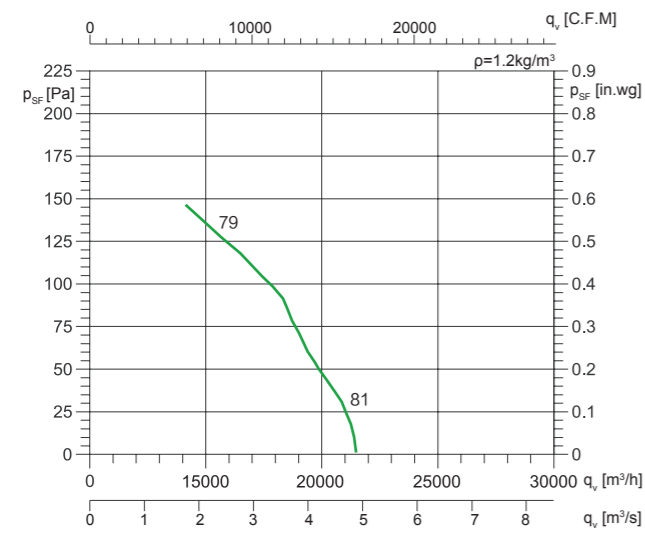


技术参数

Technical Data

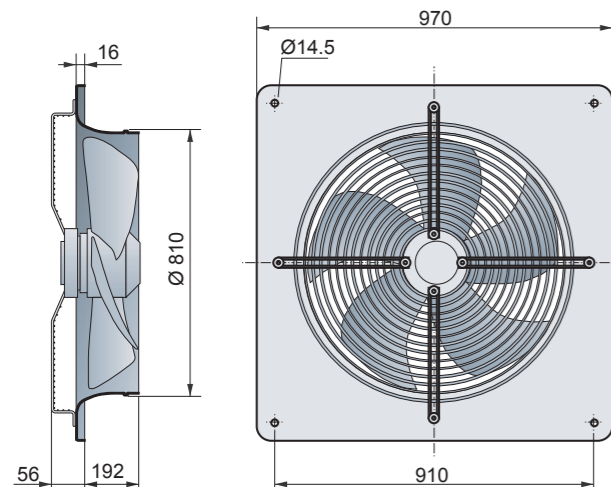
YAQ 800-6 D



Type: YAQ 800-6 D	m: 47 kg	P_N : 1.4kW-6P					
	U: 380 v	f_i : 50HZ					
	I_N : 3.4 A	N: 920 r/min					
Δ dB	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
L_w (A)	-36	-17	-10	-7	-4	-9	-19
L_{wo} (A)	-36	-17	-10	-7	-4	-9	-19

YAQ 外形及安装尺寸

YAQ Overall Size



YG/YGS/YGE/YGSE 系列管道风机

概述

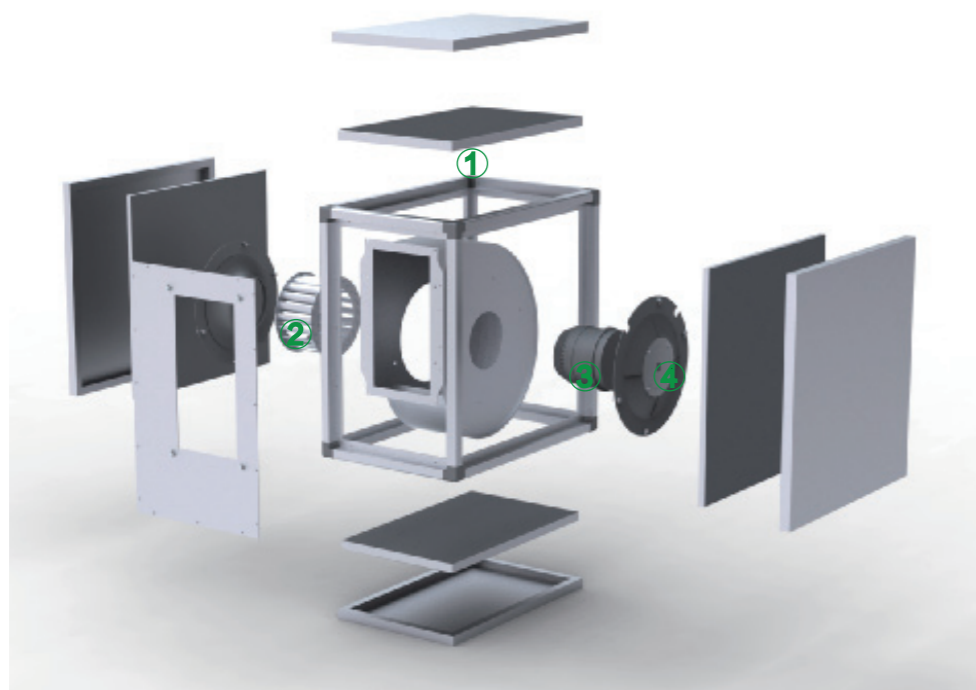
YG 系列管道风机内置单进风前向多翼离心风机,外转子电机直联驱动。该样本中列出的 8 种规格风机,流量范围从 50m³/h – 8000m³/h,压力范围 100Pa~850Pa。客户可根据现场对噪音要求的不同,可选用 YGS 消音型管道风机满足低噪音的要求。

Summary

YG series duct fans are built in with the single inlet centrifugal fans and external rotor motor. This Series has 8 models as described in this catalogue. The air volume ranges from 50m³/h to 8000 m³/h, and the pressure ranges from 100 Pa to 850 Pa. Customers can select YGS-type duct fans to meet the low noise requirements.

命名方式

Nomenclature



产品结构

YG/YGS 系列风机主要由机壳、叶轮、电机、电器元件四部分构成。

Construction of Product

YG/YGS series fans are consist of housing, impeller, motor and electrical connection.

1.机壳

YG、YGE 系列风机的机壳以镀锌钢板制成矩形管道形式,在管道的进风端和出风端都有 20mm 的标准法兰。
YGS、YGSE 系列风机的框架和塑胶边角以加强聚胺玻璃纤维制成。外壳以镀锌钢板制成,内附有消音功能的矿物纤维材料。

1.Housing

YG, YGE- The housing is made of galvanized sheet steel as a rectangular air duct, with standard flanges (20 mm) at inlet and outlet.
YGS, YGSE- Frames are aluminium extrusion and corners are ABS plastic. Panels are made of galvanized steel sheet with the concealed mineral wool.

2.叶轮

前向离心风机叶轮以钢板或塑胶制成。叶轮直接与外转子电机的转子相连。符合 DIN/ISO 1940 标准,双面整体平衡,平衡精度等级达 G2.5 级。

2.Impeller

Forwards curved impellers are made of sheet steel or plastic. The impellers are fitted directly onto the rotor of the external rotor motor. These units are balanced to G2.5 with according to the Standard DIN/ISO 1940.

3.电机

电机具有热保护功能,100% 可自动变压调速或电磁调速交流单相 220V-240V,三相 380-415V 可供选择。防护等级 IP54,绝缘等级 B、F、H 级可供选择。电机平均使用寿命在 24000 小时以上。产品通过中国 CCC 认证及欧洲 CE 认证。

3.Motor

The motor are blessed with thermal protection, the speed can be 100% changed by automatic transformer or electromagnetic. The voltage include AC single-phase from 220V to 240V, three phase form 380 to 415V, which are available to choose. The motors' ingress protection are IP54, insulation class include B, F, H three levels to choose. Motor average life is over 24,000 hours. They are licensed to bear the China CCC and Europe CE Marking.

4.电气元件

YG 系列管道风机的电机带有电缆线,可直接接线。也可选择安装外置接线盒,外置接线盒是可选配件。

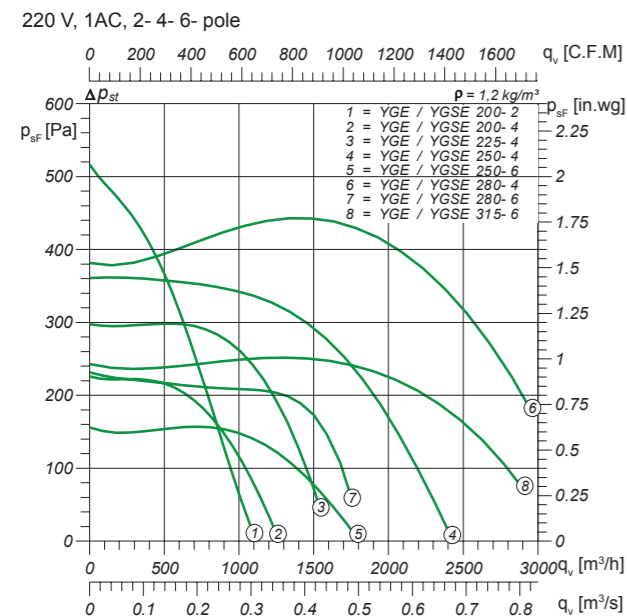
4.Electrical Connection

The motors of the YG, YGE, YGS and YGSE series duct fans have a wire connecting to the outside of the cabinet which is ease for the customer to connect the fan motor to their control panel.
The motors can also be connected to an external terminal box. The external terminal box is an optional item.

YG/YGS

管道风机系列

快速选择



声级

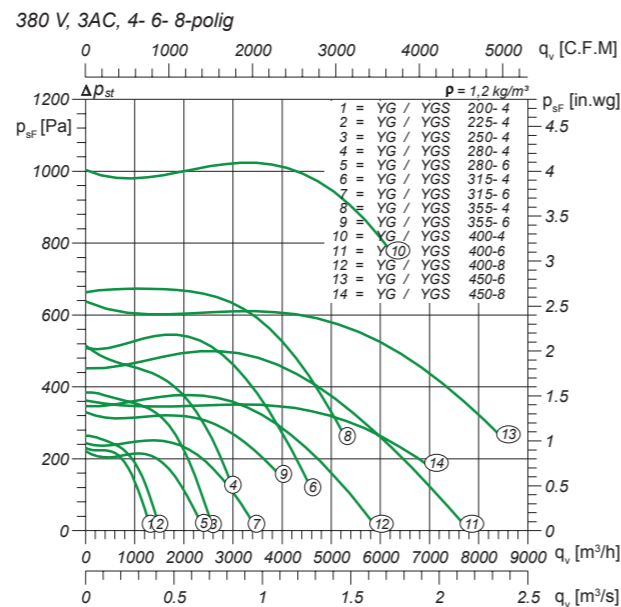
性能曲线中所示的噪声是管道风机出口处的声功率级 L_{W0A} ，是一个“A”分贝值。

进口处的 A 声功率级 L_{WA} 根据 GB/T 2888-2008 第 38 节规定的方法测定，可通过相对声功率级计算(见下表)或近似采用下列公式：

$L_{WA} \approx L_{W0A} - 6 \text{ dB}$
机壳声功率级 L_{WA2} 根据 GB/T 2888-2008 规定的方法测定，可通过相对声功率级计算(见下表)或近似采用下列公式：
 $L_{WA2} \approx L_{W0A} - 17 \text{ dB}$ 适用 YGE 系列风机或 YG 系列风机
 $L_{WA2} \approx L_{W0A} - 25 \text{ dB}$ 适用 YGSE 系列风机或 YGS 系列风机
 L_{PA} 是距离声源 1 米处 A 声压级，可从声功率级中减去 7dB 近似计算得到：
 $L_{PA(1m)} \approx L_{WA2} - 7 \text{ dB}$

但是，A 声压级会随反射，测试室的特性及固有频率的变化而变化。为了避免刚性传导对管道系统的影响，故推荐使用软连接。

Quick Selection



Noise Levels

The sound power shown in the performance curves are the "A" weighted sound which are the sound power levels L_{W0A} at the outlet of the duct fans.

The "A" sound power level at the inlet side L_{WA} , according to GB/T 2888-2008 part 38, can be calculated via the relative sound power levels (see below) or is obtained approximately as follows:

$L_{WA} \approx L_{W0A} - 6 \text{ dB}$
The "A" sound power level L_{WA2} from the casing according to GB/T 2888-2008 can be calculated via the relative sound power levels (see below) or is obtained approximately as follows:
 $L_{WA2} \approx L_{W0A} - 17 \text{ dB}$, for YGE or YG
 $L_{WA2} \approx L_{W0A} - 25 \text{ dB}$, for YGSE or YGS
The "A" sound pressure level L_{PA} at a distance of 1 meter is obtained approximately by deducting 7 dB(A) from the "A" sound power level:
 $L_{PA(1m)} \approx L_{WA2} - 7 \text{ dB}$
Note that the reflection, room characteristic and natural frequencies will influence the sound pressure levels. To avoid rigid conduction transfer to the duct system, we recommend to use the flexible duct connection.

A 倍频带声功率级对于选择消声器非常重要，可由下式获得：

$$L_{WAokt} = L_{WA6} + L_{WArel}$$

相对 A 倍频带声功率级 L_{WArel} 在中间频率的值可在下表中由对应的风机得到，该值是在 $0.5 \times V_{max}$ 处测试得到。

The A-weighted octave sound power level is important for the choice of suitable sound attenuators. It is obtained as follows:

$$L_{WAokt} = L_{WA6} + L_{WArel}$$

The relative A-weighted octave sound power level L_{WArel} at octave centre frequency can be taken from the following table. These levels has been established at $0.5 \times V_{max}$.

相对 A 倍频带声功率级

Relative octave sound power level A-weighted

f_M [Hz]	L_{WA}	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
4-pol	L_{WA} [dB(A)] 进风处 Outlet side	0	-16	-14	-8	-5	-6	-7
	L_{W0A} [dB(A)] 出风处 Inlet side	-6	-19	-21	-12	-11	-13	-15
	L_{WA} [dB(A)] 机壳. YGE/YG Casing YGE/YG	-17	-22	-24	-26	-24	-29	-34
	L_{WA} [dB(A)] 机壳. YGSE/YGS Casing YGSE/YGS	-25	-30	-32	-34	-32	-37	-42
6-pol	L_{W0A} [dB(A)] 出风处 Outlet side	0	-13	-13	-7	-6	-5	-7
	L_{WA} [dB(A)] 进风处 Inlet side	-6	-21	-21	-13	-12	-12	-13
	L_{WA} [dB(A)] 机壳. YGE/YG Casing YGE/YG	-17	-26	-26	-21	-24	-26	-31
	L_{WA} [dB(A)] 机壳. YGSE/YGS Casing YGSE/YGS	-25	-34	-34	-29	-32	-34	-39

说明

- 1) 风机配用电动机功率是指在特定工况下，轴功率加上电机容量安全系数而言，并非出风口全开时所需的功率，因此为防止电机因超功率运转而烧毁，严禁风机未加任何外界阻力进行空运转。
- 2) 样本中的风机性能是选用电机额定转速测试的结果，我们亦可通过改变电机的转速达到用户实际的需求。
- 3) 风机在运输、装卸过程中应小心轻放，严禁撞击挤压，严禁堆放于潮湿或有腐蚀性的场合。
- 4) 风机安装前应用手拨动叶轮，检查是否有过紧或碰撞现象，确认没有这些现象时方可进行试运转。
- 5) 风管与风机进风口、出风口之间连接时应尽量采用软连接，接头不得拉得过紧。
- 6) 风机安装后应检查机壳和其他壳体内部，不应有掉入遗留的工具和杂物。
- 7) 风机正式运转前，需检查叶轮的转向是否符合侧板上的转向标记。

Instructions

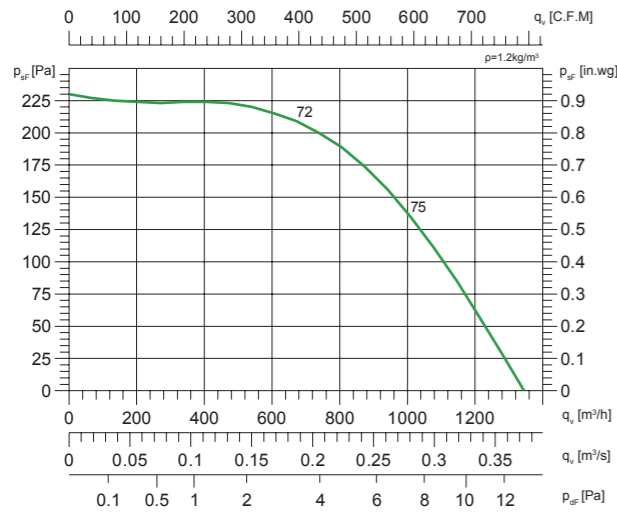
- 1) The motor power is calculated from the Bhp plus the safety factor, so to avoid the motor burn and damage, the fan shall not operate at type A condition. (i.e. free inlet, free outlet)
- 2) The fan performance in the catalog is tested under the rated motor speed, we can meet the actual requirement of the user by changing the motor speed.
- 3) During transportation, loading and unloading, all fans shall be handled carefully to avoid damaging. the fans shall store in a dry, clean and non-toxics area.
- 4) Before commissioning and operating, the impeller should be turned by hand to ensure that it turns freely without colliding with other parts of the fan.
- 5) When the duct is connecting to the inlet and the outlet of the fan, a flexible connector shall be used in between.
- 6) Check and clean the housing of the fan, to ensure than there is no sundry inside the housing.
- 7) Before operating, check the rotational direction of the, to ensure than the rotation direction is same as the label shown on the fan.

YG/YGS

管道风机系列

技术参数

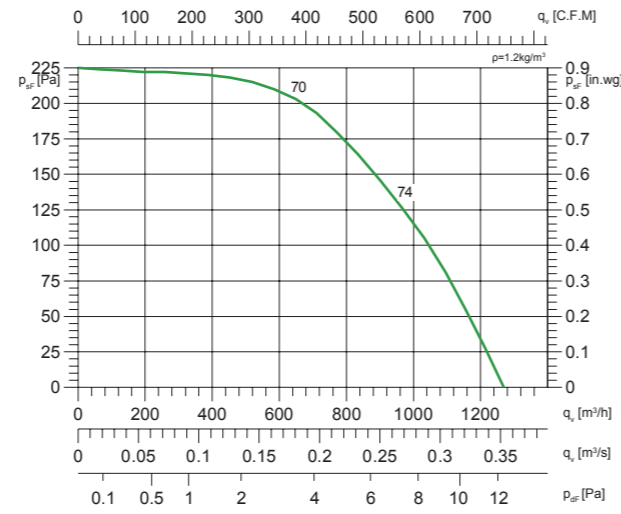
YG/YGS 200-4



Type: YG/YGS 200-4	m: 13 / 20 kg	P_N : 0.33kW-4
	U: 380 v	n: 1270 r/min
	I_N : 0.63 A	IP: IP54

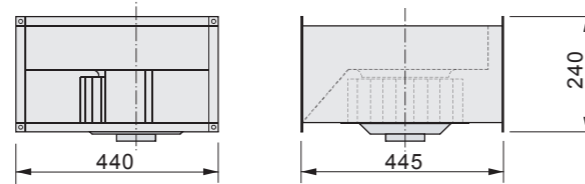
Technical Data

YGE/YGSE 200-4

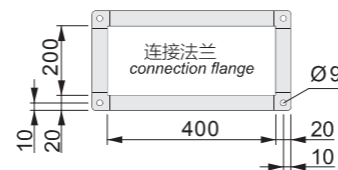
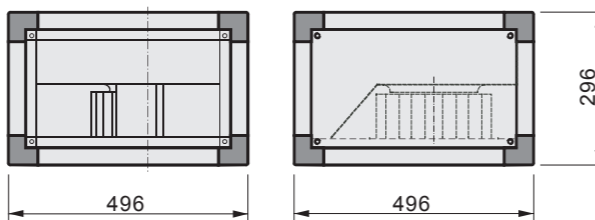


Type: YGE/YGSE 200-4	m: 13 / 20 kg	P_N : 0.33kW-4
	U: 220 v	n: 1280 r/min
	I_N : 1.52 A	IP: IP54

YG/YGE

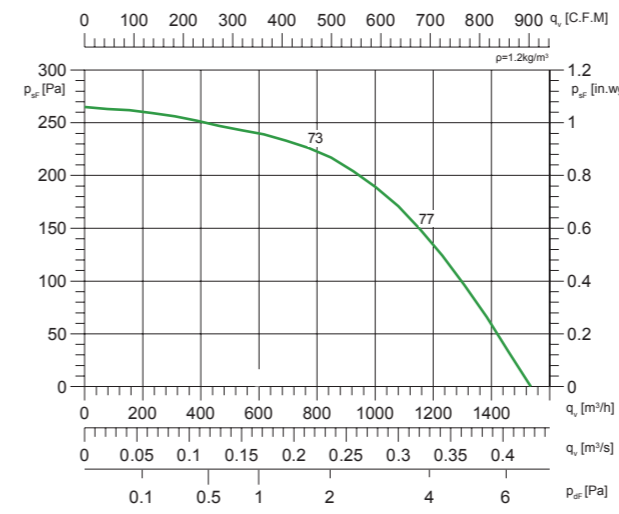


YGS/YGSE



技术参数

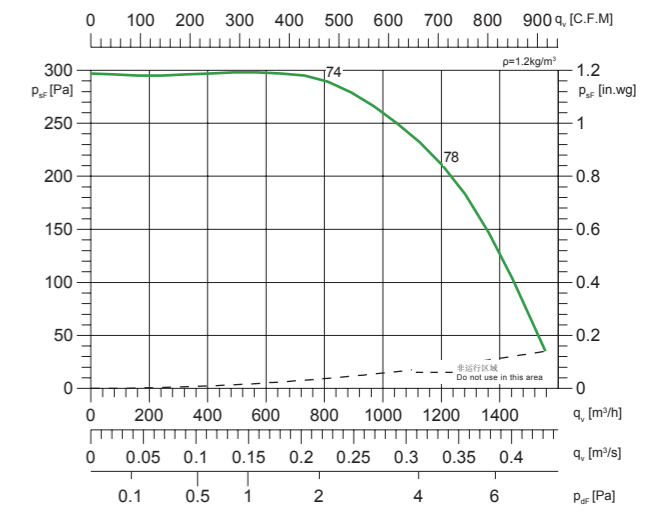
YG/YGS 225-4



Type: YG/YGS 225-4	m: 19 / 25 kg	P_N : 0.49kW-4
	U: 380 v	n: 1300 r/min
	I_N : 0.82 A	IP: IP54

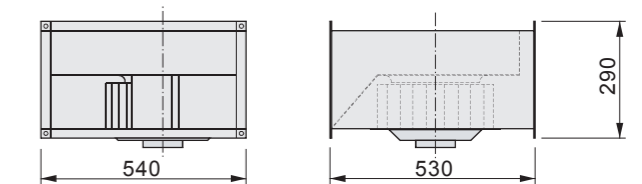
Technical Data

YGE/YGSE 225-4

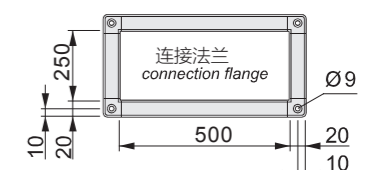
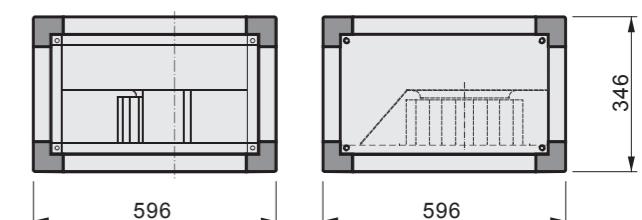


Type: YGE/YGSE 225-4	m: 19 / 25 kg	P_N : 0.51kW-4
	U: 220 v	n: 1320 r/min
	I_N : 2.3 A	IP: IP54

YG/YGE

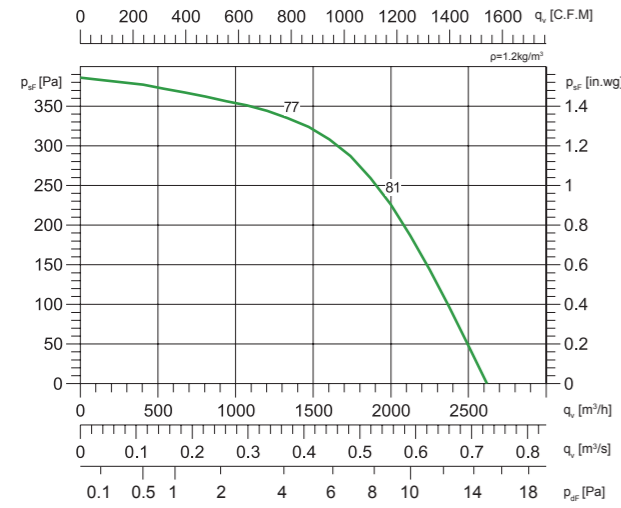


YGS/YGSE



技术参数

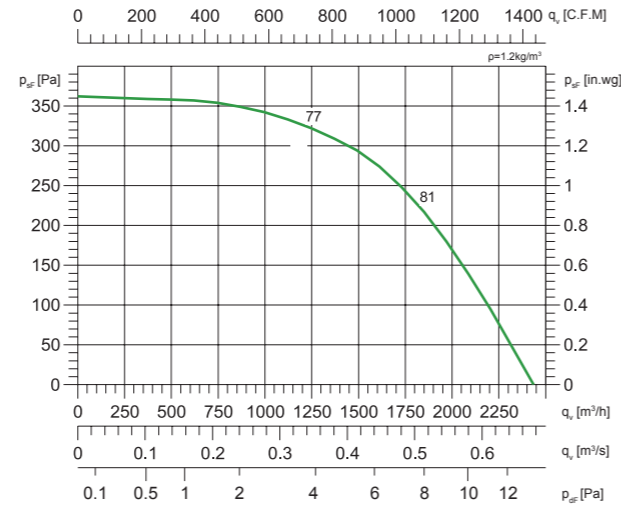
YG/YGS 250-4



Type: YG/YGS 250-4	m: 23 / 30 kg U: 380 v I _N : 1.8 A	P _N : 0.87kW-4 n: 1400 r/min IP: IP54
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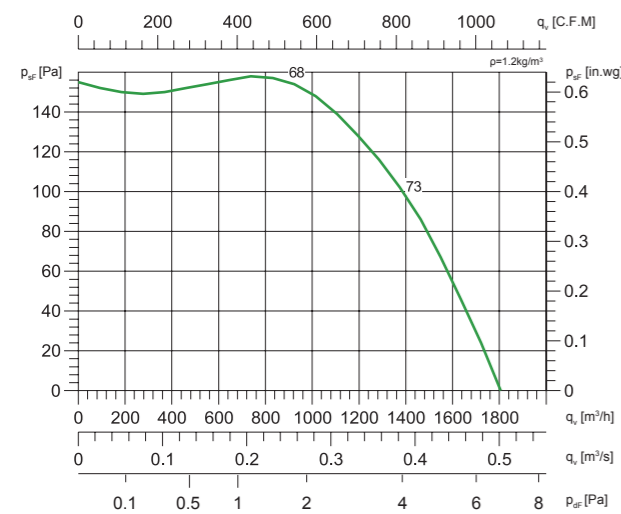
Technical Data

YGE/YGSE 250-4



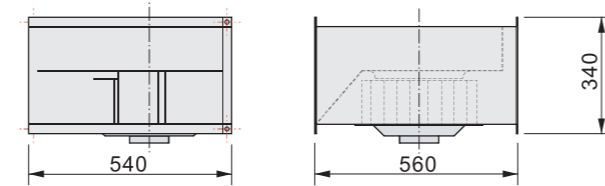
Type: YGE/YGSE 250-4	m: 23 / 30 kg U: 220 v I _N : 4.1 A	P _N : 0.9kW-4 n: 1330 r/min IP: IP54
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YGE/YGSE 250-6

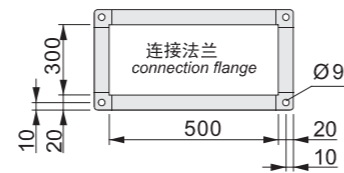
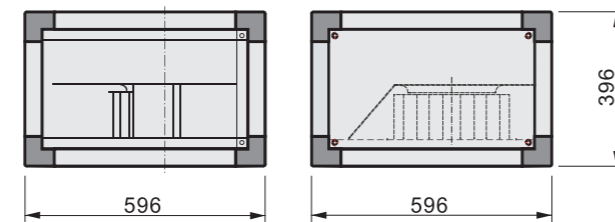


Type: YGE/YGSE 250-6	m: 25 / 45 kg U: 220 v I _N : 1.6 A	P _N : 0.32kW-6 n: 900 r/min IP: IP54
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YG/YGE

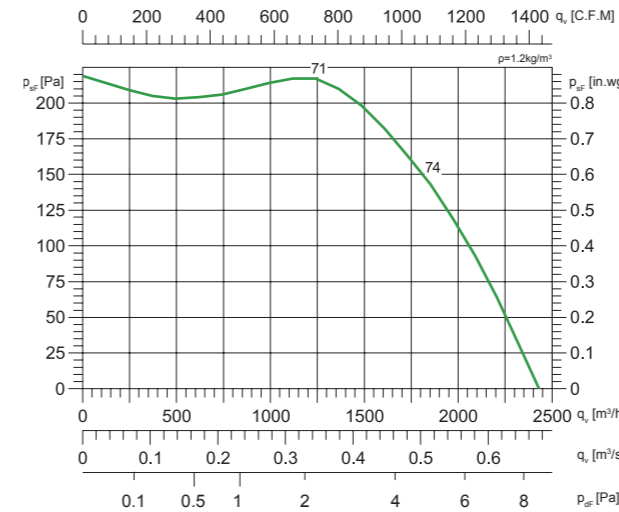


YGS/YGSE



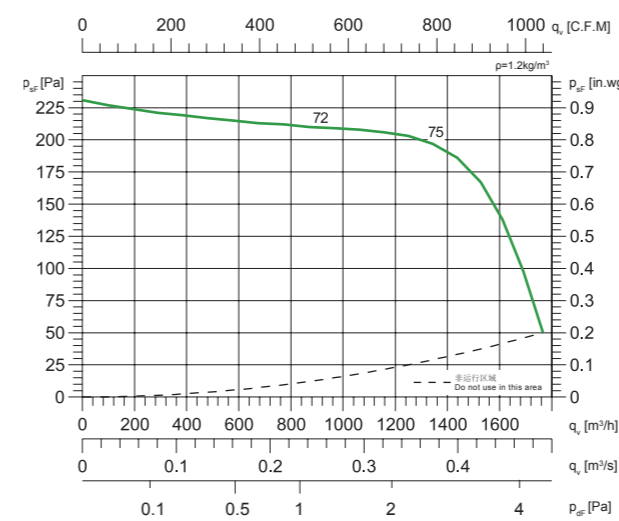
技术参数

YG/YGS 280-6



Type: YG/YGS 280-6	m: 32 / 40 kg U: 380 v I _N : 0.85 A	P _N : 0.45kW-6 n: 900 r/min IP: IP54
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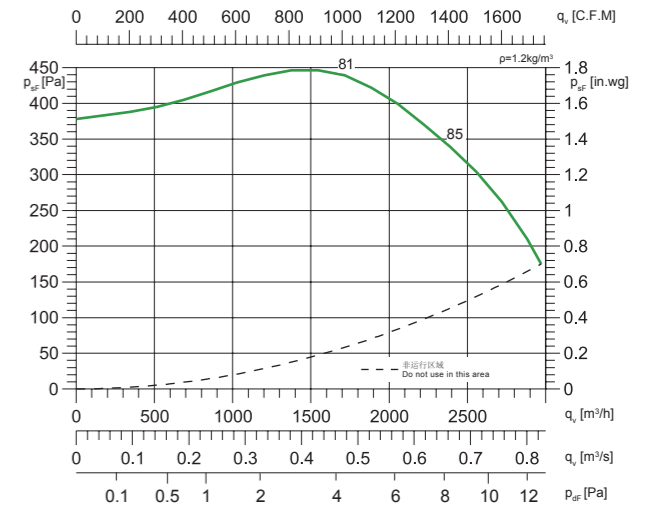
YGE/YGSE 280-6



Type: YGE/YGSE 280-6	m: 35 / 60 kg U: 220 v I _N : 2.2 A	P _N : 0.45kW-6 n: 900 r/min IP: IP54
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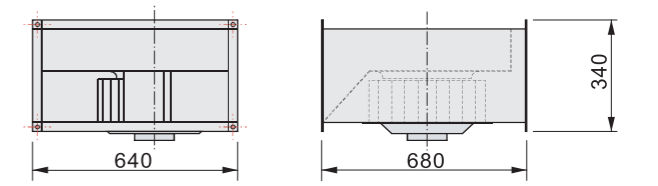
Technical Data

YGE/YGSE 280-4

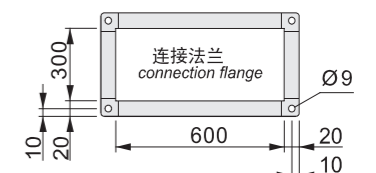
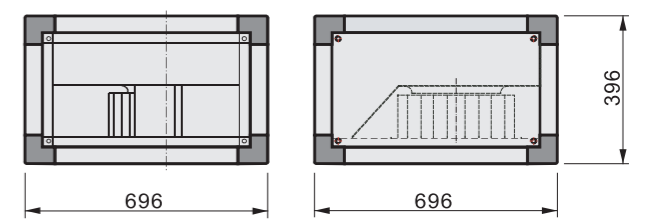


Type: YGE/YGSE 280-4	m: 32 / 40 kg U: 220 v I _N : 7.3 A	P _N : 1.6kW-4 n: 1360 r/min IP: IP54
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YG/YGE



YGS/YGSE



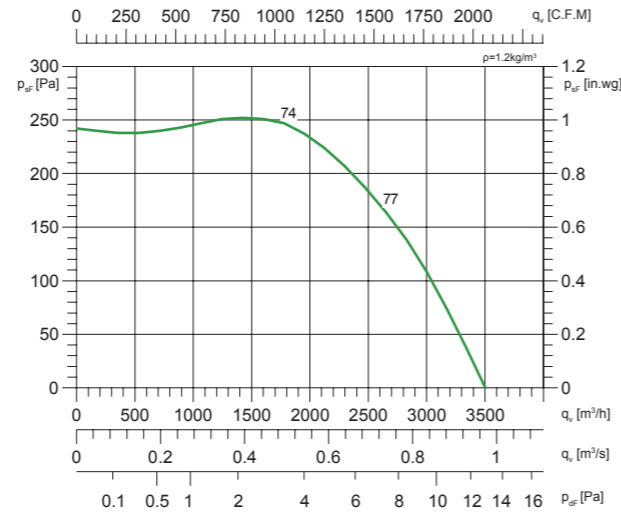
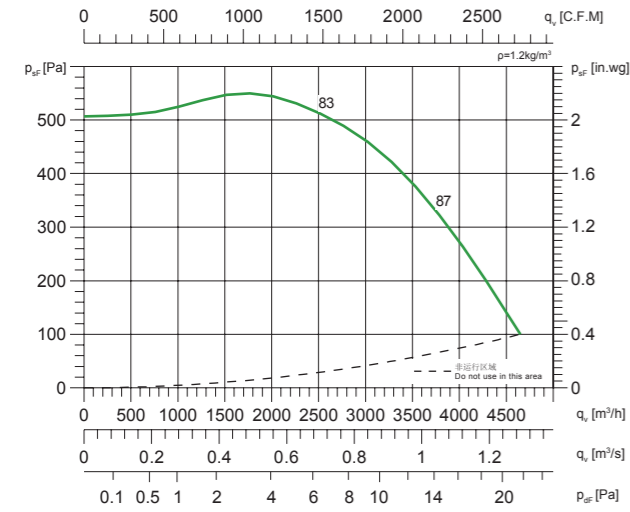
管道风机系列

技术参数

Technical Data

YGE/YGSE 315-4

YG/YGS 315-6

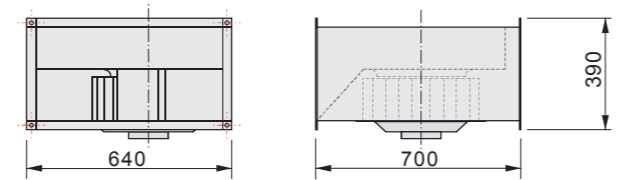
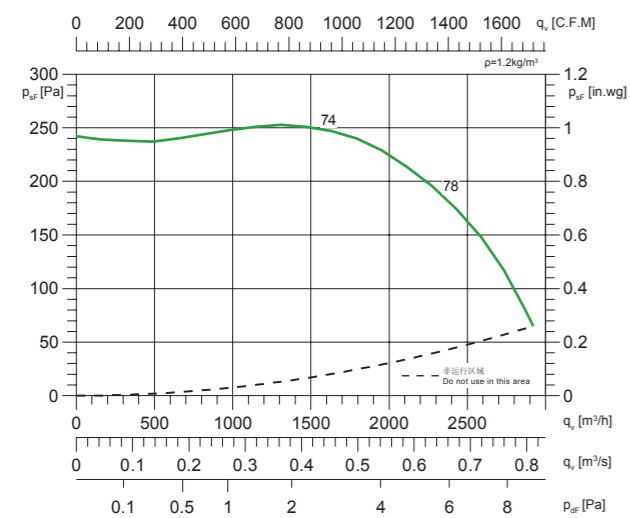


Type: YGE/YGSE 315-4	m: 40 / 50 kg	P _N : 2.3kW-4
	U: 220 v	n: 1360 r/min
	I _N : 10 A	IP: IP54

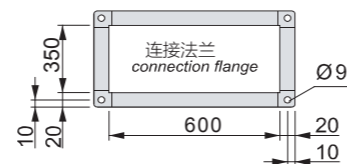
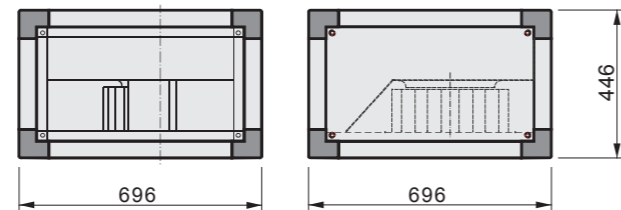
Type: YG/YGS 315-6	m: 40 / 50 kg	P _N : 0.78kW-6
	U: 380 v	n: 940 r/min
	I _N : 1.50 A	IP: IP54

YGE/YGSE 315-6

YG/YGE



YGS/YGSE



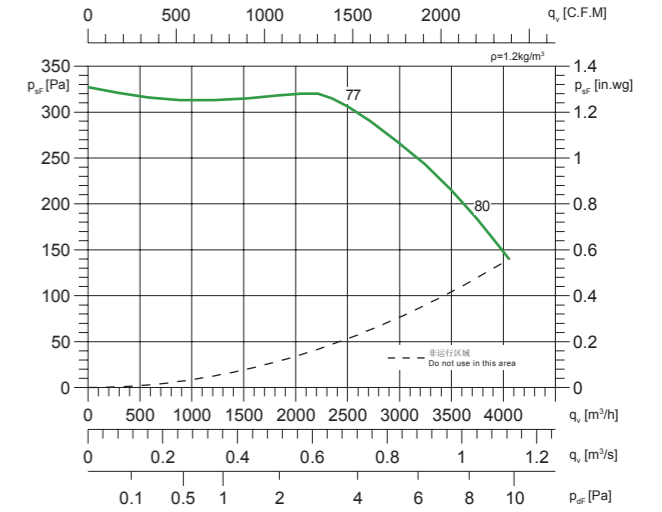
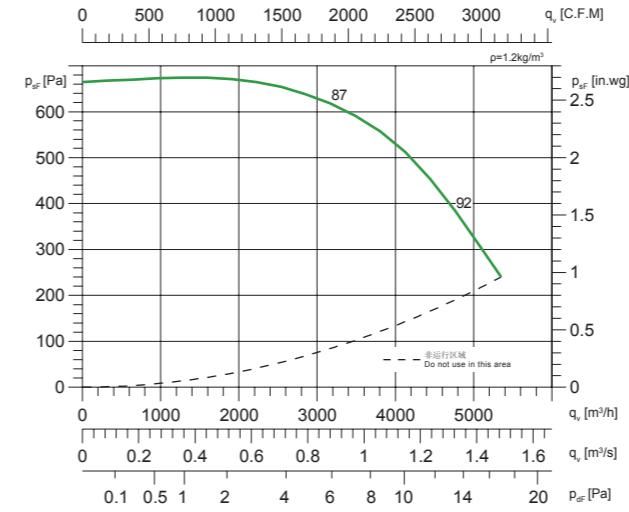
Type: YGE/YGSE 315-6	m: 45 / 70 kg	P _N : 0.72kW-6
	U: 220 v	n: 870 r/min
	I _N : 3.60 A	IP: IP54

技术参数

Technical Data

YG/YGS 355-4

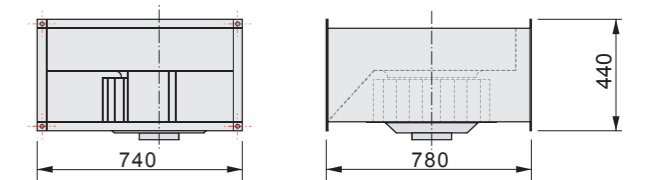
YG/YGS 355-6



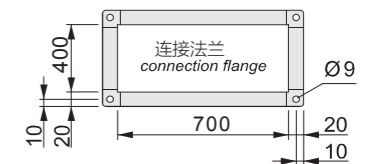
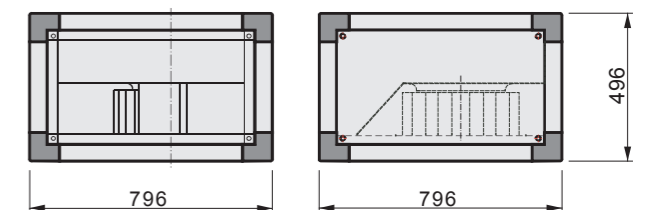
Type: YG/YGS 355-4	m: 50 / 64 kg	P _N : 3.5kW-4
	U: 380 v	n: 1340 r/min
	I _N : 5.9 A	IP: IP54

Type: YG/YGS 355-6	m: 50 / 64 kg	P _N : 1.15kW-6
	U: 380 v	n: 900 r/min
	I _N : 2.3 A	IP: IP54

YG/YGE



YGS/YGSE

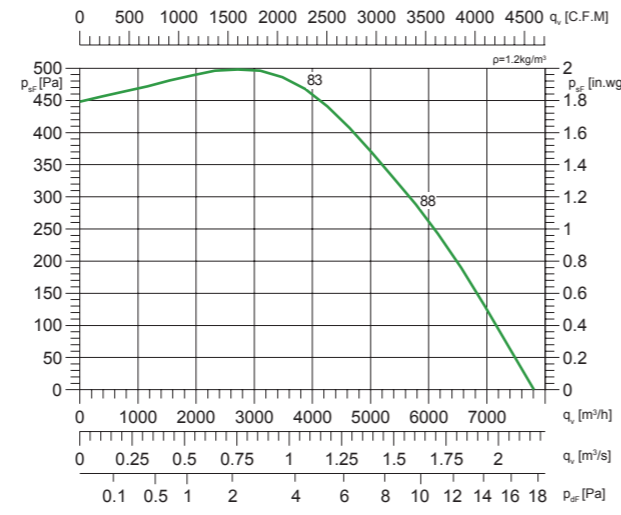
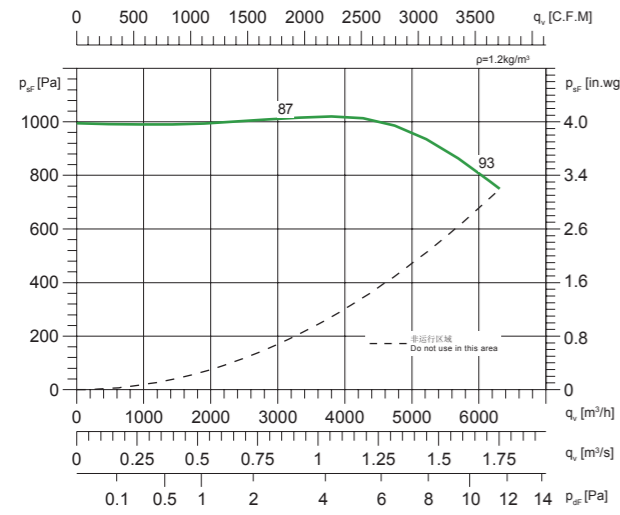


技术参数

Technical Data

YG/YGS 400-4

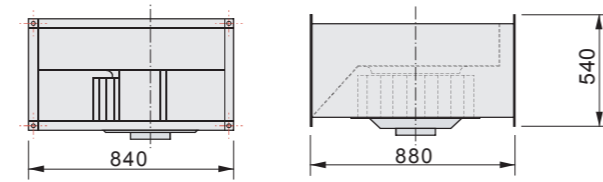
YG/YGS 400-6



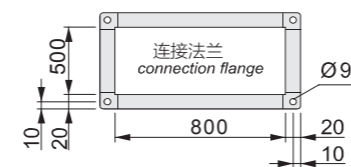
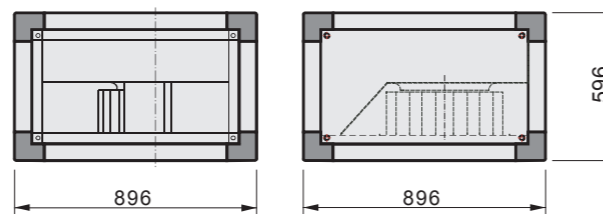
Type: YG/YGS 400-4	m: 65 / 85 kg	P_N : 4.8kW-4P
	U: 380 v	n: 1400 r/min
	I_N : 8.0 A	IP: IP54

Type: YG/YGS 400-6	m: 65 / 85 kg	P_N : 2.8kW-6P
	U: 380 v	n: 870 r/min
	I_N : 4.85 A	IP: IP54

YG/YGE



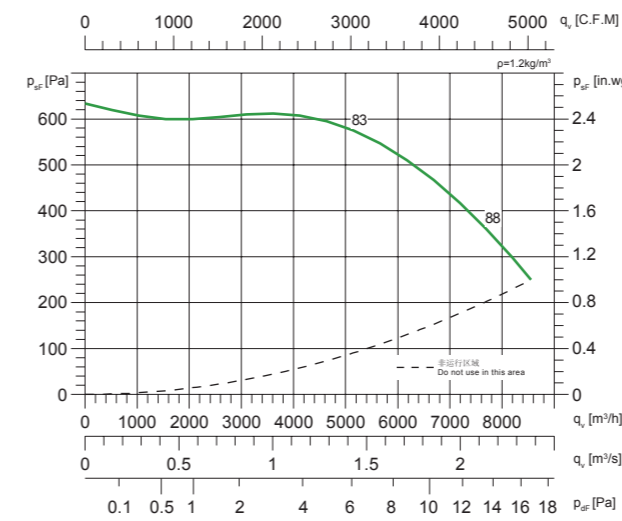
YGS/YGSE



技术参数

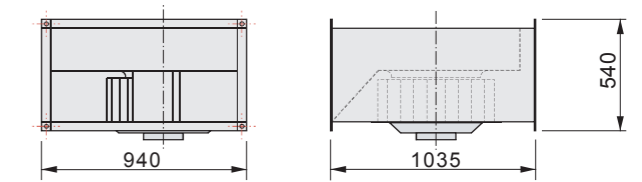
Technical Data

YG/YGS 450-6

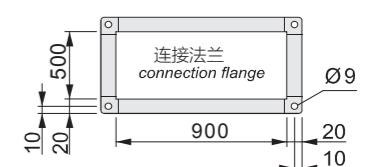
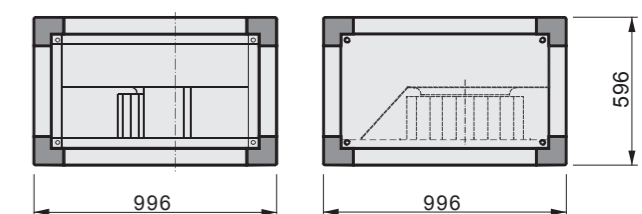


Type: YG/YGS 450-6	m: 83 / 110 kg	P_N : 3.5kW-6P
	U: 380 v	n: 930 r/min
	I_N : 6.0 A	IP: IP54

YG/YGE



YGS/YGSE

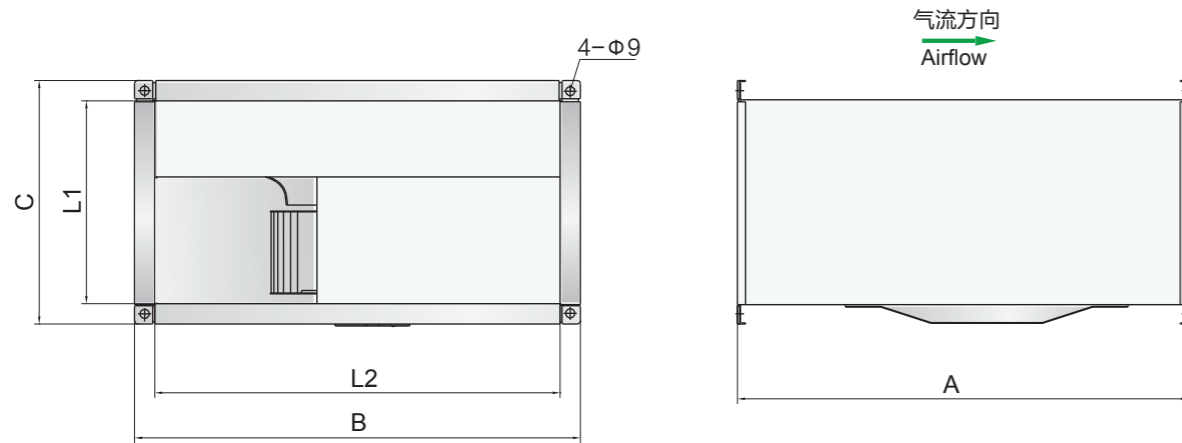


YG/YGS

管道风机系列

YG系列管道风机外形图

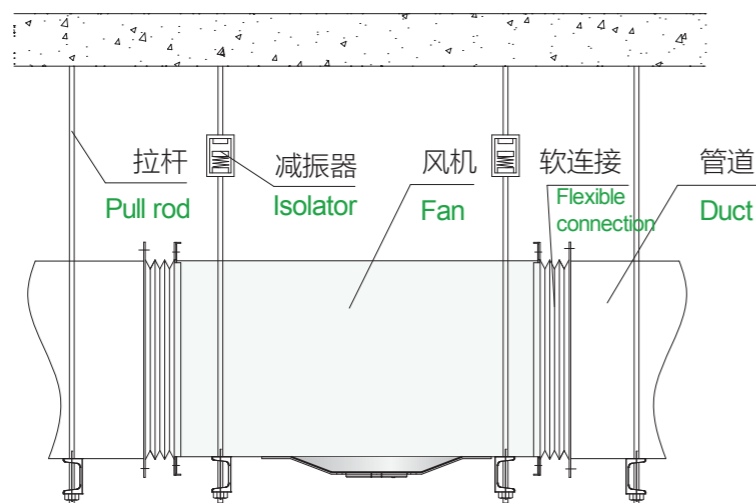
YG Series Fan Overall Dimension



型号	尺寸	A	B	C	L1	L2
YG200		445	440	240	200	400
YG225		530	540	290	250	500
YG250		560	540	340	300	500
YG280		680	640	340	300	600
YG315		700	640	390	350	600
YG355		780	740	440	400	700
YG400		880	840	540	500	800
YG450		1035	940	540	500	900

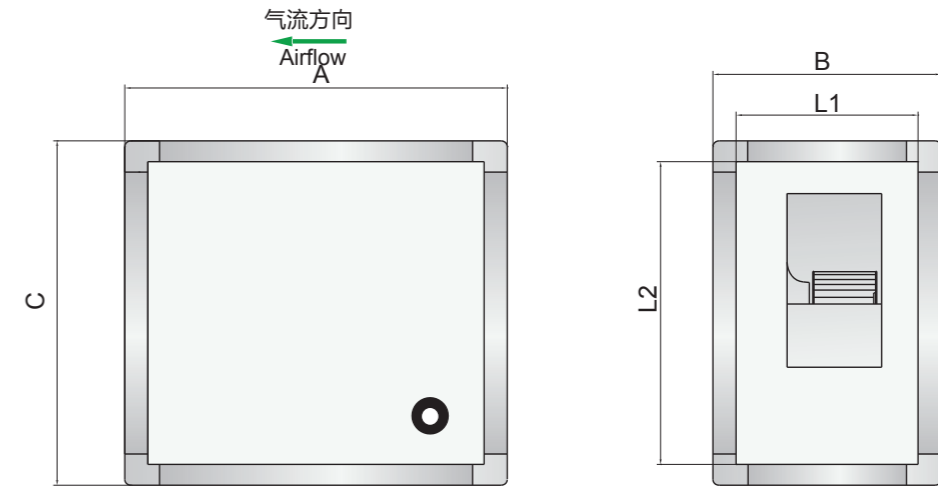
YG系列管道风机吊装示意图

YG Ceiling Installation Schematic Diagram



YGS系列管道风机外形图

YGS Series Fan Overall Dimension



型号	尺寸	A	B	C	L1	L2
YGS200		496	296	496	236	436
YGS225		596	346	596	286	536
YGS250		596	396	596	336	536
YGS280		696	396	696	336	636
YGS315		696	446	696	386	636
YGS355		796	496	796	436	736
YGS400		896	596	896	536	836
YGS450		996	596	996	536	936

YGS系列管道风机吊装示意图

YGS Ceiling Installation Schematic Diagram

