

管道风机 Duct Fans



Rosenberg Ventilations & Energy
Systems (Shanghai) Co., Ltd.

德国洛森集团
洛森通风设备(上海)有限公司

地址: 上海市松江工业区宝益路28号

邮编: 201613

电话: +86 21 67741436

传真: +86 21 67741435

www.rosenbergchina.com

Info@rosenbergchina.com

担保的宗旨

客户负责风机选型、风机的安装和操作。根据有效条款 VII 段和购买条件，提供产品担保，不包括其他要求。

担保不适用于下列情况：

购买者或第三方的不恰当使用，装配或安装错误，正常磨损，违规操作，不正确的维护保养，不适宜的通风介质，错误安装，不适宜的底座，化学及电气的影响超出厂商责任范围。

如果在厂商交货时，产品存在质量问题，客户有权要求更换风机或其他部件。厂商也可以在合理的时间内修好产品，一有问题顾客应尽早通知厂商。

在保修期的维修与更换，可访问我们的网站或直接联系我们的子公司。

机械安全的信息

洛森伯格风机是符合EC评议会指令（机械，低电压，电磁兼容性和在ATEX指令下的潜在危险区），这种产品标有CE标签和一个制造商的合格声明。

风机的潜在危险评估和必要的技术安全措施是按照VDMA标准，图表编号24167：风机，安全性要求和相关的欧洲标准。

为满足欧共体的方针要求，在安装过程中使用的操作手册包含了其他的安全方面的考虑。

版本: 11/2009

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Warranty Guidelines

The customer is responsible for the project design, selection and operation of the fans. The supplier gives warranty for faulty products, excluding further claims, in accordance with paragraph VII of the valid terms and conditions of business.

Warranty will not given in the following instances:

Unfitted or inappropriate usage, incorrect mounting or faulty installation by the purchaser or a third party, normal wear and tear, incorrect or negligent handling, improper maintenance, unsuitable operating material, faulty installation, unsuitable ground and chemical, electrochemical or electrical influence - as long as they are not the responsibility of the supplier.

If the goods delivered from the manufacturer are faulty, the customer has the right to receive a replacement or replacement of the faulty parts up to the maximum value of the purchase price. The manufacturer also has the right to get the product repaired within a reasonable time period. The manufacturer must be informed immediately in the case of damage.

The obligation to replace additional faults is herewith excluded. Our general terms of business are the basis for all further agreements for example: time periods to repair or replace. The general terms of business are available on our website www.rosenberg.eu or direct from one of our sales representatives.

Information on Machine Safety

Rosenberg fans are in conformity with EC council directives (machinery, low voltage, electromagnetic compatibility and in potential hazardous areas with the ATEX directive). The products are marked with a CE label and delivered with a manufacturers declaration respectively a declaration of conformity.

The assessment of the potential dangers of the fan and the necessary technical safety measures are in accordance with VDMA standard, sheet number 24167: fans; Safety requirements and relevant harmonized European standards.

The operation manual contains additional safety precautions to be considered during installation to fulfil the requirements of the guidelines of the European Community.

Version: 11/2009

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塑料或钢制管道风机

Tube fans made of plastic or steel



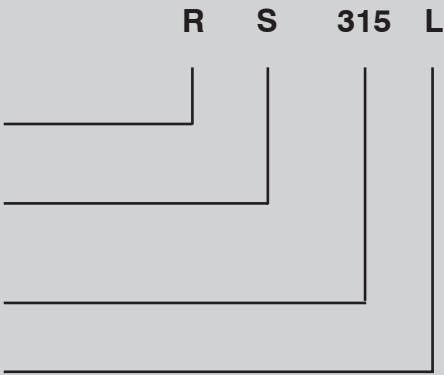
型号代码 / *Type Code*

管道风机 / *tube fan*

8角形塑料壳 /
plastic casing 8-angular

管道直径 / *duct diameter*

大型电机 / *larger motor*



钢管道风机的特点和结构:

尺寸为R100-R400L的外壳由镀锌钢板制作而成。风机由外转子电机驱动, 保护等级为IP44/54, 并安装在离心叶轮中。

塑料管道风机的特点和结构

RS100L-RS315L风机配备有外形美观、耐冲击以及不易燃的塑料外壳, 该外壳中集成有IP44接线盒和导流叶片。达到RS315的叶轮应采用塑料材料。而RS315L叶轮应有镀锌钢板制作而成。

电气连接: 钢管/塑料管道风机

电气结构应满足VDE0530的要求, 绝缘等级为F, 此外并配备有防潮防浸保护装置和热触点, 它们都被串联连接到电机绕组上。从355尺寸处, 热触点被引出来。

安装管道风机

刚性可折叠螺旋焊管道(螺旋式), 可采用具有标准化直径的柔性铝和塑料管。

管道风机的安装

这些风机性能曲线中的数值都是在安装位置B处(安装在压力侧并在吸气侧被打开)被测量出来的。曲线可显示总压升 Δp_t , 来作为空气流性能。而动态压力 Δp_{d2} 指的是在风机出风口侧法兰横截面处的压力。

噪音级

性能曲线图中的边界值表示在管道系统出风口侧处的“A”加权LWA6声功率级。而八度中频的有关八度声功率级LWArel见每个风机类型页面上的表格。

Features and Construction: Steel tube fans

The casings of sizes R100 - R400L are manufactured of galvanized sheet steel. The fans are driven by an external rotor motor, protection class IP44/54, fitted in the centrifugal impeller.

Features and Construction: Plastic tube fans

The sizes RS100L - RS315L are equipped with an attractive, impact strong and hardly inflammable plastic casing with integrated IP44 terminal box and guide vane. The impeller up to RS315 is made of plastic. The impeller of the RS315L is made of galvanized sheet steel.

Electrical Connection: Steel- / Plastic tube fans

Electrical construction is according to VDE0530, insulation class F with additional moisture protection impregnation and thermal contacts which are connected in series with the windings of the motor. From size 355 the thermal contacts are leaded out.

Installation tube fans

Rigid folded spiral-seam ducts (Spiro), flexible aluminium or plastic ducts with standardized diameter can be used.

Air performance curves

The performance curves for these fan types have been measured in mounting position B (installed on the pressure side and open on the suction side) and show the total pressure increase Δp_t as a function of the air flow. The dynamic pressure Δp_{d2} refers to the flange cross section at the outlet side of the fan.

Noise levels

The bordered values printed in the performance curve diagrams show the „A“ weighted L_{WA6} sound power level at the outlet side in duct systems. The relative octave sound power level L_{WArel} at octave medium frequency you can find on the table on each fan type page.

管道风机 / Tube Fans

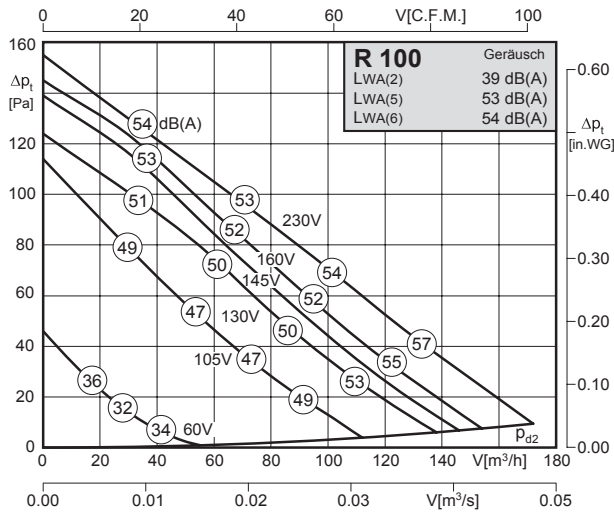
尺寸 / Size: 100



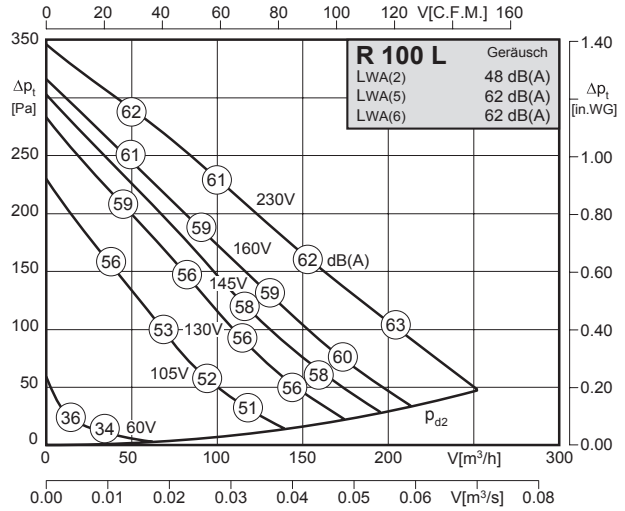
- 外壳采用镀锌钢板
- 易安装在任何位置
- 简单的接线盒电气连接
- 绝缘等级为F级
- 电机热触点保护
- 通过自耦变压器或电子控制实现100%的无级调速

- casing made of galvanized sheet steel
- easy installation in any position
- easy electrical connection via terminal box
- insulation class F
- motor protection by thermal contacts
- speed is 100% infinitely variable using auto transformers or electronic control

技术参数 / Technical Data:



型号 / Type : R 100	货号 / Art.-No. : F00-10082
U	230V (50Hz)
P ₁	0.028 kW
I _N	0.12 A
n	2650 min ⁻¹
C _{400V}	1 μF
t _R	70 °C



型号 / Type : R 100 L	货号 / Art.-No. : F00-10087
U	230V (50Hz)
P ₁	0.065 kW
I _N	0.30 A
n	2470 min ⁻¹
C _{400V}	2 μF
t _R	70 °C

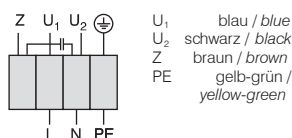
声级 / Sound levels:

在 V = 0.5*Vmax 下的 LWArel A 加权值 LWArel A-weighted at V=0.5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	30	33	32	32	32	23	18
LWA5 [dB(A)] 进风口侧 / inlet side	39	47	48	47	44	35	26
LWA6 [dB(A)] 出风口侧 / outlet side	39	46	49	49	46	38	28

在 V = 0.5*Vmax 下的 LWArel A 加权值 LWArel A-weighted at V=0.5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	36	42	41	42	41	33	26
LWA5 [dB(A)] 进风口侧 / inlet side	45	53	56	57	54	51	41
LWA6 [dB(A)] 出风口侧 / outlet side	44	54	56	57	55	50	40

接线图 / Wiring diagram:

01.009

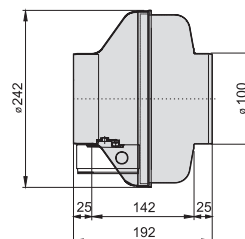


配件 / Accessories:

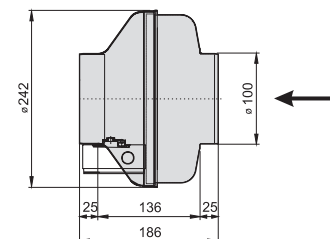


尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)
R 100



R 100 L

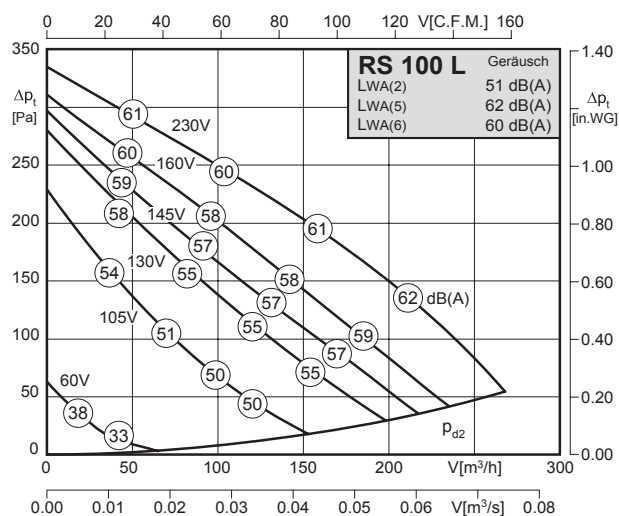




- 外壳采用塑料材料
- 较低的噪音级
- 完全耐腐蚀性
- 简单的接线盒电气连接
- 绝缘等级为F级
- 电机热触点保护
- 通过自耦变压器或电子控制实现100%无级调速

- casing made of plastic
- lower noise level
- completely corrosion resistant
- easy electrical connection via terminal box
- insulation class F
- motor protection by thermal contacts
- speed is 100% infinitely variable using auto transformers or electronic control

技术参数 / Technical Data:



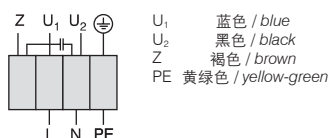
型号 / Type : RS 100 L	货号 / Art.-No. : F00-10060
U	230V (50Hz)
P ₁	0.065 kW
I _N	0.3 A
n	2480 min ⁻¹
C _{400V}	2 μF
t _R	70 °C

声级 / Sound levels:

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0,5*V _{max}	f _M [Hz]						
	125	250	500	1K	2K	4K	8K
LWA ₂ [dB(A)] 外壳 / casing	33	42	44	47	44	38	27
LWA ₅ [dB(A)] 进风口侧 / inlet side	43	54	57	56	54	51	41
LWA ₆ [dB(A)] 出风口侧 / outlet side	42	53	54	54	53	49	40

接线图 / Wiring diagram:

01.009

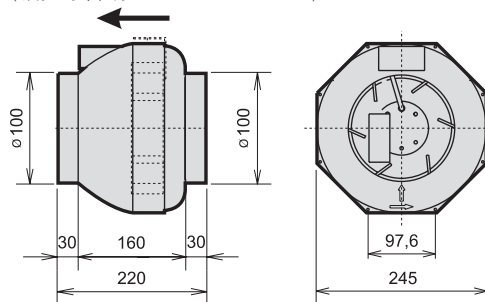


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)



管道风机 / Tube Fans

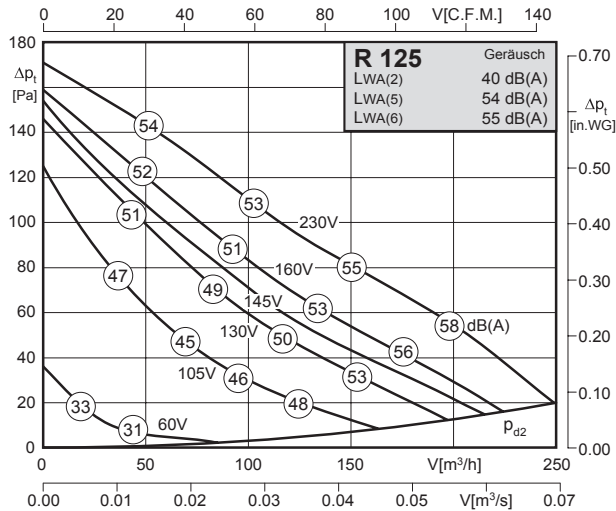
尺寸 / Size: 125



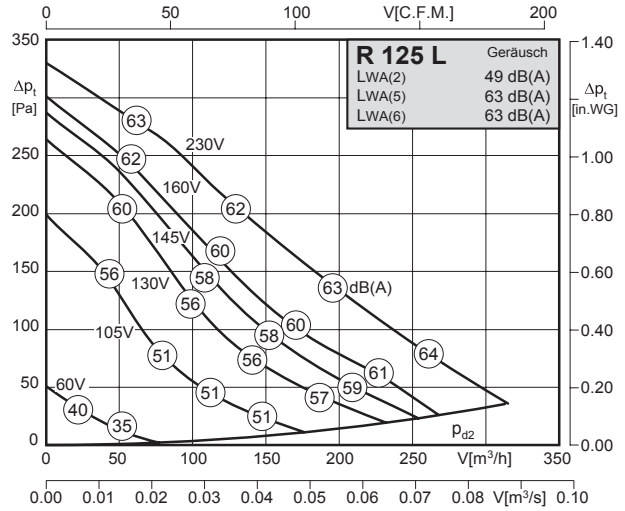
- 外壳采用镀锌钢板
- 易安装在任何位置
- 简单的接线盒电气连接
- 绝缘等级为F级
- 电机热触点保护
- 通过自耦变压器或电子控制实现100%的无级调速

- casing made of galvanized sheet steel
- easy installation in any position
- easy electrical connection via terminal box
- insulation class F
- motor protection by thermal contacts
- speed is 100% infinitely variable using auto transformers or electronic control

技术参数 / Technical Data:



型号 / Type : R 125	货号 / Art.-No. : F00-12582
U 230V (50Hz)	Δpfa min -- Pa
P1 0.028 kW	ΔI -- %
IN 0.12 A	IA / IN 1.7
n 2620 min-1	IP44
C400V 1 μF	01.009
tR 70 °C	2,1 kg



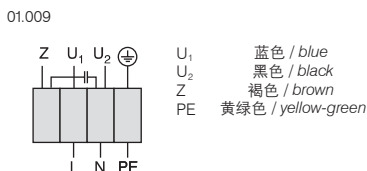
型号 / Type : R 125 L	货号 / Art.-No. : F00-12587
U 230V (50Hz)	Δpfa min -- Pa
P1 0.065 kW	ΔI -- %
IN 0.30 A	IA / IN 1.5
n 2480 min-1	IP44
C400V 2 μF	01.009
tR 70 °C	2,6 kg

声级 / Sound levels:

在 V = 0.5*Vmax 下的 LWArel A 加权值 LWArel A-weighted at V=0.5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	31	34	33	32	32	23	18
LWA5 [dB(A)] 进风口侧 / inlet side	40	48	49	48	45	36	27
LWA6 [dB(A)] 出风口侧 / outlet side	40	47	50	50	47	39	29

在 V = 0.5*Vmax 下的 LWArel A 加权值 LWArel A-weighted at V=0.5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	36	42	42	43	43	36	28
LWA5 [dB(A)] 进风口侧 / inlet side	48	53	56	59	56	52	43
LWA6 [dB(A)] 出风口侧 / outlet side	47	55	56	58	56	53	42

接线图 / Wiring diagram:



配件 / Accessories:

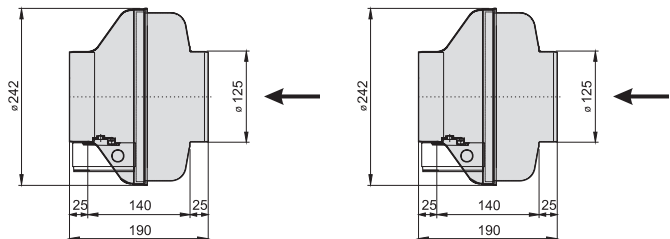


尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)

R 125

R 125 L

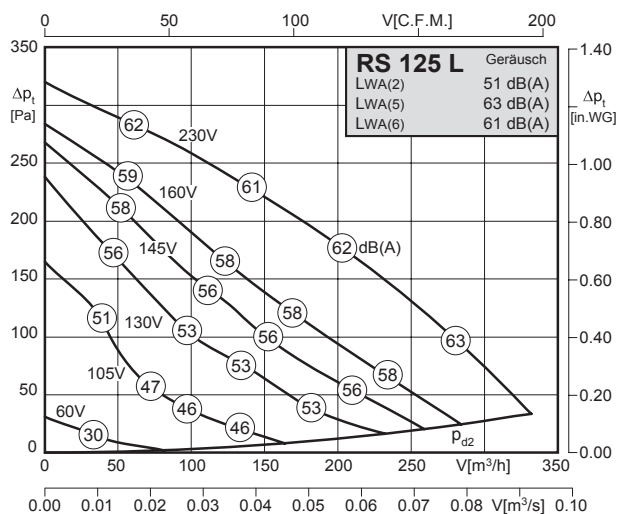




- 外壳采用塑料材料
- 较低的噪音级
- 完全耐腐蚀性
- 简单的接线盒电气连接
- 绝缘等级为F级
- 电机热触点保护
- 通过自耦变压器或电子控制实现100%无级调速

- casing made of plastic
- lower noise level
- completely corrosion resistant
- easy electrical connection via terminal box
- insulation class F
- motor protection by thermal contacts
- speed is 100% infinitely variable using auto transformers or electronic control

技术参数 / Technical Data:



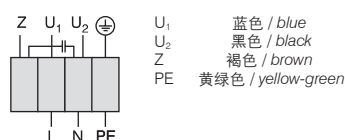
型号 / Type : RS 125 L	货号 / Art.-No. : F00-12550
U	230V (50Hz)
P ₁	0.065 kW
I _N	0.30 A
n	2415 min ⁻¹
C _{400V}	2 μF
t _R	70 °C
	Δp _{fa min} -- Pa
	ΔI -- %
	I _A / I _N 1.5
	IP44
	01.009
	2,4 kg

声级 / Sound levels:

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0,5*V _{max}	f _M [Hz]						
	125	250	500	1K	2K	4K	8K
LWA ₂ [dB(A)] 外壳 / casing	33	42	44	47	44	38	27
LWA ₅ [dB(A)] 进风口侧 / inlet side	43	55	58	57	56	51	41
LWA ₆ [dB(A)] 出风口侧 / outlet side	42	53	55	56	54	49	40

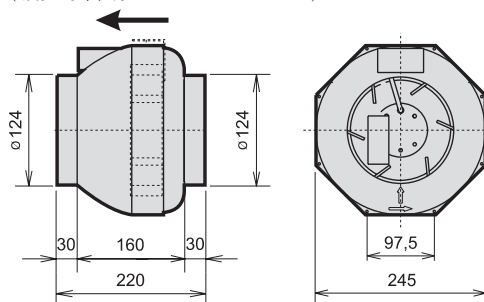
接线图 / Wiring diagram:

01.009



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)



配件 / Accessories:



管道风机 / Tube Fans

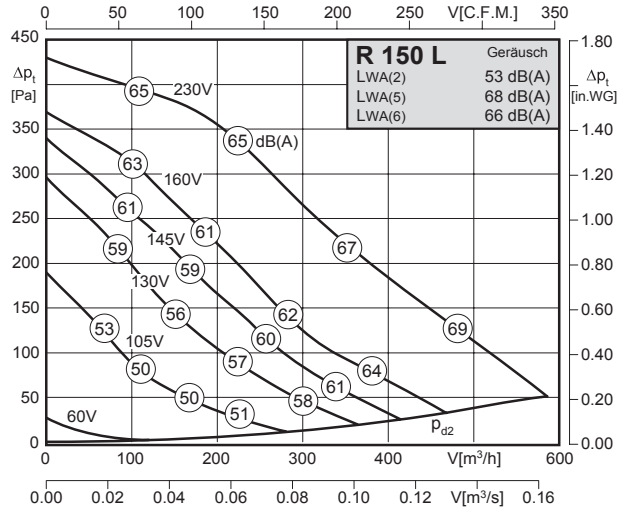
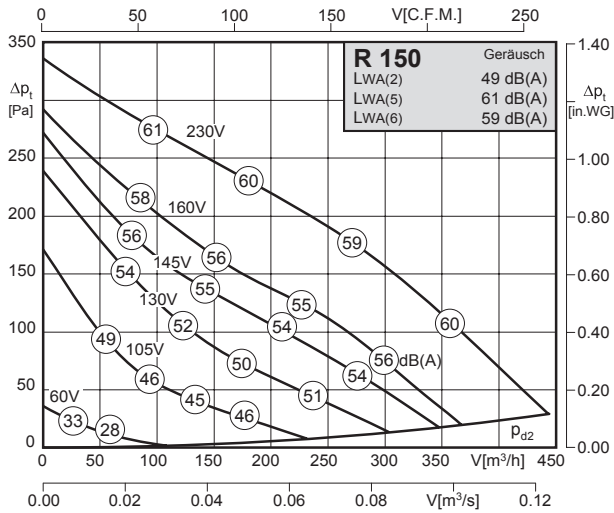
尺寸 / Size: 150



- 外壳采用镀锌钢板
- 易安装在任何位置
- 简单的接线盒电气连接
- 绝缘等级为F级
- 电机热触点保护
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- motor protection by thermal contacts
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技术参数 / Technical Data:



型号 / Type : R 150	货号 / Art.-No. : F00-15082
U	230V (50Hz)
P ₁	0.07 kW
I _N	0.3 A
n	2420 min ⁻¹
C _{400V}	2 μF
t _R	70 °C

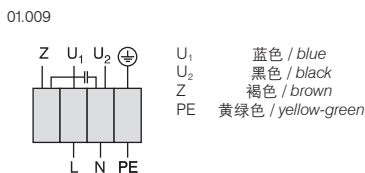
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U	230V (50Hz)
P ₁	0.11 kW
I _N	0.47 A
n	2520 min ⁻¹
C _{400V}	3 μF
t _R	60 °C

声级 / Sound levels:

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	f [Hz]						
	125	250	500	1K	2K	4K	8K
LWA ₂ [dB(A)] 外壳 / casing	34	40	44	43	43	33	26
LWA ₅ [dB(A)] 进风口侧 / inlet side	42	53	55	55	54	51	44
LWA ₆ [dB(A)] 出风口侧 / outlet side	36	49	50	53	55	50	40

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	f [Hz]						
	125	250	500	1K	2K	4K	8K
LWA ₂ [dB(A)] 外壳 / casing	45	47	47	46	43	39	30
LWA ₅ [dB(A)] 进风口侧 / inlet side	51	59	63	62	62	54	46
LWA ₆ [dB(A)] 出风口侧 / outlet side	51	59	59	61	59	53	44

接线图 / Wiring diagram:



配件 / Accessories:

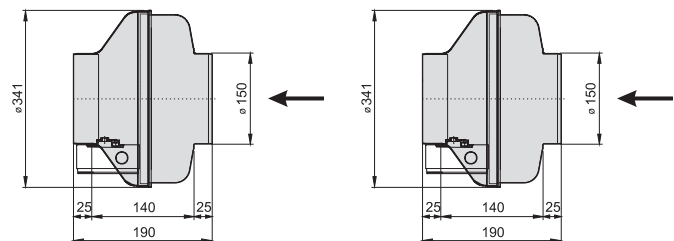


尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)

R 150

R 150 L

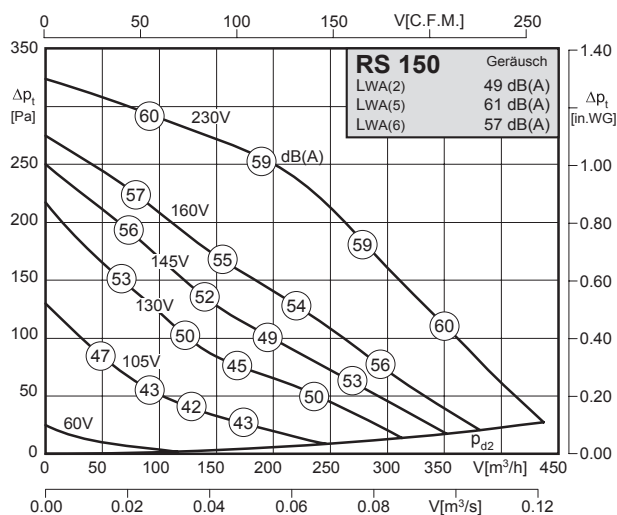




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- 较低的噪音级
- 完全耐腐蚀性
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技术参数 / Technical Data:



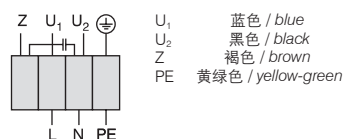
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U	230V (50Hz)	Δp _{ta min}	-- Pa
P ₁	0.07 kW	ΔI	-- %
I _N	0.30 A	I _A / I _N	1.5
n	2400 min ⁻¹		IP44
C _{400V}	2 μF		01.009
t _R	70 °C		3 kg

声级 / Sound levels:

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0,5*V _{max}	f [Hz]						
	125	250	500	1K	2K	4K	8K
LWA ₂ [dB(A)] 外壳 / casing	33	40	43	43	44	32	23
LWA ₅ [dB(A)] 进风口侧 / inlet side	40	54	55	55	54	50	41
LWA ₆ [dB(A)] 出风口侧 / outlet side	37	49	47	51	52	49	39

接线图 / Wiring diagram:

01.009

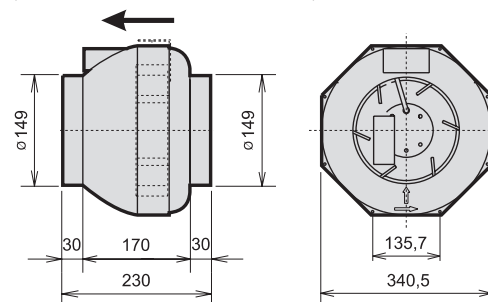


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)



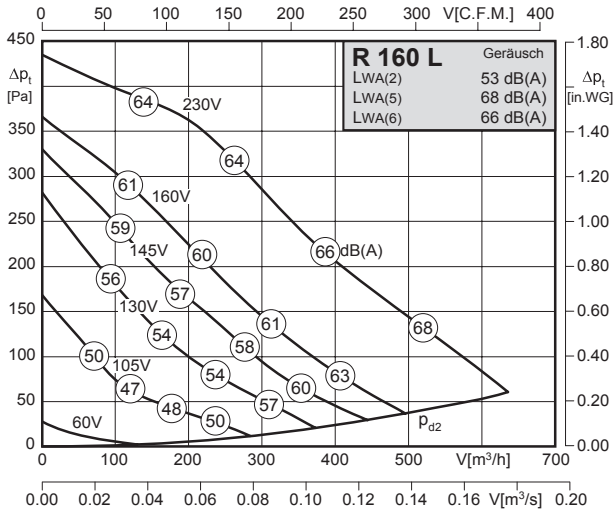
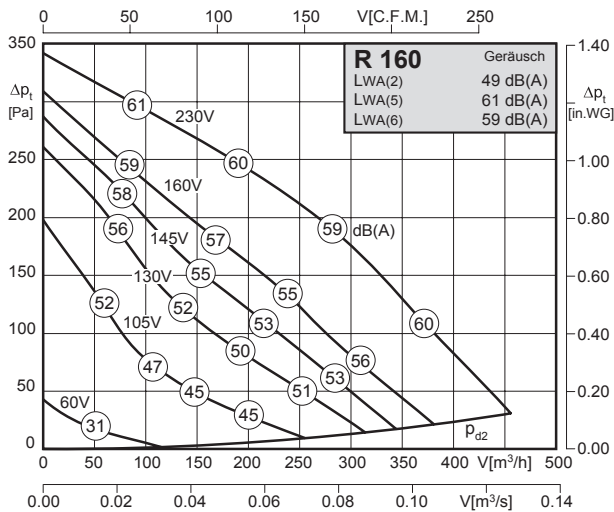
管道风机 / Tube Fans
尺寸 / Size: 160



- 外壳采用镀锌钢板
- 易安装在任何位置
- 简单的接线盒电气连接
- 绝缘等级为F级
- 电机热触点保护
- 通过自耦变压器或电子控制实现100%的无级调速

- casing made of galvanized sheet steel
- easy installation in any position
- easy electrical connection via terminal box
- insulation class F
- motor protection by thermal contacts
- speed is 100% infinitely variable using auto transformers or electronic control

技术参数 / Technical Data:



型号 / Type : R 160		货号 / Art.-No. : F00-16082	
U	230V (50Hz)	$\Delta p_{fa \min}$	-- Pa
P ₁	0.07 kW	ΔI	-- %
I _N	0.3 A	I _A / I _N	1.5
n	2380 min ⁻¹		IP44
C _{400V}	2 μ F		01.009
t _R	70 °C		3,4 kg

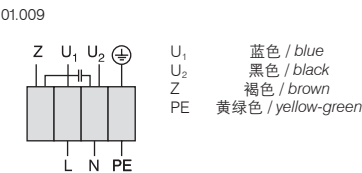
型号 / Type : R 160 L		货号 / Art.-No. : F00-16087	
U	230V (50Hz)	$\Delta p_{fa \min}$	-- Pa
P ₁	0.11 kW	ΔI	-- %
I _N	0.47 A	I _A / I _N	1.5
n	2500 min ⁻¹		IP44
C _{400V}	3 μ F		01.009
t _R	60 °C		3,4 kg

声级 / Sound levels:

在 V = 0.5*Vmax下的LWArel A 加权值 LWArel A-weighted at V=0.5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	34	40	44	43	43	33	26
LWA5 [dB(A)] 进风口侧 / inlet side	42	53	55	55	54	51	44
LWA6 [dB(A)] 出风口侧 / outlet side	36	49	50	53	55	50	40

在 V = 0.5*Vmax下的LWArel A 加权值 LWArel A-weighted at V=0,5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	45	47	47	46	43	39	30
LWA5 [dB(A)] 进风口侧 / inlet side	51	59	63	62	62	54	46
LWA6 [dB(A)] 出风口侧 / outlet side	51	59	59	61	59	53	44

接线图 / Wiring diagram:

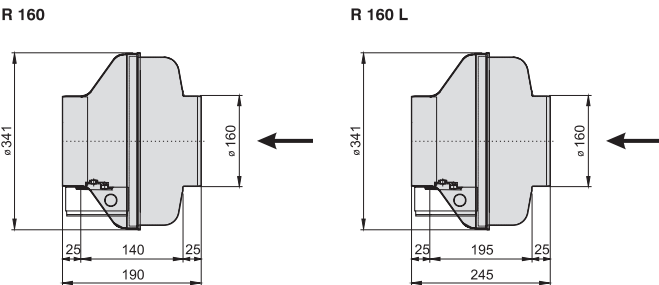


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为 mm / all dimensions in mm)

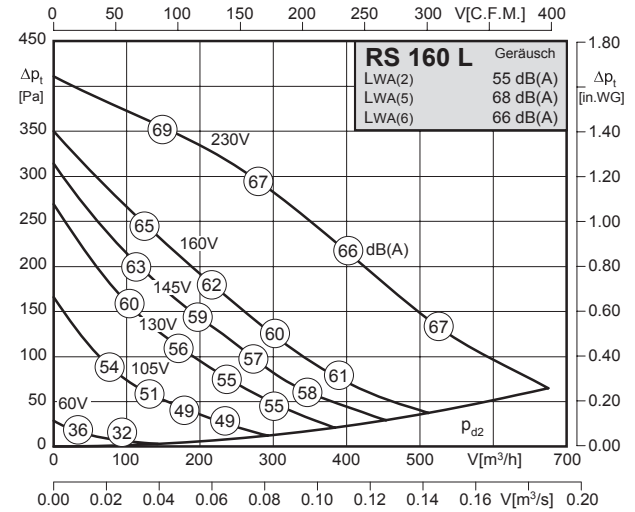
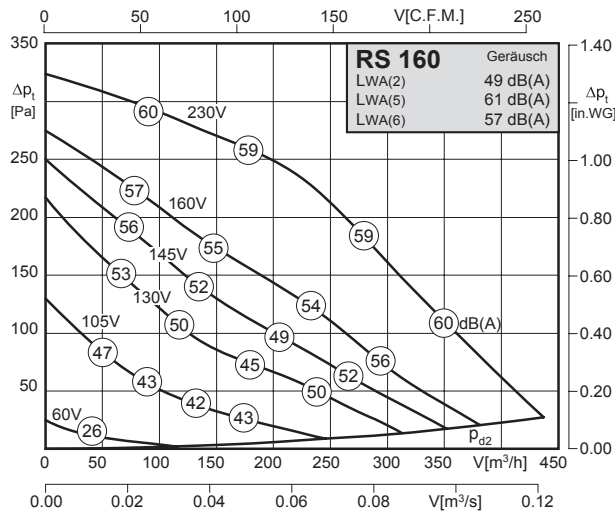




- 外壳采用塑料材料
- 较低的噪音级
- 完全耐腐蚀性
- 简单的接线盒电气连接
- 绝缘等级为F级
- 电机热触点保护
- 通过自耦变压器或电子控制实现100%无级调速

- casing made of plastic
- lower noise level
- completely corrosion resistant
- easy electrical connection via terminal box
- insulation class F
- motor protection by thermal contacts
- speed is 100% infinitely variable using auto transformers or electronic control

技术参数 / Technical Data:



型号 / Type : RS 160		货号 / Art.-No. : F00-16051	
U	230V (50Hz)	Δp _{fa min}	-- Pa
P ₁	0.07 kW	ΔI	-- %
I _N	0.30 A	I _A / I _N	1.5
n	2400 min ⁻¹	▲	IP44
C _{400V}	2 μF	★	01.009
t _R	70 °C	■	3 kg

型号 / Type : RS 160 L		货号 / Art.-No. : F00-16060	
U	230V (50Hz)	Δp _{fa min}	-- Pa
P ₁	0.115 kW	ΔI	-- %
I _N	0.49 A	I _A / I _N	1.5
n	2440 min ⁻¹	▲	IP44
C _{400V}	3 μF	★	01.009
t _R	50 °C	■	3,2 kg

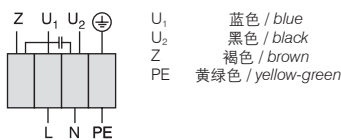
声级 / Sound levels:

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0,5*V _{max}	f [Hz]						
	125	250	500	1K	2K	4K	8K
LWA ₂ [dB(A)] 外壳 / casing	33	40	43	43	44	32	23
LWA ₅ [dB(A)] 进风口侧 / inlet side	40	54	55	55	54	50	41
LWA ₆ [dB(A)] 出风口侧 / outlet side	37	49	47	51	52	49	39

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0,5*V _{max}	f [Hz]						
	125	250	500	1K	2K	4K	8K
LWA ₂ [dB(A)] 外壳 / casing	41	43	51	50	47	39	30
LWA ₅ [dB(A)] 进风口侧 / inlet side	45	58	61	63	62	59	50
LWA ₆ [dB(A)] 出风口侧 / outlet side	43	55	55	60	62	58	50

接线图 / Wiring diagram:

01.009

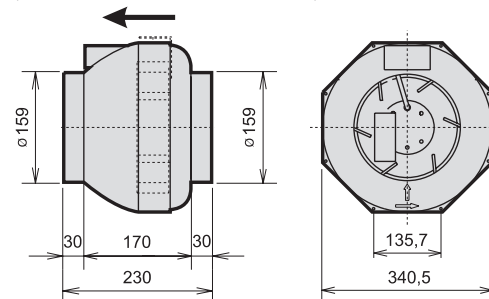


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)



管道风机 / Tube Fans

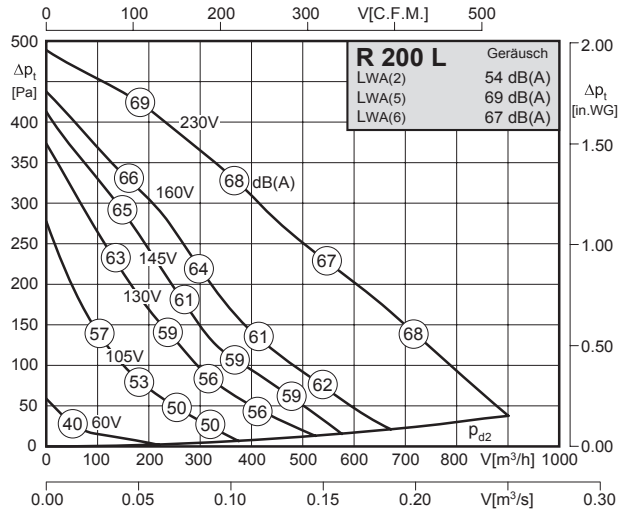
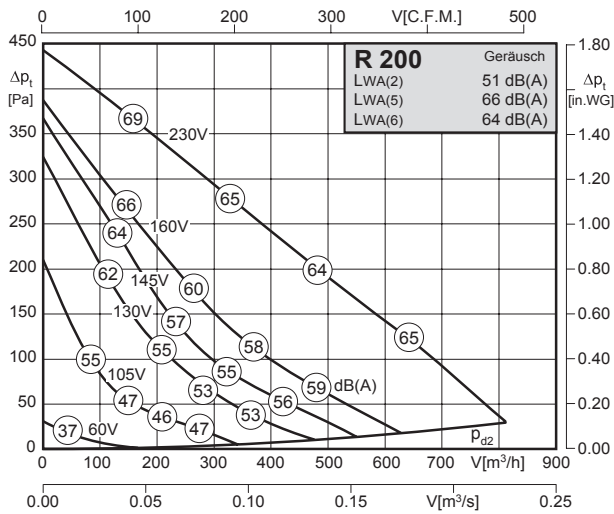
尺寸 / Size: 200



- 外壳采用镀锌钢板
- 易安装在任何位置
- 简单的接线盒电气连接
- 绝缘等级为F级
- 电机热触点保护
- 通过自耦变压器或电子控制实现100%的无级调速

- casing made of galvanized sheet steel
- easy installation in any position
- easy electrical connection via terminal box
- insulation class F
- motor protection by thermal contacts
- speed is 100% infinitely variable using auto transformers or electronic control

技术参数 / Technical Data:



型号 / Type : R 200		货号 / Art.-No. : F00-20082	
U	230V (50Hz)	Δp1a min	-- Pa
P1	0.12 kW	ΔI	-- %
IN	0.5 A	IA / IN	1.5
n	2430 min-1	▲	IP44
C400V	3 μF	★	01.009
tR	70 °C	■	3,7 kg

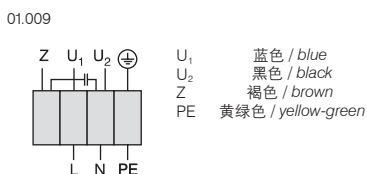
型号 / Type : R 200 L		货号 / Art.-No. : F00-20087	
U	230V (50Hz)	Δp1a min	-- Pa
P1	0.17 kW	ΔI	8 %
IN	0.73 A	IA / IN	1.6
n	2410 min-1	▲	IP44
C400V	5 μF	★	01.009
tR	65 °C	■	4,2 kg

声级 / Sound levels:

在 V = 0.5*Vmax 下的 LWArel A 加权值 LWArel A-weighted at V=0,5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	37	45	44	45	45	37	28
LWA5 [dB(A)] 进风口侧 / inlet side	44	57	59	60	61	56	47
LWA6 [dB(A)] 出风口侧 / outlet side	42	53	53	59	60	54	47

在 V = 0.5*Vmax 下的 LWArel A 加权值 LWArel A-weighted at V=0,5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	42	49	48	49	46	40	32
LWA5 [dB(A)] 进风口侧 / inlet side	50	61	63	64	62	57	50
LWA6 [dB(A)] 出风口侧 / outlet side	47	57	58	62	62	57	50

接线图 / Wiring diagram:



配件 / Accessories:

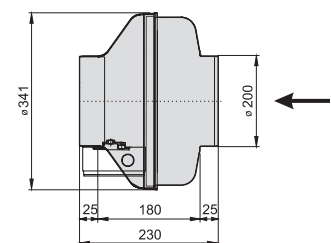
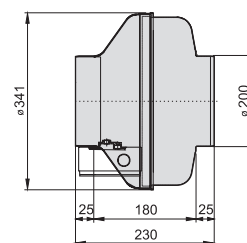


尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)

R 200

R 200 L

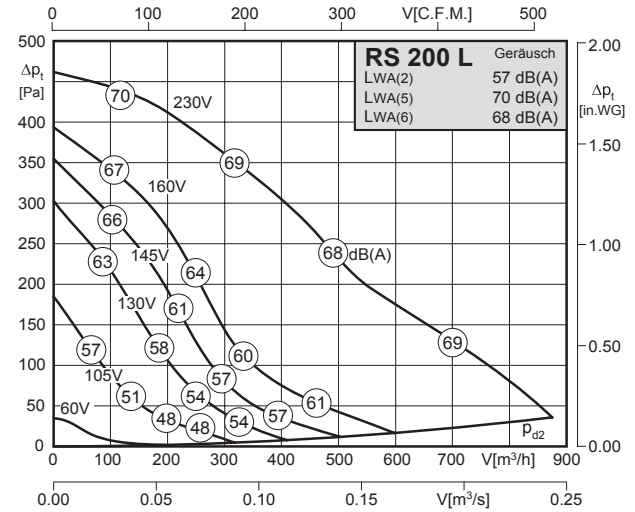
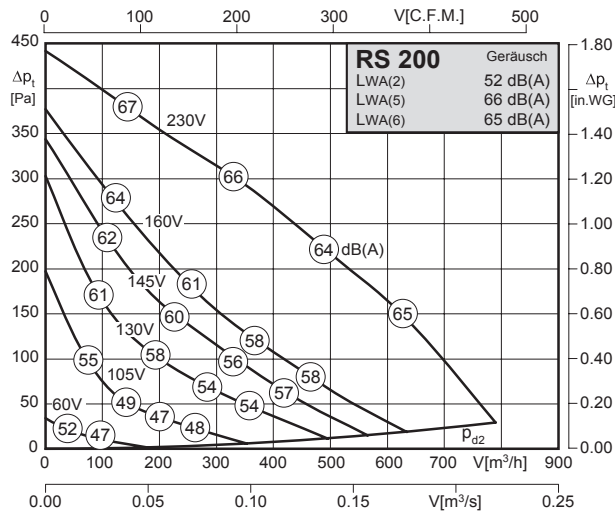




- 外壳采用塑料材料
- 较低的噪音级
- 完全耐腐蚀性
- 简单的接线盒电气连接
- 绝缘等级为F级
- 电机热触点保护
- 通过自耦变压器或电子控制实现100%无级调速

- casing made of plastic
- lower noise level
- completely corrosion resistant
- easy electrical connection via terminal box
- insulation class F
- motor protection by thermal contacts
- speed is 100% infinitely variable using auto transformers or electronic control

技术参数 / Technical Data:



型号 / Type : RS 200		货号 / Art.-No. : F00-20051	
U	230V (50Hz)	Δpfa min	-- Pa
P1	0.115 kW	ΔI	2 %
IN	0.50 A	IA / IN	1.5
n	2395 min-1	▲	IP44
C400V	3 μF	★	01.009
tR	50 °C	■	3,4 kg

型号 / Type : RS 200 L		货号 / Art.-No. : F00-20060	
U	230V (50Hz)	Δpfa min	-- Pa
P1	0.16 kW	ΔI	9 %
IN	0.70 A	IA / IN	1.7
n	2540 min-1	▲	IP44
C400V	5 μF	★	01.009
tR	55 °C	■	3,7 kg

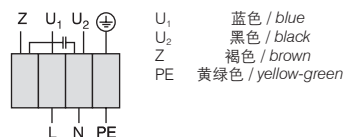
声级 / Sound levels:

在V = 0.5*Vmax下的LWAreI A-加权值 LWAreI A-weighted at V=0,5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	38	45	45	46	46	40	30
LWA5 [dB(A)] 进风口侧 / inlet side	45	56	59	61	61	56	46
LWA6 [dB(A)] 出风口侧 / outlet side	45	56	54	59	61	56	47

在V = 0.5*Vmax下的LWArel A 加权值 LWArel A-weighted at V=0,5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	41	46	54	51	48	41	31
LWA5 [dB(A)] 进风口侧 / inlet side	50	60	65	64	64	59	49
LWA6 [dB(A)] 出风口侧 / outlet side	50	59	58	62	64	58	49

接线图 / Wiring diagram:

01.009

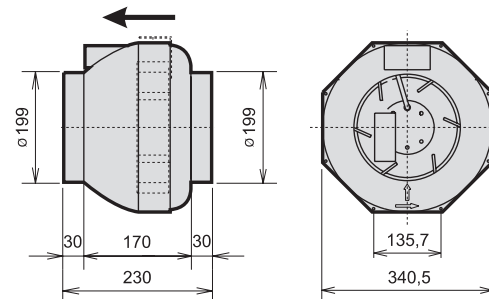


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)



管道风机 / Tube Fans

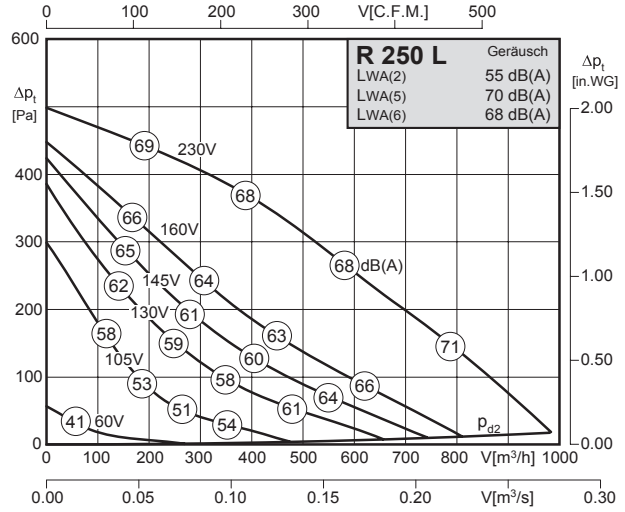
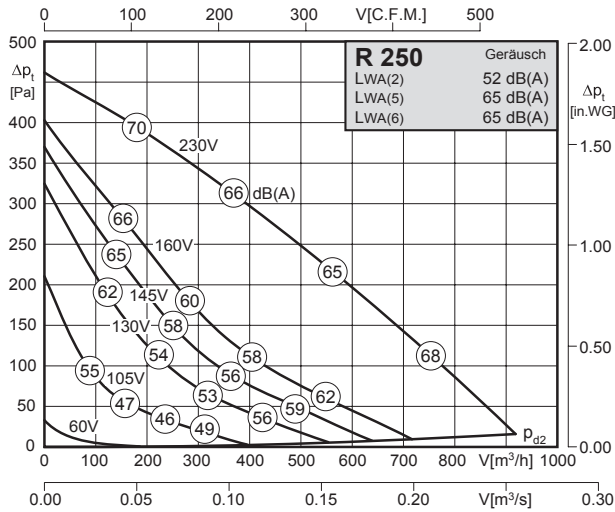
尺寸 / Size: 250



- 外壳采用镀锌钢板
- 易安装在任何位置
- 简单的接线盒电气连接
- 绝缘等级为F级
- 电机热触点保护
- 通过自耦变压器或电子控制实现100%的无级调速

- casing made of galvanized sheet steel
- easy installation in any position
- easy electrical connection via terminal box
- insulation class F
- motor protection by thermal contacts
- speed is 100% infinitely variable using auto transformers or electronic control

技术参数 / Technical Data:



型号 / Type : R 250		货号 / Art.-No. : F00-25082	
U	230V (50Hz)	Δp _{fa min}	-- Pa
P _I	0.12 kW	ΔI	-- %
I _N	0.5 A	I _A / I _N	1.5
n	2400 min ⁻¹	▲	IP44
C _{400V}	3 μF	★	01.009
t _R	70 °C	■	3,7 kg

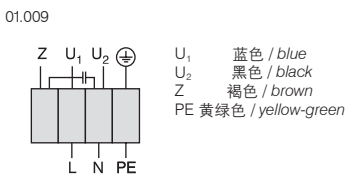
型号 / Type : R 250 L		货号 / Art.-No. : F00-25087	
U	230V (50Hz)	Δp _{fa min}	-- Pa
P _I	0.165 kW	ΔI	10 %
I _N	0.70 A	I _A / I _N	1.6
n	2470 min ⁻¹	▲	IP44
C _{400V}	5 μF	★	01.009
t _R	60 °C	■	5,5 kg

声级 / Sound levels:

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	fM [Hz]					
	125	250	500	1K	2K	4K
LWA ₂ [dB(A)] 外壳 / casing	40	47	45	47	41	36
LWA ₅ [dB(A)] 进风口侧 / inlet side	44	55	59	59	60	53
LWA ₆ [dB(A)] 出风口侧 / outlet side	45	56	58	59	60	55

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	fM [Hz]					
	125	250	500	1K	2K	4K
LWA ₂ [dB(A)] 外壳 / casing	43	45	47	51	48	44
LWA ₅ [dB(A)] 进风口侧 / inlet side	48	59	65	65	63	58
LWA ₆ [dB(A)] 出风口侧 / outlet side	49	59	59	63	63	58

接线图 / Wiring diagram:



配件 / Accessories:

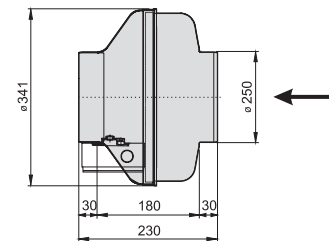
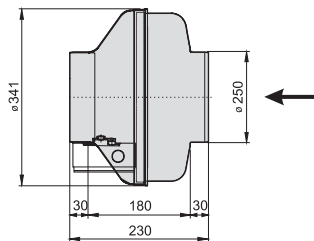


尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)

R 250

R 250 L

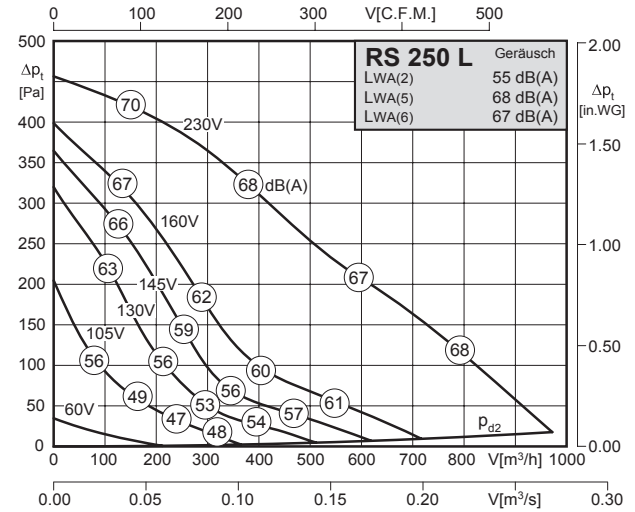
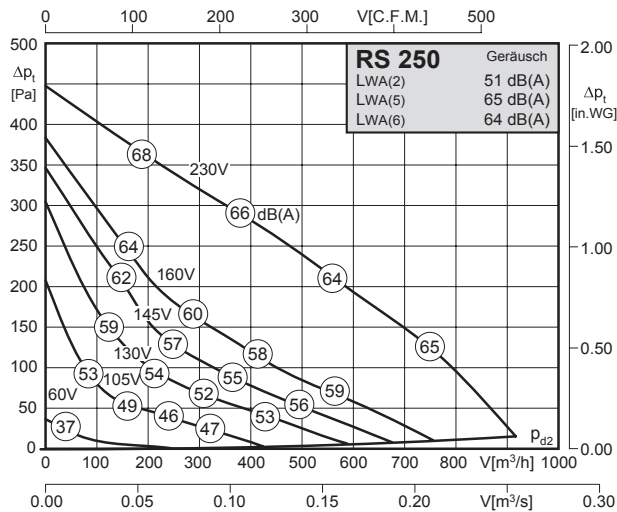




- 外壳采用塑料材料
- 较低的噪音级
- 完全耐腐蚀性
- 简单的接线盒电气连接
- 绝缘等级为F级
- 电机热触点保护
- 通过自耦变压器或电子控制实现100%无级调速

- casing made of plastic
- lower noise level
- completely corrosion resistant
- easy electrical connection via terminal box
- insulation class F
- motor protection by thermal contacts
- speed is 100% infinitely variable using auto transformers or electronic control

技术参数 / Technical Data:



型号 / Type	RS 250	货号 / Art.-No.	F00-25051
U	230V (50Hz)	Δpfa min	-- Pa
P1	0.115 kW	ΔI	-- %
IN	0.50 A	IA / IN	1.5
n	2450 min-1	▲	IP44
C400V	3 μF	★	01.009
tR	50 °C	■	3,4 kg

型号 / Type	RS 250 L	货号 / Art.-No.	F00-25060
U	230V (50Hz)	Δpfa min	-- Pa
P1	0.16 kW	ΔI	14 %
IN	0.65 A	IA / IN	1.8
n	2560 min-1	▲	IP44
C400V	5 μF	★	01.009
tR	55 °C	■	3,7 kg

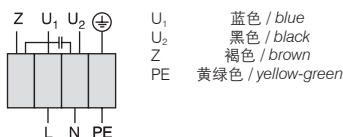
声级 / Sound levels:

在 V = 0.5*Vmax 下的 LWArel A 加权值 LWArel A-weighted at V=0,5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	37	44	44	45	45	39	29
LWA5 [dB(A)] 进风口侧 / inlet side	45	55	58	60	60	55	45
LWA6 [dB(A)] 出风口侧 / outlet side	44	55	53	58	60	55	46

在 V = 0.5*Vmax 下的 LWArel A 加权值 LWArel A-weighted at V=0,5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	40	45	52	48	46	40	31
LWA5 [dB(A)] 进风口侧 / inlet side	50	60	61	63	61	58	47
LWA6 [dB(A)] 出风口侧 / outlet side	49	58	58	62	62	57	47

接线图 / Wiring diagram:

01.009

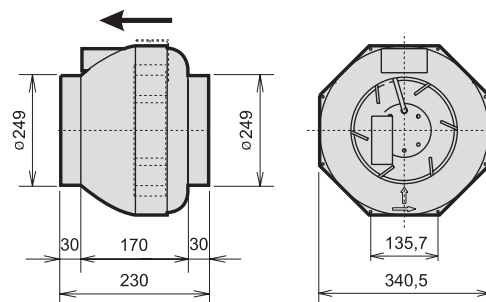


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)



管道风机 / Tube Fans

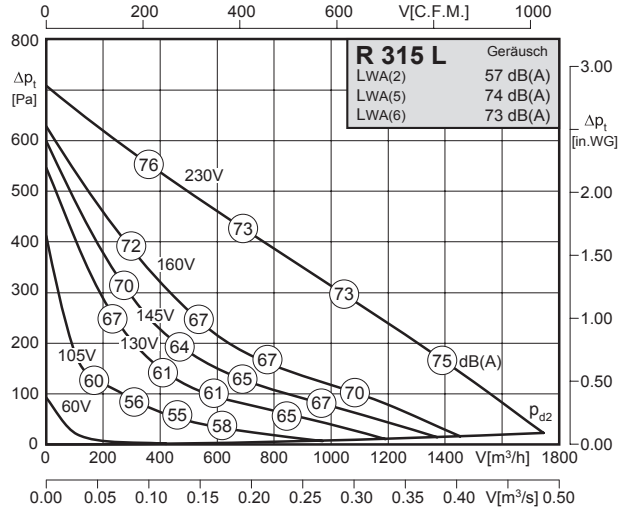
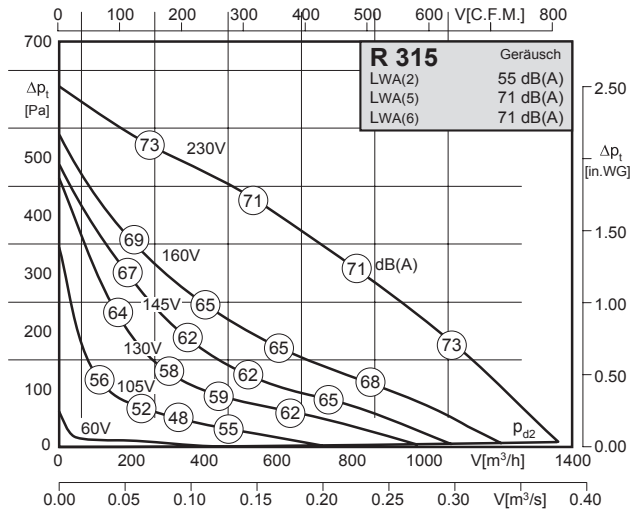
尺寸 / Size: 315



- 外壳采用镀锌钢板
- 易安装在任何位置
- 简单的接线盒电气连接
- 绝缘等级为F级
- 电机热触点保护
- 通过自耦变压器或电子控制实现100%的无级调速

- casing made of galvanized sheet steel
- easy installation in any position
- easy electrical connection via terminal box
- insulation class F
- motor protection by thermal contacts
- speed is 100% infinitely variable using auto transformers or electronic control

技术参数 / Technical Data:



型号 / Type : R 315		货号 / Art.-No. : F00-31582	
U	230V (50Hz)	Δp1a min	-- Pa
P1	0.23 kW	ΔI	10 %
IN	1.0 A	IA / IN	1.8
n	2540 min-1	▲	IP44
C400V	5 μF	★	01.009
tR	60 °C	■	6 kg

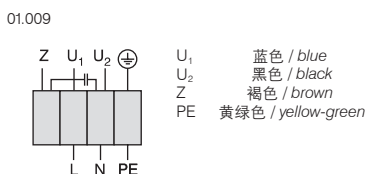
型号 / Type : R 315 L		货号 / Art.-No. : F00-31587	
U	230V (50Hz)	Δp1a min	-- Pa
P1	0.3 kW	ΔI	-- %
IN	1.30 A	IA / IN	1.7
n	2440 min-1	▲	IP44
C400V	8 μF	★	01.009
tR	45 °C	■	6 kg

声级 / Sound levels:

在 V = 0.5*Vmax 下的 LWArel A 加权值 LWArel A-weighted at V=0.5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	42	46	49	50	48	43	34
LWA5 [dB(A)] 进风口侧 / inlet side	48	58	65	66	65	61	56
LWA6 [dB(A)] 出风口侧 / outlet side	54	59	61	66	66	63	56

在 V = 0.5*Vmax 下的 LWArel A 加权值 LWArel A-weighted at V=0.5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	41	49	51	51	50	47	38
LWA5 [dB(A)] 进风口侧 / inlet side	47	59	68	69	67	66	61
LWA6 [dB(A)] 出风口侧 / outlet side	46	58	62	68	68	65	63

接线图 / Wiring diagram:



配件 / Accessories:

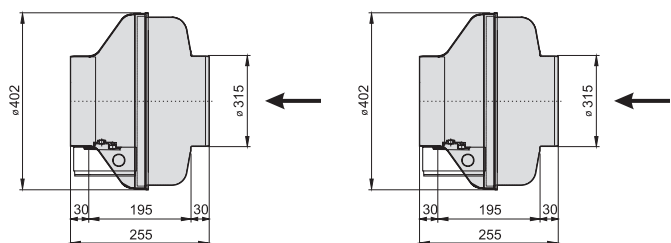


尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)

R 315

R 315 L

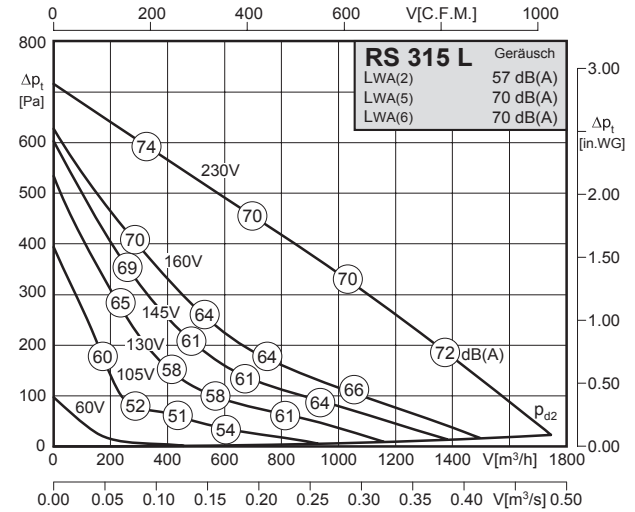
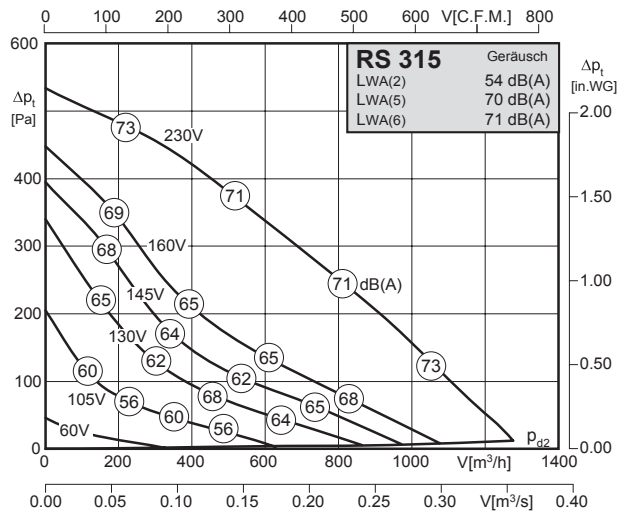




- 外壳采用塑料材料
- 较低的噪音级
- 完全耐腐蚀性
- 简单的接线盒电气连接
- 绝缘等级为F级
- 电机热触点保护
- 通过自耦变压器或电子控制实现100%无级调速

- casing made of plastic
- lower noise level
- completely corrosion resistant
- easy electrical connection via terminal box
- insulation class F
- motor protection by thermal contacts
- speed is 100% infinitely variable using auto transformers or electronic control

技术参数 / Technical Data:



型号 / Type	RS 315	货号 / Art.-No.	F00-31551
U	230V (50Hz)	Δpfa min	-- Pa
P1	0.22 kW	ΔI	14 %
IN	0.95 A	IA / IN	1.9
n	2540 min-1	▲	IP44
C400V	5 μF	★	01.009
tR	55 °C	■	5,7 kg

型号 / Type	RS 315 L	货号 / Art.-No.	F00-31560
U	230V (50Hz)	Δpfa min	-- Pa
P1	0.30 kW	ΔI	-- %
IN	1.30 A	IA / IN	1.7
n	2390 min-1	▲	IP44
C400V	8 μF	★	01.009
tR	45 °C	■	5,8 kg

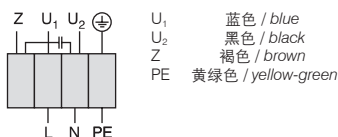
声级 / Sound levels:

在 V = 0.5*Vmax 下的 LWArel A 加权值 LWArel A-weighted at V=0,5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	43	46	48	48	47	41	28
LWA5 [dB(A)] 进风口侧 / inlet side	50	59	64	64	63	62	55
LWA6 [dB(A)] 出风口侧 / outlet side	50	59	61	64	67	64	57

在 V = 0.5*Vmax 下的 LWArel A 加权值 LWArel A-weighted at V=0,5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	41	49	51	51	50	47	38
LWA5 [dB(A)] 进风口侧 / inlet side	44	56	63	64	65	62	55
LWA6 [dB(A)] 出风口侧 / outlet side	44	56	63	64	65	61	58

接线图 / Wiring diagram:

01.009

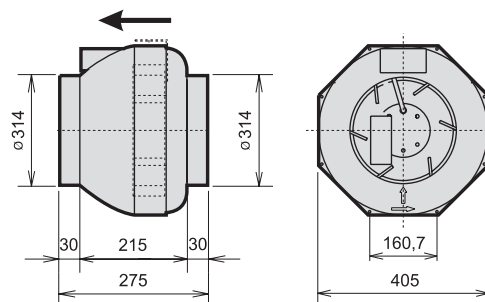


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)



管道风机 / Tube Fans

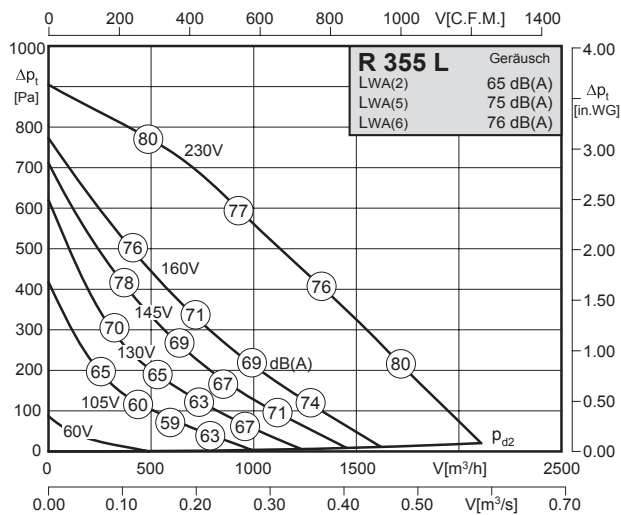
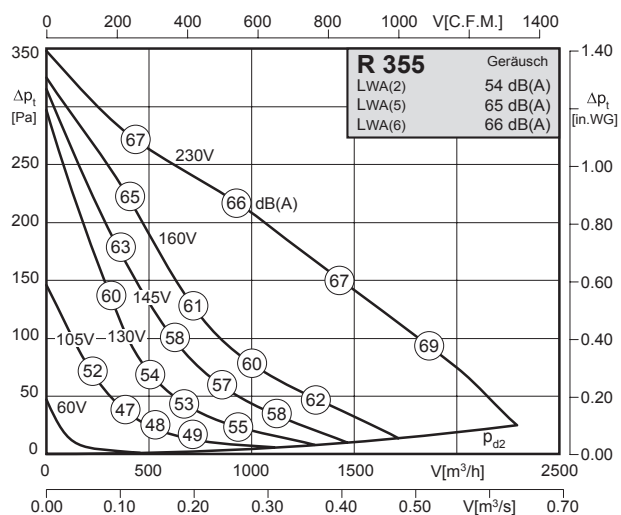
尺寸 / Size: 355



- 外壳采用镀锌钢板
- 易安装在任何位置
- 简单的接线盒电气连接
- 绝缘等级为F级
- 电机热触点保护
- 通过自耦变压器或电子控制实现100%的无级调速

- casing made of galvanized sheet steel
- easy installation in any position
- easy electrical connection via terminal box
- insulation class F
- motor protection by thermal contacts
- speed is 100% infinitely variable using auto transformers or electronic control

技术参数 / Technical Data:



型号 / Type : R 355		货号 / Art.-No. : F00-35510	
U	230V (50Hz)	Δp _f min	-- Pa
P _I	0.26 kW	ΔI	11 %
I _N	1.15 A	I _A / I _N	1.9
n	1290 min ⁻¹	▲	IP54
C _{400V}	5 μF	★	01.024
t _R	45 °C	■	13.5 kg

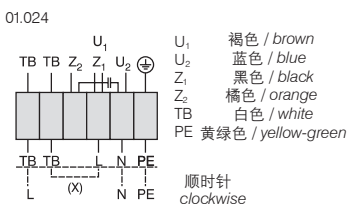
型号 / Type : R 355 L		货号 / Art.-No. : F00-35511	
U	230V (50Hz)	Δp _f min	-- Pa
P _I	0.61 kW	ΔI	8 %
I _N	2.60 A	I _A / I _N	1.8
n	2340 min ⁻¹	▲	IP54
C _{400V}	12 μF	★	01.024
t _R	50 °C	■	14 kg

声级 / Sound levels:

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0,5*V _{max}	fM [Hz]					
	125	250	500	1K	2K	4K
LWA ₂ [dB(A)] 外壳 / casing	48	49	48	45	40	36
LWA ₅ [dB(A)] 进风口侧 / inlet side	53	60	60	58	54	41
LWA ₆ [dB(A)] 出风口侧 / outlet side	53	56	61	60	59	46

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0,5*V _{max}	fM [Hz]					
	125	250	500	1K	2K	4K
LWA ₂ [dB(A)] 外壳 / casing	46	56	57	61	58	40
LWA ₅ [dB(A)] 进风口侧 / inlet side	56	69	69	70	65	55
LWA ₆ [dB(A)] 出风口侧 / outlet side	57	60	69	72	70	60

接线图 / Wiring diagram:



配件 / Accessories:

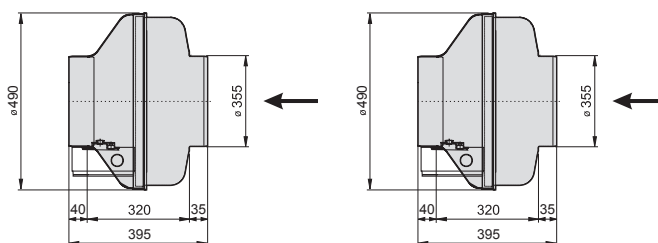


尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)

R 355

R 355 L

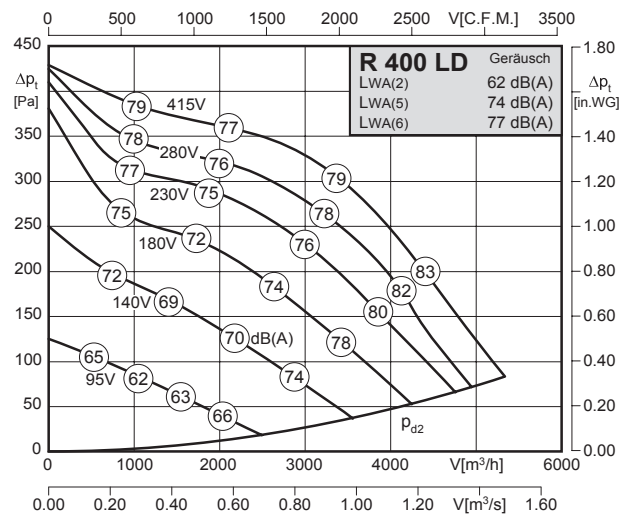
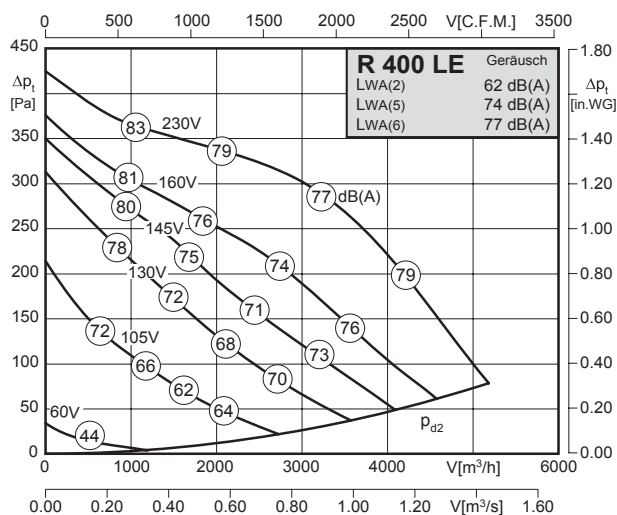




- 外壳采用镀锌钢板
- 易安装在任何位置
- 简单的接线盒电气连接
- 绝缘等级为F级
- 电机热触点保护
- 通过自耦变压器或电子控制实现100%无级调速

- casing made of galvanized sheet steel
- easy installation in any position
- easy electrical connection via terminal box
- insulation class F
- motor protection by thermal contacts
- speed is 100% infinitely variable using auto transformers or electronic control

技术参数 / Technical Data:



型号 / Type : R 400 LE		货号 / Art.-No. : F00-40010	
U	230V (50Hz)	Δpfa min	-- Pa
P ₁	0.70 kW	ΔI	22 %
I _N	3.30 A	I _A / I _N	2.5
n	1350 min ⁻¹	▲	IP54
C _{400V}	16 μF	★	01.024
t _R	70 °C	■	31 kg

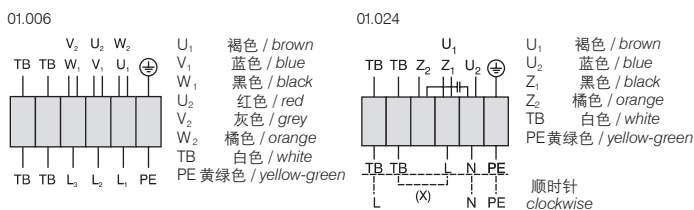
型号 / Type : R 400 LD		货号 / Art.-No. : F00-40000	
U	400V (50Hz)	Δpfa min	-- Pa
P ₁	0.67 kW	ΔI	8 %
I _N	1.55 A	I _A / I _N	4.8
n	1400 min ⁻¹	▲	IP54
C _{400V}	-- μF	★	01.006
t _R	70 °C	■	31 kg

声级 / Sound levels:

在V = 0.5*Vmax下的LWArel A 加权值 LWArel A-weighted at V=0.5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	48	56	57	56	52	47	39
LWA5 [dB(A)] 进风口侧 / inlet side	57	69	69	67	64	59	52
LWA6 [dB(A)] 出风口侧 / outlet side	56	69	72	74	71	63	55

在 V = 0.5*Vmax下的LWArel A 加权值 LWArel A-weighted at V=0.5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	48	56	57	56	52	47	39
LWA5 [dB(A)] 进风口侧 / inlet side	57	69	69	67	64	59	52
LWA6 [dB(A)] 出风口侧 / outlet side	56	69	72	74	71	63	55

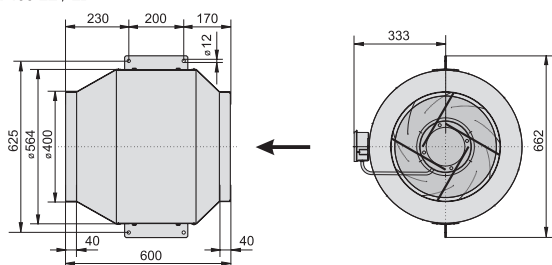
接线图 / Wiring diagram:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)

R 400 LE / LD



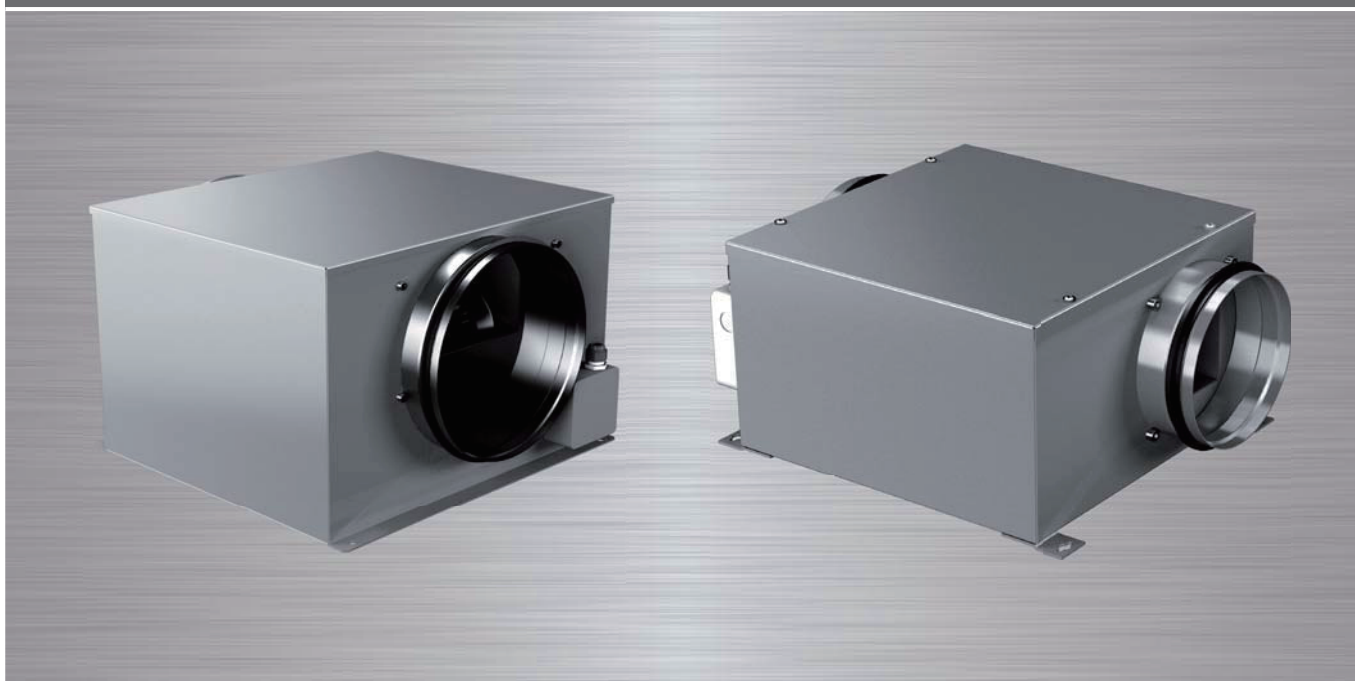
配件 / Accessories:



RTE/RTD	ED	TE/TD	GS	VBM	RSK	VK	MKA	TFB	RSD	BG
Seite/Page	Seite/Page	Seite/Page	Seite/Page	Seite/Page	Seite/Page	Seite/Page	Seite/Page	Seite/Page	Seite/Page	Seite/Page
384,392	402	400	404	420	420	420	421	422	422	423

ZeroBoxen Evolution 和 Ultimate

Zeroboxes Evolution and Ultimate



型号代码 / Type Code

Z 160 U E 1

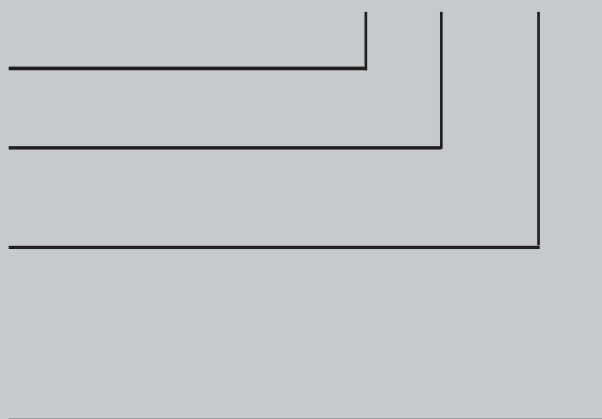
Zerobox / Zerobox

连接管直径 /
diameter of tube connection

E=单位范围“Evolution” / *unit range*“Evolution”

U=平单位范围“Ultimate” /
flat unit range“Ultimate”

型号 / model



特征及结构

外壳

作为一种吸音构件，外壳应由森吉米尔镀锌钢板制作而成。其内层40mm厚的岩棉板（单位范围内延伸）和5mm厚的绝缘泡沫（单位范围内终极）都具有声音衰减功能。盖子可以很容易地被拧开，以进行清洁和维护。拆卸电机时，叶轮和螺旋槽也应一起被拆卸下来。

叶轮

外转子电机的防护等级为IP44/54，并配有防潮防渗透保护装置、球轴承和热过载触点。叶轮可通过双向进气口向前弯曲（延伸）或通过单向进气口向前弯曲（终极）。两种类型叶轮的动平衡和静平衡性能都应分别满足DIN 1940中的相应质量等级G2.5的要求。

电气连接

应通过IP44/IP54接线盒进行电气连接。

安装

可采用具有标准化直径的刚性折叠式螺旋焊缝管（Spiro）、柔性铝或塑料管。Zerobox箱子可被安装在任何位置。如果在几个楼层上使用了Zerobox箱子的话，则应遵守当地的消防法规。

空气性能曲线

此类型风机的性能曲线中对应的值是在安装位置D（安装在压力侧而在吸入侧打开）处进行测量的，在该曲线中给出了空气流量对应的总压力增量 Δp_t 。动态压力 Δp_{d2} 是指在风机出风口侧法兰横截面上测量的压力值。

噪音级

性能曲线图中的边界值表示在管道系统进风口侧的“A”加权LWA5声功率级。而相对八度声功率级LWArel见每个风机类型页面上的表格。

Features and Construction

Casing

Casing is made of sendzimir galvanized sheet steel as sound absorbing construction. The inlayed 40mm thick rockwool plates (unit range Evolution), and the 5mm insulating foam (unit range Ultimate) have a sound attenuating effect. The covering lid can easily be unscrewed, to gain access for cleaning and maintenance. The motor is removable together with the impeller and spiral scroll.

Impellers

The external rotor motors are in accordance with protection class IP44/54, with moisture protection impregnation, ball bearings and thermal overload contacts. The impellers are forward curved with double inlet (Evolution) and forward curved with single inlet (Ultimate). Both types of impellers are balanced dynamically and statically in accordance to quality level G 2.5 to DIN 1940 on two levels.

Electrical connection

The electrical connection can be made via an IP44 / IP54 terminal box.

Installation

Rigid folded spiral-seam ducts (Spiro), flexible aluminium or plastic ducts with standardized diameter can be used. Zeroboxes can be installed in any positions. If the Zerobox is used for several floor levels, the local laws on fire protection have to be observed.

Air performance curves

The performance curves for these fan types have been measured in mounting position D (installed on the pressure side and open on the suction side) and show the total pressure increase Δp_t as a function of the air flow. The dynamic pressure Δp_{d2} refers to the flange cross section at the outlet side of the fan.

Noise levels

The bordered values printed in the performance curve diagrams show the „A“ weighted L_{WA5} sound power level at the inlet side in duct systems. The relative octave sound power level L_{WArel} at octave medium frequency you can find on the table on each fan type page.

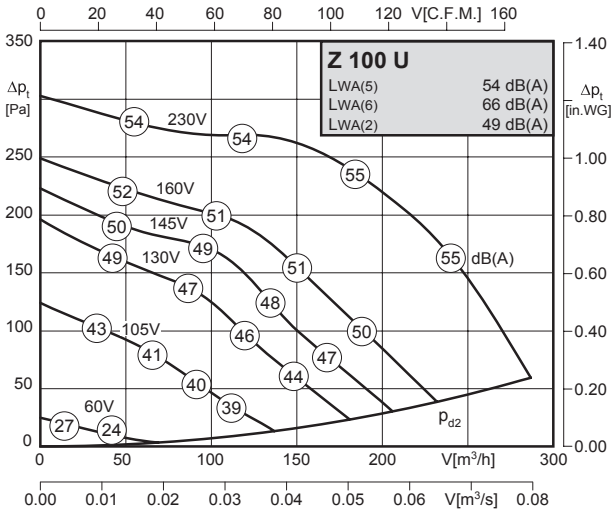




- 非常平整的结构
- 低噪音
- 可以安装在任何位置
- 高压和音量输出
- 易清洁和维护
- 简单的接线盒电气连接没有IP44
- 热接触电机保护
- 通过自耦变压器或电子控制实现100%无级调速

- extremely flat construction
- low noise
- can be installed in any position
- high pressure and volume output
- easy cleaning and maintenance
- easy electrical connection via IP44 terminal box
- motor protection by thermal contacts
- speed is 100% infinitely variable using auto transformers or electronic control

技术参数 / Technical Data:

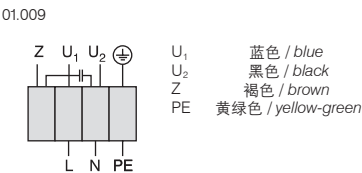


型号 / Type : Z 100 U		货号 / Art.-No. : F05-10015	
U	230V (50Hz)	ΔP _{la min}	-- Pa
P ₁	0.074 kW	ΔI	-- %
I _N	0.32 A	I _A / I _N	1.5
n	2340 min-1	⚠	IP44
C _{400V}	2.0 μF	⚡	01.009
t _R	70 °C	🔥	7 kg

声级 / Sound levels:

在 V = 0.5*Vmax下的LWArel A 加权值 LWArel A-weighted at V=0.5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA5 [dB(A)] 进风口侧 / inlet side	39	47	48	49	46	40	30
LWA6 [dB(A)] 出风口侧 / outlet side	40	54	56	62	61	56	49
LWA2 [dB(A)] 外壳 / casing	44	42	42	41	39	32	25

接线图 / Wiring diagram:

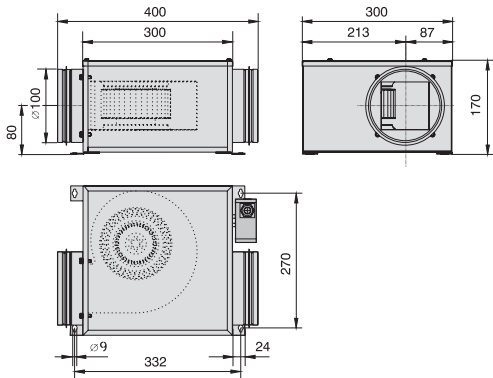


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)

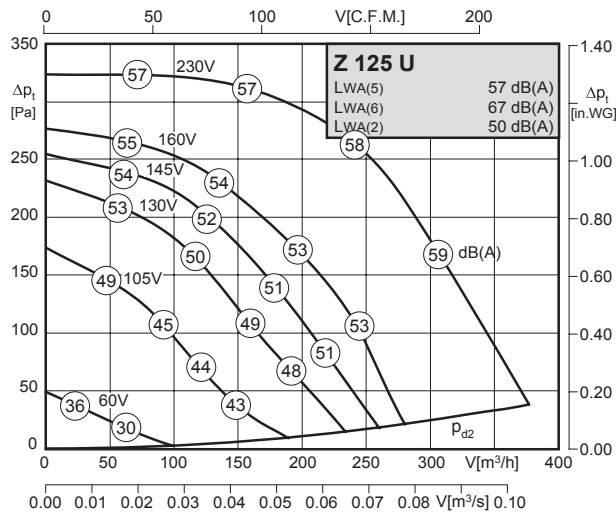




- 非常平整的结构
- 低噪音
- 可以安装在任何位置
- 高压和音量输出
- 易清洁和维护
- 简单的接线盒电气连接没有IP44
- 热接触电机保护
- 通过自耦变压器或电子控制实现100%无级调速

- extremely flat construction
- low noise
- can be installed in any position
- high pressure and volume output
- easy cleaning and maintenance
- easy electrical connection via IP44 terminal box
- motor protection by thermal contacts
- speed is 100% infinitely variable using auto transformers or electronic control

技术参数 / Technical Data:



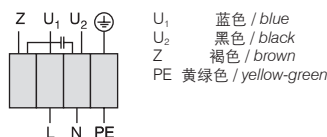
型号 / Type : Z 125 U	货号 / Art.-No. : F05-12515
U 230V (50Hz)	ΔP _{1a} min -- Pa
P ₁ 0.11 kW	ΔI -- %
I _N 0.48 A	I _A / I _N 1.2
n 2220 min ⁻¹	⚠ IP44
C _{400V} 2.5 μF	⚡ 01.009
t _R 70 °C	🔥 7 kg

声级 / Sound levels:

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0,5*V _{max}	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA5 [dB(A)] 进风口侧 / inlet side	42	49	50	52	51	43	34
LWA6 [dB(A)] 出风口侧 / outlet side	43	55	58	64	63	58	53
LWA2 [dB(A)] 外壳 / casing	45	43	43	42	40	33	26

接线图 / Wiring diagram:

01.009

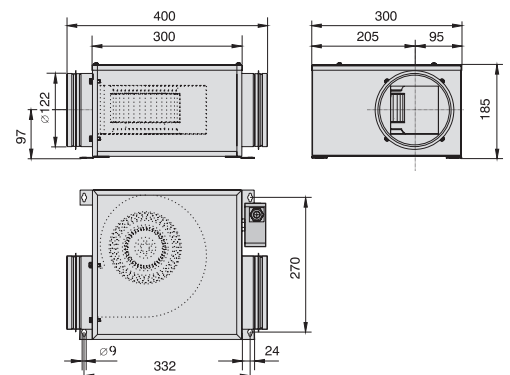


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)

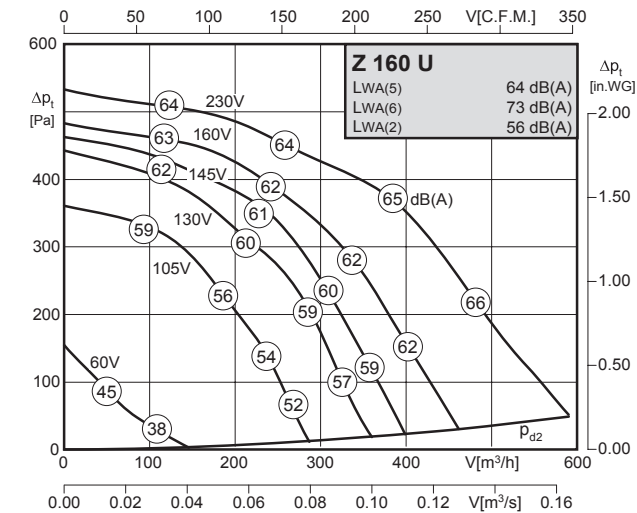




- 非常平整的结构
- 低噪音
- 可以安装在任何位置
- 高压和音量输出
- 易清洁和维护
- 简单的接线盒电气连接没有IP44
- 热接触电机保护
- 通过自耦变压器或电子控制实现100%无级调速

- extremely flat construction
- low noise
- can be installed in any position
- high pressure and volume output
- easy cleaning and maintenance
- easy electrical connection via IP44 terminal box
- motor protection by thermal contacts
- speed is 100% infinitely variable using auto transformers or electronic control

技术参数 / Technical Data:

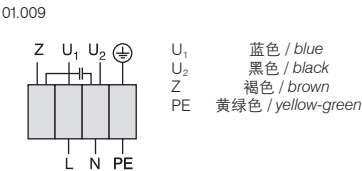


型号 / Type : Z 160 U		货号 / Art.-No. : F05-16015	
U	230V (50Hz)	ΔP _{la min}	-- Pa
P _I	0.21 kW	ΔI	-- %
I _N	0.9 A	I _A / I _N	1.6
n	2450 min-1		IP44
C _{400V}	6 μF		01.009
t _R	70 °C		8 kg

声级 / Sound levels:

在V = 0.5*Vmax下的LWArel A 加权值 LWArel A-weighted at V=0.5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA5 [dB(A)] 进风口侧 / inlet side	49	57	58	58	57	52	42
LWA6 [dB(A)] 出风口侧 / outlet side	48	61	63	69	70	65	59
LWA2 [dB(A)] 外壳 / casing	49	50	49	48	48	40	32

接线图 / Wiring diagram:

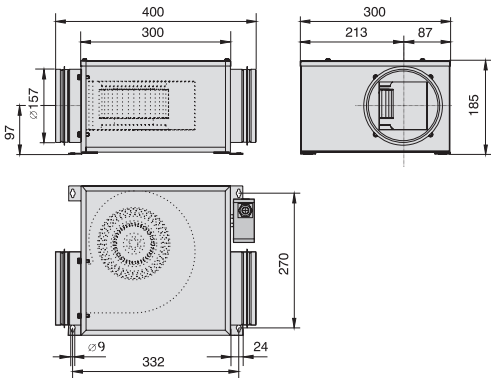


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)

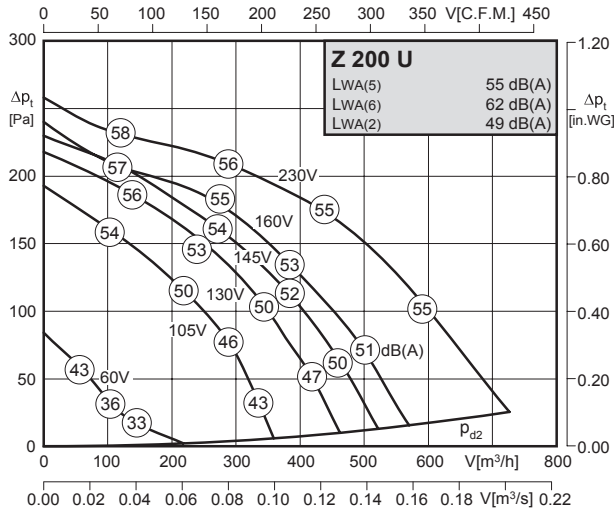




- 非常平整的结构
- 低噪音
- 可以安装在任何位置
- 高压和音量输出
- 易清洁和维护
- 简单的接线盒电气连接没有IP44
- 热接触电机保护
- 通过自耦变压器或电子控制实现100%无级调速

- extremely flat construction
- low noise
- can be installed in any position
- high pressure and volume output
- easy cleaning and maintenance
- easy electrical connection via IP44 terminal box
- motor protection by thermal contacts
- speed is 100% infinitely variable using auto transformers or electronic control

技术参数 / Technical Data:



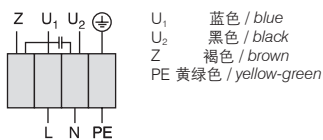
型号 / Type : Z 200 U	货号 / Art.-No. : F05-20015
U 230V (50Hz)	ΔP _{1a} min -- Pa
P ₁ 0.15 kW	ΔI -- %
I _N 0.68 A	I _A / I _N 1.5
n 1210 min ⁻¹	⚠ IP44
C _{400V} 4 μF	⚡ 01.009
t _R 55 °C	🔥 13 kg

声级 / Sound levels:

在V = 0.5*V _{max} 下的LWArel A 加权值 LWArel A-weighted at V=0,5*V _{max}	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA5 [dB(A)] 进风口侧 / inlet side	44	48	49	50	46	39	25
LWA6 [dB(A)] 出风口侧 / outlet side	42	49	57	58	54	52	44
LWA2 [dB(A)] 外壳 / casing	42	42	44	42	36	33	29

接线图 / Wiring diagram:

01.009

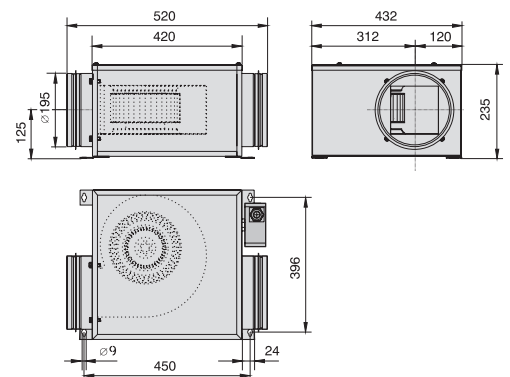


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)

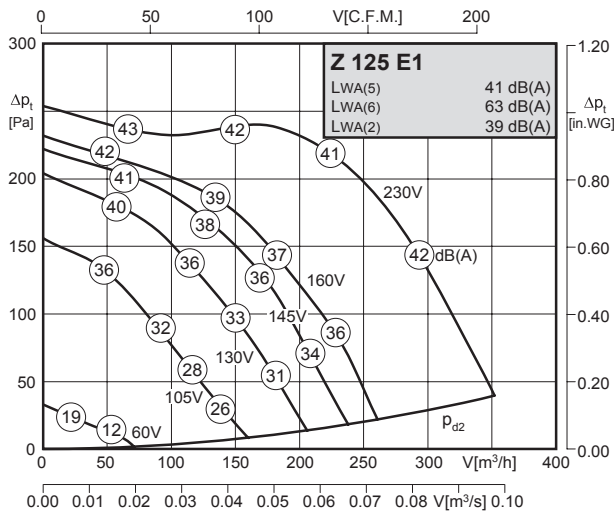




- 噪音非常低
- 可以安装在任何位置
- 高压和音量输出
- 易清洁和维护
- 简单的接线盒电气连接
- 绝缘等级为F级
- 热接触电机保护
- 通过自耦变压器或电子控制实现100%无级调速

- extreme y ow no se
- can be installed in any position
- high pressure and volume output
- easy cleaning and maintenance
- easy electrical connection via terminal box
- insulation class F
- motor protection by thermal contacts
- speed is 100% infinitely variable using auto transformers or electronic control

技术参数 / Technical Data:

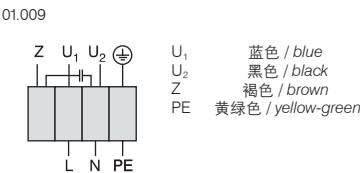


型号 / Type : Z 125 E1		货号 / Art.-No. : F05-12507	
U	230V (50Hz)	Δp1a min	-- Pa
P1	0.10 kW	ΔI	-- %
IN	0.43 A	IA / IN	1.9
n	1990 min-1	⚠	IP44
C400V	2.5 μF	⚡	01.009
tR	60 °C	🔥	11 kg

声级 / Sound levels:

在V = 0.5*Vmax下的LWArel A 加权值 LWArel A-weighted at V=0.5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA5 [dB(A)] 进风口侧 / inlet side	34	36	34	33	29	28	23
LWA6 [dB(A)] 出风口侧 / outlet side	48	55	55	57	57	54	45
LWA2 [dB(A)] 外壳 / casing	32	34	33	29	28	26	22

接线图 / Wiring diagram:

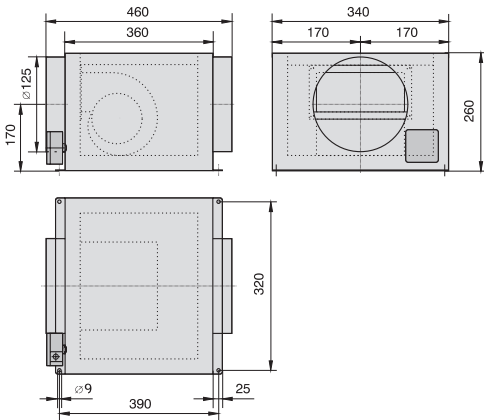


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)

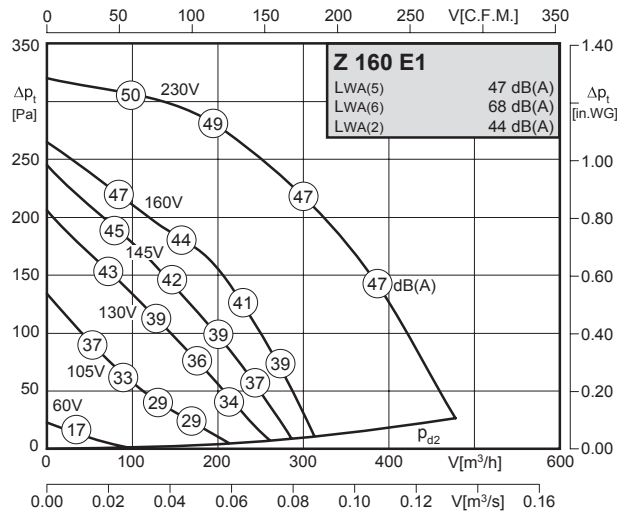




- 噪音非常低
- 可以安装在任何位置
- 高压和音量输出
- 易清洁和维护
- 简单的接线盒电气连接
- 绝缘等级为F级
- 热接触电机保护
- 通过自耦变压器或电子控制实现100%无级调速

- *extremely low noise*
- *can be installed in any position*
- *high pressure and volume output*
- *easy cleaning and maintenance*
- *easy electrical connection via terminal box*
- *insulation class F*
- *motor protection by thermal contacts*
- *speed is 100% infinitely variable using auto transformers or electronic control*

技术参数 / Technical Data:



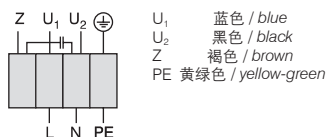
型号 / Type : Z 160 E1	货号 / Art.-No. : F05-16007
U 230V (50Hz)	Δpfa min -- Pa
P1 0.125 kW	ΔI -- %
IN 0.54 A	IA / IN 1.2
n 1800 min-1	IP44
C400V 2.5 μF	01.009
tR 55 °C	12,5 kg

声级 / Sound levels:

在 V = 0.5 * Vmax 下的 LWArel A 加权值 LWArel A-weighted at V=0.5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA5 [dB(A)] 进风口侧 / inlet side	39	41	40	39	38	36	31
LWA6 [dB(A)] 出风口侧 / outlet side	45	54	57	63	64	59	53
LWA2 [dB(A)] 外壳 / casing	40	38	35	34	33	29	23

接线图 / Wiring diagram:

01.009

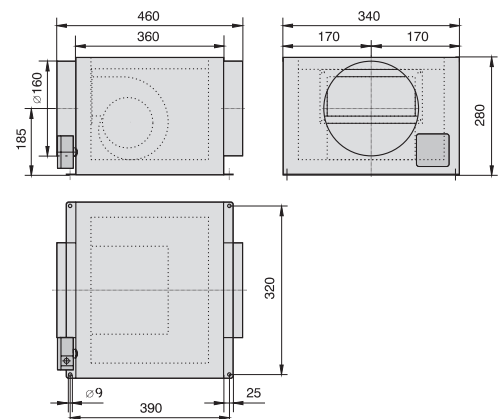


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)

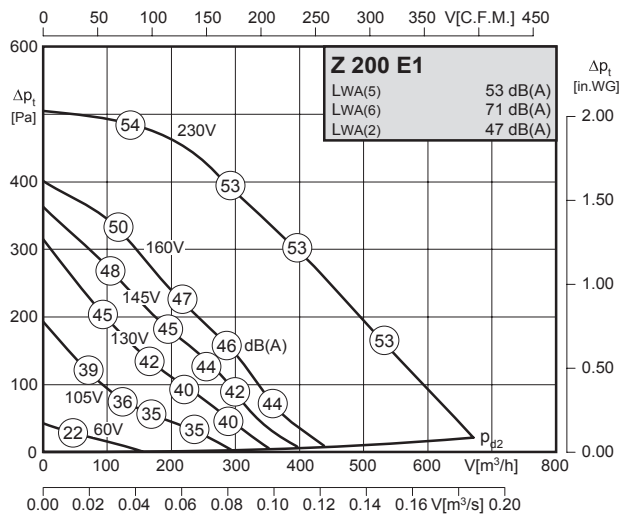




- 噪音非常低
- 可以安装在任何位置
- 高压和音量输出
- 易清洁和维护
- 简单的接线盒电气连接
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- *extremely low noise*
- *can be installed in any position*
- *high pressure and volume output*
- *easy cleaning and maintenance*
- *easy electrical connection via terminal box*
- *insulation class F*
- *motor protection by thermal contacts*
- *speed is 100% infinitely variable using auto transformers or electronic control*

技术参数 / Technical Data:

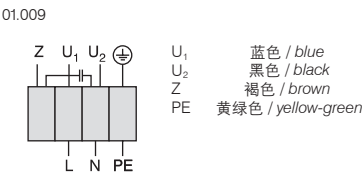


型号 / Type : Z 200 E1		货号 / Art.-No. : F05-20007	
U	230V (50Hz)	ΔP1a min	-- Pa
P1	0.21 kW	ΔI	-- %
IN	0.90 A	IA / IN	1.1
n	1440 min-1		IP44
C400V	4 μF		01.009
tR	50 °C		14 kg

声级 / Sound levels:

在 V = 0,5*Vmax 下的 LWArel A 加权值 LWArel A-weighted at V=0,5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA5 [dB(A)] 进风口侧 / inlet side	49	47	44	45	42	40	33
LWA6 [dB(A)] 出风口侧 / outlet side	53	59	62	65	67	62	56
LWA2 [dB(A)] 外壳 / casing	43	42	38	36	33	28	23

接线图 / Wiring diagram:

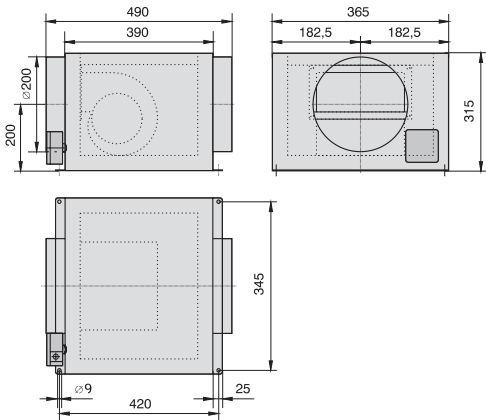


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)

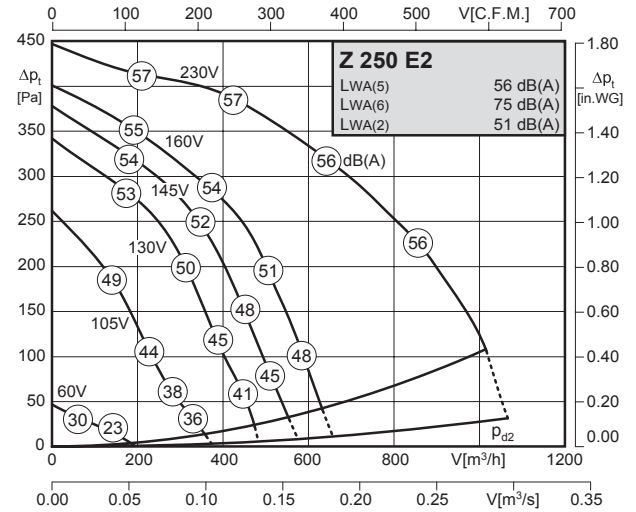
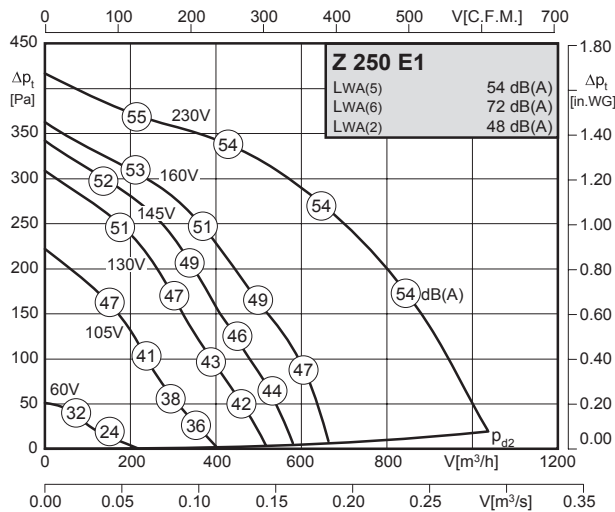




- 噪音非常低
- 可以安装在任何位置
- 高压和音量输出
- 易清洁和维护
- 简单的接线盒电气连接
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- easy cleaning and maintenance
- easy electrical connection via terminal box
- insulation class F
- motor protection by thermal contacts
- speed is 100% infinitely variable using auto transformers or electronic control

技术参数 / Technical Data:



型号 / Type : Z 250 E1	货号 / Art.-No. : F05-25007
U 230V (50Hz)	Δpfa min -- Pa
P ₁ 0.27 kW	ΔI -- %
I _N 1.15 A	I _A / I _N 1.2
n 1825 min ⁻¹	⚠ IP44
C _{400V} 6 μF	★ 01.009
t _R 55 °C	🔋 15,5 kg

型号 / Type : Z 250 E2	货号 / Art.-No. : F05-25008
U 230V (50Hz)	Δpfa min 80 Pa
P ₁ 0.32 kW	ΔI -- %
I _N 1.4 A	I _A / I _N 1.2
n 2130 min ⁻¹	⚠ IP44
C _{400V} 10 μF	★ 01.009
t _R 40 °C	🔋 18,5 kg

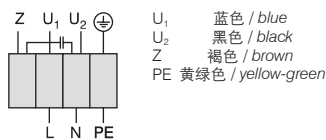
声级 / Sound levels:

在 V = 0.5*Vmax下的LWArel A 加权值 LWArel A-weighted at V=0.5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA5 [dB(A)] 进风口侧 / inlet side	50	48	45	44	43	41	34
LWA6 [dB(A)] 出风口侧 / outlet side	54	60	63	66	68	63	57
LWA2 [dB(A)] 外壳 / casing	44	43	39	37	34	29	24

在 V = 0.5*Vmax下的LWArel A 加权值 LWArel A-weighted at V=0.5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA5 [dB(A)] 进风口侧 / inlet side	50	51	48	46	46	45	36
LWA6 [dB(A)] 出风口侧 / outlet side	51	60	64	70	71	66	61
LWA2 [dB(A)] 外壳 / casing	48	46	41	39	39	34	27

接线图 / Wiring diagram:

01.009

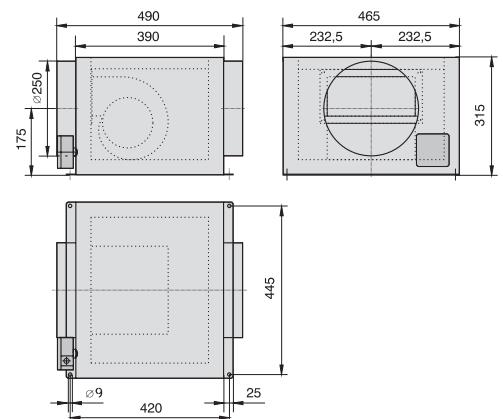


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)

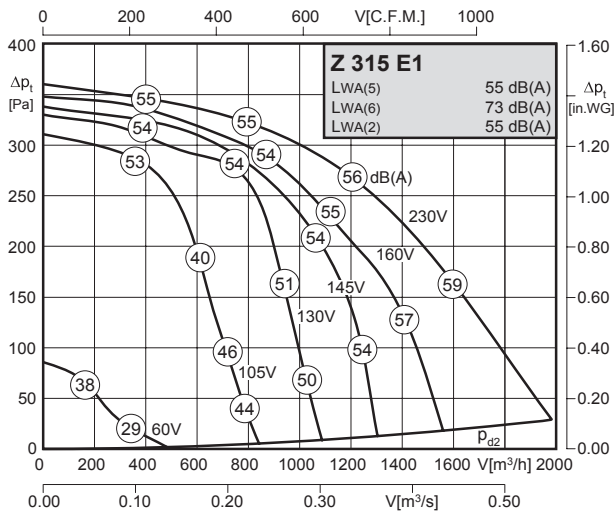




- 非常平整的结构
- 低噪音
- 可以安装在任何位置
- 高压和音量输出
- 易清洁和维护
- 简单的接线盒电气连接没有IP44
- 热接触电机保护
- 通过自耦变压器或电子控制实现100%无级调速

- extremely low noise
- can be installed in any position
- high pressure and volume output
- easy cleaning and maintenance
- easy electrical connection via terminal box
- insulation class F
- motor protection by thermal contacts
- speed is 100% infinitely variable using auto transformers or electronic control

技术参数 / Technical Data:

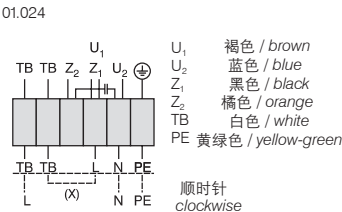


型号 / Type : Z 315 E1		货号 / Art.-No. : F05-31507	
U	230V (50Hz)	$\Delta p_{la \min}$	-- Pa
P _I	0.55 kW	ΔI	22 %
I _N	2.6 A	I _A / I _N	2.5
n	1360 min-1		IP54
C _{400V}	12 μ F		01.024
t _R	40 °C		40 kg

声级 / Sound levels:

在 V = 0.5*V _{max} 下的 L _{WA} rel A 加权值 L _{WA} rel A-weighted at V=0.5*V _{max}	f [Hz]						
	125	250	500	1K	2K	4K	8K
L _{WA5} [dB(A)] 进风口侧 / inlet side	49	50	44	45	47	44	36
L _{WA6} [dB(A)] 出风口侧 / outlet side	58	64	67	67	66	64	54
L _{WA2} [dB(A)] 外壳 / casing	52	51	43	37	31	26	24

接线图 / Wiring diagram:

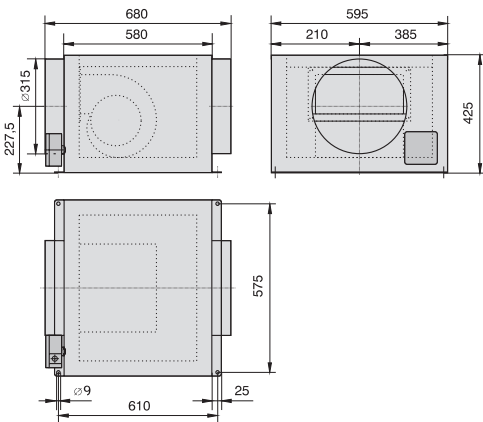


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)

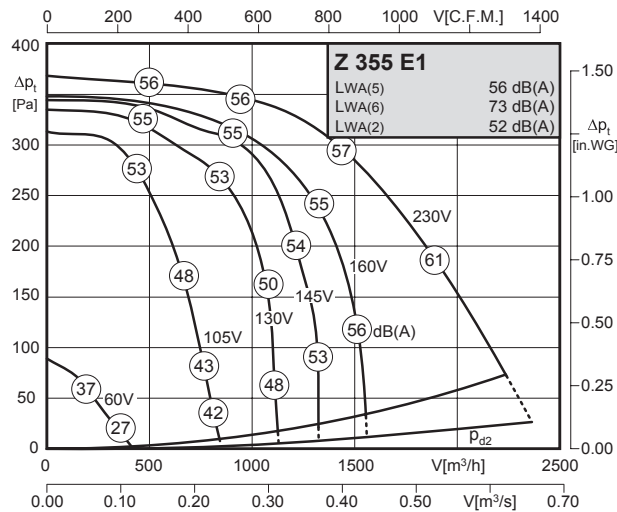




- 噪音非常低
- 可以安装在任何位置
- 高压和音量输出
- 易清洁和维护
- 简单的接线盒电气连接
- 绝缘等级为F级
- 热接触电机保护
- 通过自耦变压器或电子控制实现100%无级调速

- *extremely low noise*
- *can be installed in any position*
- *high pressure and volume output*
- *easy cleaning and maintenance*
- *easy electrical connection via terminal box*
- *insulation class F*
- *motor protection by thermal contacts*
- *speed is 100% infinitely variable using auto transformers or electronic control*

技术参数 / Technical Data:



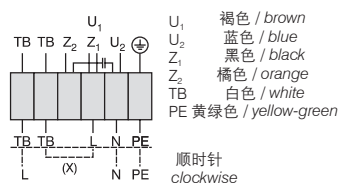
型号 / Type : Z 355 E1	货号 / Art.-No. : F05-35507
U 230V (50Hz)	Δpfa min 50 Pa
P1 0.6 kW	ΔI 10 %
IN 3.0 A	IA / IN 2.5
n 1320 min-1	IP54
C400V 12 μF	01.024
tR 40 °C	40 kg

声级 / Sound levels:

在 V = 0.5 * Vmax 下的 LWArel A 加权值 LWArel A-weighted at V=0.5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA5 [dB(A)] 进风口侧 / inlet side	50	51	42	46	48	47	37
LWA6 [dB(A)] 出风口侧 / outlet side	60	64	67	67	66	63	54
LWA2 [dB(A)] 外壳 / casing	47	49	40	39	36	29	26

接线图 / Wiring diagram:

01.024

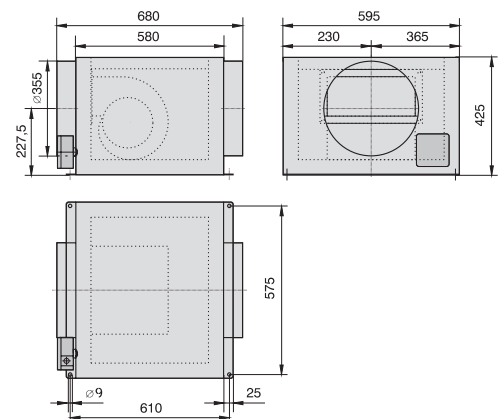


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)



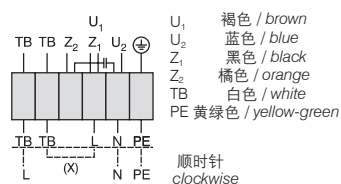
- 噪音非常低
- 可以安装在任何位置
- 高压和音量输出
- 易清洁和维护
- 简单的接线盒电气连接
- 绝缘等级为F级
- 热接触电机保护
- 通过自耦变压器或电子控制实现100%无级调速

- *extremely low noise*
- *can be installed in any position*
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- *easy cleaning and maintenance*
- *easy electrical connection via terminal box*
- *insulation class F*
- *motor protection by thermal contacts*
- *speed is 100% infinitely variable using auto transformers or electronic control*

型号 / Type : Z 400 E1		货号 / Art.-No. : F05-40007	
U	230V (50Hz)	$\Delta P_{\text{fa min}}$	-- Pa
P ₁	0.83 kW	ΔI	-- %
I _N	4.0 A	I _A / I _N	2.0
n	1300 min ⁻¹		IP54
C _{400V}	16 μF		01.024
t _R	45 °C		46 kg

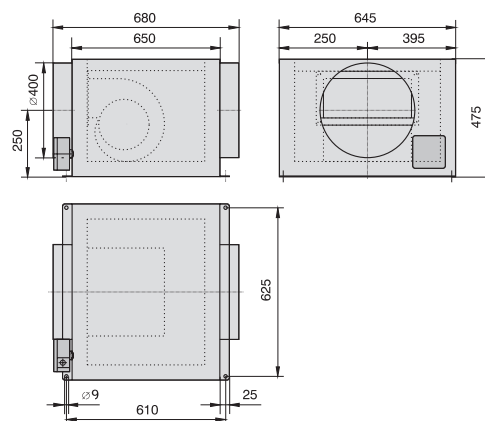
在 $V = 0.5 \times V_{max}$ 下的 LWArel A 加权值 LWArel A-weighted at $V = 0.5 \times V_{max}$	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA5 [dB(A)] 进风口侧 / <i>inlet side</i>	53	54	49	51	51	52	45
LWA6 [dB(A)] 出风口侧 / <i>outlet side</i>	62	63	66	70	68	68	61
LWA2 [dB(A)] 外壳 / <i>casing</i>	51	53	47	41	37	31	26

01 024



RTE Seite/Page 384	ED Seite/Page 402	TE Seite/Page 400	GS Seite/Page 404	VBM Seite/Page 420	RSK Seite/Page 420	VK Seite/Page 420	TFB Seite/Page 422	BG Seite/Page 423

(所有尺寸单位为mm / all dimensions in mm)



管道风机 带有前后弯曲的离心式叶轮的管道风机

Duct Fans with forward and backward curved centrifugal impellers



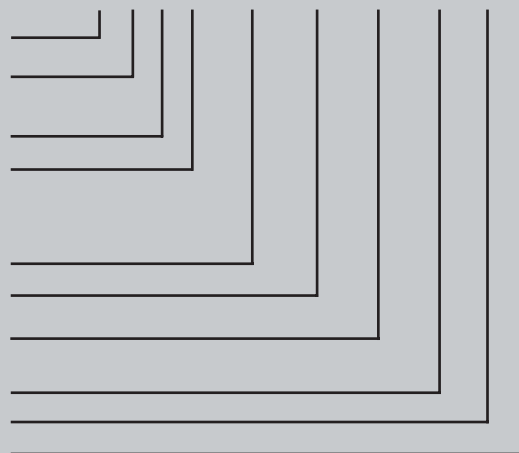
类型代号 / Type Code

管道风机 / duct fan
高效的 backward 离心式叶轮 /
high efficiency centrifugal impeller backward curved
A = 外转子电机 / external rotor motor
E = 单相 A.C. / single phase A.C.
D = 三相交流电 / three phase alternating current
G = EC 电机 / EC motor
叶轮直径 / impeller diameter
极数 / number of poles
效率优化的叶轮 / efficiency optimized impeller

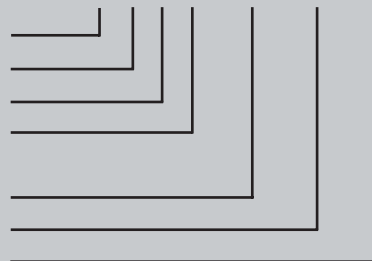
Schallgedämmt / sound attenuated
电机类型 (5=112; 6=150) /
motor type (5=112; 6=150)
堆栈长度 / stack length

单入口 / single inlet
管道风机 / duct fan
外转子电机 / external rotor motor
E = 单相 A.C. / single phase A.C.
D = 三相交流电 / three phase alternating current
叶轮直径 / impeller diameter
极数 / number of poles
小型电机 / smaller motor

K H A E 250 - 4.. W S .6 IF



E K A E 225 - 4 K



特点和结构

洛森管道风机提供了轴流风机的独特特点，比如直气流、易安装、高压稳定性、低噪音以及离心式风机的高效性。

外壳

外壳为由镀锌钢板弯曲的矩形管结构，用于直接安装在风管中。该外壳可安装在任何外置。在进风口和出风口侧配备有标准法兰。并配备有完整的外摆式电动叶轮，易于清洁和维护（KHAE/ D / G）。声音衰减管道风机（..WS）配备有节省空间的吸音外壳，因此噪音级非常低。

叶轮

前弯曲叶轮采用了镀锌钢板材料（EKAE/D）而带有后弯曲叶片的叶轮则采用了铝板（ALMg3）材料。后者可直接安装在尾部转子电机的转子上，并根据DIN1940中G2.5的等级要求与外转子电机一起进行动态平衡试验。

电气连接

电机都配有引出导线。可通过IP44接线盒进行电气连接。供货时这些电气连接件都没有连接好。

旋转方向

从进风口侧看，旋转方向为顺时针方向。

空气性能曲线

此类型风机的性能曲线中对应的值是在安装位置D（连接压力侧和吸入侧）处进行测量的，在该曲线中给出了空气流量对应的总压力增量 Δp_t 。动态压力 Δp_{d2} 是指在风机出风口侧法兰横截面上测量的压力值。

噪音级

性能曲线图中的边界值表示“A”加权LWA6声功率级（风机出风口侧）。风机进风口侧“A”加权LWA5声功率级的值见下面的公式：

$$L_{WA5} [dB(A)] = L_{WA6} [dB(A)] - 6 dB$$

距离1米处的“A”加权声压级 L_{pA} 的近似值为“A”加权声功率级减去7db（A）。请注意反射、房屋条件以及固有频率都将不同的方式影响声压级，这是非常重要的。八度中频下的相对八度声功率级 L_{WArel} 见每个风机类型页面中的表格。

Features and Construction

The Rosenberg duct fans provide a distinctive advantage of axial fans, i.e. straight airflow and easy installation, high pressure stability, low noise level and high efficiency of the centrifugal fan.

Casing

Casings are made of galvanized sheet steel, formed as a rectangular duct, for direct installation into air ducts. Mounting in any position possible. On inlet and outlet side are standard flanges. Equipped with complete swing-out motorized impellers for easy inspection cleaning and maintenance (KHAE/D/G). The sound attenuated duct fans (..WS) offer with a space saving and sound absorbing casing extremely low noise levels.

Impellers

The forward curved impellers are made of galvanized sheet steel (EKAE/D) and the impellers with backward curved blades made of sheet aluminium (ALMg3) are mounted directly to the rotor of the external rotor motor and are balanced dynamically together with the rotor according to quality level G2.5 to DIN1940.

Electrical connection

The motors are fitted with an outgoing cable. The electrical connection can be made via an IP44 terminal box, which is supplied loose.

Direction of rotation

Direction of rotation is clockwise, viewed from the inlet side.

Air performance curves

The performance curves for these fan types have been measured in mounting position D (ducted on the pressure side and on the suction side) and show the total pressure increase Δp_t as a function of the air flow. The dynamic pressure Δp_{d2} refers to the flange cross section at the outlet side of the fan.

Noise levels

The bordered values printed in the performance curve diagrams show the „A“ weighted L_{WA6} sound power level (fan outlet). Determination of „A“ weighted L_{WA5} sound power level at fan inlet:

$$L_{WA5} [dB(A)] = L_{WA6} [dB(A)] - 6 dB$$

The „A“ weighted sound pressure level L_{pA} at a distance of 1 metre is calculated approximately by deducting 7 db(A) from the „A“ weighted sound power level. It is important to note that the reflection and room characteristic as well as natural frequencies influence the sound pressure levels a different way. The relative octave sound power level L_{WArel} at octave medium frequency you can find on the table on each fan type page.

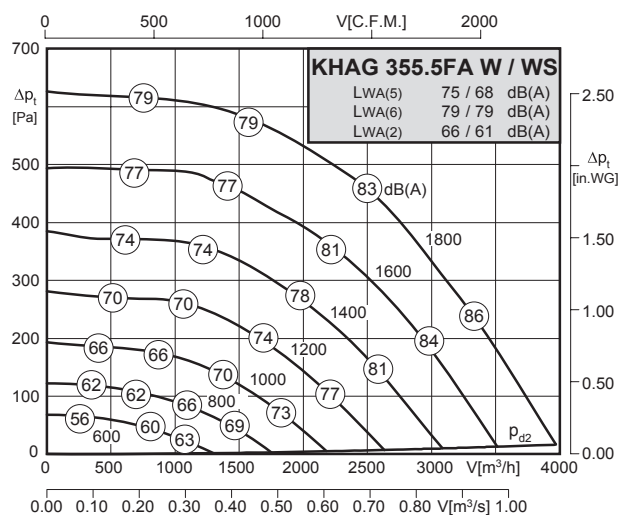




- 集成控制系统 (EC控制器)
- 基于EC技术具有最低操作成本的完整系统
- 完整系统设置和调整简单
- 100%无级调速
- 易于安装 (DIN标准法兰)
- 后弯曲叶轮
- 结构紧凑、节省空间的设计

- integrate d control system (EC controller)
- completed system with minimal operating costs, based on use of EC technology
- simple setting and adjustment of the complete system
- speed is 100% infinitely variable
- easy installation (DIN standard flange)
- backward curved impeller
- compact and space saving design

技术参数 / Technical Data:



AC型号的节能率达到: /
Energy saving rate
according to AC type up to:
35%*

* 在速度控制部分负荷范围

* at speed controlled partial load range

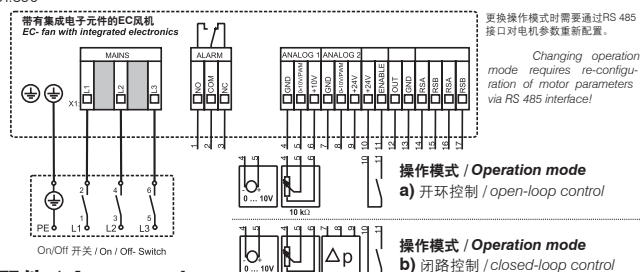
型号 : KHAG 355.5FA W/WS	货号 : D15-35500 / D15-35510
U	400V (50Hz)
P1	0.6 kW
IN	1.15 A
n	1800 min-1
C400V	— μF
tR	60 °C

声级 / Sound levels:

在 V = 0.5 * Vmax 下的 LWArel A 加权值 LWArel A-weighted at V=0.5 * Vmax	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	-4	-5	-12	-12	-15	-21	-27
LWA5 [dB(A)] 进风口侧 / inlet side	-11	-5	-9	-9	-7	-11	-20
LWA6 [dB(A)] 出风口侧 / outlet side	-10	-9	-6	-5	-6	-13	-22

接线图 / Wiring diagram:

01.390

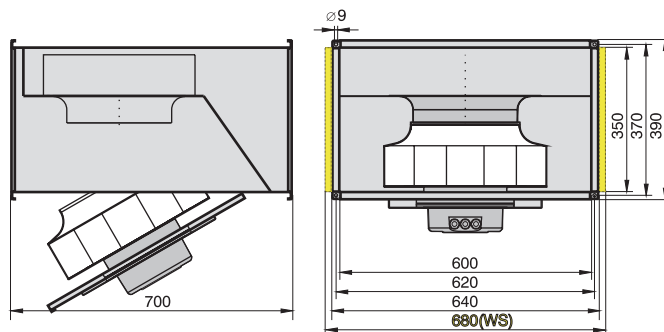


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)



EC-管道风机 / EC-Duct Fans

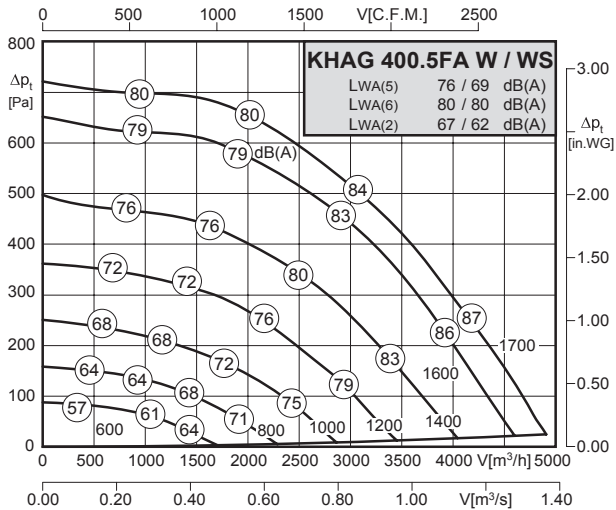
尺寸 / Size: 400



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技术参数 / Technical Data:



AC型号的节能率达到: /
Energy saving rate
according to AC type up to:
35%*

* 在速度控制部分负荷范围

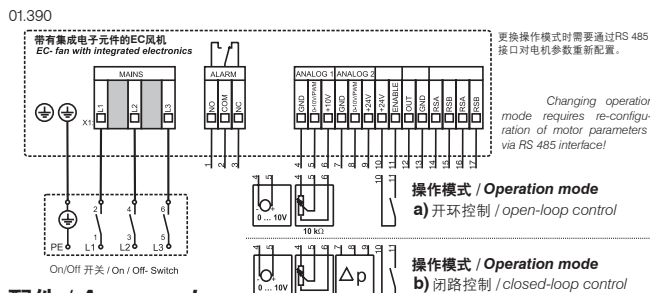
* at speed controlled partial load range

型号 : KHAG 400.5FA W/WS		货号 : D15-40000 / D15-40010	
U	400V (50Hz)	ΔP _{fa min}	-- Pa
P _i	0.8 kW	ΔI	-- %
I _N	1.45 A	I _A / I _N	--
n	1700 min ⁻¹	⚠	IP54
C _{400V}	-- μF	⚡	01.390 a)
t _R	50 °C	🔥	36,5 kg

声级 / Sound levels:

在 V = 0.5*V _{max} 下的 LWA _{rel A} 加权值 LWA _{rel A} -weighted at V=0.5*V _{max}	f [Hz]						
	125	250	500	1K	2K	4K	8K
LWA ₂ [dB(A)] 外壳 / casing	-4	-3	-11	-13	-18	-21	-28
LWA ₅ [dB(A)] 进风口侧 / inlet side	-7	-5	-11	-9	-8	-12	-20
LWA ₆ [dB(A)] 出风口侧 / outlet side	-10	-8	-7	-6	-7	-11	-21

接线图 / Wiring diagram:

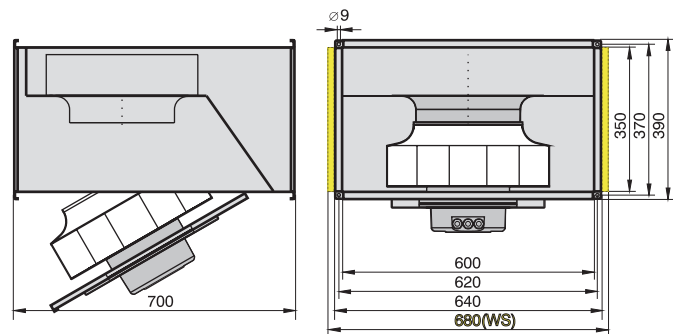


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)

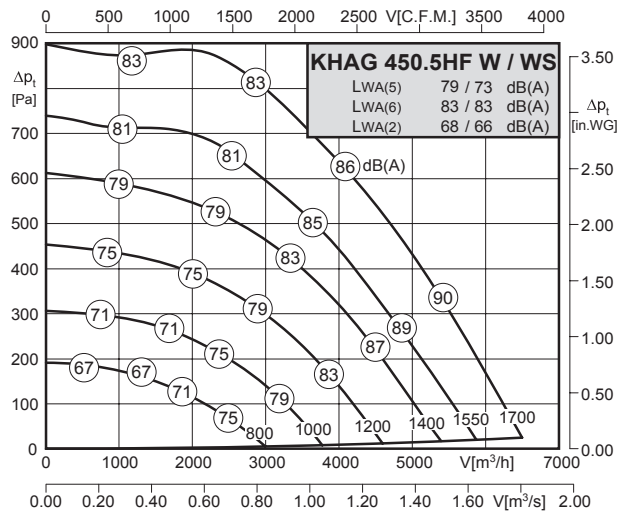




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- backward curved impeller
- compact and space saving design

技术参数 / Technical Data:



AC型号的节能率达到: /
Energy saving rate
according to AC type up to:
35%*

* 在速度控制部分负荷范围

* at speed controlled partial load range

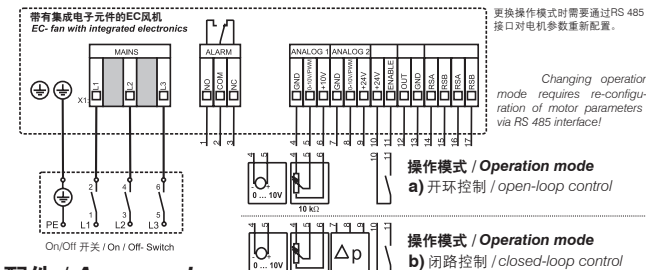
型号 : KHAG 450.5HF W/WS		货号 : D15-45020 / D15-45010	
U	400V (50Hz)	Δp _{ta min}	-- Pa
P ₁	1.3 kW	ΔI	-- %
I _N	2.3 A	I _A / I _N	--
n	1700 min-1		IP54
C _{400V}	-- μF		01.390 a)
t _R	50 °C		51 kg

声级 / Sound levels:

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	f [Hz]						
	125	250	500	1K	2K	4K	8K
LWA ₂ [dB(A)] 外壳 / casing	-7	-4	-8	-11	-15	-20	-27
LWA ₅ [dB(A)] 进风口侧 / inlet side	-14	-9	-3	-7	-8	-14	-22
LWA ₆ [dB(A)] 出风口侧 / outlet side	-15	-9	-7	-5	-8	-13	-23

接线图 / Wiring diagram:

01.390

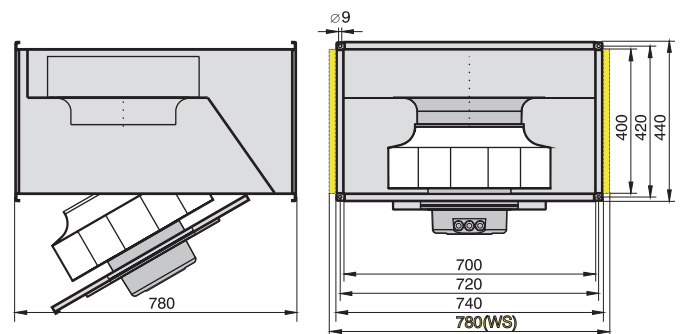


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)



EC-管道风机 / EC-Duct Fans

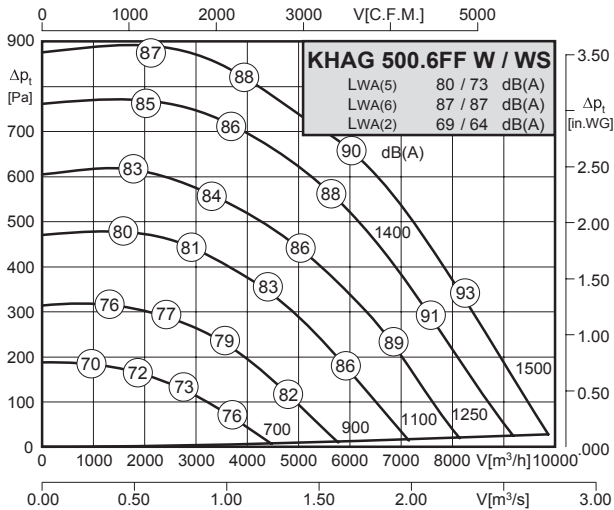
尺寸 / Size: 500



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- compact and space saving design

技术参数 / Technical Data:



AC型号的节能率达到: /
Energy saving rate
 according to AC type up to:
35%*

* 在速度控制部分负荷范围

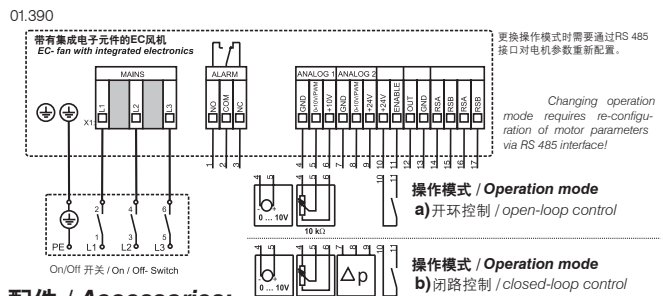
* at speed controlled partial load range

型号：KHAG 500.6FF W/WS		货号：D15-50000 / D15-50010	
U	400V (50Hz)	$\Delta p_{fa \min}$	-- Pa
P ₁	2.0 kW	ΔI	-- %
I _N	3.1 A	I _A / I _N	--
n	1500 min ⁻¹		IP54
C _{400V}	-- μF		01.390 a)
t _R	40 °C		78 kg

声级 / Sound levels:

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA ₂ [dB(A)] 外壳 / casing	-10	-3	-7	-8	-11	-17	-25
LWA ₅ [dB(A)] 进风口侧 / inlet side	-20	-9	-5	-6	-7	-13	-22
LWA ₆ [dB(A)] 出风口侧 / outlet side	-19	-9	-7	-4	-7	-13	-23

接线图 / Wiring diagram:

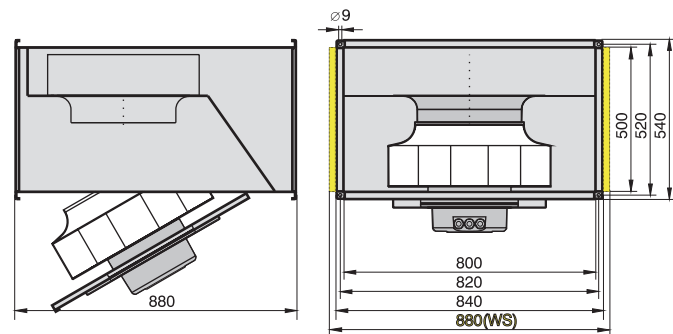


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)

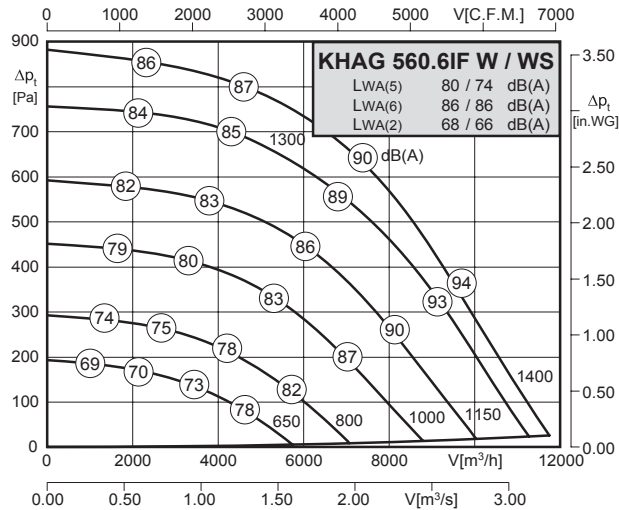




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- compact and space saving design

技术参数 / Technical Data:



AC型号的节能率达到: /
Energy saving rate
according to AC type up to:
35%*

* 在速度控制部分负荷范围

* at speed controlled partial load range

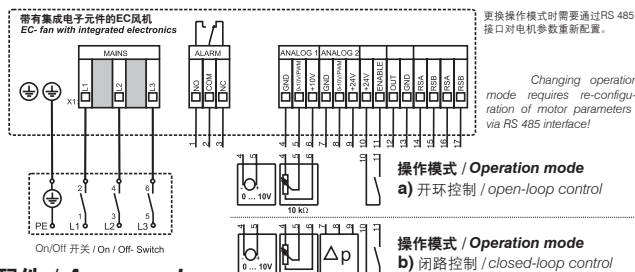
型号 : KHAG 560.6IF W/WS		货号 : D15-56000 / D15-56011	
U	400V (50Hz)	Δp _{fa min}	-- Pa
P ₁	2.4 kW	ΔI	-- %
I _N	3.8 A	I _A / I _N	--
n	1400 min ⁻¹	⚠	IP54
C _{400V}	-- μF	⚡	01.390 a)
t _R	50 °C	🔋	91 kg

声级 / Sound levels:

在 V = 0.5 * V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5 * V _{max}	f [Hz]						
	125	250	500	1K	2K	4K	8K
LWA ₂ [dB(A)] 外壳 / casing	-6	-5	-8	-12	-19	-26	-29
LWA ₅ [dB(A)] 进风口侧 / inlet side	-11	-9	-8	-7	-7	-10	-17
LWA ₆ [dB(A)] 出风口侧 / outlet side	-15	-9	-7	-4	-8	-13	-22

接线图 / Wiring diagram:

01.390

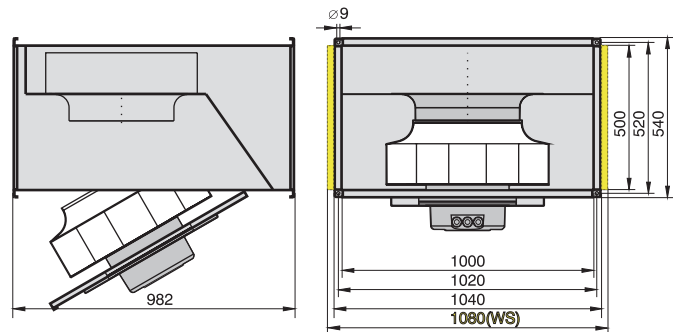


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)



管道风机（后弯曲线型） / Duct Fans (backward curved)

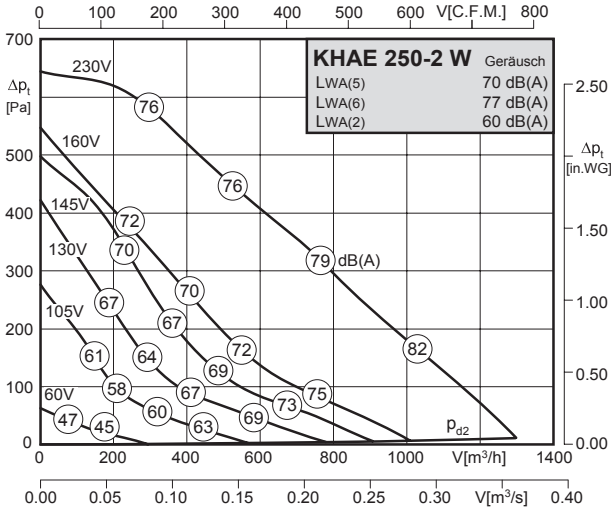
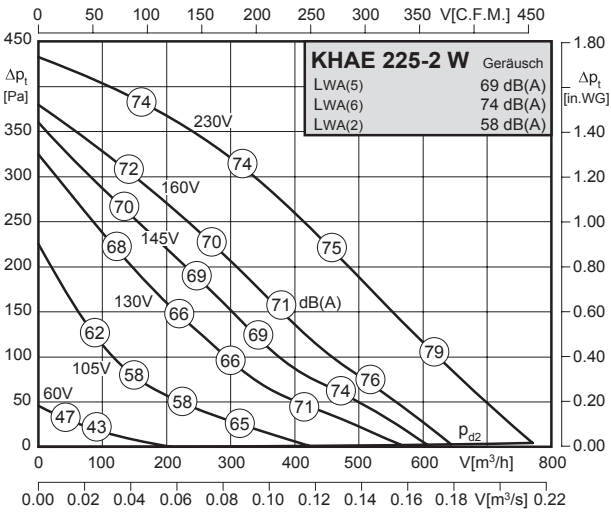
尺寸 / Size: 225/250



- 易于安装（DIN标准法兰）
- 后弯曲叶轮
- 可安装在任何位置
- 结构紧凑、节省空间的设计
- 绝缘等级为F级
- 非常低的启动电流
- 热触点电机保护
- 通过自耦变压器调节速度

- easy installation (DIN standard flange)
- backward curved impeller
- can be installed in any position
- compact and space saving design
- insulation class F
- extremely low starting current
- motor protection by thermal contacts
- speed is variable using auto transformers

技术参数 / Technical Data:



型号 / Type : KHAE 225-2 W		货号 Art.-No. : D14-22500	
U	230V (50Hz)	Δpfa min	-- Pa
P1	0.12 kW	ΔI	8 %
IN	0.52 A	IA / IN	1.8
n	2640 min-1	▲	IP44
C400V	3 μF	★	01.009
tR	50 °C	■	12,5 kg

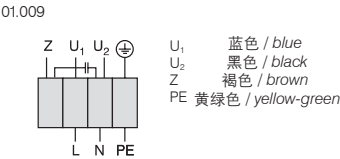
型号 / Type : KHAE 250-2 W		货号 Art.-No. : D14-25000	
U	230V (50Hz)	Δpfa min	-- Pa
P1	0.24 kW	ΔI	2 %
IN	1.04 A	IA / IN	1.6
n	2410 min-1	▲	IP44
C400V	5 μF	★	01.009
tR	45 °C	■	14 kg

声级 / Sound levels:

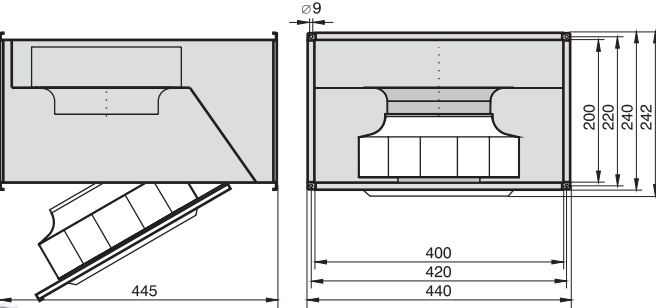
在 V = 0.5*Vmax 下的 LWArel A 加权值 LWArel A-weighted at V=0.5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	-11	-4	-5	-10	-14	-20	-22
LWA5 [dB(A)] 进风口侧 / inlet side	-16	-6	-9	-5	-7	-12	-21
LWA6 [dB(A)] 出风口侧 / outlet side	-23	-10	-5	-8	-6	-11	-21

在 V = 0.5*Vmax 下的 LWArel A 加权值 LWArel A-weighted at V=0.5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	-13	-7	-4	-7	-12	-18	-20
LWA5 [dB(A)] 进风口侧 / inlet side	-17	-7	-8	-4	-8	-10	-16
LWA6 [dB(A)] 出风口侧 / outlet side	-24	-13	-4	-6	-5	-10	-17

接线图 / Wiring diagram:



尺寸 / Dimensions: (所有尺寸单位为mm / all dimensions in mm)



配件 / Accessories:

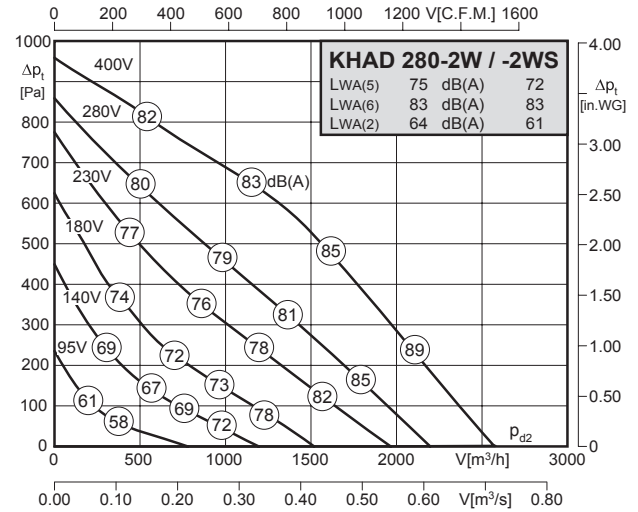
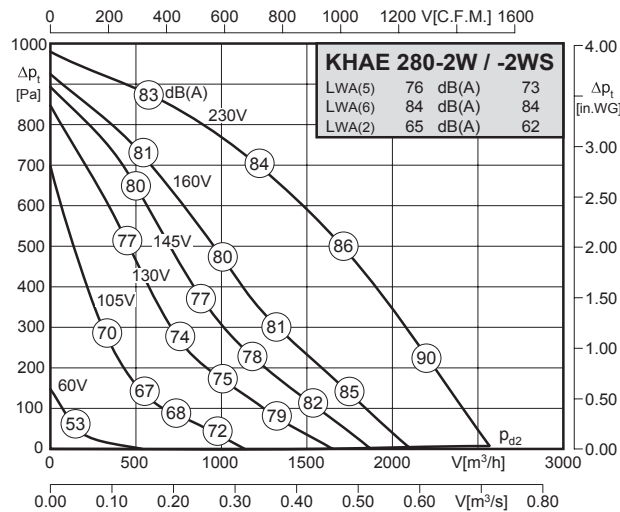




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- can be installed in any position
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- insulation class F
- extremely low starting current
- motor protection by thermal contacts
- speed is variable using auto transformers

技术参数 / Technical Data:



型号 / Type : KHAE 280-2 W(S)	货号Art.-No. : D14-28000 / D14-28010
U 230V (50Hz)	$\Delta p_{fa \min}$ -- Pa
P ₁ 0.73 kW	ΔI 16 %
I _N 3.2 A	I _A / I _N 2.1
n 2580 min ⁻¹	IP54
C _{400V} 14 μ F	01.024
t _R 60 °C	23,5 / 26,5 kg

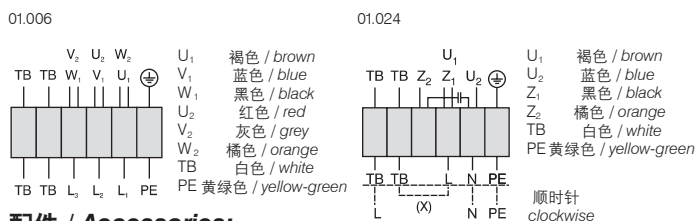
型号 / Type : KHAD 280-2 W(S)	货号Art.-No. : D14-28050 / D14-28060
U 400V (50Hz)	$\Delta p_{fa \min}$ -- Pa
P ₁ 0.62 kW	ΔI 4 %
I _N 1.0 A	I _A / I _N 2.5
n 2440 min ⁻¹	IP54
C _{400V} -- μ F	01.006
t _R 65 °C	21,5 / 24,5 kg

声级 / Sound levels:

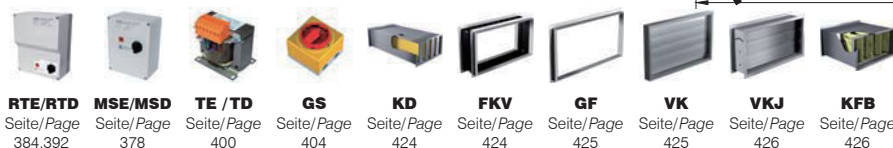
在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA ₂ [dB(A)] 外壳 / casing	-12	-1	-6	-10	-15	-20	-26
LWA ₅ [dB(A)] 进风口侧 / inlet side	-19	-4	-6	-5	-8	-13	-21
LWA ₆ [dB(A)] 出风口侧 / outlet side	-26	-7	-5	-6	-6	-13	-22

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA ₂ [dB(A)] 外壳 / casing	-12	-1	-6	-10	-15	-20	-26
LWA ₅ [dB(A)] 进风口侧 / inlet side	-19	-4	-6	-5	-8	-13	-21
LWA ₆ [dB(A)] 出风口侧 / outlet side	-26	-7	-5	-6	-6	-13	-22

接线图 / Wiring diagram:



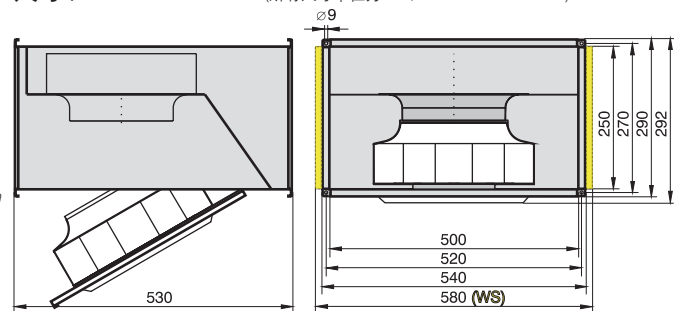
配件 / Accessories:



RTE/RTD	MSE/MSD	TE/TD	GS	KD	FKV	GF	VK	VKJ	KFB
Seite/Page 384,392	Seite/Page 378	Seite/Page 400	Seite/Page 404	Seite/Page 424	Seite/Page 424	Seite/Page 425	Seite/Page 425	Seite/Page 426	Seite/Page 426

尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)



管道风机（后弯曲线） / Duct Fans (backward curved)

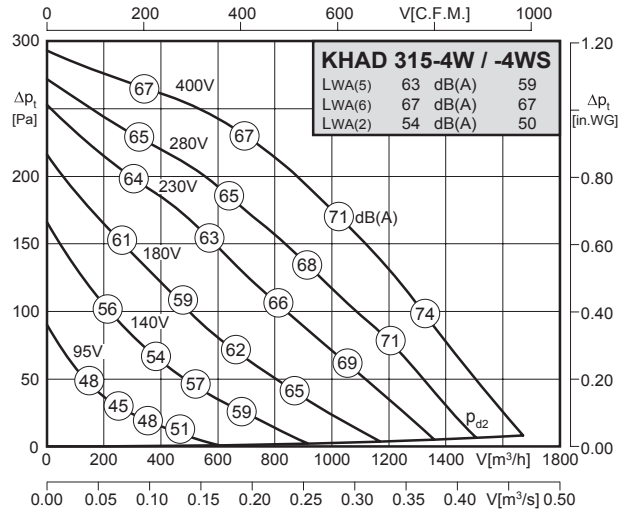
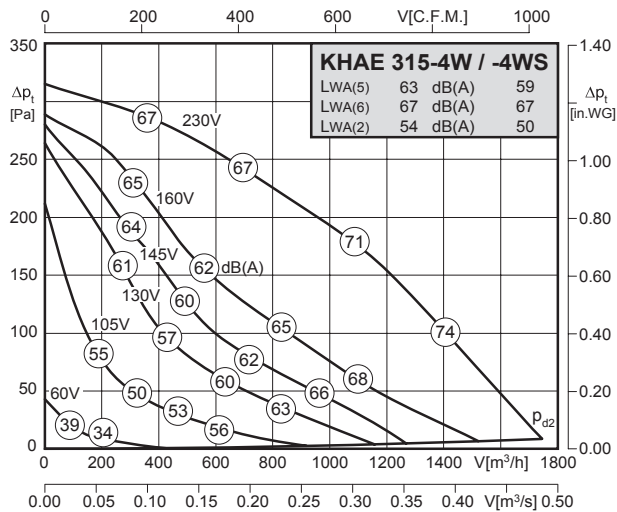
尺寸 / Size: 315



- 易于安装（DIN标准法兰）
- 后弯曲线叶轮
- 可安装在任何位置
- 结构紧凑、节省空间的设计
- 绝缘等级为F级
- 非常低的启动电流
- 热触点电机保护
- 通过自耦变压器调节速度

- easy installation (DIN standard flange)
- backward curved impeller
- can be installed in any position
- compact and space saving design
- insulation class F
- extremely low starting current
- motor protection by thermal contacts
- speed is variable using auto transformers

技术参数 / Technical Data:



型号 / Type	KHAE 315-4 W(S)	货号 Art.-No.	D14-31500 / D14-31510
U	230V (50Hz)	Δp1a min	-- Pa
P1	0.165 kW	ΔI	4 %
IN	0.73 A	IA / IN	1.9
n	1325 min-1	⚠	IP54
C400V	4 μF	⚡	01.024
tR	50 °C	🔥	20 / 23 kg

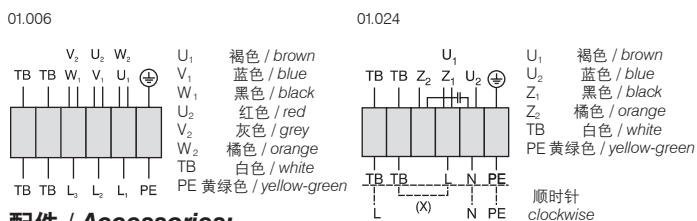
型号 / Type	KHAD 315-4 W(S)	货号 Art.-No.	D14-31550 / D14-31560
U	400V (50Hz)	Δp1a min	-- Pa
P1	0.15 kW	ΔI	-- %
IN	0.33 A	IA / IN	2.8
n	1340 min-1	⚠	IP54
C400V	-- μF	⚡	01.006
tR	70 °C	🔥	20 / 23 kg

声级 / Sound levels:

在 V = 0.5*Vmax 下的 LWArel A 加权值 LWArel A-weighted at V=0,5*Vmax	f [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	-5	-3	-11	-12	-14	-19	-27
LWA5 [dB(A)] 进风口侧 / inlet side	-8	-7	-6	-6	-9	-16	-28
LWA6 [dB(A)] 出风口侧 / outlet side	-15	-7	-5	-5	-6	-14	-21

在 V = 0.5*Vmax 下的 LWArel A 加权值 LWArel A-weighted at V=0,5*Vmax	f [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	-5	-3	-11	-12	-14	-19	-27
LWA5 [dB(A)] 进风口侧 / inlet side	-8	-7	-6	-6	-9	-16	-28
LWA6 [dB(A)] 出风口侧 / outlet side	-15	-7	-5	-5	-6	-14	-21

接线图 / Wiring diagram:

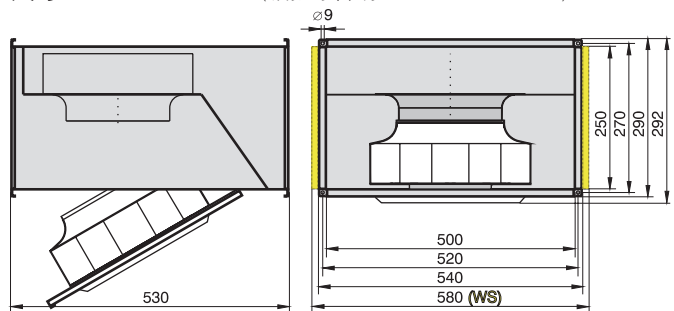


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)

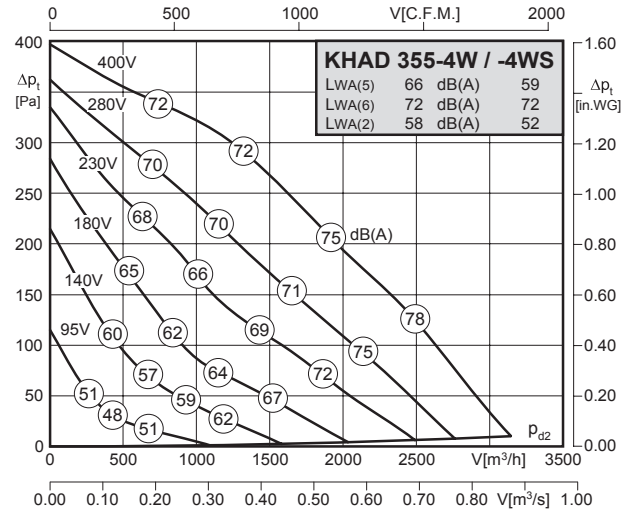
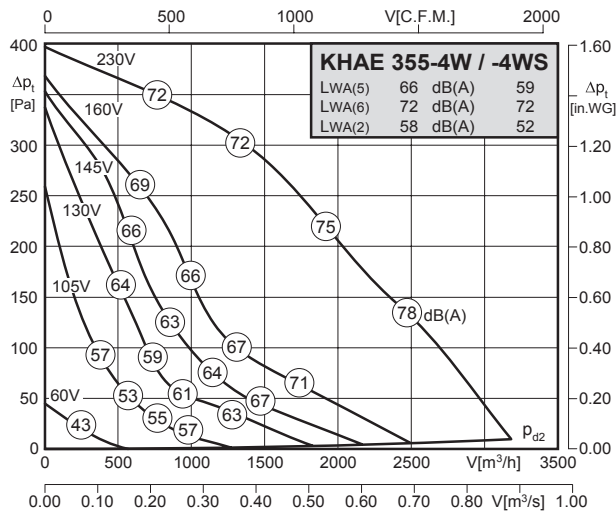




- 易于安装 (DIN标准法兰)
- 后弯曲叶轮
- 可安装在任何位置
- 结构紧凑、节省空间的设计
- 绝缘等级为F级
- 非常低的启动电流
- 热触点电机保护
- 通过自耦变压器调节速度

- easy installation (DIN standard flange)
- backward curved impeller
- can be installed in any position
- compact and space saving design
- insulation class F
- extremely low starting current
- motor protection by thermal contacts
- speed is variable using auto transformers

技术参数 / Technical Data:



型号 / Type	货号 Art.-No.
型号 / Type : KHAE 355-4 W(S)	货号 Art.-No. : D14-35500 / D14-35510
U	230V (50Hz)
P ₁	0.32 kW
I _N	1.45 A
n	1300 min ⁻¹
C _{400V}	6 μF
t _R	40 °C

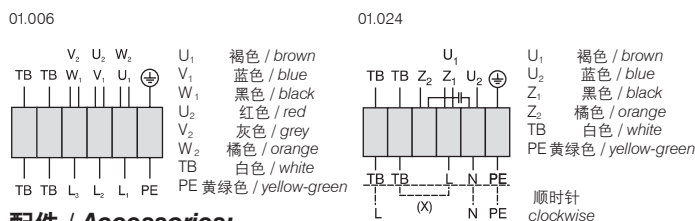
型号 / Type	货号 Art.-No.
型号 / Type : KHAD 355-4 W(S)	货号 Art.-No. : D14-35550 / D14-35560
U	400V (50Hz)
P ₁	0.29 kW
I _N	0.55 A
n	1300 min ⁻¹
C _{400V}	-- μF
t _R	60 °C

声级 / Sound levels:

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	f [Hz]						
	125	250	500	1K	2K	4K	8K
LWA ₂ [dB(A)] 外壳 / casing	-4	-5	-12	-12	-15	-21	-27
LWA ₅ [dB(A)] 进风口侧 / inlet side	-11	-5	-9	-9	-7	-11	-20
LWA ₆ [dB(A)] 出风口侧 / outlet side	-10	-9	-6	-5	-6	-13	-22

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	f [Hz]						
	125	250	500	1K	2K	4K	8K
LWA ₂ [dB(A)] 外壳 / casing	-4	-5	-12	-12	-15	-21	-27
LWA ₅ [dB(A)] 进风口侧 / inlet side	-11	-5	-9	-9	-7	-11	-20
LWA ₆ [dB(A)] 出风口侧 / outlet side	-10	-9	-6	-5	-6	-13	-22

接线图 / Wiring diagram:

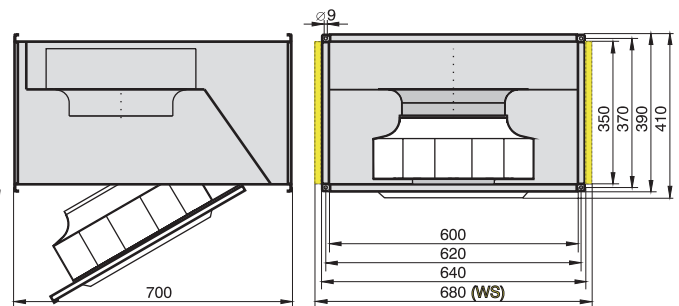


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)

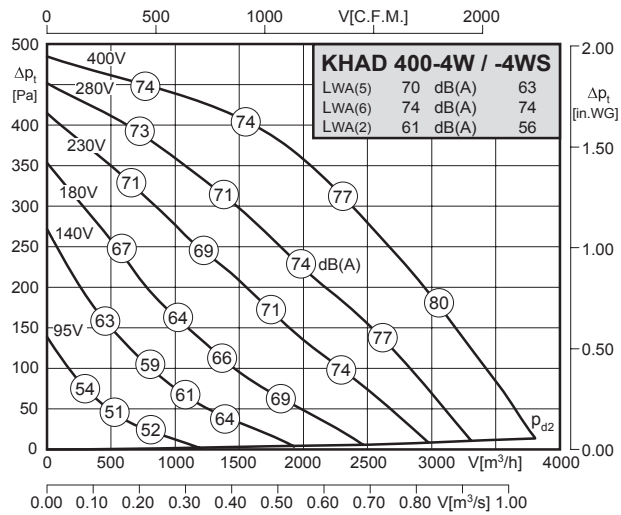
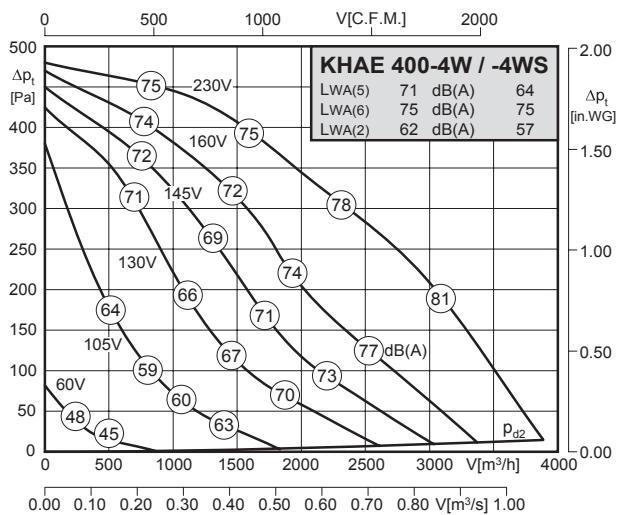




- 易于安装 (DIN标准法兰)
- 后弯曲叶轮
- 可安装在任何位置
- 结构紧凑、节省空间的设计
- 绝缘等级为F级
- 非常低的启动电流
- 热触点电机保护
- 通过自耦变压器调节速度

- *easy installation (DIN standard flange)*
- *backward curved impeller*
- *can be installed in any position*
- *compact and space saving design*
- *insulation class F*
- *extremely low starting current*
- *motor protection by thermal contacts*
- *speed is variable using auto transformers*

技术参数 / Technical Data:



型号 / Type : KHAE 400-4 W(S)		货号 Art.-No. D14-4 0000 / D14-40010	
U	230V (50Hz)	$\Delta p_{\text{ta min}}$	-- Pa
P ₁	0.54 kW	ΔI	12 %
I _N	2.60 A	I _A / I _N	2.5
n	1370 min ⁻¹		IP54
C _{400V}	12 μF		01.024
t _R	45 °C		35 / 38 kg

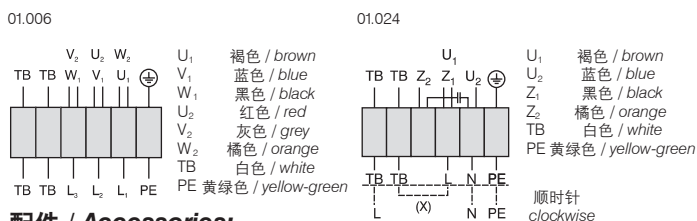
型号 / Type : KHAD 400-4 W(S)		货号 Art.-No. : D14-40050 / D14-40060	
U	400V (50Hz)	$\Delta p_{\text{fA min}}$	-- Pa
P ₁	0.49 kW	ΔI	10 %
I _N	0.90 A	I _A / I _N	3.2
n	1310 min ⁻¹		IP54
C _{400V}	-- μF		01.006
t _R	40 °C		33 / 36 kg

声级 / Sound levels:

在 $V = 0.5 \times V_{\max}$ 下的 LWArel A 加权值 LWArel A-weighted at $V = 0.5 \times V_{\max}$	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	-4	-3	-11	-13	-18	-21	-28
LWA5 [dB(A)] 进风口侧 / inlet side	-7	-5	-11	-9	-8	-12	-20
LWA6 [dB(A)] 出风口侧 / outlet side	-10	-8	-7	-6	-7	-11	-21

在 $V = 0.5 \cdot V_{\max}$ 下的 LWArel A 加权值 LWArel A-weighted at $V = 0.5 \cdot V_{\max}$	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	-4	-3	-11	-13	-18	-21	-28
LWA5 [dB(A)] 进风口侧 / inlet side	-7	-5	-11	-9	-8	-12	-20
LWA6 [dB(A)] 出风口侧 / outlet side	-10	-8	-7	-6	-7	-11	-21

接线图 / Wiring diagram:

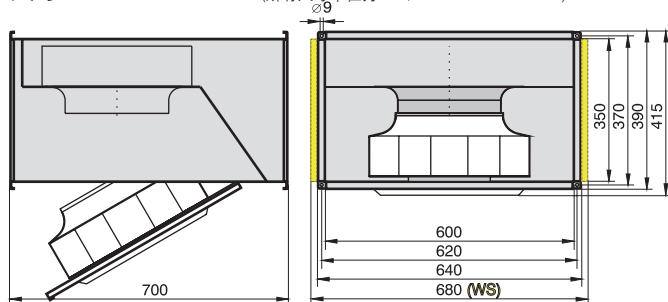


配件 / Accessories:



RTE/RTD	MSE/MSD	TE /TD	GS	KD	FKV	GF	VK	VKJ	KFB
Seite/Page	Seite/Page	Seite/Page	Seite/Page	Seite/Page	Seite/Page	Seite/Page	Seite/Page	Seite/Page	Seite/Page
384,392	378	400	404	424	424	425	425	426	426

尺寸 / Dimensions: (所有尺寸单位为mm / all dimensions in mm)

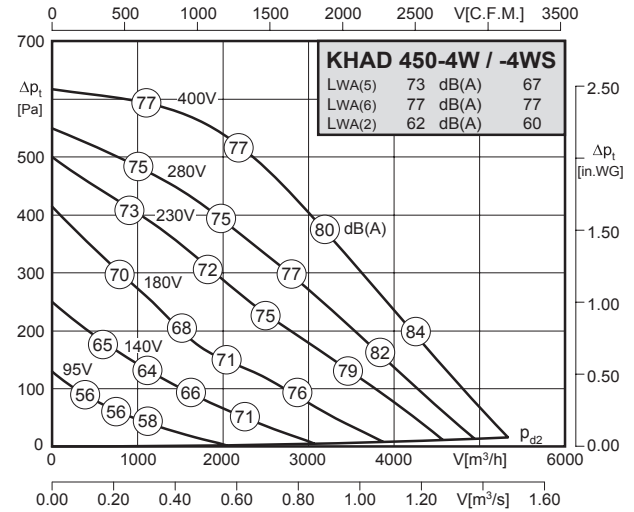
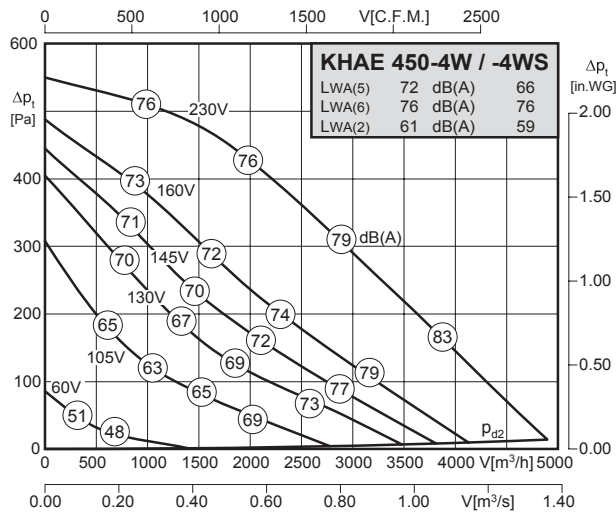




- 易于安装（DIN标准法兰）
- 后弯曲线叶轮
- 可安装在任何位置
- 结构紧凑、节省空间的设计
- 绝缘等级为F级
- 非常低的启动电流
- 热触点电机保护
- 通过自耦变压器调节速度

- easy installation (DIN standard flange)
- backward curved impeller
- can be installed in any position
- compact and space saving design
- insulation class F
- extremely low starting current
- motor protection by thermal contacts
- speed is variable using auto transformers

技术参数 / Technical Data:



型号 / Type	货号 Art.-No.
KHAE 450-4 W(S)	D14-45000 / D14-45010
U	230V (50Hz)
P ₁	0.71 kW
I _N	3.25 A
n	1265 min ⁻¹
C _{400V}	16 μF
t _R	50 °C

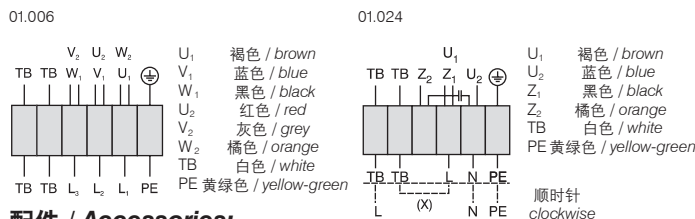
型号 / Type	货号 Art.-No.
KHAD 450-4 W(S)	D14-45050 / D14-45060
U	400V (50Hz)
P ₁	0.78 kW
I _N	1.55 A
n	1355 min ⁻¹
C _{400V}	-- μF
t _R	55 °C

声级 / Sound levels:

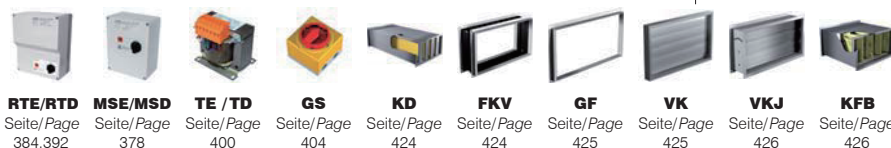
在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	f [Hz]						
	125	250	500	1K	2K	4K	8K
LWA ₂ [dB(A)] 外壳 / casing	-7	-4	-8	-11	-15	-20	-27
LWA ₅ [dB(A)] 进风口侧 / inlet side	-14	-9	-3	-7	-8	-14	-22
LWA ₆ [dB(A)] 出风口侧 / outlet side	-15	-9	-7	-5	-8	-13	-23

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	f [Hz]						
	125	250	500	1K	2K	4K	8K
LWA ₂ [dB(A)] 外壳 / casing	-7	-4	-8	-11	-15	-20	-27
LWA ₅ [dB(A)] 进风口侧 / inlet side	-14	-9	-3	-7	-8	-14	-22
LWA ₆ [dB(A)] 出风口侧 / outlet side	-15	-9	-7	-5	-8	-13	-23

接线图 / Wiring diagram:

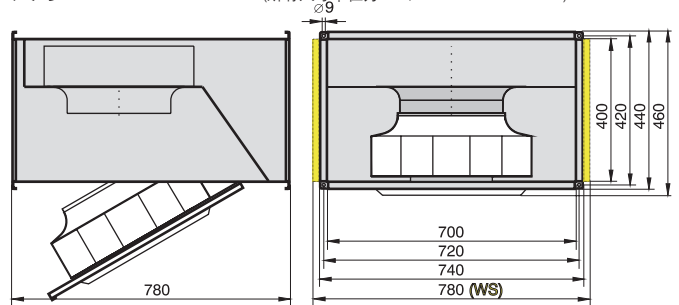


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)



管道风机（后弯曲线） / Duct Fans (backward curved)

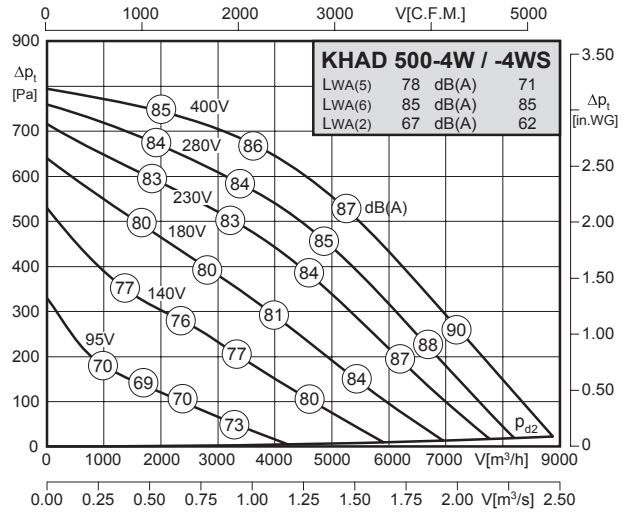
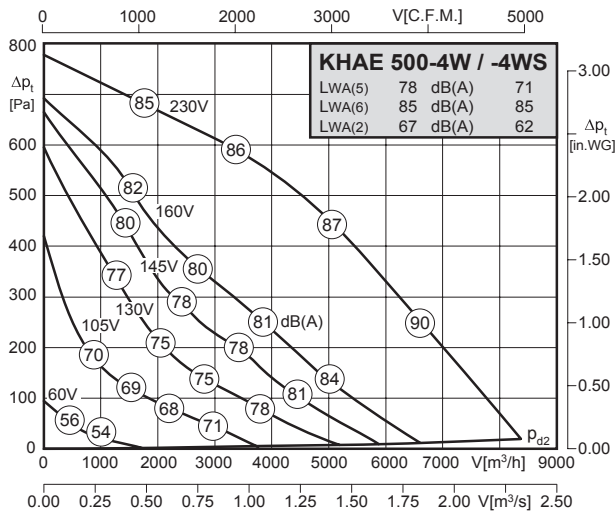
尺寸 / Size: 500



- 易于安装（DIN标准法兰）
- 后弯曲线叶轮
- 可安装在任何位置
- 结构紧凑、节省空间的设计
- 绝缘等级为F级
- 非常低的启动电流
- 热触点电机保护
- 通过自耦变压器调节速度

- easy installation (DIN standard flange)
- backward curved impeller
- can be installed in any position
- compact and space saving design
- insulation class F
- extremely low starting current
- motor protection by thermal contacts
- speed is variable using auto transformers

技术参数 / Technical Data:



型号 / Type	KHAE 500-4 W(S)	货号Art.-No. : D14-50000 / D14-50010
U	230V (50Hz)	$\Delta p_{fa \text{ min}}$ -- Pa
P ₁	1.62 kW	ΔI 8 %
I _N	7.30 A	I _A / I _N 2.2
n	1300 min ⁻¹	IP54
C _{400V}	30 µF	01.024
t _R	40 °C	69 / 72 kg

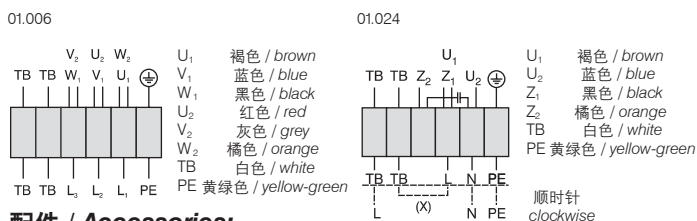
型号 / Type	KHAD 500-4 W(S)	货号Art.-No. : D14-50050 / D14-50060
U	400V (50Hz)	$\Delta p_{fa \text{ min}}$ -- Pa
P ₁	1.70 kW	ΔI 9.5 %
I _N	3.50 A	I _A / I _N 4.3
n	1390 min ⁻¹	IP54
C _{400V}	– µF	01.006
t _R	55 °C	69 / 72 kg

声级 / Sound levels:

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0,5*V _{max}	f [Hz]						
	125	250	500	1K	2K	4K	8K
LWA ₂ [dB(A)] 外壳 / casing	-10	-3	-7	-8	-11	-17	-25
LWA ₅ [dB(A)] 进风口侧 / inlet side	-20	-9	-5	-6	-7	-13	-22
LWA ₆ [dB(A)] 出风口侧 / outlet side	-19	-9	-7	-4	-7	-13	-23

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0,5*V _{max}	f [Hz]						
	125	250	500	1K	2K	4K	8K
LWA ₂ [dB(A)] 外壳 / casing	-10	-3	-7	-8	-11	-17	-25
LWA ₅ [dB(A)] 进风口侧 / inlet side	-20	-9	-5	-6	-7	-13	-22
LWA ₆ [dB(A)] 出风口侧 / outlet side	-19	-9	-7	-4	-7	-13	-23

接线图 / Wiring diagram:

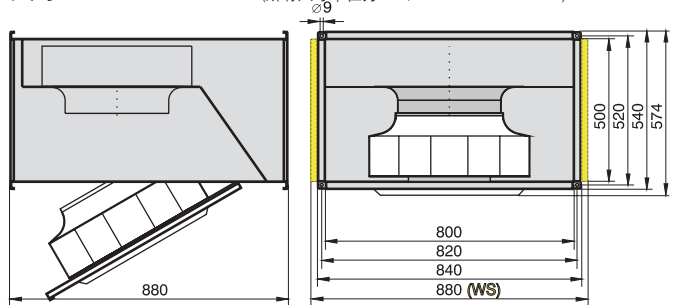


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)

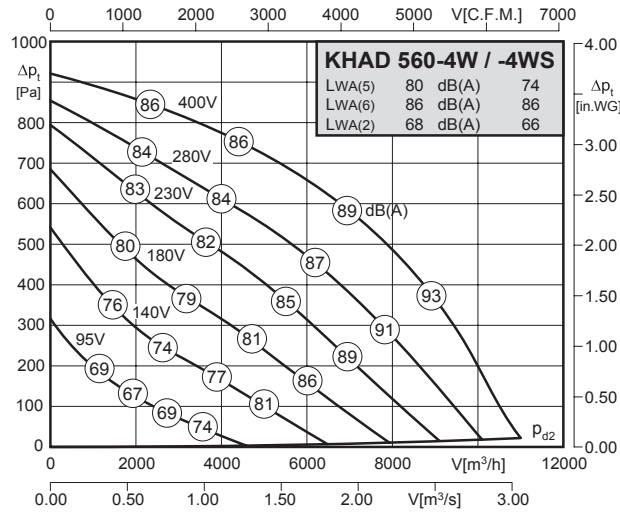




- 易于安装（DIN标准法兰）
- 后弯曲线叶轮
- 可安装在任何位置
- 结构紧凑、节省空间的设计
- 绝缘等级为F级
- 非常低的启动电流
- 热触点电机保护
- 通过自耦变压器调节速度

- easy installation (DIN standard flange)
- backward curved impeller
- can be installed in any position
- compact and space saving design
- insulation class F
- extremely low starting current
- motor protection by thermal contacts
- speed is variable using auto transformers

技术参数 / Technical Data:



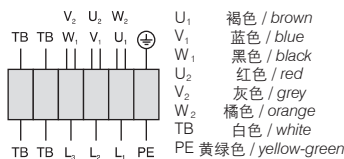
型号 / Type	货号 Art.-No.
KHAD 560-4 W(S)	D14-56050 / D14-56060
U 400V (50Hz)	Δpfa min -- Pa
P1 2.40 kW	ΔI 6 %
IN 4.50 A	IA / IN 4.2
n 1340 min-1	IP54
C400V -- μF	01.006
tR 45 °C	96 kg

声级 / Sound levels:

在 V = 0.5 * Vmax 下的 LWArel A 加权值 LWArel A-weighted at V=0.5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
LWA2 [dB(A)] 外壳 / casing	-6	-5	-8	-12	-19	-26	-29
LWA5 [dB(A)] 进风口侧 / inlet side	-11	-9	-8	-7	-7	-10	-17
LWA6 [dB(A)] 出风口侧 / outlet side	-15	-9	-7	-4	-8	-13	-22

接线图 / Wiring diagram:

01.006

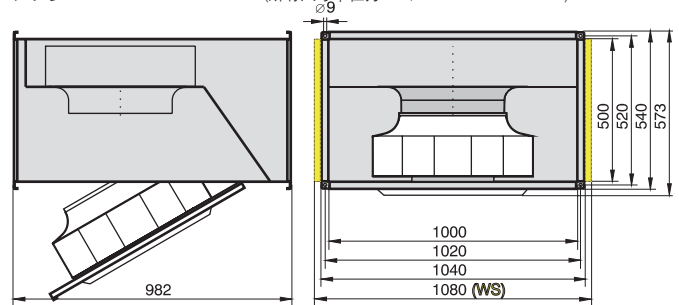


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)



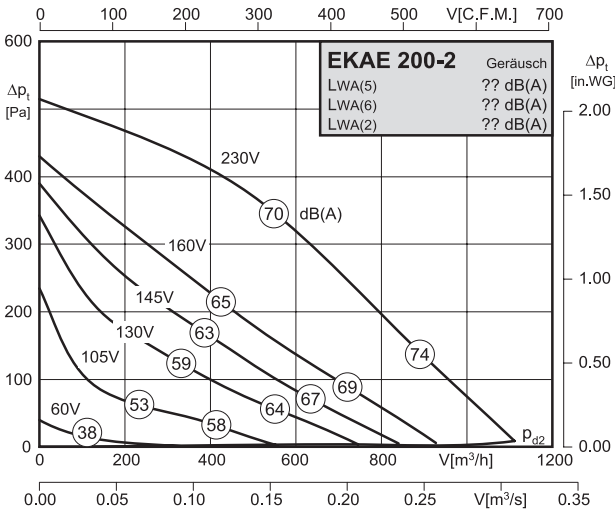
管道风机（前弯曲线型） / Duct Fans (forward curved)

尺寸 / Size: 200



- 易于安装（DIN标准法兰）
 - 前弯曲线型叶轮
 - 可安装在任何位置
 - 结构紧凑、节省空间的设计
 - 绝缘等级为F级
 - 非常低的启动电流
 - 热触点电机保护
 - 通过自耦变压器调节速度
- easy installation (DIN standard flange)
 - forward curved impeller
 - can be installed in any position
 - compact and space saving design
 - insulation class F
 - extremely low starting currents
 - motor protection by thermal contacts
 - speed is variable using auto transformers

技术参数 / Technical Data:

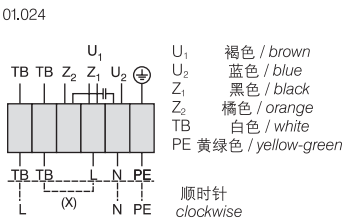


型号 / Type : EKA 200-2		货号 Art.-Nr. / Art.-No. : D00-20003	
U	230V (50Hz)	Δp0a min	- Pa
P1	0.17 kW	ΔI	- %
IN	0.76 A	IA / IN	1.8
n	2530 min-1	⚠	IP44
C400V	5 μF	⚡	01.024
tR	60 °C	🔥	9,5 kg

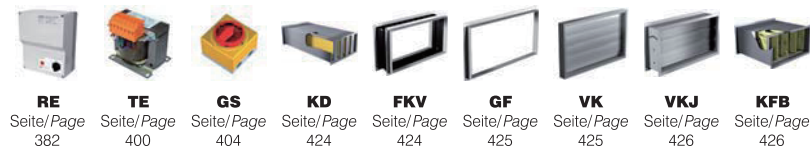
声级 / Sound levels:

在 V = 0.5*Vmax 下的 LWArel A 加权值 LWArel A-weighted at V = 0.5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
外壳 4-极 / casing 4-pole	-5	-7	-9	-7	-12	-17	-24
进风口侧 4-极 / inlet side 4-pole	-13	-15	-6	-5	-7	-9	-18
出风口侧 4-极 / outlet side 4-pole	-16	-14	-8	-5	-6	-7	-17

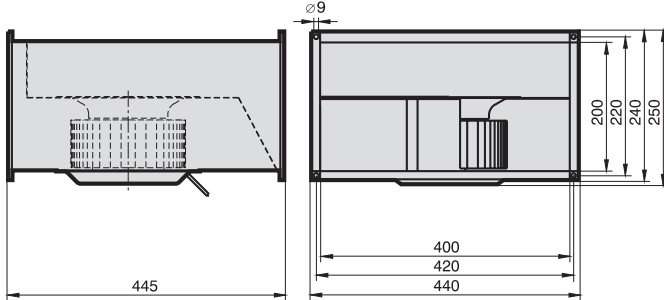
接线图 / Wiring diagram:



配件 / Accessories:



尺寸 / Dimensions: (所有尺寸单位为mm / all dimensions in mm)

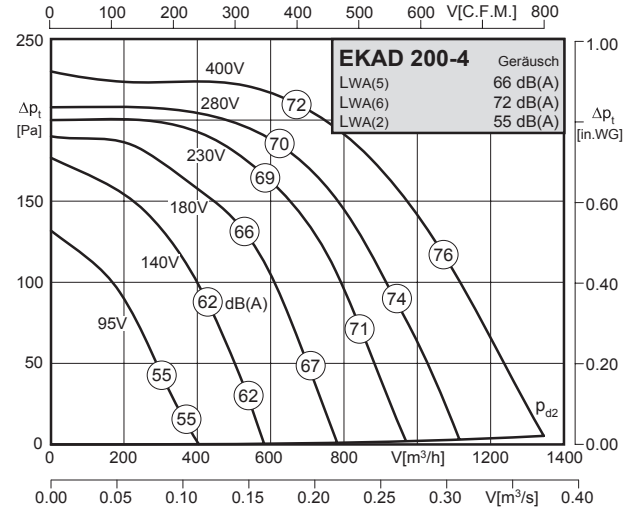
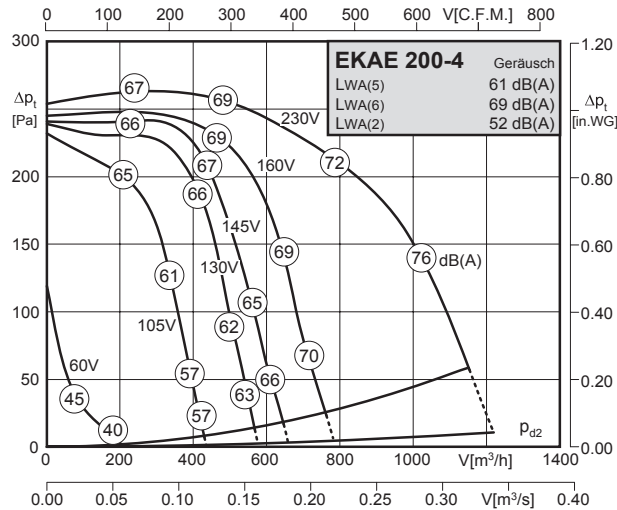




- 易于安装（DIN标准法兰）
- 前弯曲叶轮
- 可安装在任何位置
- 结构紧凑、节省空间的设计
- 绝缘等级为F级
- 非常低的启动电流
- 热触点电机保护
- 通过自耦变压器调节速度

- easy installation (DIN standard flange)
- forward curved impeller
- can be installed in any position
- compact and space saving design
- insulation class F
- extremely low starting currents
- motor protection by thermal contacts
- speed is variable using auto transformers

技术参数 / Technical Data:



型号 / Type : EKAE 200-4	货号 Art.-Nr. / Art.-No. : D00-20000
U 230V (50Hz)	Δp _{fa min} 50 Pa
P ₁ 0.29 kW	ΔI 10 %
I _N 1.25 A	I _A / I _N 1.8
n 1260 min ⁻¹	△ IP54
C _{400V} 6 μF	☆ 01.024
t _R 50 °C	13 kg

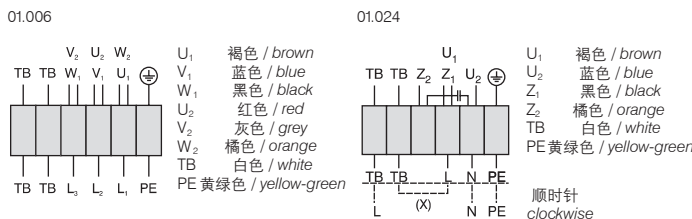
型号 / Type : EKAD 200-4	货号 Art.-Nr. / Art.-No. : D00-20050
U 400V (50Hz)	Δp _{fa min} -- Pa
P ₁ 0.33 kW	ΔI -- %
I _N 0.61 A	I _A / I _N 2.0
n 1270 min ⁻¹	△ IP54
C _{400V} -- μF	☆ 01.006
t _R 60 °C	13 kg

声级 / Sound levels:

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	fM [Hz]						
	125	250	500	1K	2K	4K	8K
外壳 4-极 / casing 4-pole	-5	-7	-9	-7	-12	-17	-24
进风口侧 4-极 / inlet side 4-pole	-13	-15	-6	-5	-7	-9	-18
出风口侧 4-极 / outlet side 4-pole	-16	-14	-8	-5	-6	-7	-17

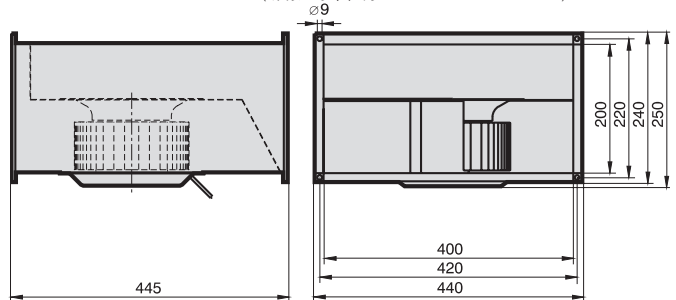
在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	fM [Hz]						
	125	250	500	1K	2K	4K	8K
外壳 4-极 / casing 4-pole	-5	-7	-9	-7	-12	-17	-24
进风口侧 4-极 / inlet side 4-pole	-13	-15	-6	-5	-7	-9	-18
出风口侧 4-极 / outlet side 4-pole	-16	-14	-8	-5	-6	-7	-17

接线图 / Wiring diagram:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)



配件 / Accessories:



RTE/RTD	MSE/MSD	TE/TD	GS	KD	FKV	GF	VK	VKJ	KFB
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管道风机（前弯曲线） / Duct Fans (forward curved)

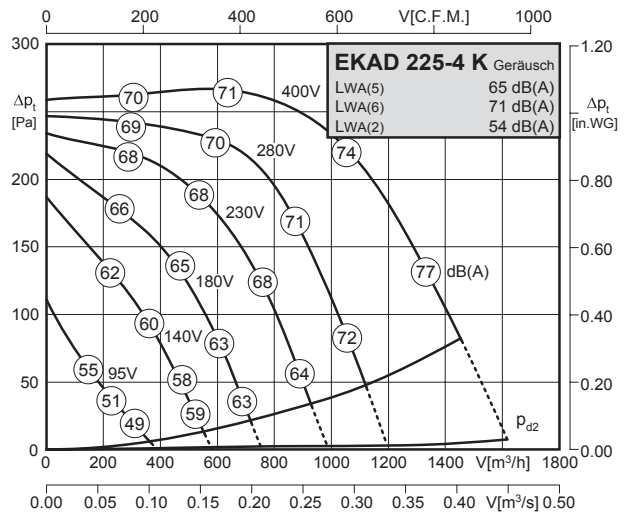
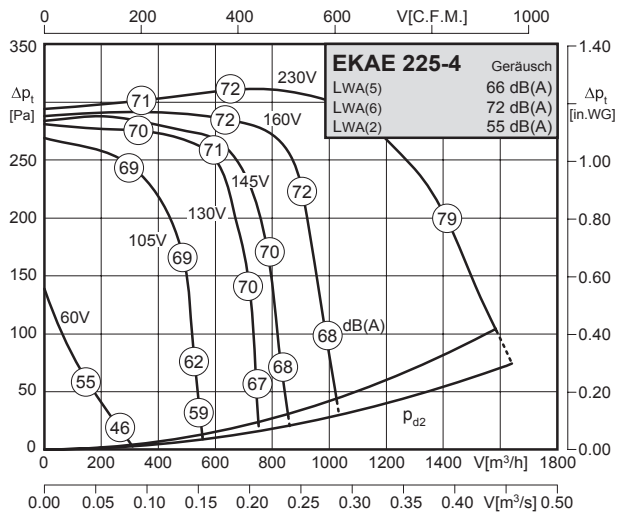
尺寸 / Size: 225



- 易于安装（DIN标准法兰）
- 前弯曲叶轮
- 可安装在任何位置
- 结构紧凑、节省空间的设计
- 绝缘等级为F级
- 非常低的启动电流
- 热触点电机保护
- 通过自耦变压器调节速度

- easy installation (DIN standard flange)
- forward curved impeller
- can be installed in any position
- compact and space saving design
- insulation class F
- extremely low starting currents
- motor protection by thermal contacts
- speed is variable using auto transformers

技术参数 / Technical Data:



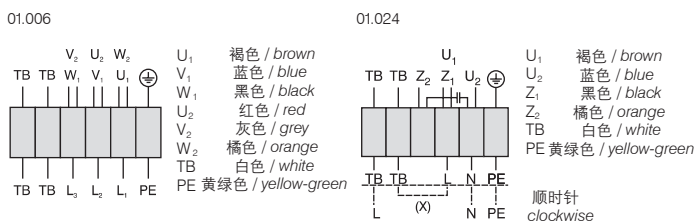
型号 / Type : EKAE 225-4	货号 Art.-Nr. / Art.-No. : D00-22500
U 230V (50Hz)	$\Delta p_{fa \min}$ 35 Pa
P ₁ 0.49 kW	ΔI 11 %
I _N 2.20 A	I _A / I _N 1.8
n 1220 min ⁻¹	IP54
C _{400V} 8 μ F	01.024
t _R 40 °C	19,5 kg

型号 / Type : EKAD 225-4 K	货号 Art.-Nr. / Art.-No. : D00-22550
U 400V (50Hz)	$\Delta p_{fa \min}$ 75 Pa
P ₁ 0.41 kW	ΔI -- %
I _N 0.68 A	I _A / I _N 2.0
n 1150 min ⁻¹	IP54
C _{400V} -- μ F	01.006
t _R 40 °C	18 kg

声级 / Sound levels:

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0,5*V _{max}	f [Hz]						
	125	250	500	1K	2K	4K	8K
外壳 4-极 / casing 4-pole	-5	-7	-9	-7	-12	-17	-24
进风口侧 4-极 / inlet side 4-pole	-13	-15	-6	-5	-7	-9	-18
出风口侧 4-极 / outlet side 4-pole	-16	-14	-8	-5	-6	-7	-17

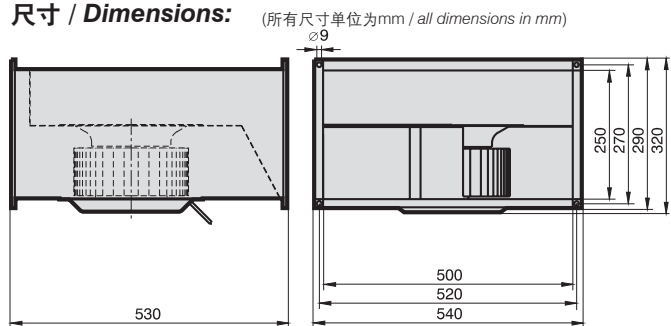
接线图 / Wiring diagram:



配件 / Accessories:



尺寸 / Dimensions:

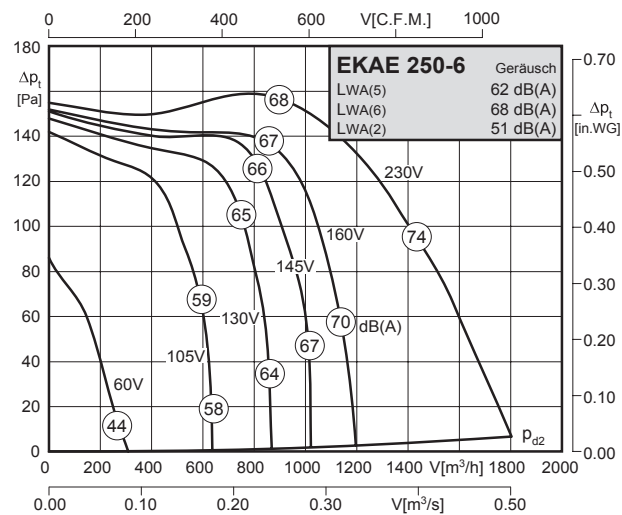
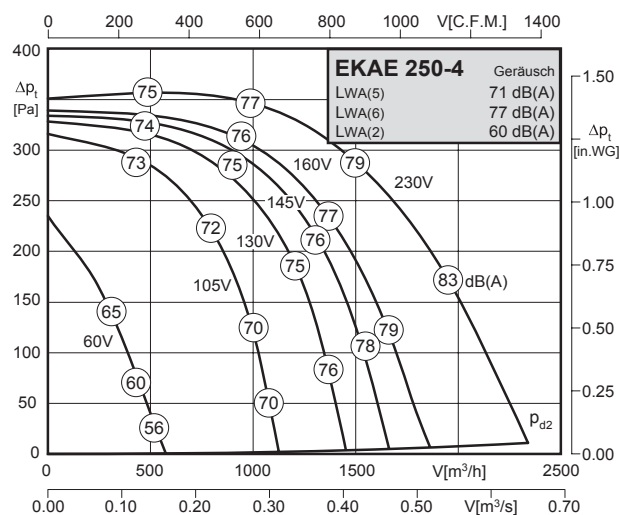




- 易于安装（DIN标准法兰）
- 前弯曲线叶轮
- 可安装在任何位置
- 结构紧凑、节省空间的设计
- 绝缘等级为F级
- 非常低的启动电流
- 热触点电机保护
- 通过自耦变压器调节速度

- easy installation (DIN standard flange)
- forward curved impeller
- can be installed in any position
- compact and space saving design
- insulation class F
- extremely low starting currents
- motor protection by thermal contacts
- speed is variable using auto transformers

技术参数 / Technical Data:



型号 / Type : EKA 250-4	货号 Art.-Nr. / Art.-No. : D00-25000
U 230V (50Hz)	Δpfa min -- Pa
P1 0.73 kW	ΔI 5 %
IN 3.3 A	IA / IN 1.8
n 1250 min-1	IP54
C400V 16 μF	01.024
tR 65 °C	25,5 kg

型号 / Type : EKA 250-6	货号 Art.-Nr. / Art.-No. : D00-25003
U 230V (50Hz)	Δpfa min -- Pa
P1 0.32 kW	ΔI -- %
IN 1.40 A	IA / IN 1.6
n 820 min-1	IP54
C400V 5 μF	01.024
tR 60 °C	24 kg

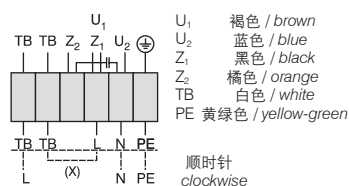
声级 / Sound levels:

在 V = 0.5*Vmax 下的 LWArel A 加权值 LWArel A-weighted at V=0.5*Vmax	f [Hz]						
	125	250	500	1K	2K	4K	8K
外壳 4-极 / casing 4-pole	-5	-7	-9	-7	-12	-17	-24
进风口侧 4-极 / inlet side 4-pole	-13	-15	-6	-5	-7	-9	-18
出风口侧 4-极 / outlet side 4-pole	-16	-14	-8	-5	-6	-7	-17

在 V = 0.5*Vmax 下的 LWArel A 加权值 LWArel A-weighted at V=0.5*Vmax	f [Hz]						
	125	250	500	1K	2K	4K	8K
外壳 4-极 / casing 4-pole	-10	-9	-4	-7	-9	-14	-21
进风口侧 4-极 / inlet side 4-pole	-17	-15	-7	-6	-6	-7	-14
出风口侧 4-极 / outlet side 4-pole	-22	-13	-7	-6	-5	-7	-15

接线图 / Wiring diagram:

01.024

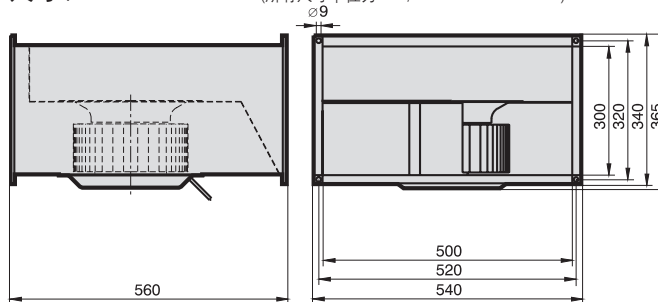


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为 mm / all dimensions in mm)

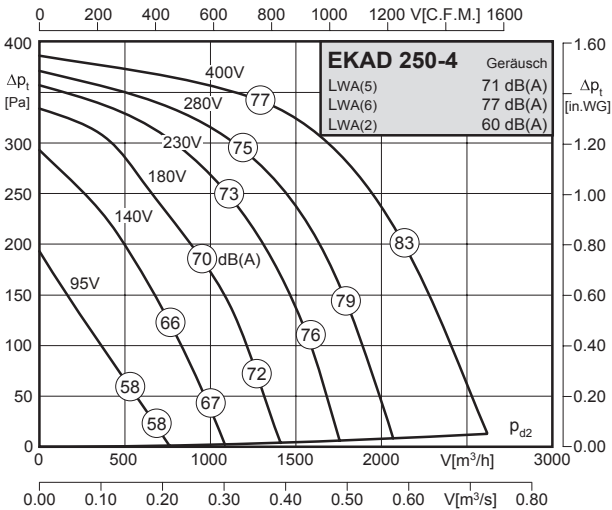


管道风机（前弯曲线） / Duct Fans (forward curved)
尺寸 / Size: 250



- 易于安装（DIN标准法兰）
 - 前弯曲线叶轮
 - 可安装在任何位置
 - 结构紧凑、节省空间的设计
 - 绝缘等级为F级
 - 非常低的启动电流
 - 热触点电机保护
 - 通过自耦变压器调节速度
- easy installation (DIN standard flange)
 - forward curved impeller
 - can be installed in any position
 - compact and space saving design
 - insulation class F
 - extremely low starting currents
 - motor protection by thermal contacts
 - speed is variable using auto transformers

技术参数 / Technical Data:

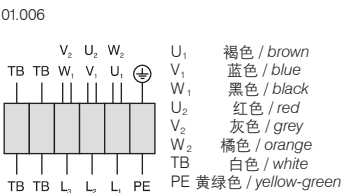


型号 / Type : EKAD 250-4		货号 Art.-Nr. / Art.-No. : D00-25050	
U	400V (50Hz)	ΔP _{la min}	-- Pa
P ₁	0.83 kW	ΔI	-- %
I _N	1.55 A	I _A / I _N	2.2
n	1210 min ⁻¹		IP54
C _{400V}	-- μF		01.006
t _R	40 °C		23,5 kg

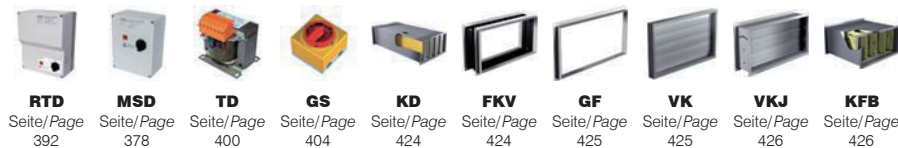
声级 / Sound levels:

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V = 0.5*V _{max}	fM [Hz]						
	125	250	500	1K	2K	4K	8K
外壳 4-极 / casing 4-pole	-5	-7	-9	-7	-12	-17	-24
进风口侧 4-极 / inlet side 4-pole	-13	-15	-6	-5	-7	-9	-18
出风口侧 4-极 / outlet side 4-pole	-16	-14	-8	-5	-6	-7	-17

接线图 / Wiring diagram:



配件 / Accessories:

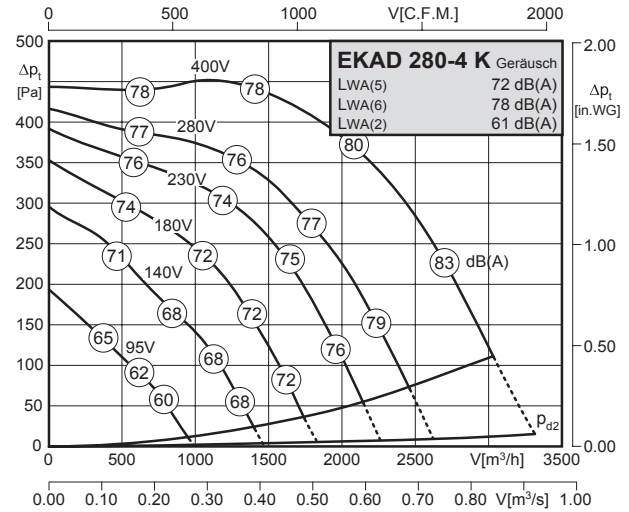
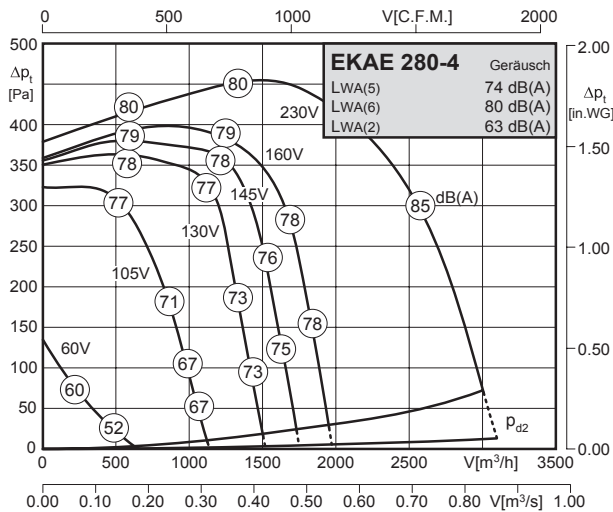




- 易于安装（DIN标准法兰）
- 前弯曲叶轮
- 可安装在任何位置
- 结构紧凑、节省空间的设计
- 绝缘等级为F级
- 非常低的启动电流
- 热触点电机保护
- 通过自耦变压器调节速度

- easy installation (DIN standard flange)
- forward curved impeller
- can be installed in any position
- compact and space saving design
- insulation class F
- extremely low starting currents
- motor protection by thermal contacts
- speed is variable using auto transformers

技术参数 / Technical Data:



型号 / Type : EKAE 280-4	货号 Art.-Nr. / Art.-No. : D00-28000
U 230V (50Hz)	Δpfa min 60 Pa
P ₁ 1.25 kW	ΔI -- %
I _N 5.8 A	I _A / I _N 1.3
n 1070 min ⁻¹	⚠ IP54
C _{400V} 20 μF	★ 01.024
t _R 40 °C	🔋 28 kg

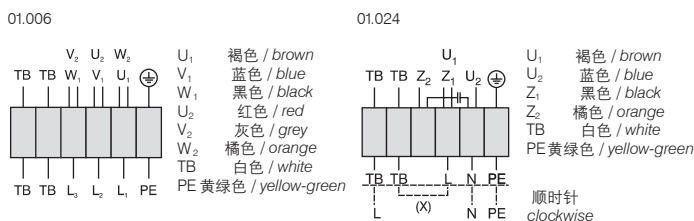
型号 / Type : EKAD 280-4 K	货号 Art.-Nr. / Art.-No. : D00-28050
U 400V (50Hz)	Δpfa min 100 Pa
P ₁ 1.1 kW	ΔI -- %
I _N 2.0 A	I _A / I _N 2.4
n 1110 min ⁻¹	⚠ IP54
C _{400V} -- μF	★ 01.006
t _R 40 °C	🔋 28 kg

声级 / Sound levels:

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	f [Hz]						
	125	250	500	1K	2K	4K	8K
外壳 4-极 / casing 4-pole	-5	-7	-9	-7	-12	-17	-24
进风口侧 4-极 / inlet side 4-pole	-13	-15	-6	-5	-7	-9	-18
出风口侧 4-极 / outlet side 4-pole	-16	-14	-8	-5	-6	-7	-17

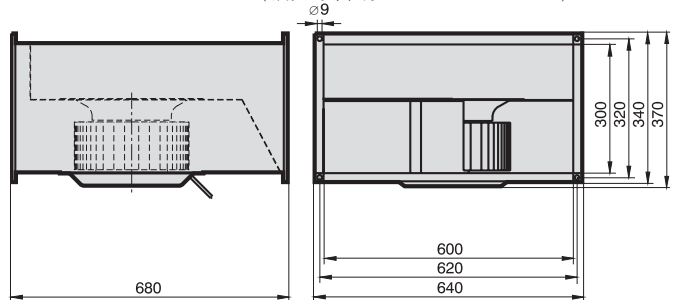
在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	f [Hz]						
	125	250	500	1K	2K	4K	8K
外壳 4-极 / casing 4-pole	-5	-7	-9	-7	-12	-17	-24
进风口侧 4-极 / inlet side 4-pole	-13	-15	-6	-5	-7	-9	-18
出风口侧 4-极 / outlet side 4-pole	-16	-14	-8	-5	-6	-7	-17

接线图 / Wiring diagram:



尺寸 / Dimensions:

(所有尺寸单位为 mm / all dimensions in mm)



配件 / Accessories:



RTE/RTD	MSE/MSD	TE / TD	GS	KD	FKV	GF	VK	VKJ	KFB
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管道风机（前弯曲线型） / Duct Fans (forward curved)

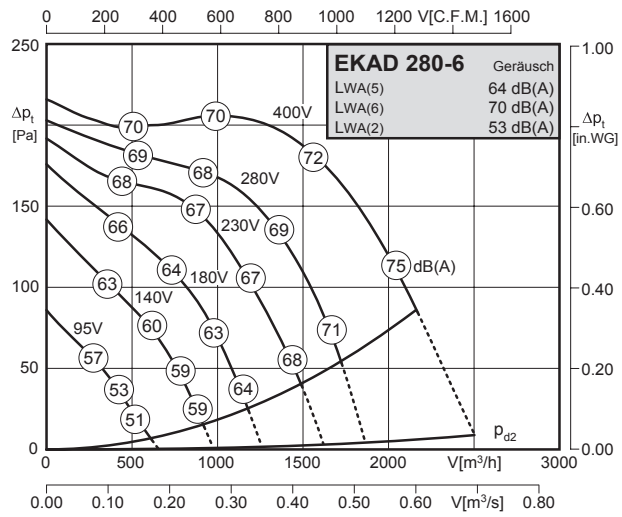
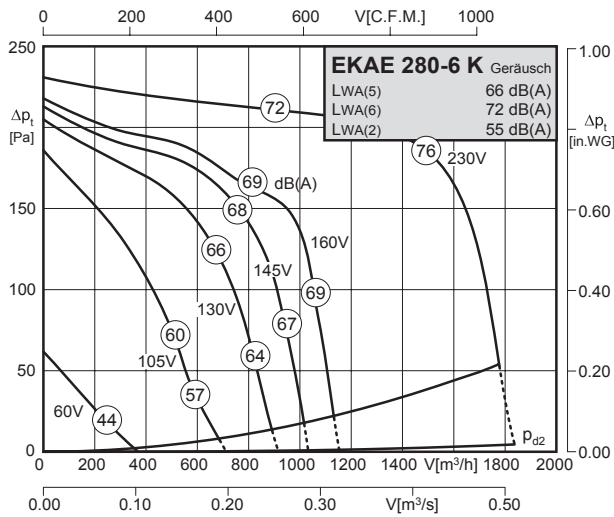
尺寸 / Size: 280



- 易于安装（DIN标准法兰）
- 前弯曲线轮
- 可安装在任何位置
- 结构紧凑、节省空间的设计
- 绝缘等级为F级
- 非常低的启动电流
- 热触点电机保护
- 通过自耦变压器调节速度

- easy installation (DIN standard flange)
- forward curved impeller
- can be installed in any position
- compact and space saving design
- insulation class F
- extremely low starting currents
- motor protection by thermal contacts
- speed is variable using auto transformers

技术参数 / Technical Data:



型号 / Type : EKAE 280-6 K		货号 / Art.-No. : D00-28003	
U	230V (50Hz)	ΔP _{fa min}	50 Pa
P _I	0.38 kW	ΔI	-- %
I _N	1.7 A	I _A / I _N	1.3
n	660 min ⁻¹	▲	IP54
C _{400V}	6 μF	★	01.024
t _R	40 °C	■	25 kg

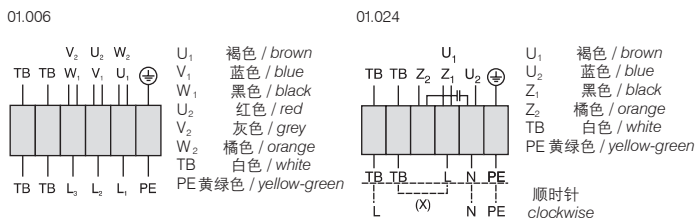
型号 / Type : EKAD 280-6		货号 / Art.-No. : D00-28053	
U	400V (50Hz)	ΔP _{fa min}	80 Pa
P _I	0.43 kW	ΔI	-- %
I _N	0.75 A	I _A / I _N	2.1
n	790 min ⁻¹	▲	IP54
C _{400V}	-- μF	★	01.006
t _R	40 °C	■	25 kg

声级 / Sound levels:

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	f [Hz]						
	125	250	500	1K	2K	4K	8K
外壳 6-极 / casing 6-pole	-10	-9	-4	-7	-9	-14	-21
进风口侧 6-极 / inlet side 6-pole	-17	-15	-7	-6	-6	-7	-14
出风口侧 6-极 / outlet side 6-pole	-22	-13	-7	-6	-5	-7	-15

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	f [Hz]						
	125	250	500	1K	2K	4K	8K
外壳 6-极 / casing 6-pole	-10	-9	-4	-7	-9	-14	-21
进风口侧 6-极 / inlet side 6-pole	-17	-15	-7	-6	-6	-7	-14
出风口侧 6-极 / outlet side 6-pole	-22	-13	-7	-6	-5	-7	-15

接线图 / Wiring diagram:

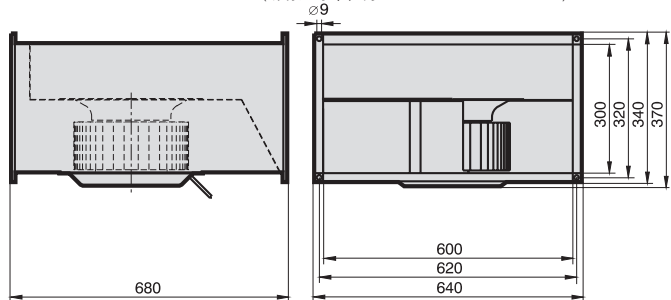


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)

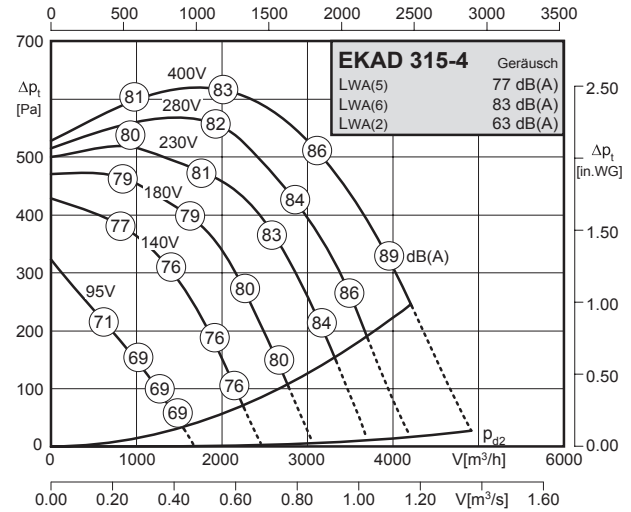
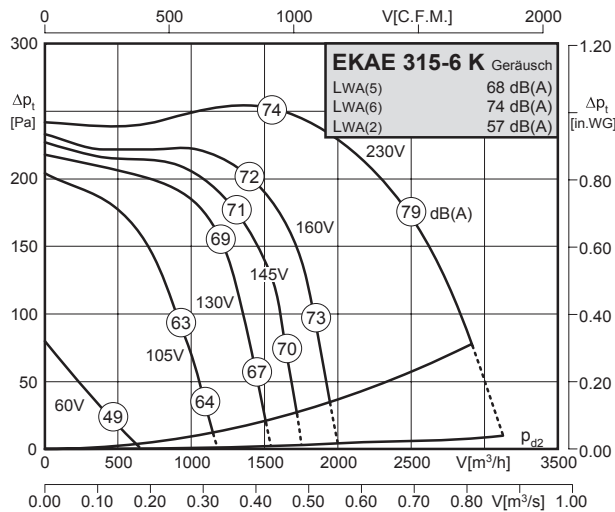




- 易于安装（DIN标准法兰）
- 前弯曲叶轮
- 可安装在任何位置
- 结构紧凑、节省空间的设计
- 绝缘等级为F级
- 非常低的启动电流
- 热触点电机保护
- 通过自耦变压器调节速度

- easy installation (DIN standard flange)
- forward curved impeller
- can be installed in any position
- compact and space saving design
- insulation class F
- extremely low starting currents
- motor protection by thermal contacts
- speed is variable using auto transformers

技术参数 / Technical Data:



型号 / Type : EKAE 315-6 K	货号 / Art.-No. : D00-31500
U 230V (50Hz)	Δpfa min 65 Pa
P ₁ 0.72 kW	ΔI -- %
I _N 3.30 A	I _A / I _N 1.5
n 730 min ⁻¹	⚠ IP54
C _{400V} 12 μF	★ 01.024
t _R 40 °C	🔋 34 kg

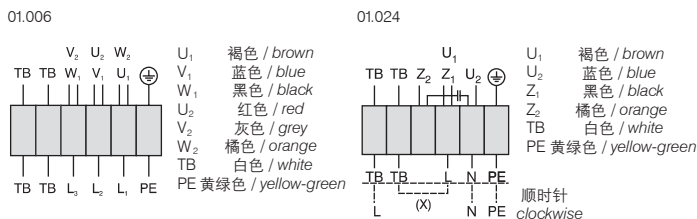
型号 / Type : EKAD 315-4	货号 / Art.-No. : D00-31550
U 400V (50Hz)	Δpfa min 230 Pa
P ₁ 2.0 kW	ΔI -- %
I _N 4.1 A	I _A / I _N 3.5
n 1320 min ⁻¹	⚠ IP54
C _{400V} -- μF	★ 01.006
t _R 40 °C	🔋 44 kg

声级 / Sound levels:

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	f [Hz]						
	125	250	500	1K	2K	4K	8K
外壳 6-极 / casing 6-pole	-10	-9	-4	-7	-9	-14	-21
进风口侧 6-极 / inlet side 6-pole	-17	-15	-7	-6	-6	-7	-14
出风口侧 6-极 / outlet side 6-pole	-22	-13	-7	-6	-5	-7	-15

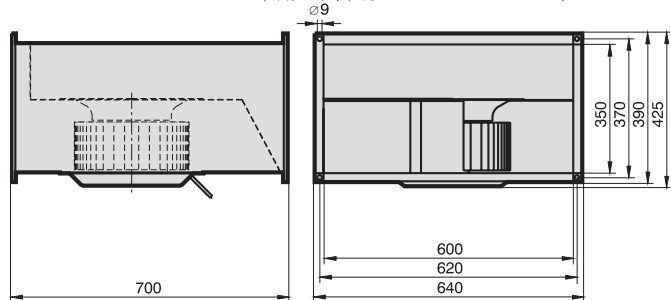
在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	f [Hz]						
	125	250	500	1K	2K	4K	8K
外壳 4-极 / casing 4-pole	-5	-7	-9	-7	-12	-17	-24
进风口侧 4-极 / inlet side 4-pole	-13	-15	-6	-5	-7	-9	-18
出风口侧 4-极 / outlet side 4-pole	-16	-14	-8	-5	-6	-7	-17

接线图 / Wiring diagram:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)



配件 / Accessories:



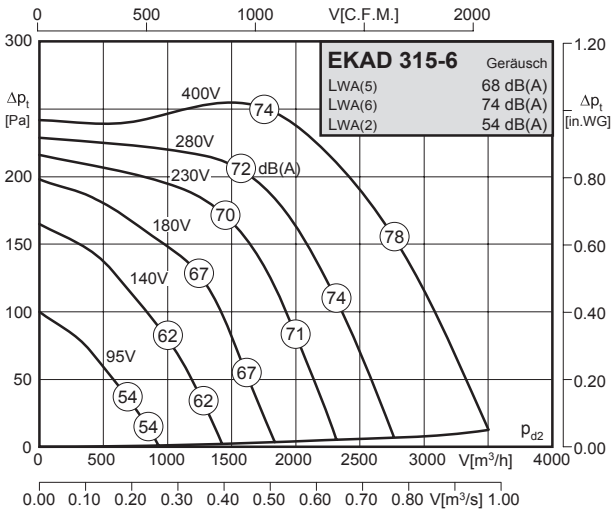
RTE/RTD	MSE/MSD	TE / TD	GS	KD	FKV	GF	VK	VKJ	KFB
Seite/Page 384,392	Seite/Page 378	Seite/Page 400	Seite/Page 404	Seite/Page 424	Seite/Page 424	Seite/Page 425	Seite/Page 425	Seite/Page 426	Seite/Page 426

管道风机（前弯曲线） / Duct Fans (forward curved)
尺寸 / Size: 315



- 易于安装（DIN标准法兰）
 - 前弯曲线叶轮
 - 可安装在任何位置
 - 结构紧凑、节省空间的设计
 - 绝缘等级为F级
 - 非常低的启动电流
 - 热触点电机保护
 - 通过自耦变压器调节速度
- easy installation (DIN standard flange)
 - forward curved impeller
 - can be installed in any position
 - compact and space saving design
 - insulation class F
 - extremely low starting currents
 - motor protection by thermal contacts
 - speed is variable using auto transformers

技术参数 / Technical Data:

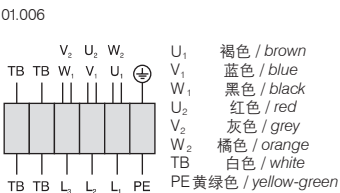


型号 / Type : EKAD 315-6		货号 / Art.-No. : D00-31553	
U	400V (50Hz)	$\Delta p_{la \min}$	-- Pa
P _I	0.82 kW	ΔI	-- %
I _N	1.5 A	I _A / I _N	2.1
n	740 min ⁻¹		IP54
C _{400V}	-- μF		01.006
t _R	45 °C		36 kg

声级 / Sound levels:

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V = 0.5*V _{max}	f _M [Hz]						
	125	250	500	1K	2K	4K	8K
外壳 6-极 / casing 6-pole	-10	-9	-4	-7	-9	-14	-21
进风口侧 6-极 / inlet side 6-pole	-17	-15	-7	-6	-6	-7	-14
出风口侧 6-极 / outlet side 6-pole	-22	-13	-7	-6	-5	-7	-15

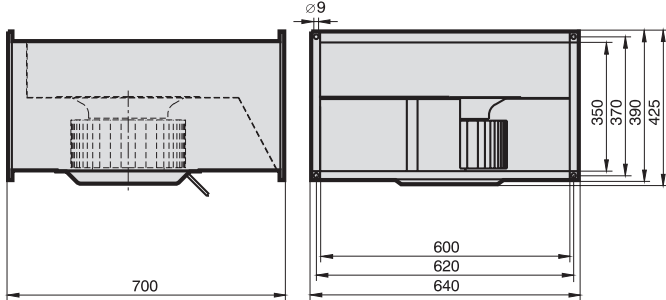
接线图 / Wiring diagram:



配件 / Accessories:



尺寸 / Dimensions: (所有尺寸单位为mm / all dimensions in mm)

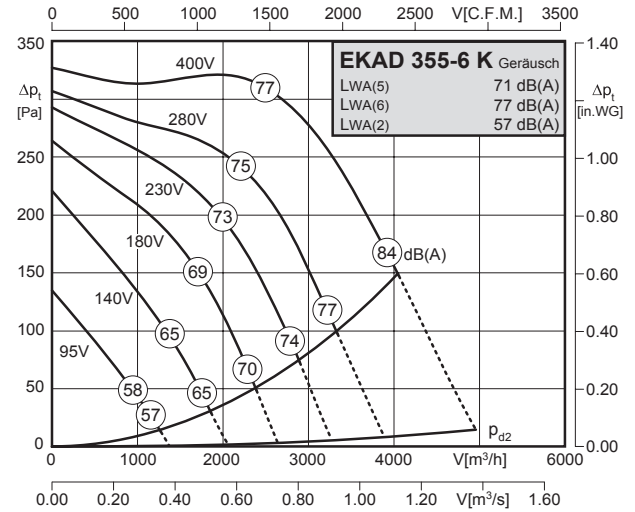
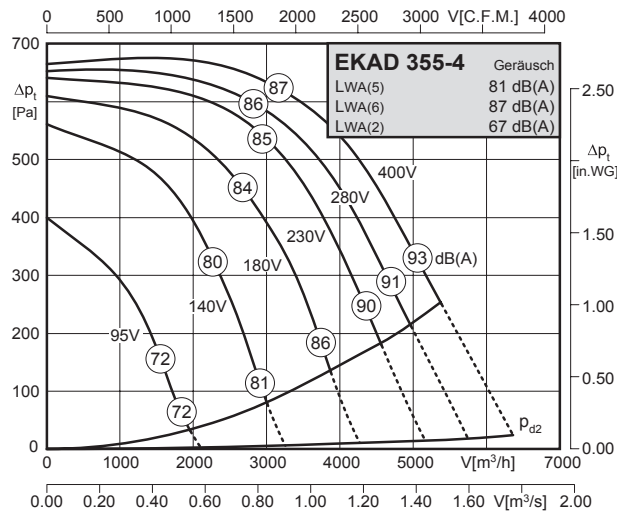




- 易于安装（DIN标准法兰）
- 前弯曲线叶轮
- 可安装在任何位置
- 结构紧凑、节省空间的设计
- 绝缘等级为F级
- 非常低的启动电流
- 热触点电机保护
- 通过自耦变压器调节速度

- easy installation (DIN standard flange)
- forward curved impeller
- can be installed in any position
- compact and space saving design
- insulation class F
- extremely low starting currents
- motor protection by thermal contacts
- speed is variable using auto transformers

技术参数 / Technical Data:



型号 / Type : EKAD 355-4		货号 / Art.-No. : D00-35550	
U	400V (50Hz)	Δp _{fa min}	240 Pa
P ₁	3.2 kW	ΔI	12 %
I _N	5.8 A	I _A / I _N	5.2
n	1405 min ⁻¹	⚠	IP54
C _{400V}	– μF	⚡	01.006
t _R	40 °C	🔋	58 kg

型号 / Type : EKAD 355-6 K		货号 / Art.-No. : D00-35553	
U	400V (50Hz)	Δp _{fa min}	140 Pa
P ₁	1.15 kW	ΔI	– %
I _N	2.20 A	I _A / I _N	2.4
n	810 min ⁻¹	⚠	IP54
C _{400V}	– μF	⚡	01.006
t _R	40 °C	🔋	50 kg

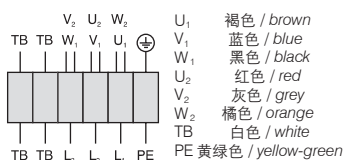
声级 / Sound levels:

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	f [Hz]						
	125	250	500	1K	2K	4K	8K
外壳 4-极 / casing 4-pole	-5	-7	-9	-7	-12	-17	-24
进风口侧 4-极 / inlet side 4-pole	-13	-15	-6	-5	-7	-9	-18
出风口侧 4-极 / outlet side 4-pole	-16	-14	-8	-5	-6	-7	-17

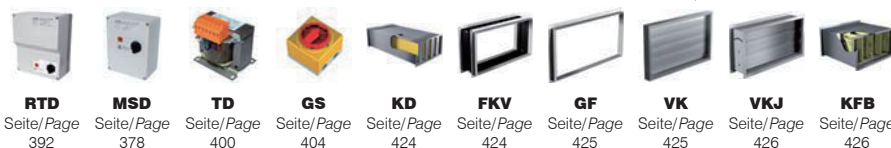
在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	f [Hz]						
	125	250	500	1K	2K	4K	8K
外壳 6-极 / casing 6-pole	-10	-9	-4	-7	-9	-14	-21
进风口侧 6-极 / inlet side 6-pole	-17	-15	-7	-6	-6	-7	-14
出风口侧 6-极 / outlet side 6-pole	-22	-13	-7	-6	-5	-7	-15

接线图 / Wiring diagram:

01.006

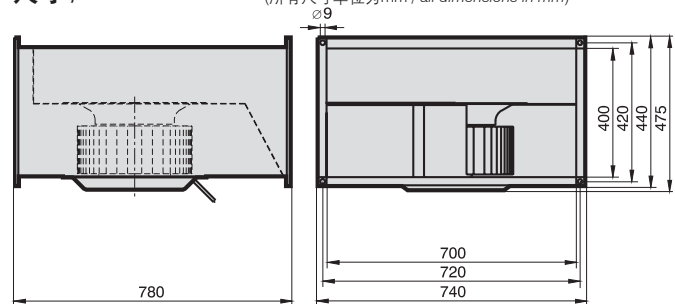


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)



管道风机（前弯曲线） / Duct Fans (forward curved)

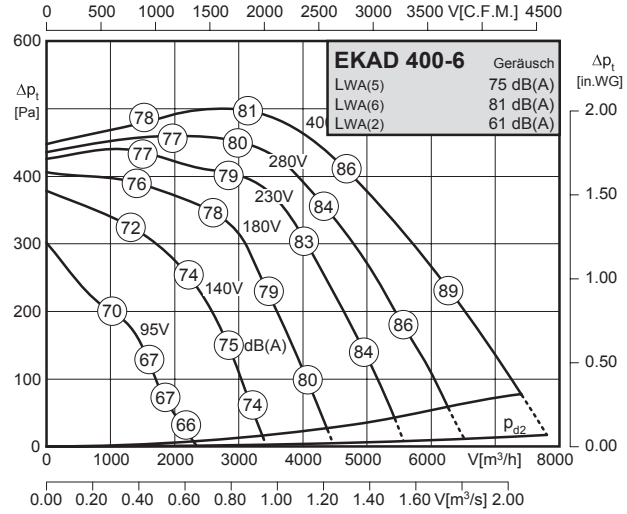
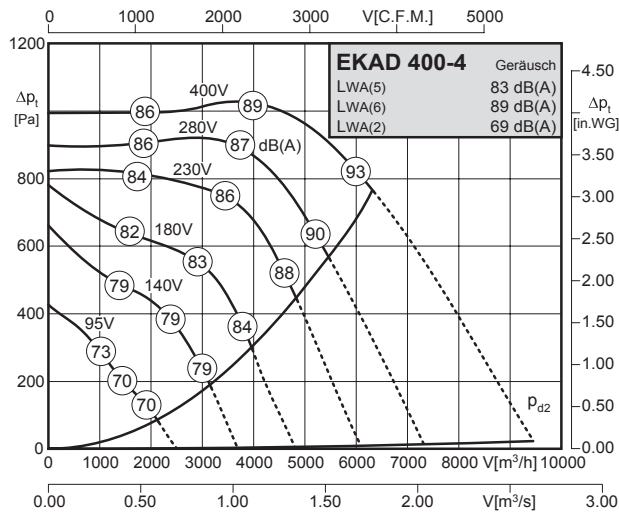
尺寸 / Size: 400



- 易于安装（DIN标准法兰）
- 前弯曲叶轮
- 可安装在任何位置
- 结构紧凑、节省空间的设计
- 绝缘等级为F级
- 非常低的启动电流
- 热触点电机保护
- 通过自耦变压器调节速度

- easy installation (DIN standard flange)
- forward curved impeller
- can be installed in any position
- compact and space saving design
- insulation class F
- extremely low starting currents
- motor protection by thermal contacts
- speed is variable using auto transformers

技术参数 / Technical Data:



型号 / Type : EKAD 400-4		货号 / Art.-No. : D00-40050	
U	400V (50Hz)	Δp _{fa min}	750 Pa
P _I	4.25 kW	ΔI	15 %
I _N	7.30 A	I _A / I _N	4.0
n	1345 min ⁻¹		IP54
C _{400V}	– μF		01.006
t _R	40 °C		86 kg

型号 / Type : EKAD 400-6		货号 / Art.-No. : D00-40051	
U	400V (50Hz)	Δp _{fa min}	50 Pa
P _I	2.8 kW	ΔI	10 %
I _N	5.4 A	I _A / I _N	3.3
n	865 min ⁻¹		IP54
C _{400V}	– μF		01.006
t _R	40 °C		82 kg

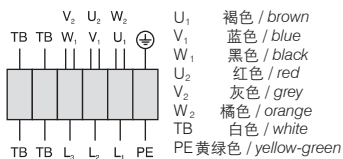
声级 / Sound levels:

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	fM [Hz]					
	125	250	500	1K	2K	4K
外壳 4-极 / casing 4-pole	-5	-7	-9	-7	-12	-17
进风口侧 4-极 / inlet side 4-pole	-13	-15	-6	-5	-7	-9
出风口侧 4-极 / outlet side 4-pole	-16	-14	-8	-5	-6	-7

在 V = 0.5*V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	fM [Hz]					
	125	250	500	1K	2K	4K
外壳 6-极 / casing 6-pole	-10	-9	-4	-7	-9	-14
进风口侧 6-极 / inlet side 6-pole	-17	-15	-7	-6	-6	-7
出风口侧 6-极 / outlet side 6-pole	-22	-13	-7	-6	-5	-7

接线图 / Wiring diagram:

01.006

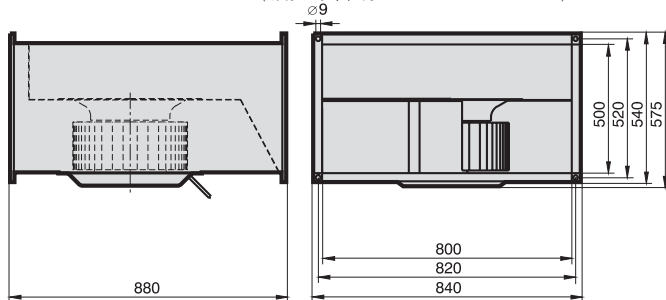


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)

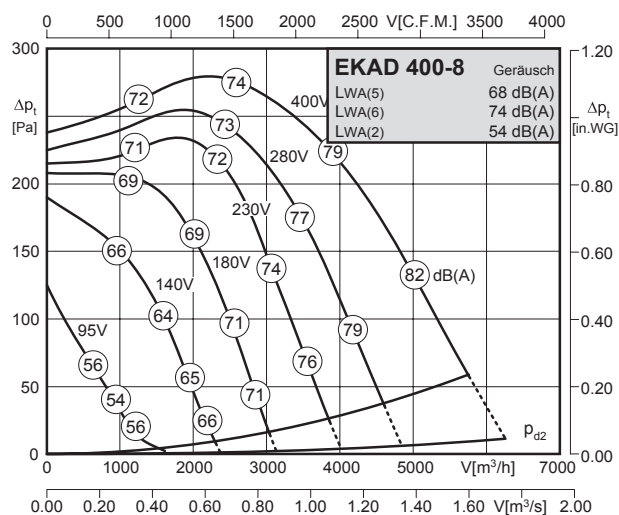




- 易于安装（DIN标准法兰）
- 前弯曲叶轮
- 可安装在任何位置
- 结构紧凑、节省空间的设计
- 绝缘等级为F级
- 非常低的启动电流
- 热触点电机保护
- 通过自耦变压器调节速度

- easy installation (DIN standard flange)
- forward curved impeller
- can be installed in any position
- compact and space saving design
- insulation class F
- extremely low starting currents
- motor protection by thermal contacts
- speed is variable using auto transformers

技术参数 / Technical Data:



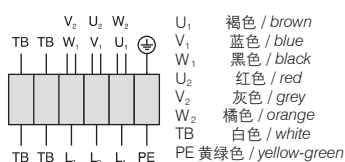
型号 / Type : EKAD 400-8		货号 / Art.-No. : D00-40052	
U	400V (50Hz)	Δp _{fa min}	50 Pa
P ₁	1.4 kW	ΔI	-- %
I _N	3.0 A	I _A / I _N	2.6
n	635 min ⁻¹	△	IP54
C _{400V}	-- μF	★	01.006
t _R	40 °C	■	75 kg

声级 / Sound levels:

在 V = 0.5 * V _{max} 下的 LWA _{rel} A 加权值 LWA _{rel} A-weighted at V=0.5*V _{max}	fM [Hz]						
	125	250	500	1K	2K	4K	8K
外壳 6-极 / casing 6-pole	-10	-9	-4	-7	-9	-14	-21
进风口侧 6-极 / inlet side 6-pole	-17	-15	-7	-6	-6	-7	-14
出风口侧 6-极 / outlet side 6-pole	-22	-13	-7	-6	-5	-7	-15

接线图 / Wiring diagram:

01.006

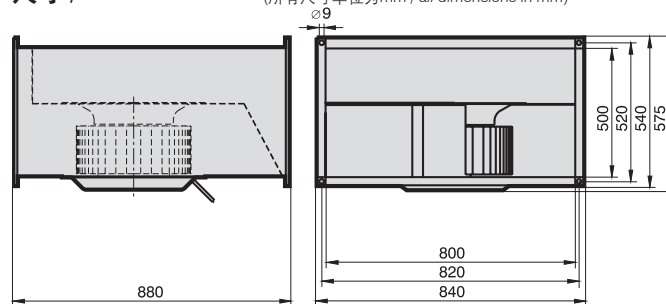


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)



管道风机（前弯曲线） / Duct Fans (forward curved)

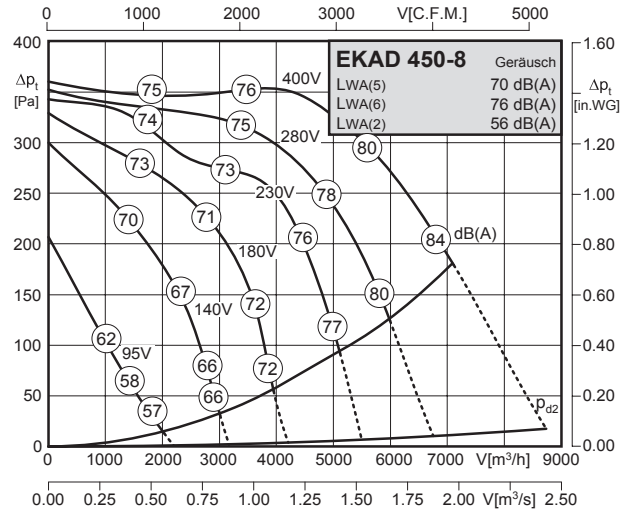
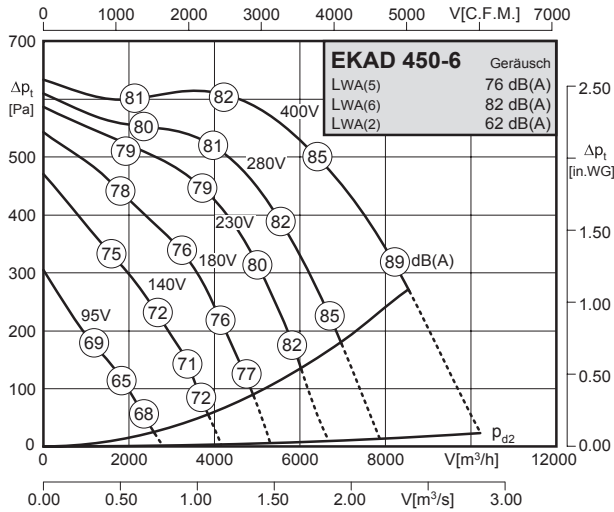
尺寸 / Size: 450



- 易于安装（DIN标准法兰）
- 前弯曲叶轮
- 可安装在任何位置
- 结构紧凑、节省空间的设计
- 绝缘等级为F级
- 非常低的启动电流
- 热触点电机保护
- 通过自耦变压器调节速度

- easy installation (DIN standard flange)
- forward curved impeller
- can be installed in any position
- compact and space saving design
- insulation class F
- extremely low starting currents
- motor protection by thermal contacts
- speed is variable using auto transformers

技术参数 / Technical Data:



型号 / Type : EKAD 450-6		货号 / Art.-No. : D00-45050	
U	400V (50Hz)	$\Delta p_{fa \min}$	250 Pa
P _I	3.5 kW	ΔI	2 %
I _N	6.90 A	I _A / I _N	3.2
n	845 min ⁻¹		IP54
C _{400V}	— μ F		01.006
t _R	40 °C		97 kg

型号 / Type : EKAD 450-8		货号 / Art.-No. : D00-45051	
U	400V (50Hz)	$\Delta p_{fa \min}$	170 Pa
P _I	2.0 kW	ΔI	5 %
I _N	3.9 A	I _A / I _N	3.2
n	650 min ⁻¹		IP54
C _{400V}	— μ F		01.006
t _R	40 °C		85 kg

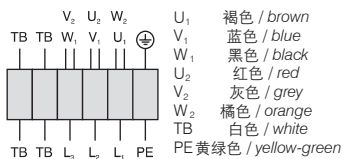
声级 / Sound levels:

在 V = 0.5*Vmax下的LWAreI A 加权值 LWAreI A-weighted at V=0.5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
外壳 6-极 / casing 6-pole	-10	-9	-4	-7	-9	-14	-21
进风口侧 6-极 / inlet side 6-pole	-17	-15	-7	-6	-6	-7	-14
出风口侧 6-极 / outlet side 6-pole	-22	-13	-7	-6	-5	-7	-15

在 V = 0.5*Vmax下的LWArel A 加权值 LWArel A-weighted at V=0,5*Vmax	fM [Hz]						
	125	250	500	1K	2K	4K	8K
外壳 6-极 / casing 6-pole	-10	-9	-4	-7	-9	-14	-21
进风口侧 6-极 / inlet side 6-pole	-17	-15	-7	-6	-6	-7	-14
出风口侧 6-极 / outlet side 6-pole	-22	-13	-7	-6	-5	-7	-15

接线图 / Wiring diagram:

01.006

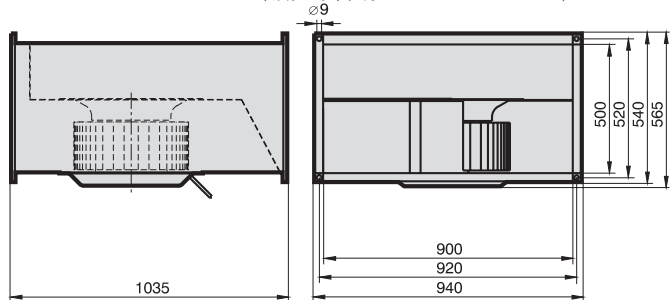


配件 / Accessories:



尺寸 / Dimensions:

(所有尺寸单位为mm / all dimensions in mm)



德国

ROSENBERG
Ventilatoren GmbH
Maybachstrasse 1/9
D-74653 Künzelsau-Gaisbach
Fon. 07940/142-0
Fax. 07940/142-125

ROSENBERG RHEIN RUHR
Hans-Böckler Strasse 18a
Gewerbegebiet Münchheide 2
D-47877 Willich
Fon. 02154/9202-0
Fax. 02154/9202-22

ROSENBERG NORD
Auf den Sandbreiten 3
D-28719 Bremen
Fon. 0421/642031
Fax. 0421/645562

ROSENBERG BERLIN
GIP-Baukörper
Landsberger Str.217
D-12623 Berlin
Fon. 030/56503122
Fax. 030/56503148

荷兰

ROSENBERG VENTILATOREN
Elandlaan 8
NL-3734 CP Den Dolder
Fon. 0031/302291358
Fax. 0031/302280253

奥地利

ROSENBERG GmbH Austria
Maisstrasse 15
A-4600 Wels
Fon. 0043/7242 72181
Fax. 0043/7242 44659

爱尔兰

IRISH VENTILATION
& FILTRATION
Unit C., 390 Clonard Rd.
Crumlin, Dublin 12
Fon. 00353 1 4925003
Fax. 00353 1 4925005

波兰

ROSENBERG KLIMA POLSKA
Sp. z o.o.
Aleja Krakowska 90a, Sekocin
Stary
PL-05-090 Raszyn
Fon. 0048/607 302545
Fax. 0048/61 9677194
ROSENBERG POLSKA
KRAKOW Sp200
Ul. Jaworowa 7
PL-30-327 Krakow
Fon. 0048/12 267 12 43
Fax. 0048/12 266 34 38

瑞士

PIEREN ROSENBERG AG
Altes Riedgässli 28
CH-3113 Rubigen
Fon. 0041/31 720 15 20
Fax. 0041/31 720 15 21

比利时

ROSENBERG BELGIUM NV
Mallaardstraat 9
B-9400 Ninove
Fon. 0032/54 335835
Fax. 0032/54 329136

意大利

ROSENBERG ITALIA s.r.l.
Z.I.P.R. Via Armenia
I-33078 S.Vito al Tagliamento
Fon. 0039/043485445
Fax. 0039/043485445

中国

洛森通风设备(上海)有限公司
上海市松江工业区宝益路28号
邮政编码:201613
电话: 0086/21 67741436
传真: 0086/21 67741435

匈牙利

ROSENBERG HUNGARIA KFT.
Jozsef A.u.34.
(Hauptstr.Nr.10), Pf.6.
HU-2532 Tokodaltaro
Fon. 0036/33 515515
Fax. 0036/33 515500

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Goritzia Str.10
BG-1618 Sofia
Fon. 00359 2 9155343
Fax. 00359 2 9155344

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IS-210 Gardabae
Fon. 00354/565 0288
Fax. 00354/565 2488

挪威

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Tvetenveijn 164
N-0671 Oslo
Fon. 0047/22 761410
Fax. 0047/22 761411

马来西亚

ROSENBERG MALAYSIA Sdn
Bhd
18, Jalan Raya Timur,
MAL-41000 Klang, Selangor
Malaysia
Fon. 03/33733820
Fax. 03/33733693

瑞典

ROSENBERG SVENSKA
VENTILATIONS AB
Instrumentvagen 3
S-55302 Jönköping
Fon. 0046/36187900
Fax. 0046/36187980

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Fax. 00301/4825523

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CY-3509, Limassol
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Marmara Cad. No. 27
Büyü 71
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Fon. 0090/212 509 5336
Fax. 0090/212 590 7336

埃及

EGYPTIAN VENTILATION
SYSTEMS CO.
13 Ismail El-Kabbani st.
Nasr City - EGYPT
Fon. 00202/4043306
Fax. 00202/4043306

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Conca de Barbera 6
Pla de la Bruguera
E-08211 Castellar del Valles
Fon. 0034/93 715 99 88
Fax. 0034/93 715 99 89

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CMR CONTROLS
22 Repton Court, Repton Close
GB-Basildon, Essex SS 13 1LN
Fon. 0044/1268 287 222
Fax. 0044/1268 287 099

沙特阿拉伯

REFRIGERATION HOUSE
P.O. Box 1904
SJ-Riyadh 11441
Fon. 00966 147 69 720
Fax. 00966 147 69 518

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P.O. Box 2892
Abha Street - IInd Industrial City
SJ-Al-Khobar-31952
Fon. 00966 3 894 1048
Fax. 00966 3 895 5025

印度尼西亚

PT. DWIRAJAYA SATYA
Green Garden 1-9 / 33
RI-Jakarta 11520
Fon. 0062/21581 2334
Fax. 0062/21581 1366

新加坡

ROSENBERG EAST ASIA Pte.
Ltd.
Excalibur Centre
71 Ubi Crescent #08-04
SGP-Singapore 408571
Fon. 0065/6846 8866
Fax. 0065/6846 1129

法国

ROSENBERG FRANCE
Z.A.C. de Chassagne
F-69360 Ternay
Fon. 0033/472246024
Fax. 0033/472246067

ECOFIT

Z.I. Sud, Rue Marc Seguin
B.P.No.8
F-41101 Vendome Cedex
Fon. 0033/254231454
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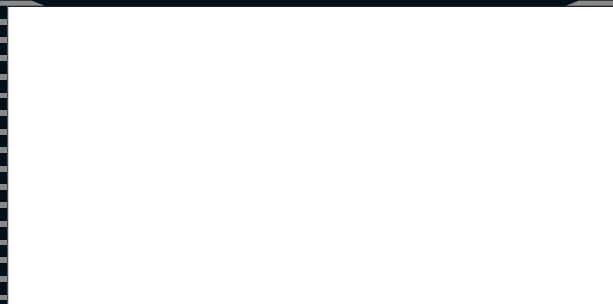
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