. Protective grille:			
防护网材质： Material:	☐ 喷漆圆钢，油漆类别、 国标色号、厚度： Painted round steel (paint type, GB color code, thickness):	☐ 酸洗 SUS304 Pickled SUS304	
9、风机配件： 9. Fan accessories:			
☐ 减振器 Vibration damper	☐ 风向调节阀 Air Control Damper		
☐ 风机安装吊架或支架 Fan installation hanger or support	☐ 防坠钢丝绳及其扎头 Fall arrest steel wire rope and clips		