



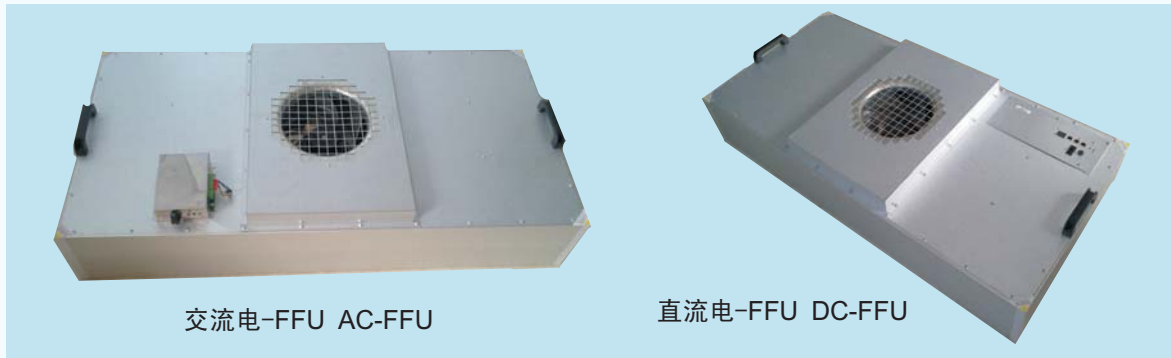
风机过滤机组 Fan Filter Unit

FFU介绍 FFU Introduction

FFU可以使用在不同等级的无尘室，根据无尘室的等级，FFU可用不同的排列方式来做安排，同时也可在较严苛的环境中，藉由FFU的排列来组装一无尘室。产品由金属件构成，不释放气体污染物，具有低噪音，低震动的产品特性，可轻易与各厂牌过滤网互相组合。

FFU can be used in different levels of cleanroom and ranged variable upon the class. In the mean time, the cleanroom can be built with the range of FFU in a strict environment. This product is made of metal which is no gas pollutant release, low noise and low vibration and is also applicable to the other filter brands.

FFU is a high density cleanroom device which can be used in the industry such as the semiconductor or LCD manufacturing. Implanted in the ceilings it resolves the need for hundreds or thousands modules in a large cleanroom.



FFU交流电和直流电规格 FFU AC and DC Specifications

类别 Type	项次 Item	交流 AC		直流 DC	
		FLK-MA24	FLK-MA44	FLK-MD24	FLK-MD44
电源 Power supply	电源 power source	1 φ AC 220V 50 HZ		1 φ 220V 50 HZ	
性能 Performance	输出电力 Power Consumption [W]	125-150	240-300	75	160
	平均风速 Average Velocity [m/s]	0.3-0.45	0.3-0.45	0.3-0.45	0.3-0.45
	滤网压损 Filter Pressure Loss [pa]	90	90	90	90
	机外静压 External Static Pressure [pa]	90	90	90	90
	噪音 Noise [dB(A)]	48-52	50-54	46-50	48-52
外壳材质 Surface material	铝板/不锈钢板/镀锌板 Aluminum sheet/stainless steel sheet/Galvanized sheet				
尺寸 Dimension	宽度 Outer Width-W [mm]	575	1175	575	1175
	长度 Outer Length-L [mm]	1175	1175	1175	1175
	高度 Outer Height-H [mm]	235	245	235	245
重量 Weight	[kg]	20	32	20	32

备注 Notes

1. 建议供电系统安装保护装置以防止马达过热及过电流。
To prevent motor overheating the installation of protective devices is recommended.
2. 尺寸可依需求订制。Special size available upon request.
3. 过滤网可用HEPA或ULPA。Filter can be HEPA or ULPA.
4. 马达有过热保护。Motor has overheat circuit protection
5. 可接手动速度控制及电脑群控。Control Box can be hand-controlled or computer program system control
6. 上述高度未含过滤器高度。Height in above specification doesn't include filter

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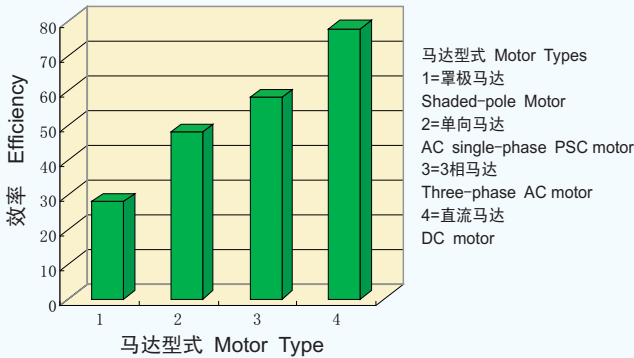


交流与直流FFU的对照 AC VS DC Fan Filter Unit Comparison

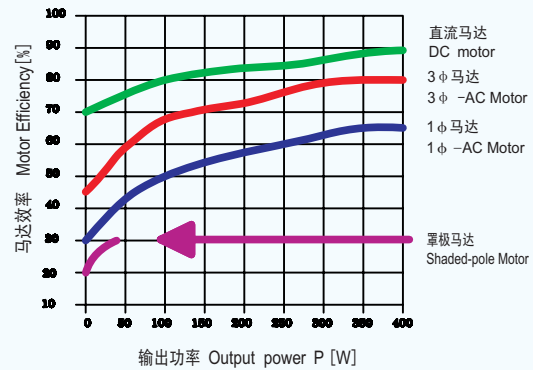
交流与直流的对照-AC VS DC COMPARISON

项目 ITEM	AC-FFU	DC-FFU
马达 Motor	AC	DC
噪音 Noise	48-54dB@0.45m/s	46-52dB@0.45m/s
耗电量 Power Consumption	150W	75W
速度控制 Speed control	手动5档变速器 5-speed manual 预先设定频率 Pre-set frequency	电脑自动控制程序 computer program 0-1450rpm调速 adjustable 0-1450rpm
控制系统 Control system	手动 manual	电脑群控系统可以分区,分群进行调速。任何一个数量都可以,如:10,30,200,1000,5000,10000或25000个单元或者更多. computer program-by zone,group, Time,in-time speed display, Function display,etc. System can be almost any quantity- 10,30,200,1000,5000,10000 or 25000 units and more.
马达转数 Life of motor	40000 h	100000 h

马达效率 Motor efficiency



马达效率-功能图表-Motor efficiency-Power chart



节能比较-ENERGY SAVING COMPARISON

项次 ITEM	AC-FFU	DC-FFU
每年用电量 Power usage one year	0.15kwx24hx365day =1314kw	0.033kwx24hx365day =289kw
冷却系统用电量 Cooling system Power usage	65kw	15kw
总用电量 Total power usage	1379kw	304kw
年节能量 one year energy saving	1075kw	

直流效益与优势 DC BENEFIT AND ADVANTAGE

直流有以下好处与优势. DC-powered unit has the following benefit and advantage

1. 节能请对照以上节能比较表. Energy saving as mentioned in ENERGY SAVING COMPARISON.
2. 低噪音, 至少降低4dB/台. Low noisy level, it is at least 4dB lower per unit
3. 电脑控制系统, 可以电脑控制某个区域, 群组或独立的单元.

Computer program ,control whole system,zone,group or individual unit in one touch

4. 风机寿命更长. Motor has longer life

投资与收益 INVESTMENT AND RETURN:

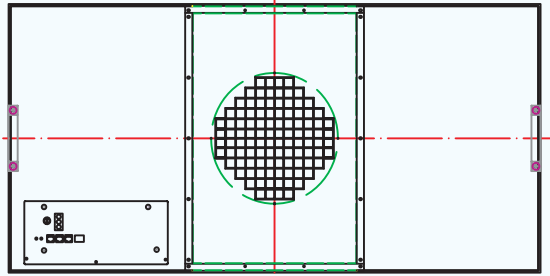
根据节能可在一年内收回整个投资. According to the energy saving all investment should be recovered within one year.

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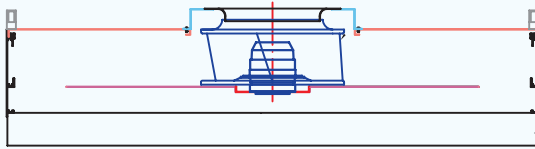


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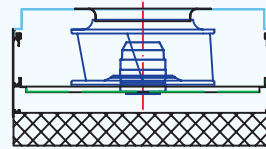
过滤器三视图 Three Dimensional View



顶视图 (Top view)



主视图 (Main view)



右视图 (Right view)

应用场所 Applications

1. 洁净室 Cleanroom
2. 洁净台 Clean booth
3. 制造间 Precision machinery
4. 激光工业, 精密机械 Laser industry, precision machinery
5. 食品及饮料制造业 Food and beverage manufacturing
6. 生化实验 Biochemical experiments
7. 医药业包括药品, 医疗科学和医院 Pharmaceuticals, medical science and hospital
8. 电子及半导体工业 Industry of Electronics & semiconductor

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