

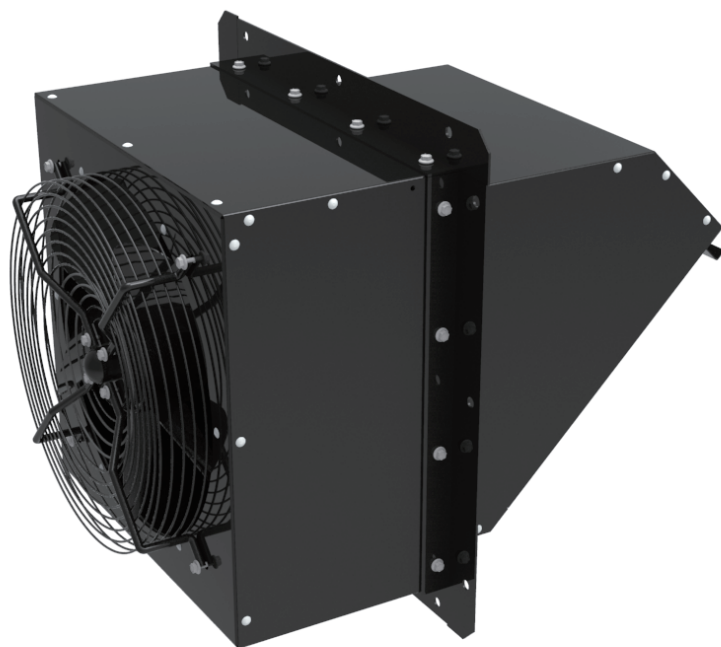


HALONG

上海哈龙风机电器有限公司

WEF/WSF

边墙轴流排风机/边墙轴流送风机



● 适用场合

适用场合：各类建筑的普通排风及防爆排风。

Application: general exhaust, explosion-proof exhaust systems for all kinds of buildings.

● 产品特点

叶轮Wheel

采用最新空气动力学试验结果优化
Optimized according to aero-dynamic simulation

叶轮平衡等级G2.5 (AMCA)

Wheel balancing level G2.5 (AMCA)

叶片曲面光滑流畅呈流线型，渐进地切入空气
The blade surface is fluent and streamline, cut into air progressively

与空气脱离时边缘倾角设计合理，有效减少脱离紊流

The blade edge angle is properly designed, help reducing turbulence when air break away

大量风量的同时保证低噪音

Low noise is kept under large volume

配件实用齐全

Complete accessories available

防雨罩：45°排风机防雨罩，90°送风机防雨罩
Weatherhood: 45° for exhaust and 90° for supply

防虫网：防止昆虫飞入车间

Insect screen : prevent insects flying into workshop

重力式止回风阀：确保车间在风机不开时保持封闭

Back-draft damper : ensure the workshop keeps closed when the fan is not running

方型设计Square housing

混凝土墙、砖墙及压型板墙面上开方洞：更方便

Square opening in concrete, brick or steel wall: easier

单层压型板墙带水平支撑梁，结构简单可靠
Single layer steel wall with horizontal support beam: simple and reliable

Hanging or triangle support: square casing is easier to mount

电机可靠免润滑

Motor is reliable and lubrication free

体积小，结构简单，重量轻，运行可靠
Small size, simple structure, light and stable running

电机置于气流内：散热良好，延长电机寿命
Motor is inside of air stream: effective cooling extended motor life

电机免润滑，整机免润滑，整机免维护，适合安装在高处

Lubricating free motor: maintenance free unit suitable for installing on high wall

无皮带：无需登高更换

No belt: no need to climb high to replace belt from time to time

长期运转强度高

eliable strength for long time running

计算机辅助应力分析

Computer aided stress analyze

选点准确的补强筋：反复实验确定

Strengthen slots properly located: according to repeating test

有效降低叶片端振幅

Blade end vibration effectively reduced

防止长期运转后叶片变形或断裂

Prevent blade distortion or breaking after long time running

命名说明 naming introduction

WEF--300D4-0.18

WEF--边墙轴流排风机

WSF--边墙轴流送风机

300--叶轮直径300mm

D4--D4为380V普通电机，4级电机；

E4--E为220V普通电机，4级电机；

EX4--380V 防爆电机

0.18--电机功率0.18KW

技术规范 Technical specifications

风机类型：

边墙轴流式送/排风机应采用钢制或铝制前掠式叶片，叶片应使用加强筋，增加强度，降低叶片末端振动，确保在刚性支撑条件下振动速度峰值低于4.5mm/s，振动幅度峰-峰值低于 0.9×105 (mm/RPM)。叶片与电机应整体通过静态和动态平衡。

Fan Type

Sidewall axial flow supply/exhaust fan shall be forward sweeping steel or aluminum blades. Blade shall be use strengthened rib, enhance intensity, reduce blade end vibration. Under solid support the vibration speed peak value shall lower than 4.5 mm/s, vibration soope peak to peak value shall be lower than 0.9×105 (mm/RPM). The blades and motor shall be statically and dynamically balanced after integrated.

风机外壳

风机外壳应为镀锌钢板（选项：冷轧钢板，并且表面做黑色环氧喷涂）制成，方形结构。电机支撑结构应坚固并避免风机运转时产生共振。在室内一侧应装有防护网以保护工作人员人身安全。

Fan housing

Fan housing shall be made of galvanized steel (option: cold rolled panel with balck epoxy powder coating) in square shape, motor supporting structure shall be solid to prevent resonance during operation. Safe guard shall be installed in the room to protect staff's personal security.

防爆结构[可选项]

防爆边墙风机250~550型号应为铝制叶轮，钢制导流圈；600~900型号应为钢制叶轮，铝制导流圈；电机采用防爆电机。

Explosion resistant structure [optional]

Explosion resistant sidewall fan: type (size: 250~550) is aluminum wheel, inlet venturi is per steel. type (size: 600-900) is steel wheel, inlet venturi is aluminum; Motor is explosion resistant.

电机

外转子电机防护等级应达到IP44，内转子电机防护等级应达到IP54，绝缘等级F级，电机应置于气流之内，以便得到充分冷却。

Motor

External rotor motor shall be IP44, internal rotor motor shall be IP54, insulation class F, Motor shall be inside the airstream for cooling.

标牌

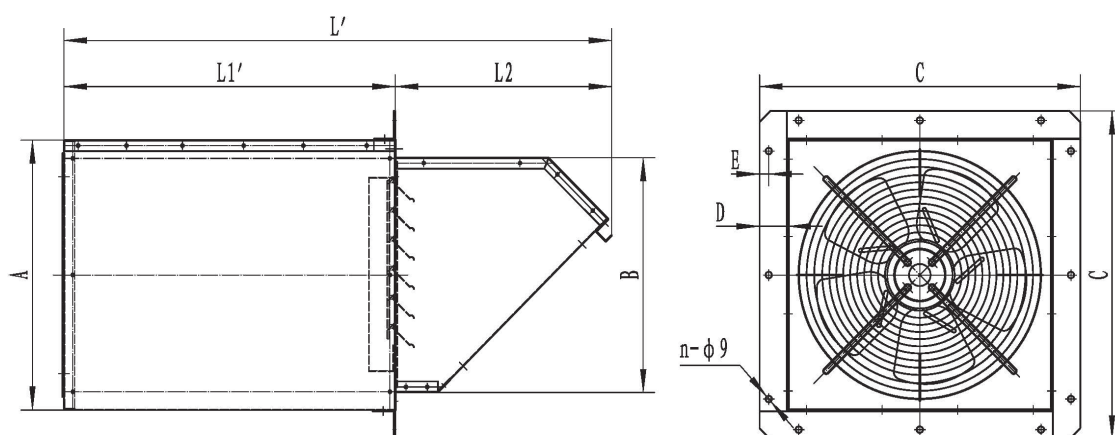
永久固定的铝制标牌上应标有清晰可辨的风机编号，型号和产品序列号（即每台机器的唯一身份证明），从而可保证客户方便地查询配件历史记录。

Nameplate: Permanently fixed aluminum nameplate shall be fixed on fan body clearly display fan mark, product model and serial number. The serial number shall be a unique ID for each fan, so that the customer can use this number to find out the parts used to build the fan.

● 产品概述

钢制轴流叶轮动平衡等级G2.5、方型外壳设计、标配45°防雨罩防鸟网直联驱动，适合长期稳定运转。

WEF-EX防爆型边墙风机安装尺寸

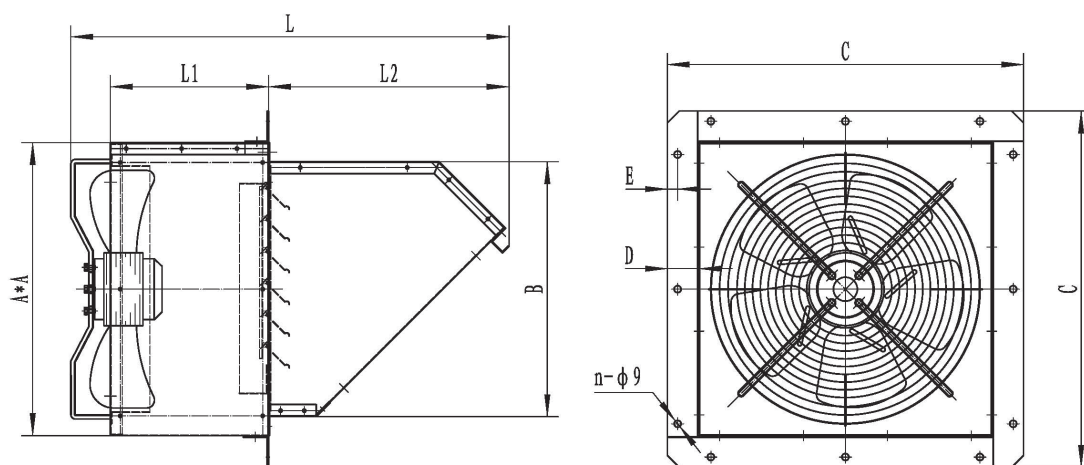


序号	型号	尺寸									风机重量 Kg
		A	L1	L2	L	B	C	D	E	n	
1	WEF-250EX4-0.12	320	465	270	815	270	400	40	13	8	33
2	WEF-300EX4-0.12	370	465	310	855	320	450	40	13	12	38
3	WEF-350EX4-0.12	420	465	340	905	370	500	40	13	12	41
4	WEF-400EX4-0.18	470	505	390	995	420	550	40	13	12	50
5	WEF-450EX4-0.37	520	505	420	1025	470	600	40	13	12	55
6	WEF-500EX4-0.37	570	520	460	1080	520	650	40	13	12	64
7	WEF-550EX4-0.75	620	520	490	1110	570	700	40	13	12	71
8	WEF-600EX4-1.1	765	550	595	1245	715	865	50	15	20	121
9	WEF-650EX4-2.2	810	595	615	1310	760	910	50	15	20	146
10	WEF-700EX6-0.75	855	520	640	1260	805	955	50	15	20	138
11	WEF-750EX6-1.1	920	550	675	1245	870	1020	50	15	20	160
12	WEF-800EX6-1.5	975	640	710	1370	925	1075	50	15	20	191
13	WEF-900EX6-3	1075	660	760	1440	1025	1175	50	15	20	234
14	WEF-1000EX6-4	1175	700	810	1530	1125	1275	50	15	20	265

● 产品概述

钢制轴流叶轮动平衡等级G2.5、方型外壳设计、标配45°防雨罩防鸟网直联驱动，适合长期稳定运转。

WEF边墙风机安装尺寸



序号	型号	尺寸									风机重量 Kg
		A	L1	L2	L	B	C	D	E	n	
1	WEF-250D4/E4-0.05	320	200	270	550	270	400	40	13	8	16
2	WEF-300D4/E4-0.09	370	200	310	590	320	450	40	13	12	19
3	WEF-350D4/E4-0.15	420	220	340	660	370	500	40	13	12	24
4	WEF-400D4/E4-0.19	470	220	390	710	420	550	40	13	12	27
5	WEF-450D4/E4-0.24	520	220	420	740	470	600	40	13	12	32
6	WEF-500D4/E4-0.46	570	220	460	780	520	650	40	13	12	36
7	WEF-550D4/E4-0.55	620	220	490	810	570	700	40	13	12	40
8	WEF-600D4/E4-0.8	765	300	595	995	715	865	50	15	20	65
9	WEF-650D4/E4-0.85	810	300	615	1015	760	910	50	15	20	76
10	WEF-700D6-0.75	855	520	640	1260	805	955	50	15	20	86
11	WEF-750D6-1.1	920	550	675	1245	870	1020	50	15	20	154
12	WEF-800D6-2.2	975	640	710	1370	925	1075	50	15	20	190
13	WEF-900D6-3	1075	660	760	1440	1025	1175	50	15	20	229
14	WEF-1000D6-4	1175	700	810	1530	1125	1275	50	15	20	259

WEF/WSF性能参数表

型号	转速 r/min	序号 №	流量 m ³ /h	全压 Pa	静压 Pa	配用电机 kW	噪音 dB (A)	重量 kg
WEF-250	1400	1	290	112	112	0.05	≤54	16
		2	400	103	102			
		3	588	86	85			
		4	800	65	62			
		5	1000	52	48			
		6	1200	52	46			
		7	1552	39	28			
		8	1644	34	22			
		9	1906	16	0			
WEF-300	1400	1	504	95	94	0.09	≤58	19
		2	701	78	77			
		3	876	68	66			
		4	1052	61	59			
		5	1402	53	47			
		6	1621	44	38			
		7	1752	39	32			
		8	1939	28	19			
WEF-350	1400	1	492	160	160	0.15	≤62	24
		2	1035	138	137			
		3	1314	117	114			
		4	1774	102	97			
		5	2120	84	78			
		6	2398	69	60			
		7	2629	49	39			
		8	2842	32	19			
WEF-400	1400	1	1179	153	152	0.19	≤68	27
		2	1330	142	141			
		3	1600	125	122			
		4	2000	108	104			
		5	2400	105	100			
		6	3200	80	70			
		7	3610	85	73			
		8	4000	27	12			
WEF-450	1400	1	1655	188	186	0.24	≤69	32
		2	1866	175	173			
		3	2246	154	151			
		4	2807	133	128			
		5	3368	129	122			
		6	4491	98	86			
		7	5066	104	89			
		8	5614	34	15			
WEF-500	1400	1	2858	165	162	0.46	≤70	36
		2	3430	156	151			
		3	4574	138	128			
		4	5146	128	117			
		5	5717	117	102			
		6	6288	103	85			
		7	6861	86	66			
		8	7433	68	44			
WEF-550	1400	1	5784	173	166	0.55	≤71	40
		2	6460	155	147			
		3	7128	138	129			
		4	7934	121	109			
		5	8597	104	91			
		6	9261	87	70			
		7	9848	70	52			
		8	10435	55	34			
		9	11099	38	14			

WEF/WSF性能参数表

型号	转速 r/min	序号 №	流量 m ³ /h	全压 Pa	静压 Pa	配用电机 kW	噪音 dB(A)	重量 kg
WEF-600	1400	1	6802	190	183	1.1	≤73	114
		2	7597	170	161			
		3	8383	152	141			
		4	9331	133	120			
		5	10111	115	100			
		6	10892	96	79			
		7	11582	78	59			
		8	12272	61	38			
		9	13053	42	17			
WEF-650	1430	1	8308	233	224	2.2	≤74	140
		2	9280	209	198			
		3	10240	185	173			
		4	11397	163	147			
		5	12351	141	122			
		6	13304	118	96			
		7	14147	96	71			
		8	14990	75	46			
		9	15944	52	21			
WEF-700	910	1	4265	182	180	0.75	≤75	134
		2	8246	107	101			
		3	9919	98	89			
		4	10427	90	80			
		5	11138	82	72			
		6	12052	67	54			
		7	13047	50	34			
		8	13325	43	27			
		9	13678	34	18			
WEF-750	910	1	3791	162	161	1.1	≤79	154
		2	10749	142	134			
		3	12285	125	115			
		4	13820	111	98			
		5	15356	101	85			
		6	16891	91	72			
		7	18428	65	43			
		8	19195	47	23			
		9	19861	28	3			
WEF-800	940	1	4755	278	277	2.2	≤80	190
		2	13480	210	200			
		3	15405	186	174			
		4	17331	185	170			
		5	19258	168	149			
		6	21183	151	128			
		7	23109	109	81			
		8	24072	77	48			
		9	24906	43	11			
WEF-900	960	1	12000	285	280	3	≤82	229
		2	20000	274	260			
		3	22499	258	241			
		4	24250	245	224			
		5	26000	223	199			
		6	27000	195	170			
		7	28499	155	126			
		8	29339	120	90			
		9	30110	71	39			
WEF-1000	960	1	15775	323	317	4	≤84	259
		2	26292	311	295			
		3	29578	293	273			
		4	31879	278	255			
		5	34179	253	226			
		6	35494	221	192			
		7	37466	176	144			
		8	38570	136	102			
		9	39582	81	45			

WEF/WSF-EX性能参数表

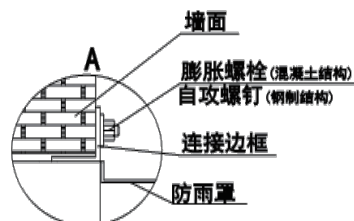
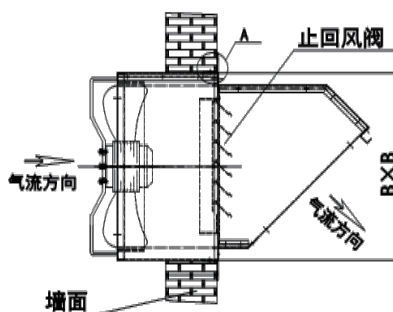
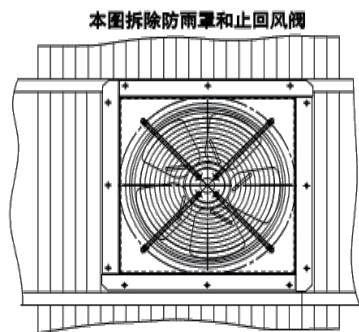
型号	转速	序号	流量	全压	静压	配用电机	噪声	重量
	r/min	No	m ³ /h	Pa	Pa	kW	dB (A)	kg
WEF-250EX	1400	1	290	112	112	0.12	62	33
		2	400	103	102			
		3	588	86	84			
		4	800	65	62			
		5	1000	52	48			
		6	1200	52	46			
		7	1552	39	28			
		8	1644	34	22			
		9	1906	16	0			
WEF-300EX	1400	1	512	97	96	0.12	64	38
		2	711	80	79			
		3	889	70	68			
		4	1068	63	60			
		5	1423	54	49			
		6	1646	46	40			
		7	1780	40	32			
		8	1968	29	19			
WEF-350EX	1400	1	500	165	164	0.12	66	41
		2	1051	142	140			
		3	1333	120	118			
		4	1800	106	100			
		5	2150	87	80			
		6	2433	71	62			
		7	2667	51	41			
		8	2883	32	19			
WEF-400EX	1400	1	1179	153	152	0.25	68	50
		2	1331	142	140			
		3	1600	125	123			
		4	2000	108	104			
		5	2400	106	99			
		6	3200	80	70			
		7	3610	85	73			
		8	4000	27	12			
WEF-450EX	1400	1	1679	194	192	0.37	69	55
		2	1894	180	178			
		3	2278	158	155			
		4	2847	137	132			
		5	3417	133	126			
		6	4557	101	89			
		7	5140	108	92			
		8	5696	34	15			
WEF-500EX	1400	1	2879	168	164	0.55	70	64
		2	3455	158	152			
		3	4607	140	131			
		4	5183	130	118			
		5	5759	118	104			
		6	6334	104	87			
		7	6910	88	67			
		8	7486	69	44			
WEF-550EX	1400	1	5702	167	161	0.75	71	71
		2	6368	151	143			
		3	7027	134	125			
		4	7821	118	106			
		5	8476	102	88			
		6	9130	84	69			
		7	9709	69	51			
		8	10287	53	33			
		9	10941	37	14			

WEF/WSF-EX性能参数表

型号	转速	序号	流量	全压	静压	配用电机	噪声	重量
	r/min	№	m ³ /h	Pa	Pa	kW	dB (A)	kg
WEF-600EX	1400	1	7456	202	195	1.1	73	121
		2	8327	182	172			
		3	9188	162	150			
		4	10227	142	128			
		5	11083	123	107			
		6	11938	102	83			
		7	12695	83	61			
		8	13451	64	40			
		9	14307	45	17			
WEF-650EX	1430	1	8833	233	224	2.2	74	146
		2	9866	209	198			
		3	10888	185	173			
		4	12117	163	147			
		5	13131	141	123			
		6	14145	117	96			
		7	15042	96	72			
		8	15938	74	47			
		9	16951	52	21			
WEF-700EX	910	1	4265	182	180	0.75	75	138
		2	8246	107	101			
		3	9919	98	89			
		4	10427	90	80			
		5	11138	82	72			
		6	12052	67	54			
		7	13047	50	34			
		8	13325	43	27			
		9	13678	34	18			
WEF-750EX	910	1	3791	162	161	1.1	79	160
		2	10749	142	134			
		3	12285	125	115			
		4	13820	111	98			
		5	15356	101	85			
		6	16891	91	72			
		7	18428	65	43			
		8	19195	47	23			
		9	19861	28	3			
WEF-800EX	940	1	4755	278	277	2.2	80	191
		2	13480	210	200			
		3	15405	186	174			
		4	17331	185	170			
		5	19258	168	149			
		6	21183	151	128			
		7	23109	109	81			
		8	24072	77	48			
		9	24906	43	11			
WEF-900EX	960	1	11750	274	268	3	82	234
		2	19584	263	250			
		3	22031	247	231			
		4	23745	235	215			
		5	25459	214	191			
		6	26438	187	163			
		7	27906	148	121			
		8	28728	115	87			
		9	29482	68	38			
WEF-1000EX	960	1	15775	323	317	4	84	265
		2	26292	311	295			
		3	29578	293	273			
		4	31879	278	255			
		5	34179	253	226			
		6	35494	221	192			
		7	37466	176	144			
		8	38570	136	102			
		9	39582	81	45			

● 安装说明 Installation Instruction

WEF 安装详图
WEF Installation Detail Drawing



安装步骤:

1. 墙体开洞，开洞尺寸见图
2. 在墙洞内部的下方放上一层胶皮；
3. 将风机放入墙洞（要保证风机的水平）；
4. 将风机的侧面和顶部的缝隙内填充发泡剂；
5. 用螺栓固定风机

可根据实际情况采用三角形支架或丝杆吊装

型号 MODEL	墙面开洞尺寸(mm)(正方形) Wall opening Size(mm)(Square) B X B
WEF-250D4/E4	340X340
WEF-300D4/E4	390X390
WEF-350D4/E4	440X440
WEF-400D4/E4	490X490
WEF-450D4/E4	540X540
WEF-500D4/E4	590X590
WEF-550D4/E4	640X640
WEF-600D4/E4	790X790
WEF-650D4/E4	835X835
WEF-700D6	880X880
WEF-750D6	945X945
WEF-800D6	1000X1000
WEF-900D6	1100X1100
WEF-1000D6	1200X1200

型 号 MODEL	侧墙开洞尺寸(mm) (正方形) Wall Opening Size (mm)(SQUARE)
WEF/WSF-250D4/E4/Ex4	340 x 340
WEF/WSF-300D4/E4/Ex4	390 x 390
WEF/WSF-350D4/E4/Ex4	440 x 440
WEF/WSF-400D4/E4/Ex4	490 x 490
WEF/WSF-450D4/E4/Ex4	540 x 540
WEF/WSF-500D4/E4/Ex4	590 x 590
WEF/WSF-550D4/E4/Ex4	640 x 640
WEF/WSF-600D4/Ex4	790 x 790
WEF/WSF-650D4/Ex4	835 x 835
WEF/WSF-700D6/Ex6	880 x 880
WEF/WSF-750D6/Ex6	945 x 945
WEF/WSF-800D6/Ex6	1000 x 1000
WEF/WSF-900D6/Ex6	1100 x 1100

● 可选附件Optional Accessory

45°或90°防雨罩

排风机WEF推荐使用45°防雨罩，面向室外出风口处配防鸟网。送风机WSF推荐使用90°防雨罩，面向室外的进风口处配有防虫网，以防止飞虫被吸入室内。以上两种防雨罩为默认配置，在工厂已装配完毕。若外墙配防雨百叶，则可去除。

45°or90°Weather cover WEF exhaust fan shall be with 45°weatherhood,outlet shall be with birdscreen.WSF supply fan shall be with 90°weatherhood,inlet shall be with insectscreen,prevents insects into workshop.The above two weatherhoods are default and assembled in the factory. Weatherhood can be removed if outer wall is with rain-proof louvers.

重力式止回风阀

带有法兰的铝制止回风阀重量轻，阻损小，开启灵活，重力式复位简单可靠。

Gravity back-draft damper

Flanged aluminum back-draft damper is light and low pressure loss.It can be opened easily,and closed by gravity which is simple and reliable.

防腐涂层:根据排放气体成份不同，选择相应的防腐镀层，提高风机的抗腐蚀能力。

Anti-corrosion Paint Select different painting according to different gas to enhance the anti-corrosion capability.

● 保修条款Quality Guarantee

上海哈龙风机电器有限公司郑重承诺:对本公司生产的产品进行自出厂日期起十八个月或者设备安装调试合格之日起十二月的免费质保保证.以先到日期为准。

Shanghai HaLong General Equipment Co. Ltd warrants the equipment you purchased from Walker to be free from defect in material or workmanship under normal usage situations during the warranty period. This warranty is limited to twelve months from the date of the original installation. whether or not actual use begins on that date, or eighteen months from date of shipment by Walker, whichever occurs first.

限制和免除责任条款

本保修条款不包含由下列原因导致的损坏:

- (1)产品野蛮装卸、部分零件被拆卸或不恰当更换、维护使用不当、等人为原因造成的设备损伤;
- (2)设备运行工况与原始设计有较大偏离(包括但不限于温度、气体成份、电源、系统阻力等);
- (3)未经许可的产品拆解后再组装或改造;
- (4)序列号被更改或删除;
- (5)不可抗力造成的产品损坏。

Limitations and Exclusions

The warranty provided herein shall be void and of no effect in the event as following:

- (1) The product has been subjected to misuse, neglect, accident, improper or Inadequate maintenance.And it is not installed and operated In compliance with our Instructions and applicable building, mechanical, plumbing and electrical codes.
- (2) The product has been operated outside its designed capacity.
- (3) Unauthorized modifications are made to the product.
- (4) The serial number of the product has been altered, defaced or removed.
- (5) Force majeure.