

Airfoil Double Width Centrifugal Fan
Direct Or Belt Drive



诺森工业风机



Innovation Make Us Different

创新让我们与众不同

冠带通风节能设备有限公司是中国地区最先进的工业风机制造商之一。我们对客户所能承诺的是能制造出精良的设备及优秀的售后服务。

上海冠带通风节能设备有限公司 (Shanghai GRADE-FE Blower Equipment Co., Ltd.) 可以为以下行业的工程技术应用提供技术支持及可靠性产品：楼宇通风、电力、石化、纸浆和纸张、制药、污染控制、合成纤维、核电。

冠带风机的技术为美系40年的成熟制造工艺和设计理念为基础，质量保持一贯的优良传统，从开厂的第一天起我们就努力把我们的产品做到最好，每天能对我们的产品渴求进步。

每个细节都决定了客户将对我们做出何种选择。作为重型工业通风设备生产的专业性公司，我们的工程设计人员可以提供轴承负荷分析，结构有限元分析，计算机自动辅助设计绘图，完备的检验手段，精密的测试过程，一切的努力都是为客户提供高品质的设备有服务。

我们的分销机构遍布全国各地及全世界，以工厂为后盾，我们的分销机构时刻准备着为您提供所需要的运用建议及产品信息。

Shanghai Grade-FE Blower Equipment Co., Ltd. is one of the most advanced fan companies in China. In all that we do we are committed to the construction of an excellent product and the provision of outstanding customer service.

The applications include Process Gas Fans, Odor Control Fans, Waste Water Treatment-Fans, Air Pollution Control , Nuclear Power Plants, Steel Mills, Paper Mills, Ovens, Autoclaves, and General Ventilation.

Base on the 40 years American serious mature manufacturing and designing ideas, Shanghai Grade-FE Blower Equipment Co., Ltd. product quality is a tradition. From our first day we have devoted our best efforts to the production of high grade fan equipment. Every day we strive to improve.

Each application determines the selection of each fan we build. Our design engineering staff provides bearing load analysis, finite element analysis, AutoCAD drawings, and thirty years of design experience for each fan we manufacture. Performance and Sound Testing has been performed on each of our different fan lines.

Our sales representatives are located coast-to-coast across the China continent. Backed by the factory sales team, Shanghai Grade-FE Blower Equipment Co., Ltd. representatives are ready to provide product information and application advice whenever you need it.

Airfoil Double Width Centrifugal Fan

后倾机翼式离心风机

The Design AFDW Airfoil fan is a quiet, highly efficient, and stable operating fan suited for a broad range of industrial and commercial applications.

AFDW 系列的设计为铝制机翼型后倾静音式叶轮，其高效率 and 稳定的运行适合基本所有工业和商用的场合。

Commercial air conditioning systems, general supply and exhaust ventilation:

Public Buildings

Hospitals

Warehouses

Offices

Department Stores

Schools

商业楼宇空调系统，普通送风和排风系统用：

公用建筑

医院

厂房

办公楼

仓库

学校

Industrial supply and exhaust:

Forced Draft

Combustion Air Supply

Locomotive Traction Motor Cooling

Spray Booth Supply and Exhaust

Pulp and Paper Machines

Grain Drying

Drying Kilns

适用的工业送排风领域：

工业正压送风

燃烧气体输送

机车电机冷却

喷漆烤漆房的送排风

纸浆及造纸机械

谷物干燥行业

干窑炉排风



上海冠带通风节能设备有限公司特此证明，此处所示 AFDW 系列风机获得了加盖AMCA印章的授权。所示额定值系根据 AMCA 出版物211和AMCA出版物311所进行测试和程序确定，并符合AMCA认证额定值计划的要求。

Shanghai Grade-FE Blower Equipment Co., Ltd certifies that the AFDW fans shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

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壳体和支撑

强劲的重型钢板全焊接结构外壳加上重型角钢加强筋络使外壳强度达到最大

Housing & Framing

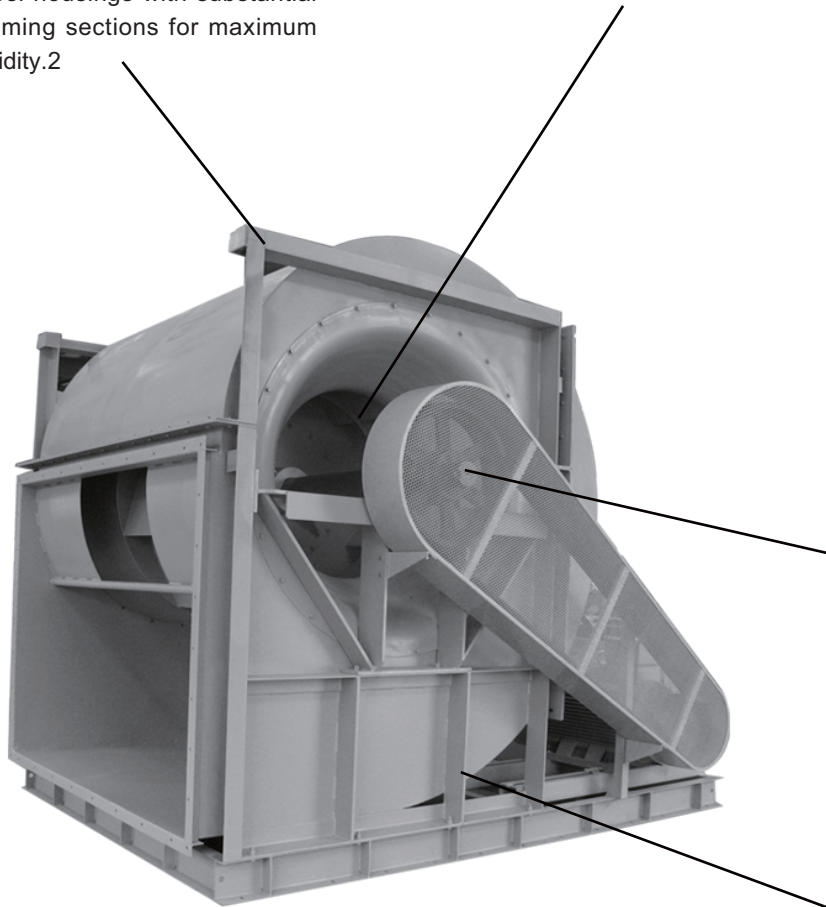
Rugged heavy gauge all welded steel housings with substantial framing sections for maximum rigidity.2

机翼式叶轮

优秀的效率和较低的噪音以及强劲的稳定运行

Airfoil Wheel

Superior combination of high efficiency, stable operation and low noise level.



轴承

重型工业用分体式球轴承或分体式滚柱轴承
保证平均10年的使用寿命

Bearings

Heavy duty split pillow-block ball or spherical roller bearings sized for a generous B-10 life.

轴

进过调质和碾磨处理或全机械加工的轴
保证最小的配合间隙和长使用寿命

Shaft

Turned ground and polished or fully machined to close tolerance.

重型

轴承支座方向的结构设计

Heavy Duty

Structural Bearing Pedestal

平衡

对于轴和叶轮，根据ANSI S2.19-1989标准进行动平衡校验

Balancing

Wheels are dynamically balanced to ANSI S2.19-1989 specifications for smooth operation.

轴和轴承

Shafts and Bearings

轴

精确匹配在最高强度等级风机临界转速下的所耐受的强度。

Shafts

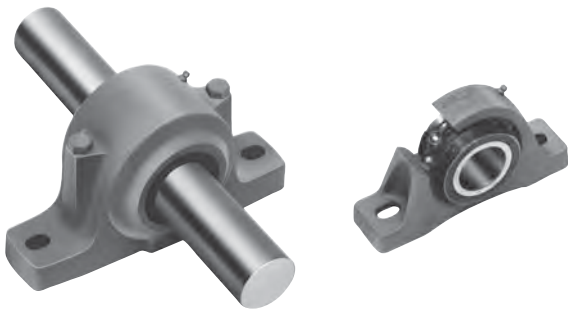
Selected to have suitable strength and operate well below the first critical speed for each maximum class condition.

轴承

抗磨脂类式油类润滑，球轴承或滚子轴承，分体式，都具有国际标准的配件，可以拥有全球通用性的售后服务，轴承的选型按照最不利情况下的最大负荷及最长寿命选择。

Bearings

Antifriction, grease lubricated, self aligning ball or roller types, solid or split housing, manufactured to internationally adopted standards by companies having worldwide acceptance and support services. Bearings are selected for continuous belt driven operation with a generous bearing life throughout each full class range.



Classes of Construction

Arrangement's	Fan Size Range	
	Class I & II	Class III
A/1 - DIDW	165- 660	222 - 660
A/3 - DIDW	182 -660	222 - 660
A/9 - DIDW	165- 600	222 - 600
A/10 - DIDW	165- 365	N.A.
A/3 - DIDW	182- 660	222 - 660

Design AFDW

后倾机翼式离心风机 Centrifugal Airfoil Wheel

诺森风机的机翼型叶轮是为达到超高效率的风机而设计。叶片为中空型机翼型，为不同结果强度的风机设计不同的叶片形式。连续焊接的重型单板后弯式叶片可以拥有更高的强度和耐受力，可适用的叶轮直径范围为：16.5" — 66"

The Northern Blower Airfoil wheel is designed for high operating efficiency. Blades are die formed hollow airfoil sections reinforced as required for class of duty. Continuously welded steel construction is standard. Available from 16 1/2" to 66



进风口风阀

Variable Inlet Vanes

变风量进风口调节可以以最小的损耗提供准确的风量控制，风机运行平稳，无论进风阀在全闭还是全开的状态下。手动式或自动式开关进风阀为可选件，正常可耐温150℃，特殊耐温到350℃的可咨询工厂。

Variable Inlet Vanes provide accurate volume control with minimal reduction in performance efficiency. Fan performance remains stable through fully open to fully closed positions. Available for both manual and automatic operation to temperatures of 300°F. Special design available for temperatures to 650°F.

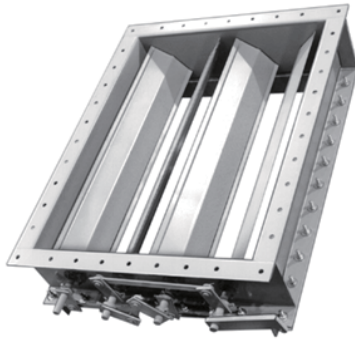


出风口风阀

Outlet Damper

对开多叶式调节阀是最经济的风量控制装置，诺森的出风阀有着双边开孔的法兰，可便于现场风机和风管的对接，出风口风阀可以在耐温280℃的下使用

Outlet Dampers are the least expensive air volume control device but are less efficient than Variable Inlet Vanes or Inlet Box with Inlet Damper. Northern Blower Outlet Dampers have punched flanges on both ends to allow for convenient fan and duct connections. Both parallel blade and opposed blade designs are available for operating temperatures to 650°F.



进风风箱/进风风箱调节阀

Inlet Box/Inlet Box Damper

进风风箱可以给风机进气口以平顺的气流输入。进风箱为螺栓对接设计，作为风机的一个配件。进风风阀同样可以用螺栓连接于进风箱入口来达到精准的风量控制。

An Inlet Box provides smooth aerodynamic airflow into the fan inlet. The Inlet Box is designed as a bolt-on accessory to the fan. Inlet Dampers also are available in conjunction with the Inlet Box for efficient air volume control.



突出的检修门

Raised Access Door

检修门可以空出蜗壳150mm，可以方便现场在风机外壳的保温。检修门内部插入风机部分自带保温棉。

Access door raised 6" beyond scroll surface to provide room for insulation on exterior of fan housing. Insulated door plug surface is flush with inside of housing scroll.



快开式检修门

Hinged Quick Release Access Door

快开式检修门使用铰链连接，所有检修门都安装于蜗壳上方，用手柄或螺栓固定。

Access door mounted flush to the fan scroll and secured with bolted clips. Quick release handle system also available.

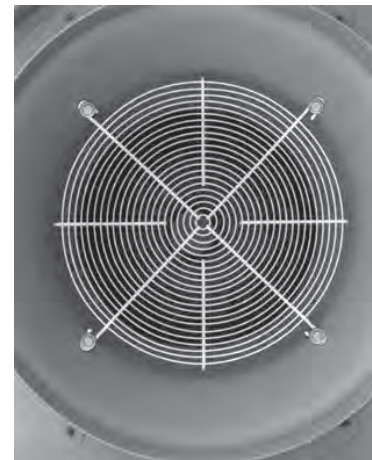


进风口网罩

Inlet Screen

对开多叶式调节阀是最经济的风量控制装置，诺森的出风阀有着双边开孔的法兰，可便于现场风机和风管的对接，出风口风阀可以在耐温280℃的下使用

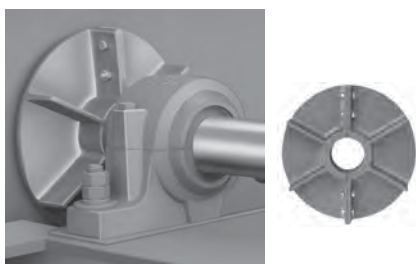
Steel screen mounted to the inlet cone. Screens are split where required for easy removal.



轴承冷却风扇 Cooling Wheel

分半式的铸铝冷却风扇安装于内轴承和机壳中间，可有效防止轴上传热和蜗壳辐射热作用于轴承上。同时配有散热叶轮保护罩，如需高温运用请参照第七页

Split aluminum wheel mounted between the inboard bearing and the fan housing. Protects the inboard bearing from shaft conveyed heat and housing radiated heat. Supplied with protective guard as standard. Required for high temperature application; see Table 2 on Page 6.



轴封 Shaft Seal

轴封是用来降低风机在轴穿过蜗壳空隙处的气体泄漏量。轴封的材料可以根据风机的用途选用铝板，铜板，或者是压缩的无摩擦垫子，气密封等方式。

Used to reduce leakage through the shaft hole in the housing. Seal material aluminum, brass, or compressed nonasbestos gasket sheet, depending on fan application.



皮带保护罩 Belt Guard

变风量进风口调节可以以最小的损耗提供准确的风量控制，风机运行平稳，无论进风阀在全闭还是全开的状态下。手动式或自动式开关进风阀为可选件，正常可耐温150℃，特殊耐温到350℃的可咨询工厂。

Enclosed on all sides for safe operation and vented to prevent overheating. Tachometer holes, hinged cover, and safety colour coatings also available.



进风口法兰/出风口法兰 Flanged Outlet t/Flanged Inlet

开孔的进风口法兰可以方便进风风管和风机的连接

Punched flanges to facilitate the bolting of duct connections to the fan inlet and outlet. Flanged Outlet needed when the fan is to be fitted with an Outlet Damper.



共用减震底座 Unitary Base

共用减震底座给风机和电机提供了一个共同安装的平台。这个平台可以跟弹簧减振器及马达滑动底座一起订货。

Unitary Base Rigid steel frame to provide a common mounting platform for fan and motor. May be ordered with spring or rubber-in-shear isolators and motor slide base.



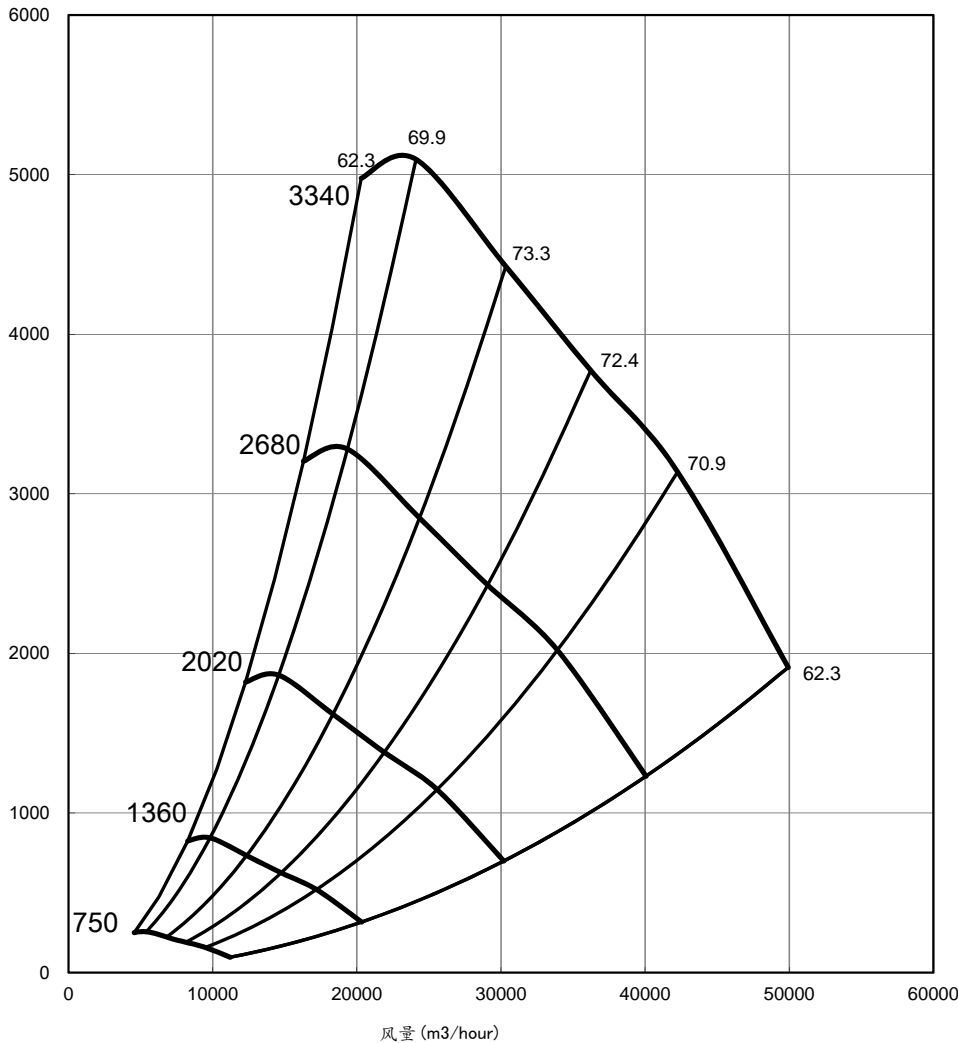
可选的配附件表 Additional Accessories

- 防火花结构
- 轴和轴承密封罩
- 保护涂层
- 分半式外壳
- 特殊合金
- 漏水口
- 高温结构
- 延长的加油管
- 保温层加固钉
- 检查孔
- 分半式滚子轴承
- 工厂安装驱动组
- 方形进风口法兰
- Spark Resistant Construction
- Shaft and Bearing Guards
- Protective Coatings
- Split Housings
- Special Metals
- Drain Openings
- High Temperature Construction
- Extended Grease Fittings
- Insulation Clips
- Weepholes
- Split Block Bearings
- Mounted Drive Package
- Square Flanged Inlet

FEG75

AFDW 222

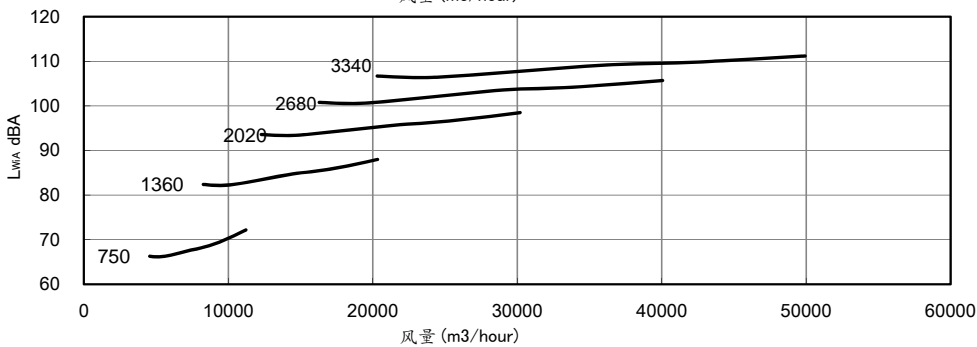
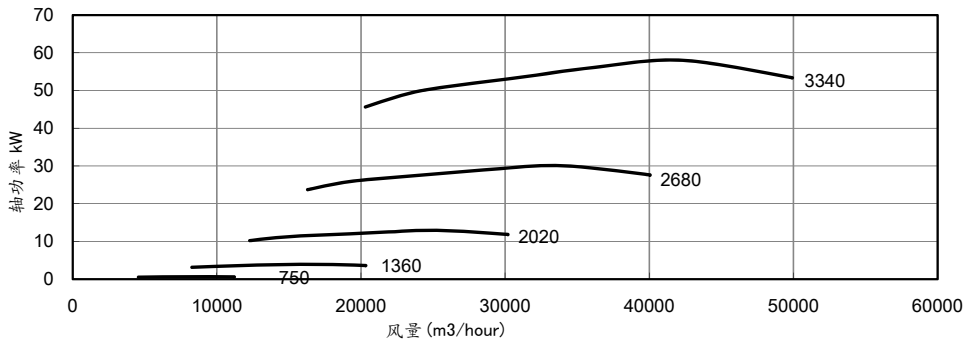
静压 Pst (Pa)



n max (rpm): 3347
 Class IV: 3020<n<3347
 Class III: 2395<n<3020
 Class II: 1837<n<2395
 Class I: n<1837

n (rpm)	u (m/s)
3340	98.5
2680	79.0
2020	59.5
1360	40.1
750	22.1

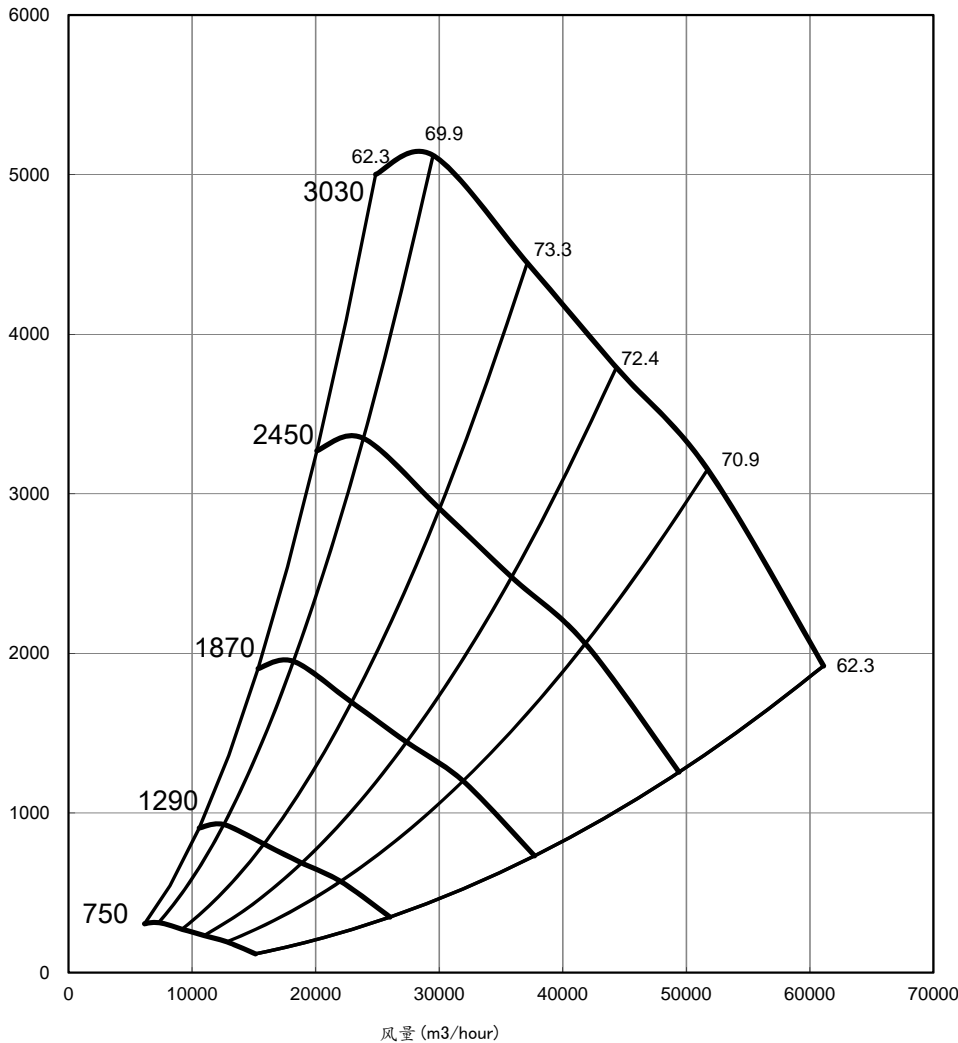
- 功率额定值(kW)不包括传输(动)损失。
Power rating (kW) does not include transmission losses.
- 各项性能额定值不包括附属物(附件)的影响。
Performance ratings do not include the effects of appurtenances (accessories).
- 经认证的性能是B类安装 - 自由入口, 管道出口。
Performance certified is for installation type B - Free inlet, Ducted outlet.
- 所示值为安装类型 B: 自由入口, 管道出口的声功率级(入口LwiA)。额定值不包括管道端部校正影响。所示 A 加权声音性能额定值已按 AMCA International 标准 301 计算。
Values shown are for inlet LwiA sound power levels for: Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.



FEG75

AFDW 245

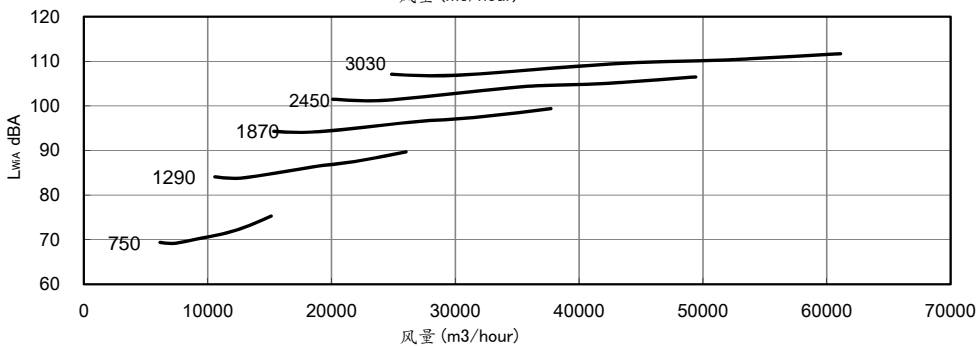
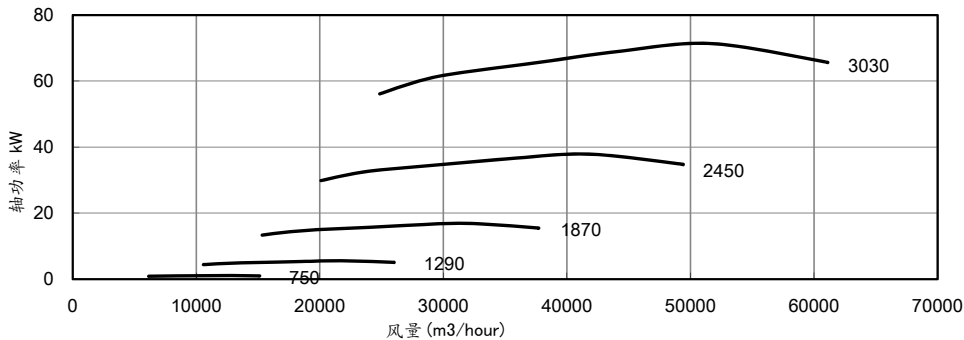
静压 Pst (Pa)



n max (rpm): 3039
 Class IV: 2742<n<3039
 Class III: 2175<n<2742
 Class II: 1668<n<2175
 Class I: n<1668

n (rpm)	u (m/s)
3030	98.7
2450	79.8
1870	60.9
1290	42.0
750	24.4

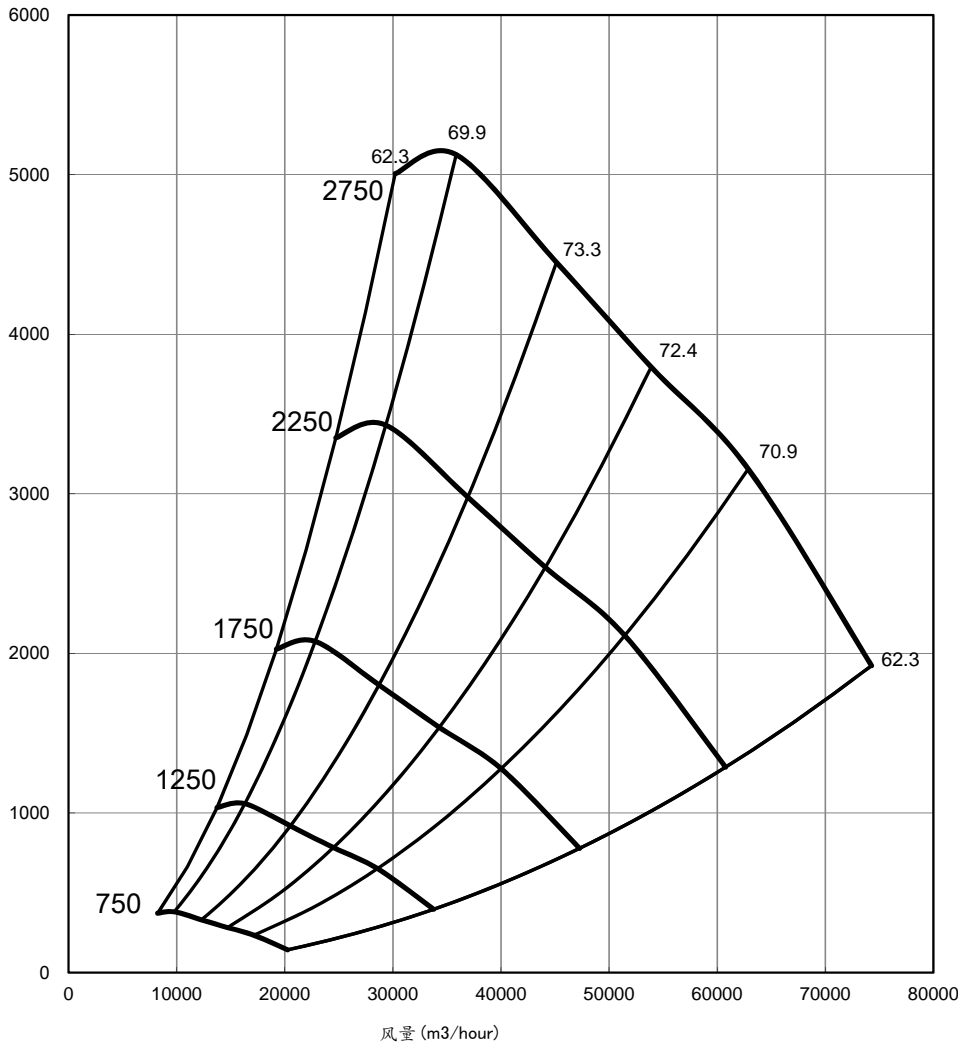
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Power rating (kW) does not include transmission losses.
2. 各项性能额定值不包括附属物(附件)的影响。
Performance ratings do not include the effects of appurtenances (accessories).
3. 经认证的性能是B类安装 - 自由入口, 管道出口。
Performance certified is for installation type B - Free inlet, Ducted outlet.
4. 所示值为安装类型 B: 自由入口, 管道出口的声功率级(入口LwiA)。额定值不包括管道端部校正影响。
所示 A 加权声音性能额定值已按 AMCA International 标准 301 计算。
Values shown are for inlet LwiA sound power levels for:
Installation Type B: free inlet, ducted outlet.
The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.



FEG75

AFDW 270

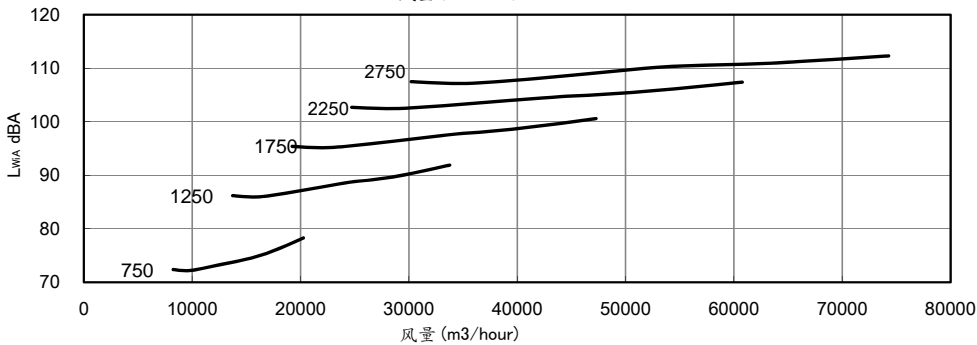
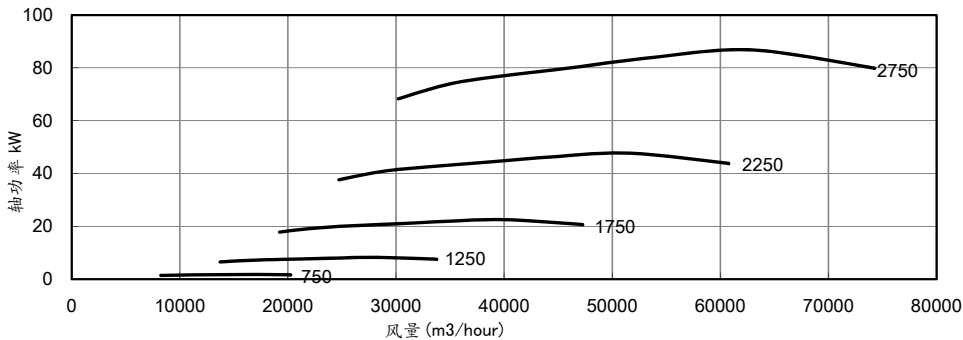
静压 Pst (Pa)



n max (rpm): 2756
 Class IV: 2533<n<2756
 Class III: 2009<n<2533
 Class II: 1541<n<2009
 Class I: n<1541

n (rpm)	u (m/s)
2750	98.8
2250	80.8
1750	62.9
1250	44.9
750	26.9

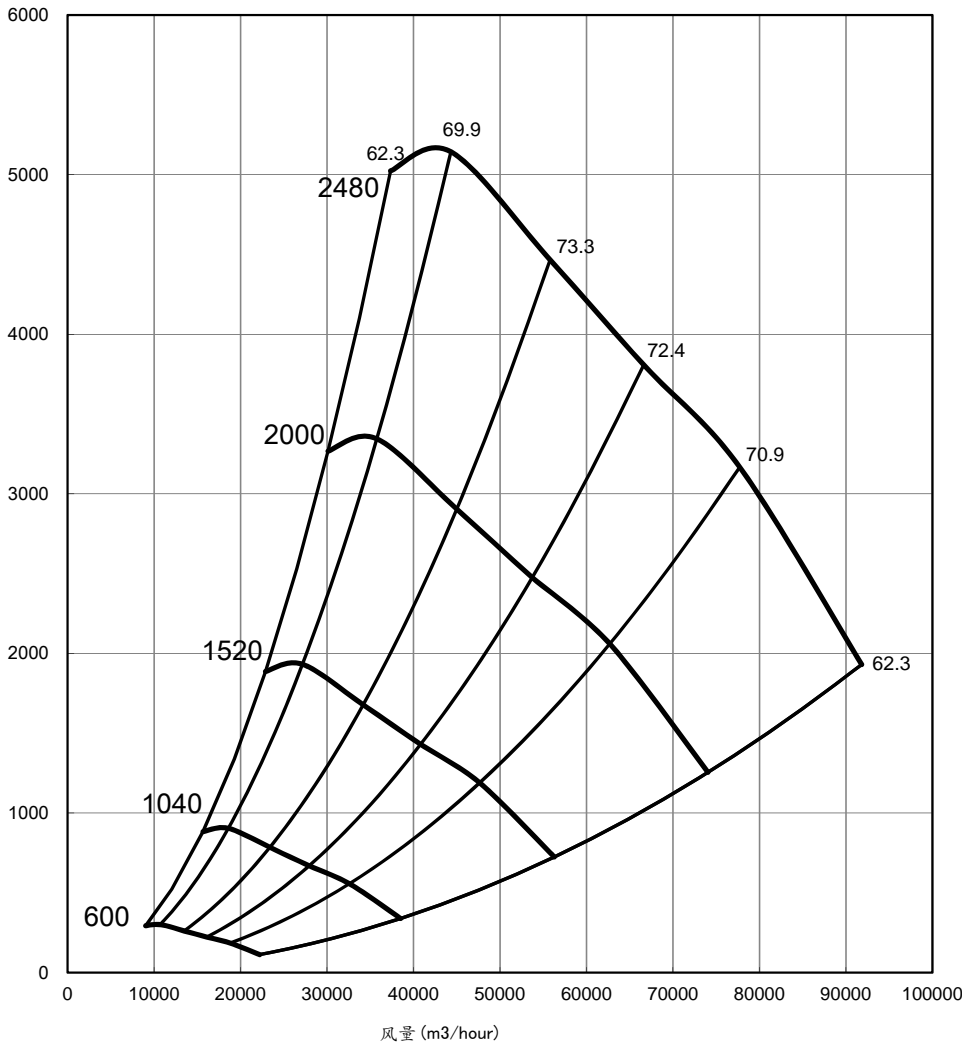
1. 功率额定值(kW)不包括传输(动)损失。
Power rating (kW) does not include transmission losses.
2. 各项性能额定值不包括附属物(附件)的影响。
Performance ratings do not include the effects of appurtenances (accessories).
3. 经认证的性能是B类安装 - 自由入口, 管道出口。
Performance certified is for installation type B - Free inlet, Ducted outlet.
4. 所示值为安装类型 B: 自由入口, 管道出口的声功率级(入口LwiA)。额定值不包括管道端部校正影响。
所示 A 加权声音性能额定值已按 AMCA International 标准 301 计算。
Values shown are for inlet LwiA sound power levels for:
Installation Type B: free inlet, ducted outlet.
The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.



FEG75

AFDW 300

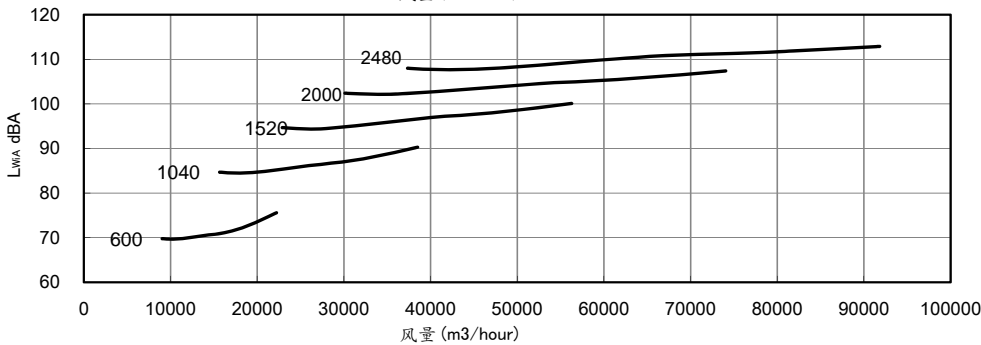
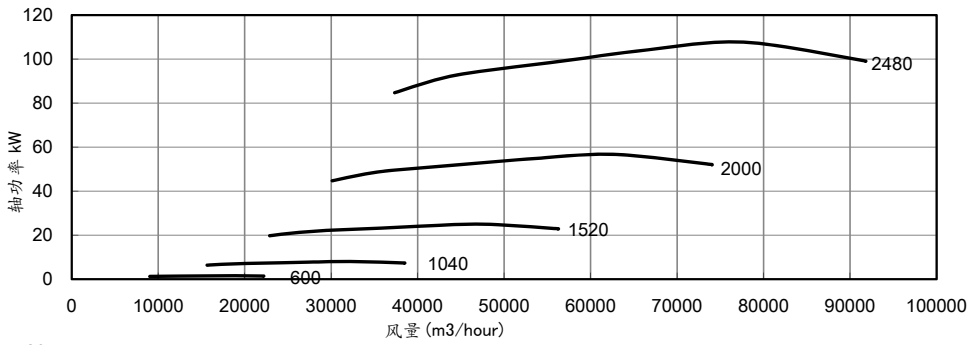
静压 Pst (Pa)



n max (rpm): 2480
 Class IV: 2280<n<2480
 Class III: 1808<n<2280
 Class II: 1387<n<1808
 Class I: n<1387

n (rpm)	u (m/s)
2480	98.9
2000	79.8
1520	60.6
1040	41.5
600	23.9

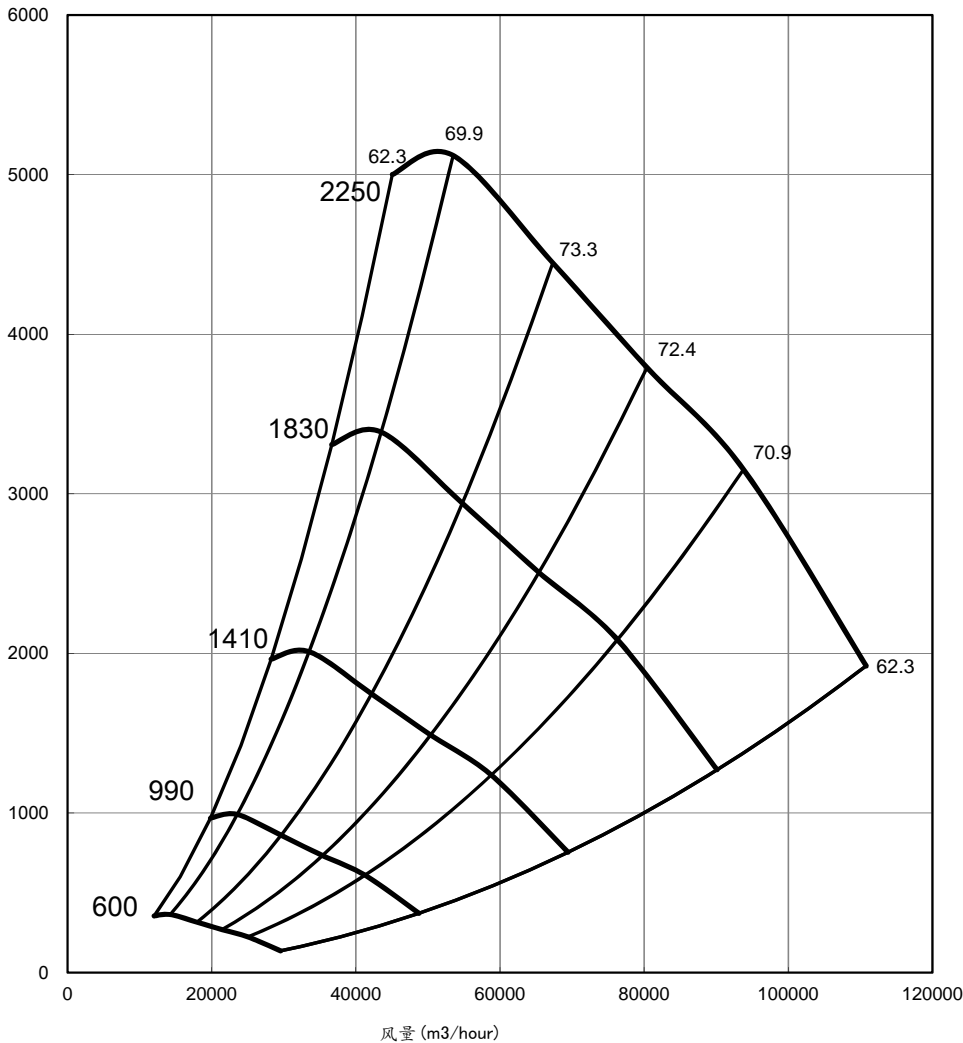
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Power rating (kW) does not include transmission losses.
- 各项性能额定值不包括附属物(附件)的影响。
Performance ratings do not include the effects of appurtenances (accessories).
- 经认证的性能是B类安装 - 自由入口, 管道出口。
Performance certified is for installation type B - Free inlet, Ducted outlet.
- 所示值为安装类型 B: 自由入口, 管道出口的声功率级(入口LwiA)。额定值不包括管道端部校正影响。
所示 A 加权声音性能额定值已按 AMCA International 标准 301 计算。
Values shown are for inlet LwiA sound power levels for:
Installation Type B: free inlet, ducted outlet.
The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.



FEG75

AFDW 330

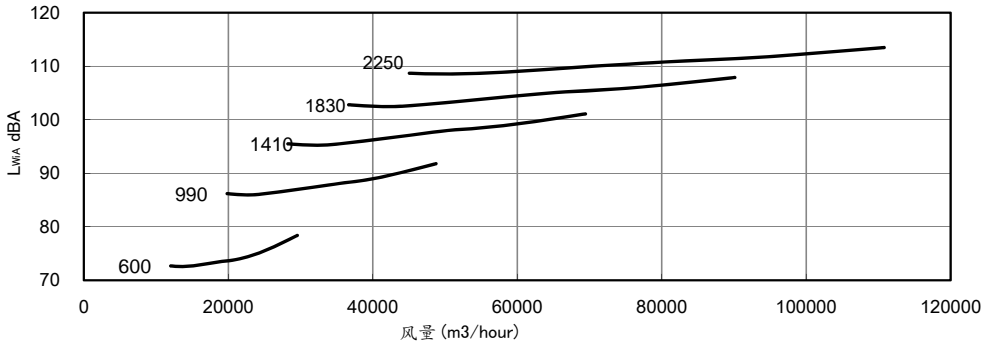
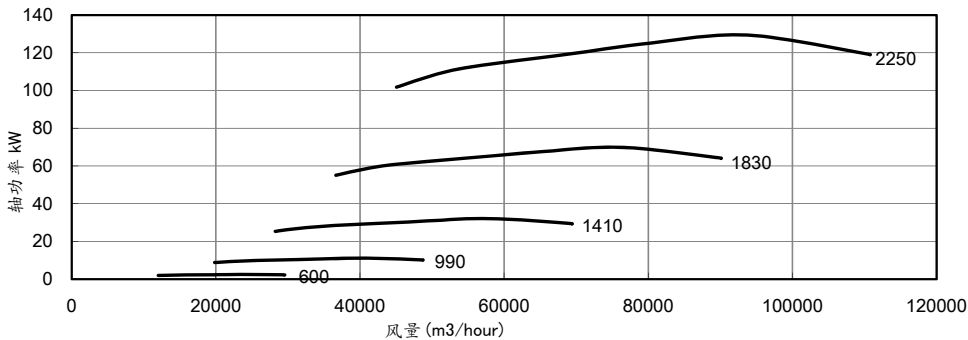
静压 Pst (Pa)



n max (rpm): 2250
 Class IV: 2072<n<2255
 Class III: 1644<n<2072
 Class II: 1261<n<1644
 Class I: n<1261

n (rpm)	u (m/s)
2250	98.7
1830	80.3
1410	61.9
990	43.4
600	26.3

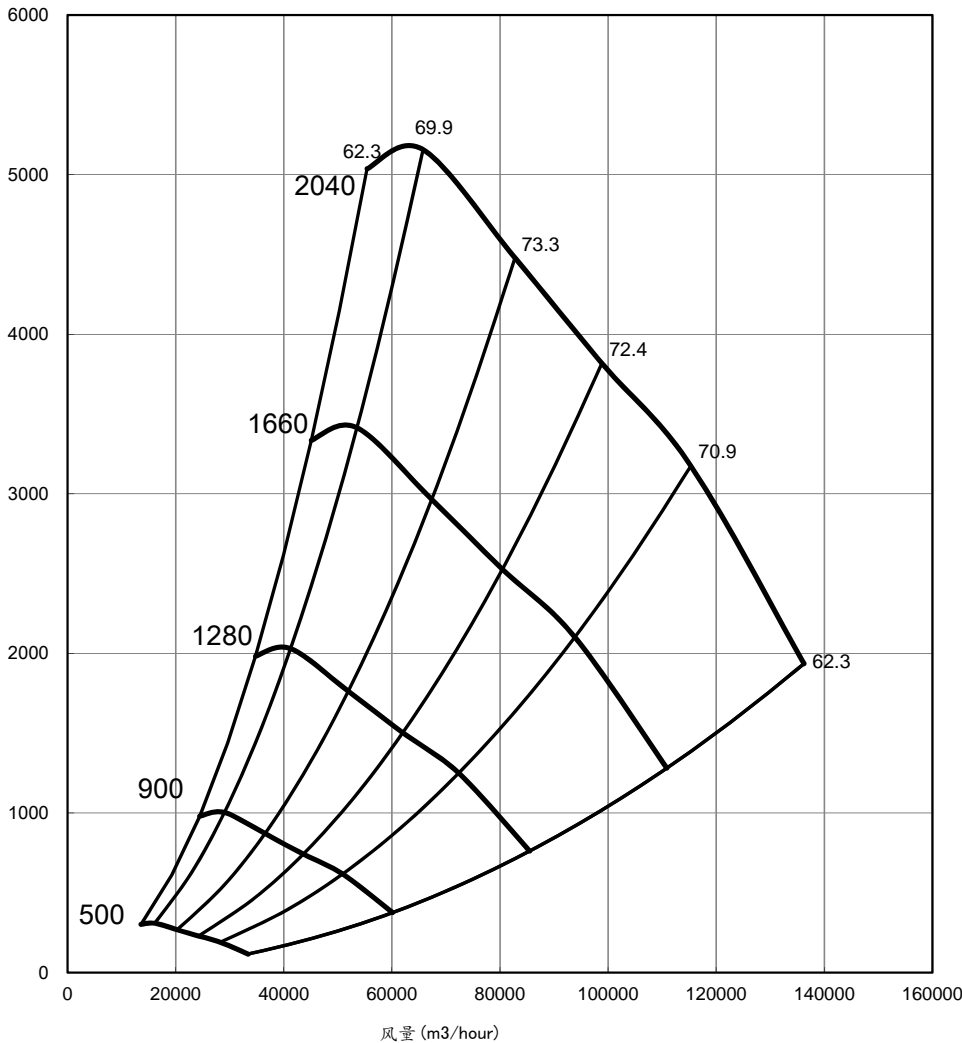
- 功率额定值(kW)不包括传输(动)损失。
Power rating (kW) does not include transmission losses.
- 各项性能额定值不包括附属物(附件)的影响。
Performance ratings do not include the effects of appurtenances (accessories).
- 经认证的性能是B类安装 - 自由入口, 管道出口。
Performance certified is for installation type B - Free inlet, Ducted outlet.
- 所示值为安装类型 B: 自由入口, 管道出口的声功率级(入口LwiA)。额定值不包括管道端部校正影响。所示 A 加权声音性能额定值已按 AMCA International 标准 301 计算。
Values shown are for inlet LwiA sound power levels for: Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.



FEG75

AFDW 365

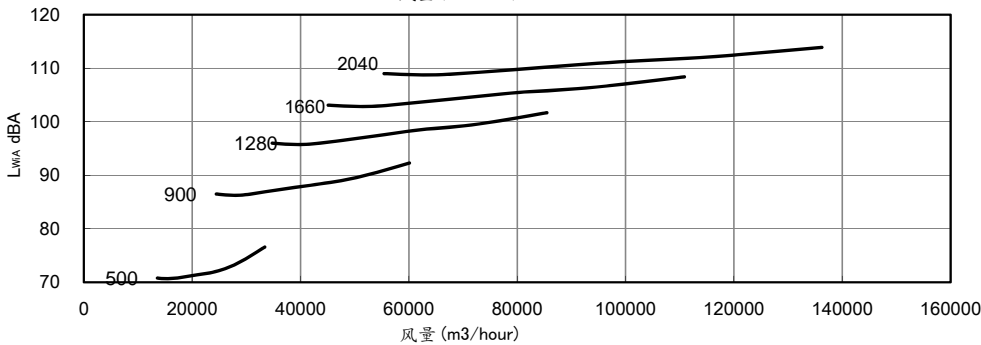
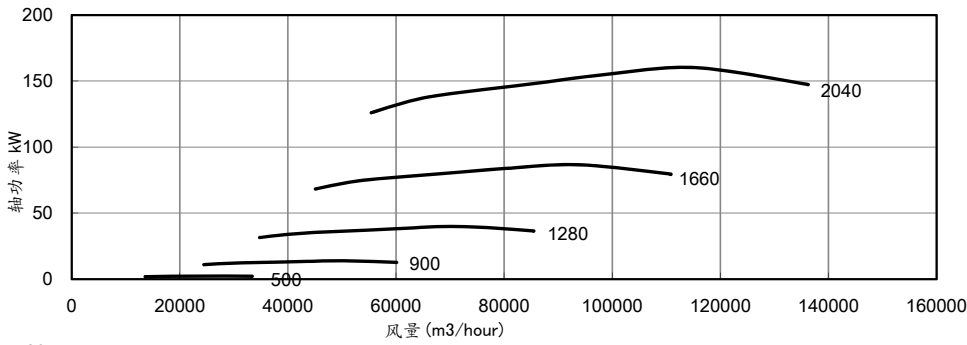
静压 Pst (Pa)



n max (rpm): 2040
 Class IV: 1831<n<2040
 Class III: 1452<n<1831
 Class II: 1114<n<1452
 Class I: n<1114

n (rpm)	u (m/s)
2040	99.0
1660	80.6
1280	62.1
900	43.7
500	24.3

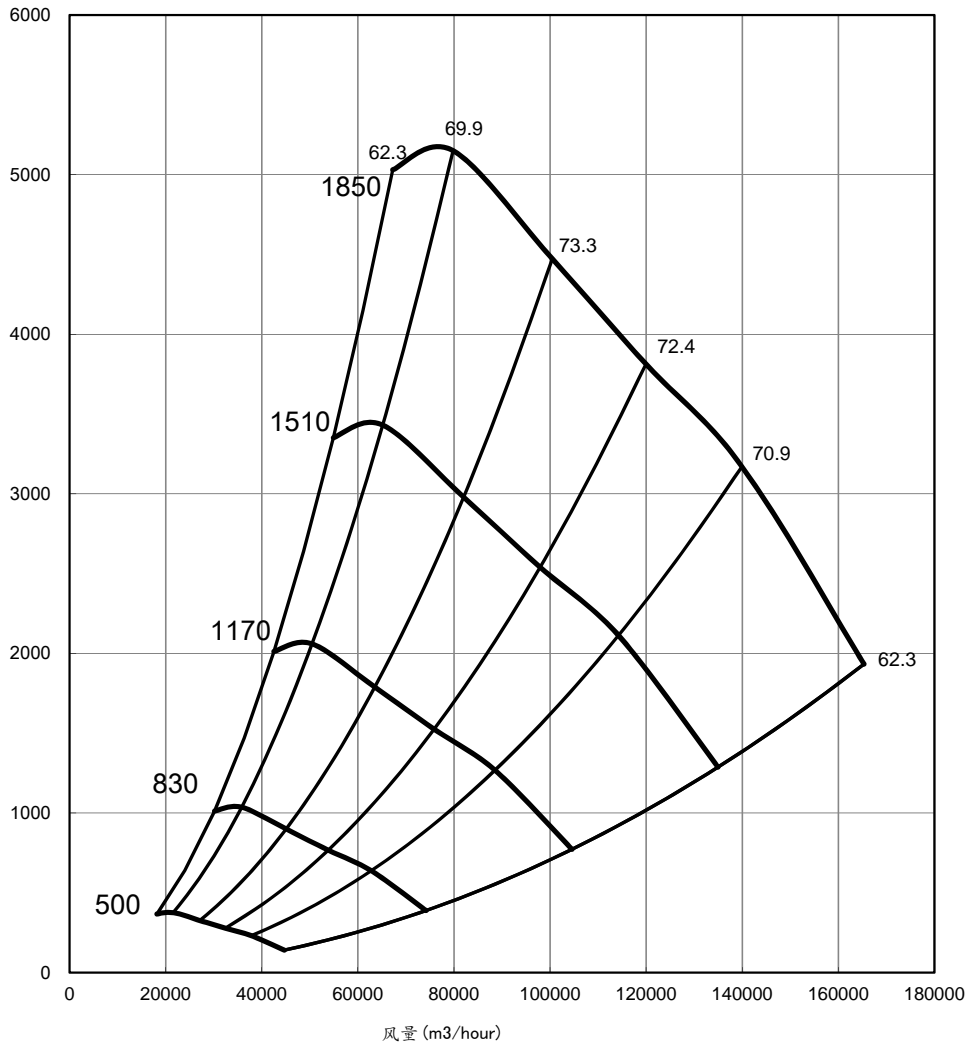
- 功率额定值(kW)不包括传输(动)损失。
Power rating (kW) does not include transmission losses.
- 各项性能额定值不包括附属物(附件)的影响。
Performance ratings do not include the effects of appurtenances (accessories).
- 经认证的性能是B类安装 - 自由入口, 管道出口。
Performance certified is for installation type B - Free inlet, Ducted outlet.
- 所示值为安装类型 B: 自由入口, 管道出口的声功率级(入口LwiA)。额定值不包括管道端部校正影响。所示 A 加权声音性能额定值已按 AMCA International 标准 301 计算。
Values shown are for inlet LwiA sound power levels for: Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.



FEG75

AFDW 402

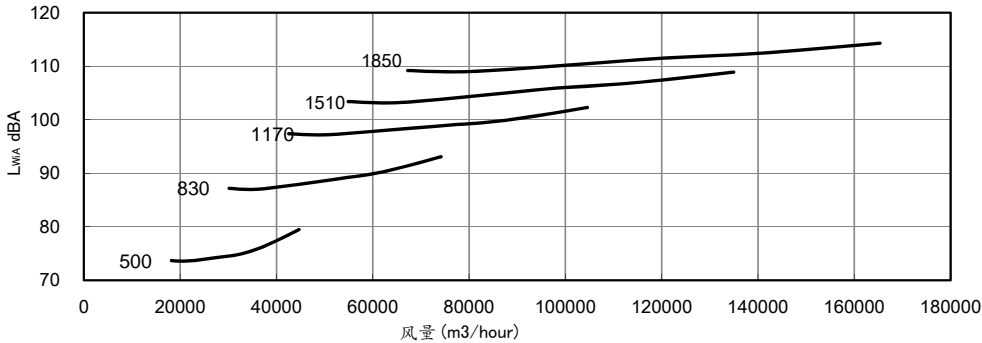
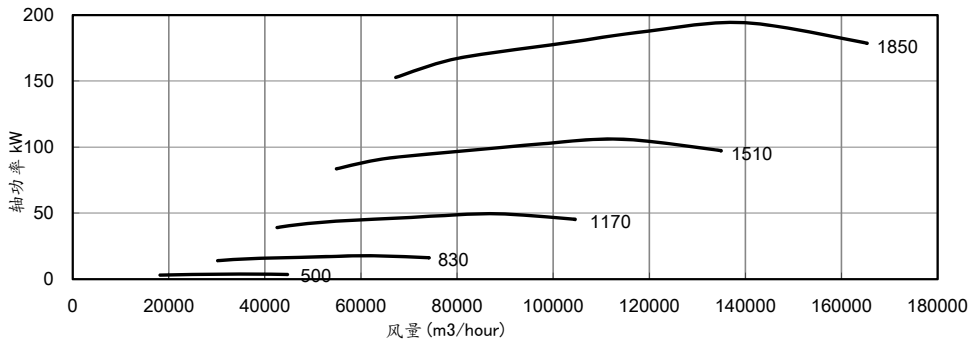
静压 Pst (Pa)



n max (rpm): 1850
 Class IV: 1661<n<1850
 Class III: 1317<n<1661
 Class II: 1010<n<1317
 Class I: n<1010

n (rpm)	u (m/s)
1850	99.0
1510	80.8
1170	62.6
830	44.4
500	26.8

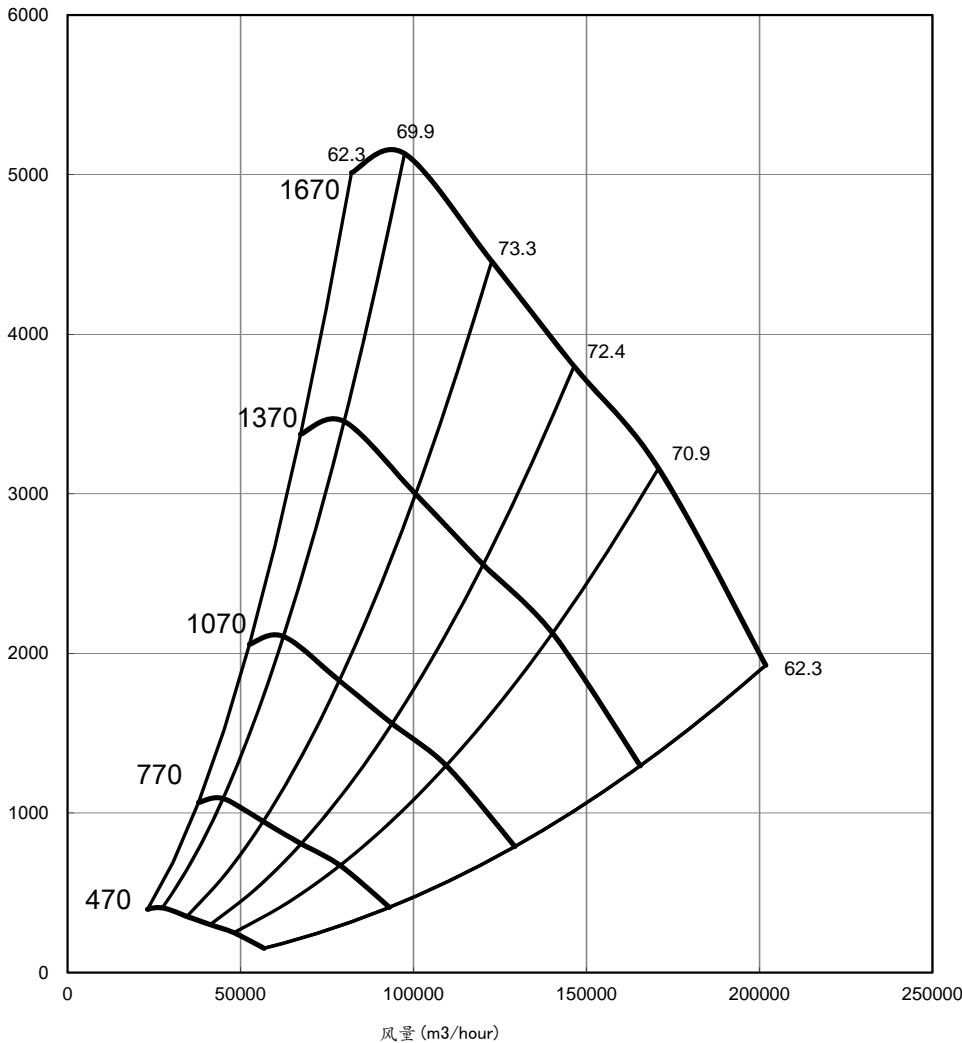
- 功率额定值(kW)不包括传输(动)损失。
Power rating (kW) does not include transmission losses.
- 各项性能额定值不包括附属物(附件)的影响。
Performance ratings do not include the effects of appurtenances (accessories).
- 经认证的性能是B类安装 - 自由入口, 管道出口。
Performance certified is for installation type B - Free inlet, Ducted outlet.
- 所示值为安装类型 B: 自由入口, 管道出口的声功率级(入口LwiA)。额定值不包括管道端部校正影响。所示 A 加权声音性能额定值已按 AMCA International 标准 301 计算。
Values shown are for inlet LwiA sound power levels for: Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.



FEG75

AFDW 445

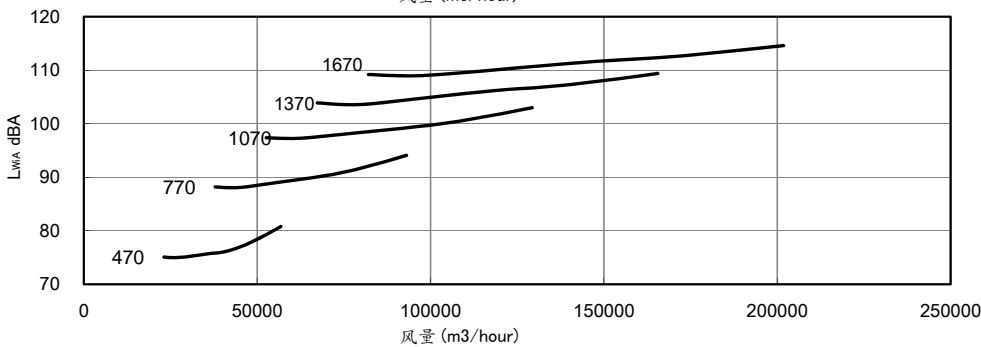
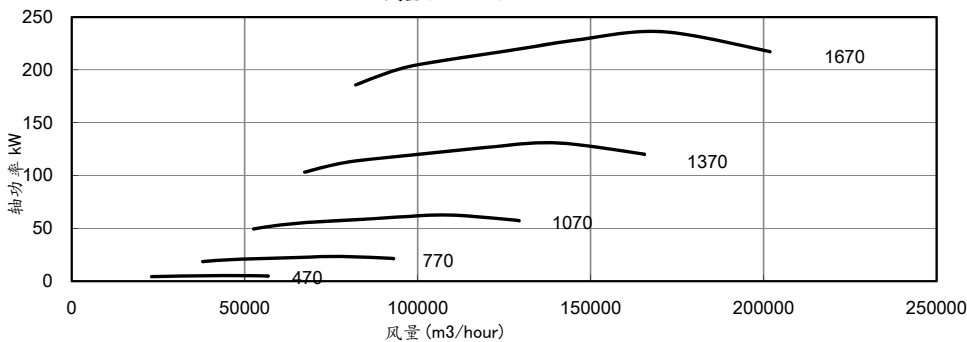
静压 Pst (Pa)



n max (rpm): 1673
 Class IV: 1502<n<1673
 Class III: 1191<n<1502
 Class II: 914<n<1191
 Class I: n<914

n (rpm)	u (m/s)
1670	98.8
1370	81.1
1070	63.3
770	45.6
470	27.8

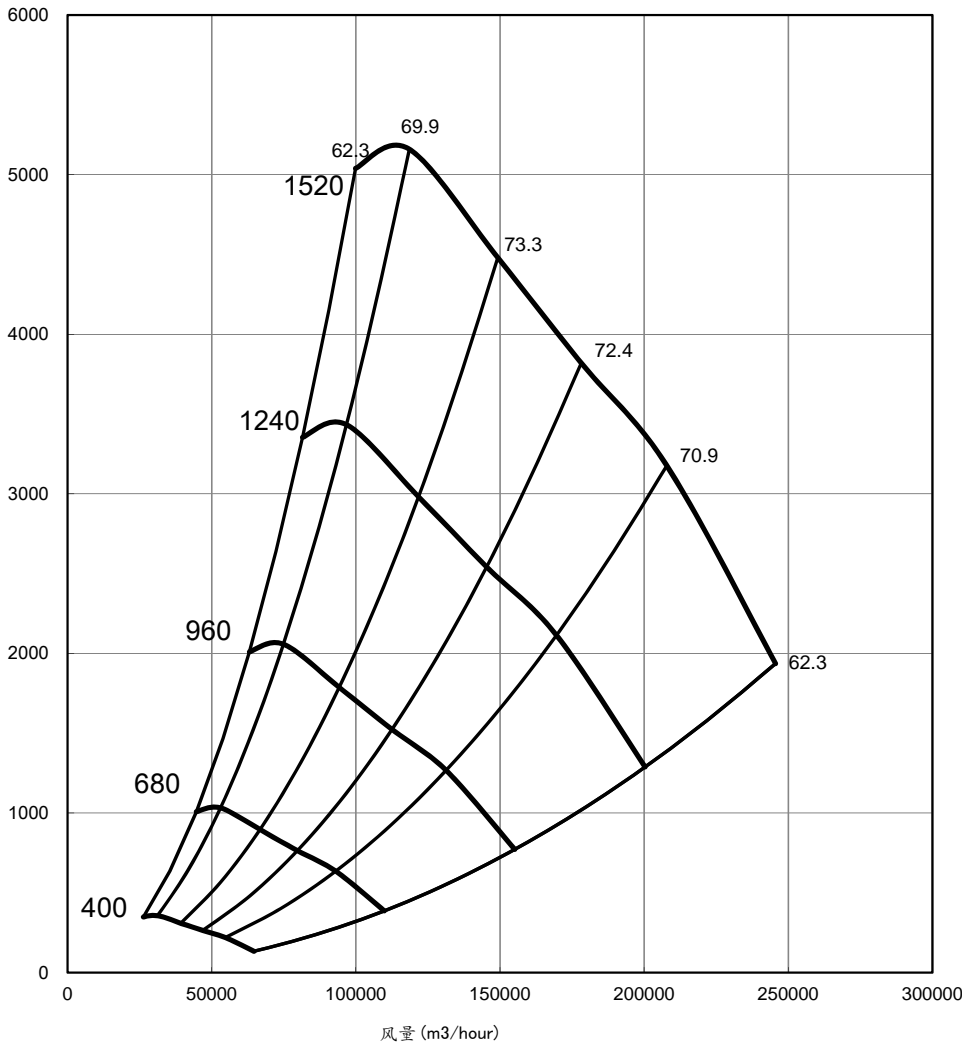
- 功率额定值(kW)不包括传输(动)损失。
Power rating (kW) does not include transmission losses.
- 各项性能额定值不包括附属物(附件)的影响。
Performance ratings do not include the effects of appurtenances (accessories).
- 经认证的性能是B类安装 - 自由入口, 管道出口。
Performance certified is for installation type B - Free inlet, Ducted outlet.
- 所示值为安装类型 B: 自由入口, 管道出口的声功率级(入口LwiA)。额定值不包括管道端部校正影响。所示 A 加权声音性能额定值已按 AMCA International 标准 301 计算。
Values shown are for inlet LwiA sound power levels for: Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.



FEG75

AFDW 490

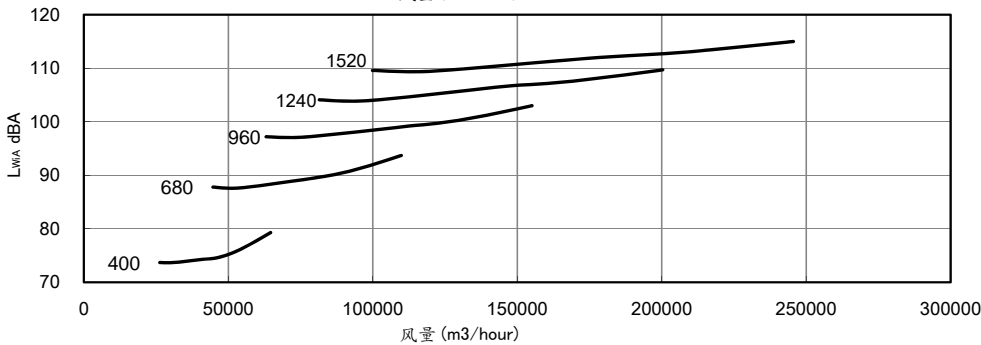
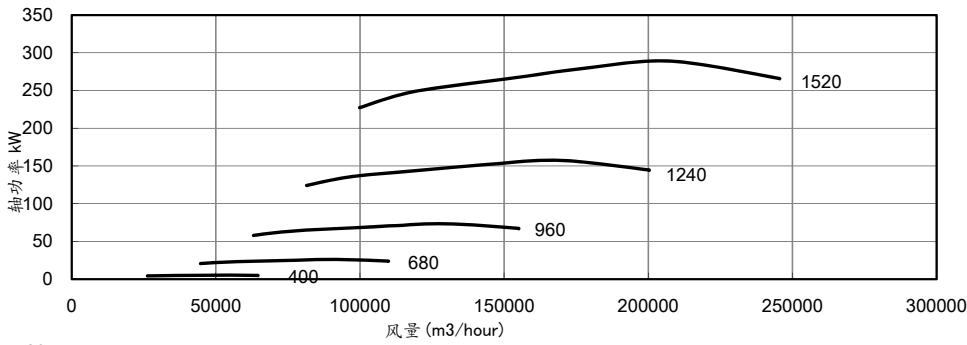
静压 Pst (Pa)



n max (rpm): 1520
 Class IV: 1364<n<1520
 Class III: 1082<n<1364
 Class II: 830<n<1082
 Class I: n<830

n (rpm)	u (m/s)
1520	99.1
1240	80.8
960	62.6
680	44.3
400	26.1

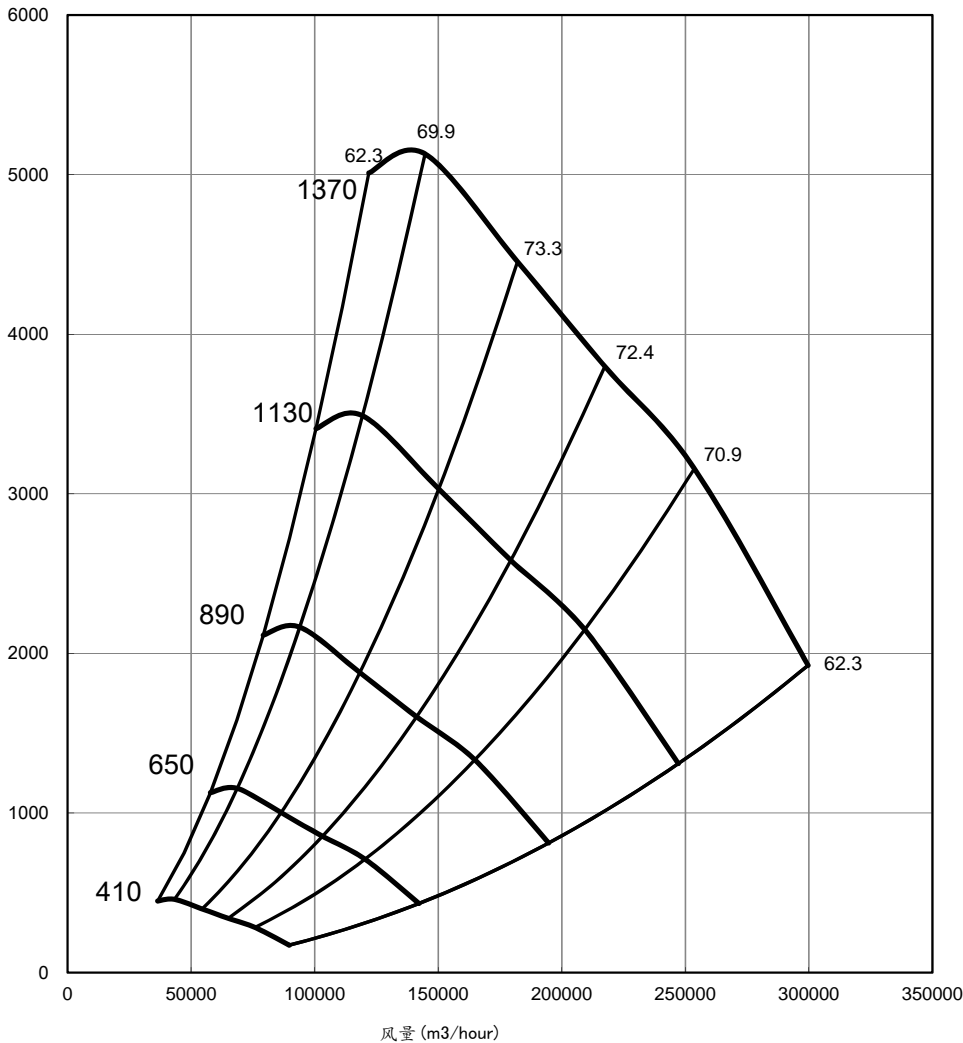
- 功率额定值(kW)不包括传输(动)损失。
Power rating (kW) does not include transmission losses.
- 各项性能额定值不包括附属物(附件)的影响。
Performance ratings do not include the effects of appurtenances (accessories).
- 经认证的性能是B类安装 - 自由入口, 管道出口。
Performance certified is for installation type B - Free inlet, Ducted outlet.
- 所示值为安装类型 B: 自由入口, 管道出口的声功率级(入口LwiA)。额定值不包括管道端部校正影响。所示 A 加权声音性能额定值已按 AMCA International 标准 301 计算。
Values shown are for inlet LwiA sound power levels for: Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.



FEG75

AFDW 542

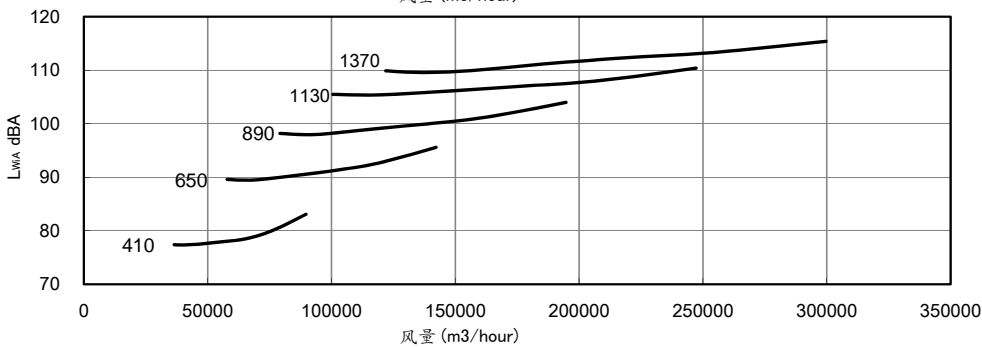
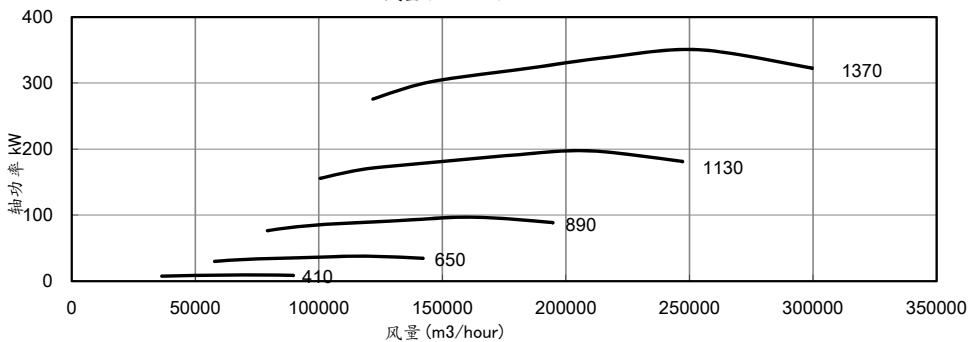
静压 Pst (Pa)



n max (rpm): 1373
 Class IV: 1232<n<1373
 Class III: 977<n<1232
 Class II: 750<n<977
 Class I: n<750

n (rpm)	u (m/s)
1370	98.8
1130	81.5
890	64.2
650	46.9
410	29.6

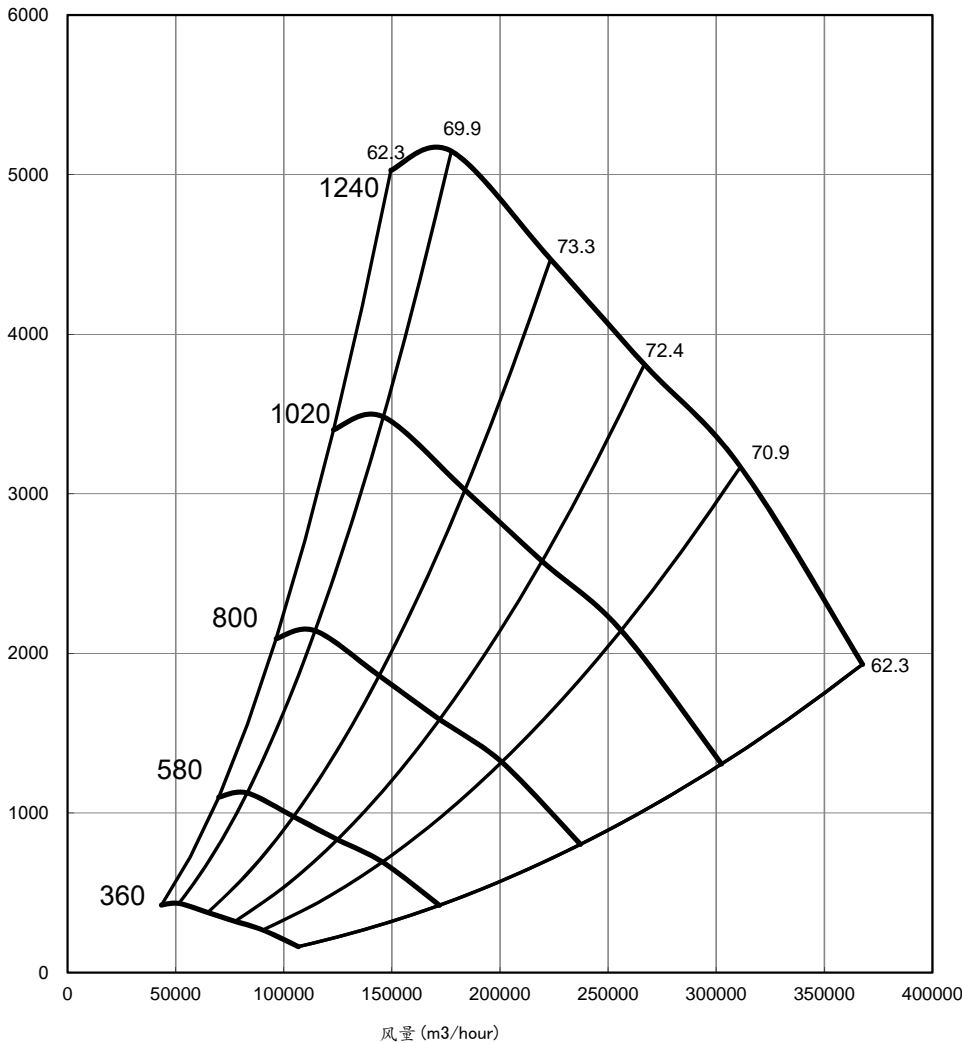
- 功率额定值(kW)不包括传输(动)损失。
Power rating (kW) does not include transmission losses.
- 各项性能额定值不包括附属物(附件)的影响。
Performance ratings do not include the effects of appurtenances (accessories).
- 经认证的性能是B类安装 - 自由入口, 管道出口。
Performance certified is for installation type B - Free inlet, Ducted outlet.
- 所示值为安装类型 B: 自由入口, 管道出口的声功率级(入口LwiA)。额定值不包括管道端部校正影响。所示 A 加权声音性能额定值已按 AMCA International 标准 301 计算。
Values shown are for inlet LwiA sound power levels for: Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.



FEG75

AFDW 600

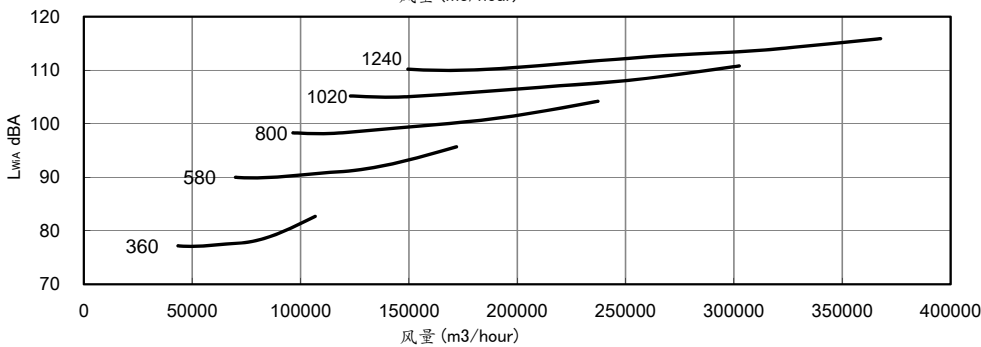
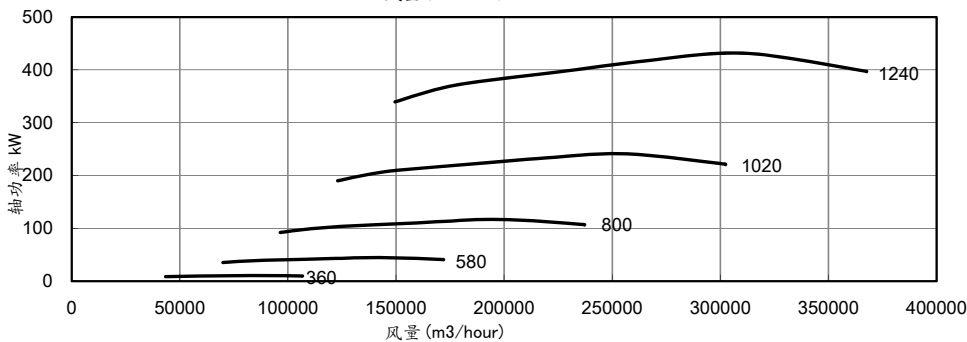
静压 Pst (Pa)



n max (rpm): 1241
 Class IV: 1114<n<1241
 Class III: 883<n<1114
 Class II: 678<n<883
 Class I: n<678

n (rpm)	u (m/s)
1240	98.9
1020	81.4
800	63.8
580	46.3
360	28.7

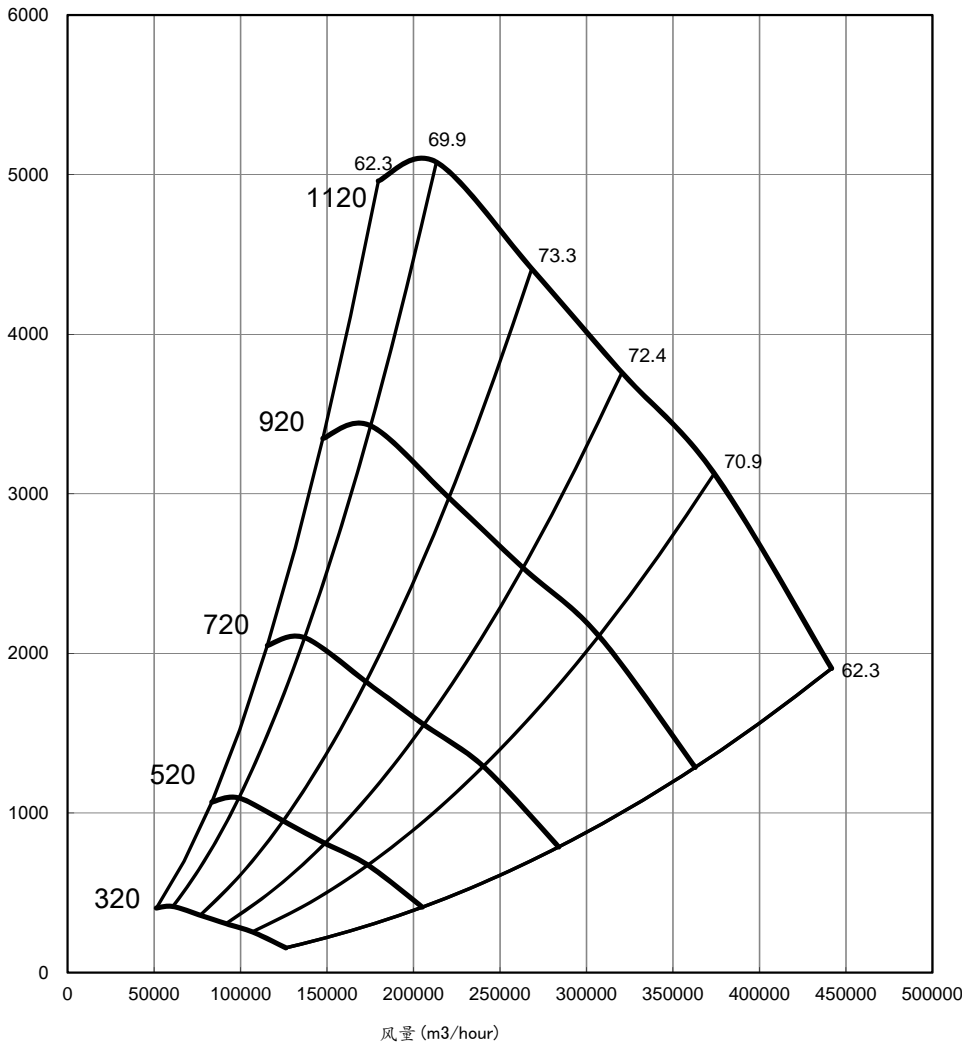
1. 功率额定值(kW)不包括传输(动)损失。
Power rating (kW) does not include transmission losses.
2. 各项性能额定值不包括附属物(附件)的影响。
Performance ratings do not include the effects of appurtenances (accessories).
3. 经认证的性能是B类安装 - 自由入口, 管道出口。
Performance certified is for installation type B - Free inlet, Ducted outlet.
4. 所示值为安装类型 B: 自由入口, 管道出口的声功率级(入口LwiA)。额定值不包括管道端部校正影响。
所示 A 加权声音性能额定值已按 AMCA International 标准 301 计算。
Values shown are for inlet LwiA sound power levels for:
Installation Type B: free inlet, ducted outlet.
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FEG75

AFDW 660

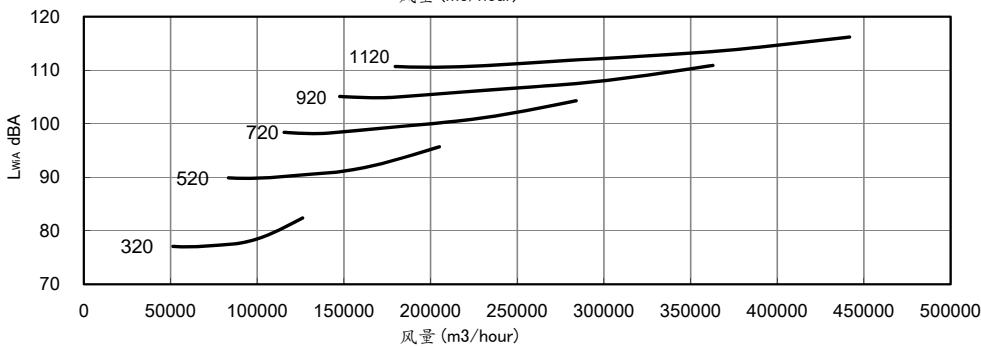
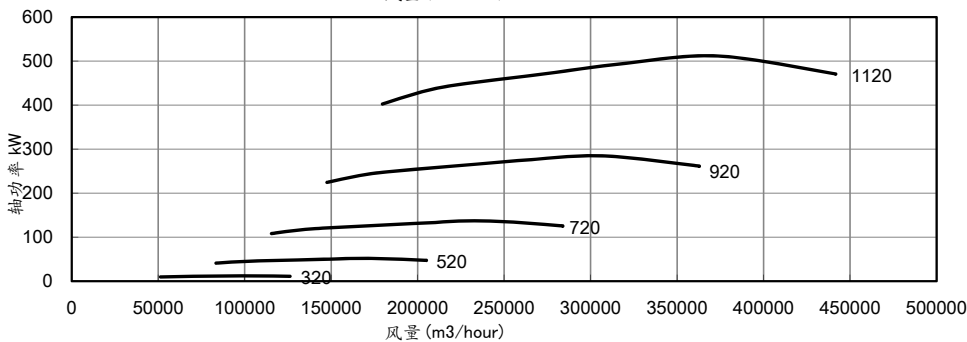
静压 Pst (Pa)



n max (rpm): 1128
 Class IV: 1013<n<1128
 Class III: 803<n<1013
 Class II: 616<n<803
 Class I: n<616

n (rpm)	u (m/s)
1120	98.3
920	80.7
720	63.2
520	45.6
320	28.1

- 功率额定值(kW)不包括传输(动)损失。
Power rating (kW) does not include transmission losses.
- 各项性能额定值不包括附属物(附件)的影响。
Performance ratings do not include the effects of appurtenances (accessories).
- 经认证的性能是B类安装 - 自由入口, 管道出口。
Performance certified is for installation type B - Free inlet, Ducted outlet.
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Values shown are for inlet LwiA sound power levels for: Installation Type B: free inlet, ducted outlet. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.



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