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安徽美乐柯制冷空调设备有限公司

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美乐柯冷风机产品技术汇编



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Our company reserves the right to modify the specification in t



2024年05月



美乐柯集团
MELUCK Group

美乐柯集团简介

MELUCK Group Company Profile

美乐柯集团是一家集设计、研发、生产、销售、服务于一体的综合性公司，专业生产商业冷冻冷藏集成化设备，经营“美乐柯”品牌。公司拥有自营进出口权，属中国制冷学会团体会员、中国质量检验学会团体会员、中国知识产权保护协会会员，获得中华人民共和国特种设备制造许可证和全国工业产品生产许可证，国家高新技术企业，拥有《制冷空调维修安装》C2和压力管道设计安装GC2资质，率先在同行业中通过同类产品《企业标准》和ISO9001、ISO14001、ISO18001管理体系认证，是国家《安全生产标准化》单位。

美乐柯集团自1992年成立以来，经过公司全体员工的不断努力，现已成为商业冷冻冷藏集成化设备的龙头企业。至今公司拥有200亩的生产基地，300多名员工，产品与服务方案已应用到全球70多个国家，为上千万的冷链需求提供解决方案。

公司具备雄厚的制冷技术储备、先进的生产流水线和检测设备，按产品制造要求，建立了全套的生产制度流程与完善的质量保障体系。同时公司拥有一系列完整的晋升通道，培训体系，薪酬制度，保障了企业人才梯队建设与员工个人成长。公司注重科技创新投入，目前自行研制的很多关键部件已申请国家专利，至2019年已拥有5项发明专利、36项实用新型专利。

公司主要产品有：螺杆压缩机组，工业冷水机组，转子冷凝机组，涡旋冷凝机组，活塞冷凝机组，吊顶式冷风机，双侧出风冷风机，冷柜冷风机，立式冷风机，风冷冷凝器，壳管式冷凝器，壳管式蒸发器，压力容器等诸多产品。

企业愿景：致力于将美乐柯打造成百年企业。

企业使命：做行业内最优秀的冷冻冷藏集成系统服务商。

企业文化：以客户为中心，质量为本，简单高效，共创、共担、共享

Meluck Group is a comprehensive company integrating design, research and development, production, sales and service. It specializes in the production of integrated commercial freezing and refrigeration equipment and operates the "Meluck" brand. Our company has got licence of imports&exports rights, belongs to the group member of China Refrigeration Society, the group member of China Quality Inspection Society, the member of China Intellectual Property Protection Association, obtained the special equipment manufacturing license of the People's Republic of China and the national industrial product production license. It is a national high-tech enterprise with C2 qualification of "Refrigeration and Air Conditioning Maintenance and Installation" and pressure pipe design and installation GC2. It is the first ones in the industry to pass "Enterprise Standards" and ISO9001, ISO14001, ISO18001 management system certification, and passed «National safety production standardization»

Since its establishment in 1992, Meluck Group has become a leading enterprise in commercial refrigeration integrated equipment through the continuous efforts of all employees of the company. So far, the company has 200 acres of production base, more than 300 employees, products and service solutions have been applied to more than 70 countries around the world, providing solutions for tens of millions of cold chain needs.

The company has strong refrigeration technology reserves, advanced production lines and testing equipment. According to product manufacturing requirements, a complete production system process and a complete quality assurance system have been established. At the same time, the company has a series of complete promotion channels, training systems, and salary systems, which guarantee the construction of corporate talent echelon and personal growth of employees. The company focuses on investment in scientific and technological innovation. At present, many key components developed by itself have applied for national patents. By 2019, it has 5 invention patents and 36 utility model patents.

The company main products are: industrial chiller, screw condensing unit, rotor condensing unit, scroll condensing unit, piston condensing unit, ceiling mounted Evaporator, double-side blowing Evaporator, showcase Evaporator, standing Evaporator, air-cooled Condenser, shell and tube condenser, shell and tube evaporator, pressure vessel and many other related products.

Corporate vision: Committed to making Meluck a century-old enterprise.

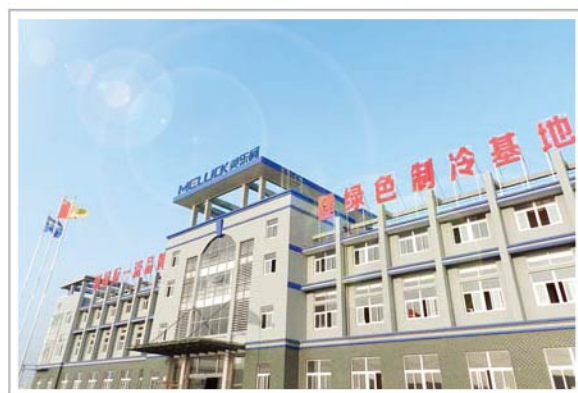
Enterprise mission: To be the best service provider of integrated freezing and refrigeration systems in the industry.

Corporate culture: customer-centric, quality-oriented, simple and efficient, co-creating, sharing



美乐柯分公司

MELUCK Branch



安徽工厂——总部 Anhui Meluck Factory——Headquarter

美乐柯安徽工厂—安徽美乐柯空调设备有限公司总投资1.65亿元，占地200亩，是目前国内最大的制冷设备生产制造基地之一，专业制造和研发风冷凝器、蒸发器、冷凝机组、工业冷水机等制冷设备，公司2012年底已正式投入生产。

Anhui Meluck Refrigeration Air-condition Equipment Co.,Ltd. invested about U.S dollar Twenty Six Million, with 130000m² area; is one of the biggest refrigeration equipment manufacturing bases in China, specialized in manufacturing and researching for the refrigeration equipments like air cooled condenser, evaporator, condensing unit, industry chiller etc. the factory has started production in 2012.



上海美乐柯 Shanghai Meluck

上海美乐柯营销与服务中心，公司内有40名专业的销售和技术服务人员，为全球客户提供专业的技术支持和服务，公司具有GC2设计资质与安装资质，机电安装资质等众多权威资质，能为客户提供整体方案设计与选型服务。

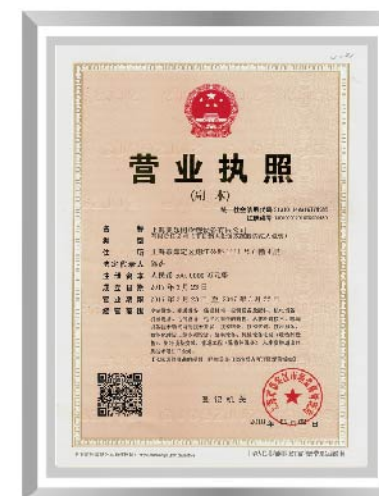
Shanghai Meluck Marketing and Service Center consist of 40 skilled sales and technicians, providing professional technical supports and services to global customers. The company has GC2 design qualification and installation qualification, electromechanical installation qualification and many other authoritative qualifications. Can provide customers with overall program design and model selection services.

企业资质

Enterprise Qualification

不断创新, 确保客户对我们的产品满意, 被我们的服务感动, 争创名优!

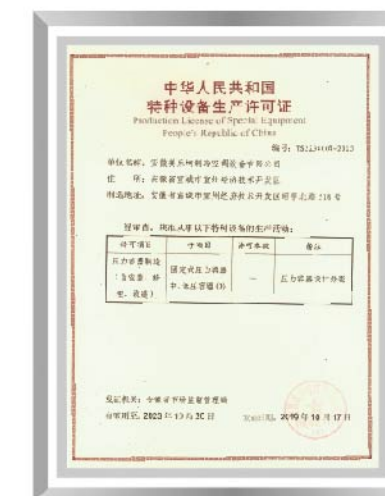
Innovation, for the customer's satisfaction, With our excellent service and product



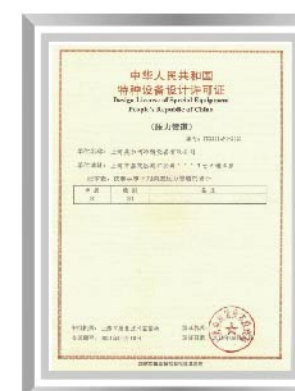
上海营业执照
Shanghai Business License



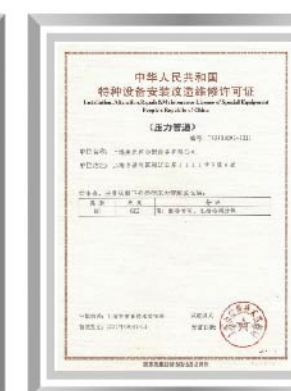
安徽营业执照
Anhui Business License



特种设备制造许可证
Certificate for Special High Pressure Vessel Manufacturing



压力管道设计证书
Pressure piping design certificate



压力管道安装证书
Pressure piping installation certificate



环境管理体系认证证书
Environmental management system certification



质量管理体系认证证书
Quality management system certification



安徽省商标品牌示范企业
Anhui Province Trademark Brand Demonstration Enterprise



高新技术企业证书
High-tech Enterprise Certificate



省认定企业技术中心证书
Provincial Certification of Enterprise Technology Center

一流的生产线

Advanced Machines Guarantee High Quality

精益化的生产节拍，标准化的工艺流程，通过优质的产品体现“美乐柯”的品牌价值

Advance equipment created excellent production ,and high quality of Meluck products.



先进的生产设备

Advanced Machines Guarantee High Quality

先进的设备和精湛的生产工艺，铸就了美乐柯产品的优秀品质！

Advance equipment created excellent production ,and high quality of Meluck products.



静电粉末喷涂生产线
Static electricity powder painting production line



数控折弯机
CNC bending machine



数控激光切割机
CNC laser cutting machine



卧式胀管机
Horizontal Type Pipe Expansion Machine



四柱油压机
4 Column Oil Pressing Machine



高速翅片冲压线
High-speed fin press line



数控5轴相贯线切割机器人
CNC 5-axis intersecting wire cutting robot

企业历程

Enterprise History

MELUCK®

科技之美 • 乐享未来

1992-1998



- 公司成立，生产开启式压缩机；
- 风冷凝器和冷风机生产启动；
- 通过“压缩冷凝机组”、“风冷凝器”和“冷风机”企业标准；

生产壳管式冷凝器

行业内首家通过ISO9000认证

成立上海美乐柯制冷设备有限公司

荣获德国比泽尔压缩机一级代理商

重新定义市场定位向专业设备生产企业转型



1999-2004

2005-2010



- 获得国家质检总局颁发的壳管式冷凝器生产许可证
- 成为德国比泽尔压缩机全国销量第一名
- 获得国家质检总局颁发的制冷机组生产许可证
- 美乐柯集团入驻南翔经济城工业园区
- 获得全国工业产品生产许可证，并通过ISO9001质量管理体系认证
- 全面启动并推行质检MZT管理措施

美乐柯集团生产的保鲜冷冻库荣获中央财政农业机械购置补贴

200亩的生产基地在安徽正式投产并与合肥工业大学合作成立制冷技术与工程研究院

美乐柯集团与合肥工业大学共同研制的“一种二氧化碳复叠式商用制冷系统”产品获得国家发明专利

美乐柯集团上线ERP管理系统

美乐柯集团正式取得美国UL产品认证证书

美乐柯集团冷水机组实验室获得合肥通用所验收许可



2011-2016

2017-2019



- 董事长陈建平当选宣城市人大代表；安徽美乐柯公司被认定为省级企业技术中心。
- 安徽美乐柯公司进入安徽省第一批科技型中小企业名单，并荣获高新区2017年度“综合实力十强”称号。
- 荣获高新区2018年度“综合实力十强”称号和年度综合目标管理考核“一等奖”。安徽美乐柯公司于9月12日科技创新专板成功挂牌。



D系列冷风机
D series of air cooler

产品特点Features

D系列冷风机是一种配套于氟利昂制冷机组使用于各种冷库的库内冷却降温设备，按适用温度来分，分为DL、DD、DJ三种系列，可分别适用于不同的库温，DL型冷风机主要适用于0℃左右的保鲜库；DD型冷风机主要适用于-18℃左右的冷藏库；DJ型冷风机主要适用于-25℃~-30℃的速冻库。

- 该系列产品具有如下特点：
- 外壳采用优质钢板，表面喷塑、耐腐蚀、外形美观；
 - 盘管采用错排方式，利用机械胀管，使铜管与铝片紧密接合，换热效果好；
 - 优质不锈钢电加热管均匀分布于盘管中，除霜效果好；
 - 采用双水盘结构，可有效防止水盘结冰。
 - 可根据客户要求采用长距离送风风筒；

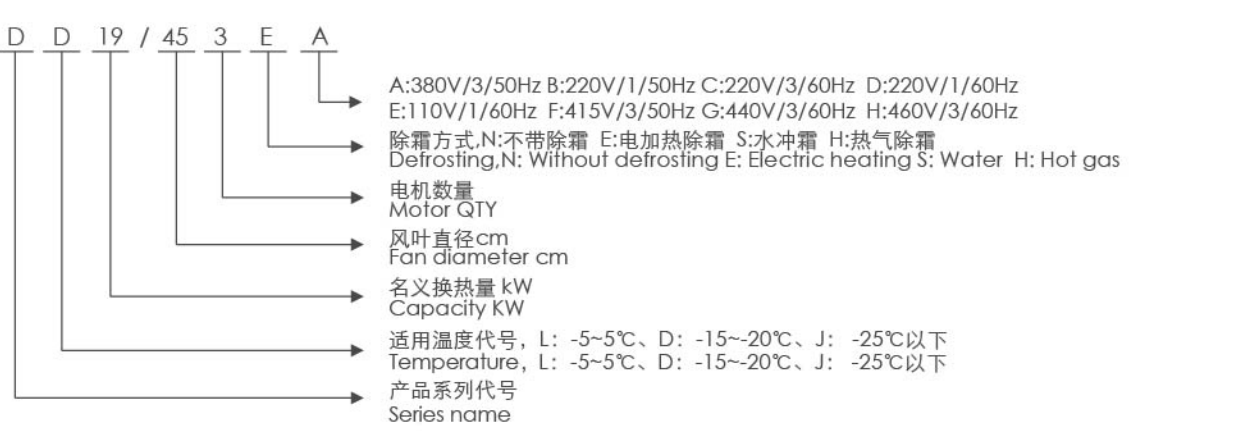
The D series of air cooler is a kind of indoor cooling equipment matching with Freon condensing unit for all kinds of cold room, As per different temperature, has DL, DD, DJ 3 sub series of production for different range temperature needed. DL air cooler for around 0℃, mainly use for fresh-keep cold storage; DD for around -18℃, mainly use for cold storage; DJ for temperature below -25℃~-30℃, specially use for blast freezer room. This series products features:

- Cabinet of steel plate with plastic spray, corrosion proof and pleasant looking.
- Mechanically expanded pipes with AL fins with good transfer performance.
- Inside are evenly arranged with defrosting heater.
- The bottom has double water receivers, effective for anti-freezing.
- Long distance air throw is optional.

1. DL型冷风机 (片距4.5mm)
DL Model (Fin Space 4.5mm)

型号 Model	制冷量Capacity(kw) DT=7K to=-7 °C	风量 Air flow m³/h	射程 Air throw m	风机总功率 Fan W	化霜功率(KW) Defrosting		外形及安装尺寸overall size(mm)										接管管径pipe dia(mm)		排水管 drainage	净重 Weight
	R22				盘管coil	水盘 water receiver	A	B	C		D	E	E1	E2	E3	F	进液liquid	回气gas		
DL2.2/351EA	2.2	2250	10	140	1	0.5	642	494	480		384	440	-	-	-	103	φ12.7	φ12.7	1"	23.7
DL3.5/351EA	3.5	2250	10	140	1.5	0.5	642	494	480		384	440	-	-	-	103	φ12.7	φ19	1"	26.5
DL4.7/352EA	4.7	4500	10	280	2.7	0.9	1107	494	480		384	860	-	-	-	131	φ12.7	φ22	1"	41
DL6/352EA	6	4500	10	280	3.6	0.9	1107	494	480		384	860	-	-	-	131	φ12.7	φ22	1"	44
DL9/352EA	9	4500	10	280	3.6	1.2	1407	504	480		384	1160	-	-	-	131	φ16	φ22	1"	52
DL12.5/452EA	12.5	9000	14	580	4.8	1.2	1552	586	680		484	1240	-	-	-	164	φ16	φ22	1"	72
DL14.5/452EA	14.5	9000	14	580	6	1.2	1552	586	680		484	1240	-	-	-	164	φ16	φ28	1"	81
DL17/452EA	17	9000	14	580	6	1.2	1672	586	680		484	1360	-	-	-	164	φ16	φ28	1.5"	80
DL25/502EA	25	12000	15	1000	10	4	2114	586	680		502	1801	920.5	880.5		164	φ22	φ35	1.5"	113
DL29/503EA	29	18000	15	1500	10	4	2687	612	680		502	2374	818	778	-	164	φ22	φ35	2"	141
DL36.5/553EA	36.5	22500	18	2250	10	4	2695	595	765		502	2374	818	778	-	160	φ22	φ42	2"	159
DL42/553EA	42	22500	18	2250	12	4	2890	595	765		502	2560	880	840	-	160	φ22	φ42	2"	176
DL49/553EA	49	22500	18	2250	12	4	2890	675	765		582	2560	880	840	-	160	φ22	φ54	2"	190
DL59/554EA	59	30000	18	3000	15.6	5.2	3778	685	865		582	3440	890	850	850	170	φ28	φ54	2-2"	277
DL70/554EA	70	30000	18	3000	15.6	5.2	3778	685	975		582	3440	890	850	850	170	φ28	φ54	2-2"	312
DL84/554EA	84	30000	18	3000	23.4	5.2	3978	785	975		682	3600	930	890	890	240	φ28	φ54	2-2"	373
DL103/604EA	103	42000	18	3400	26	5.2	3978	785	975		682	3600	930	890	890	240	φ35	φ60	2-2"	442
DL112/634EA	112	46000	18	3520	31.2	5.2	3988	785	1075		682	3620	950	890	890	240	φ35	φ60	2-2"	487
DL122/634EA	122	46000	20	3520	33.8	5.2	3988	785	1175		682	3620	950	890	890	240	φ35	φ60	2-2"	516

型号说明 Mode Code



DL型冷风机温度影响系数A1 (表1)
DL model temperature coefficient A1 (table 1)

传热温差 Temperature difference ΔT(K)	库内温度(℃)Temperature						
	-2	0	2	4	6	8	10
10K	1.21	1.25	1.29	1.31	1.34	1.35	1.35
8K	1.09	1.12	1.15	1.18	1.20	1.21	1.21
7K	0.97	1.00	1.03	1.05	1.07	1.08	1.08
6K	0.83	0.86	0.89	0.90	0.92	0.93	0.93

D系列冷风机
D series of air cooler

主要技术参数Specification

2. DD型冷风机（片距6.0mm）
DD Model (fin space 6.0mm)

型号 Model	制冷量Capacity(kw) DT=7K t0=-25℃	风量 Air flow m³/h	射程 Air throw m	风机总功率 Fan W	化霜功率(KW) Defrosting		外形及安装尺寸overall size(mm)										接管管径pipe dia(mm)		排水管 drainage	净重 Weight
	R22				盘管coil	水盘 water receiver	A	B	C		D	E	E1	E2	E3	F	进液liquid	回气gas		
DD1.4/351EA	1.4	2250	10	140	1	0.5	642	494	480		384	440	-	-	-	103	φ12.7	φ12.7	1"	23.5
DD2.3/351EA	2.3	2250	10	140	1.5	0.5	642	494	480		384	440	-	-	-	103	φ12.7	φ19	1"	26
DD3/352EA	3	4500	10	280	2.7	0.9	1107	494	480		384	860	-	-	-	131	φ12.7	φ22	1"	40
DD4.5/352EA	4.5	4500	10	280	3.6	0.9	1107	494	480		384	860	-	-	-	131	φ12.7	φ22	1"	43
DD6/352EA	6	4500	10	280	3.6	1.2	1407	504	480		384	1160	-	-	-	131	φ16	φ22	1"	51
DD7.5/452EA	7.5	9000	14	580	4.8	1.2	1552	586	680		484	1240	-	-	-	164	φ16	φ22	1"	70.5
DD9/452EA	9	9000	14	580	6	1.2	1552	586	680		484	1240	-	-	-	164	φ16	φ28	1"	80
DD11/452EA	11	9000	14	580	6	1.2	1672	586	680		484	1360	-	-	-	164	φ16	φ28	1.5"	77.5
DD15.5/502EA	15.5	12000	15	1000	10	4	2114	586	680		502	1801	920.5	880.5		164	φ22	φ35	1.5"	110
DD19/503EA	19	18000	15	1500	10	4	2687	612	680		502	2374	818	778	-	164	φ22	φ35	2"	138
DD24/553EA	24	22500	18	2250	10	4	2695	595	765		502	2374	818	778	-	160	φ22	φ42	2"	156
DD29/553EA	29	22500	18	2250	12	4	2890	595	765		502	2560	880	840	-	160	φ22	φ42	2"	172
DD32/553EA	32	22500	18	2250	12	4	2890	675	765		582	2560	880	840	-	160	φ22	φ54	2"	186
DD38/554EA	38	30000	18	3000	15.6	5.2	3778	685	865		582	3440	890	850	850	170	φ28	φ54	2-2"	272
DD47/554EA	47	30000	18	3000	15.6	5.2	3778	685	975		582	3440	890	850	850	170	φ28	φ54	2-2"	305
DD58/554EA	58	30000	18	3000	23.4	5.2	3978	785	975		682	3600	930	890	890	240	φ28	φ54	2-2"	364
DD72/604EA	72	42000	18	3400	26	5.2	3978	785	975		682	3600	930	890	890	240	φ35	φ60	2-2"	432
DD79/634EA	79	46000	18	3520	31.2	5.2	3988	785	1075		682	3620	950	890	890	240	φ35	φ60	2-2"	476
DD88/634EA	88	46000	20	3520	33.8	5.2	3988	785	1175		682	3620	950	890	890	240	φ35	φ60	2-2"	505



DD型冷风机温度影响系数A1（表2）
DD model temperature coefficient A1 (table 2)

传热温差 Temperature difference ΔT(K)	库内温度(℃)Temperature					
	-23	-18	-13	-8	-3	2
8	1.10	1.12	1.15	1.18	1.20	1.21
7	0.98	1.00	1.03	1.05	1.07	1.08
6	0.84	0.86	0.89	0.90	0.92	0.93

D系列冷风机
D series of air cooler

主要技术参数Specification

3、DJ型冷风机（片距9.0mm
DJ Model (fin space 9.0mm)

型号 Madel	制冷量Capacity(kw) DT=7K t0=-32℃	风量 Air flow m³/h	射程 Air throw m	风机总功率 Fan W	化霜功率(KW) Defrosting		外形及安装尺寸overall size(mm)										接管管径pipe dia(mm)		排水管 drainage	净重 Weight
	R22				盘管coil	水盘 water receiver	A	B	C		D	E	E1	E2	E3	F	进液liquid	回气gas		
DJ1.7/351EA	1.7	2250	10	140	1.5	0.5	642	494	480		384	440	-	-	-	103	Φ12.7	φ19	1"	26
DJ2.2/352EA	2.2	4500	10	280	2.7	0.9	1107	494	480		384	860	-	-	-	131	Φ12.7	φ22	1"	40
DJ2.7/352EA	2.7	4500	10	280	3.6	0.9	1107	494	480		384	860	-	-	-	131	Φ12.7	φ22	1"	43
DJ4.2/352EA	4.2	4500	10	280	3.6	1.2	1407	504	480		384	1160	-	-	-	131	φ16	φ22	1"	51
DJ5.6/452EA	5.6	9000	14	580	4.8	1.2	1552	586	680		484	1240	-	-	-	164	φ16	φ22	1"	70
DJ6.8/452EA	6.8	9000	14	580	6	1.2	1552	586	680		484	1240	-	-	-	164	φ16	φ28	1"	79.5
DJ7.8/452EA	7.8	9000	14	580	6	1.2	1672	586	680		484	1360	-	-	-	164	φ16	φ28	1.5"	77
DJ11.5/502EA	11.5	12000	15	1000	10	4	2114	586	680		502	1801	920.5	880.5		164	φ22	φ35	1.5"	109
DJ14/503EA	14	18000	15	1500	10	4	2687	612	680		502	2374	818	778	-	164	φ22	φ35	2"	137
DJ17/553EA	17	22500	18	2250	10	4	2695	595	765		502	2374	818	778	-	160	φ22	φ42	2"	155
DJ20/553EA	20	22500	18	2250	12	4	2890	595	765		502	2560	880	840	-	160	φ22	φ42	2"	171
DJ23/553EA	23	22500	18	2250	12	4	2890	675	765		582	2560	880	840	-	160	φ22	φ54	2"	184
DJ26/554EA	26	30000	18	3000	15.6	5.2	3778	685	865		582	3440	890	850	850	170	φ28	φ54	2-2"	270
DJ31/554EA	31	30000	18	3000	15.6	5.2	3778	685	975		582	3440	890	850	850	170	φ28	φ54	2-2"	303
DJ40/554EA	40	30000	18	3000	23.4	5.2	3978	785	975		682	3600	930	890	890	240	φ28	φ54	2-2"	361
DJ49/604EA	49	42000	18	3400	26	5.2	3978	785	975		682	3600	930	890	890	240	φ35	φ60	2-2"	428
DJ53.6/634EA	53.6	46000	18	3520	31.2	5.2	3988	785	1075		682	3620	950	890	890	240	φ35	φ60	2-2"	471
DJ58/634EA	58	46000	20	3520	33.8	5.2	3988	785	1175		682	3620	950	890	890	240	φ35	φ60	2-2"	500

DJ型冷风机温度影响系数A1（表3）
DJ model temperature coefficient A1 (table 3)

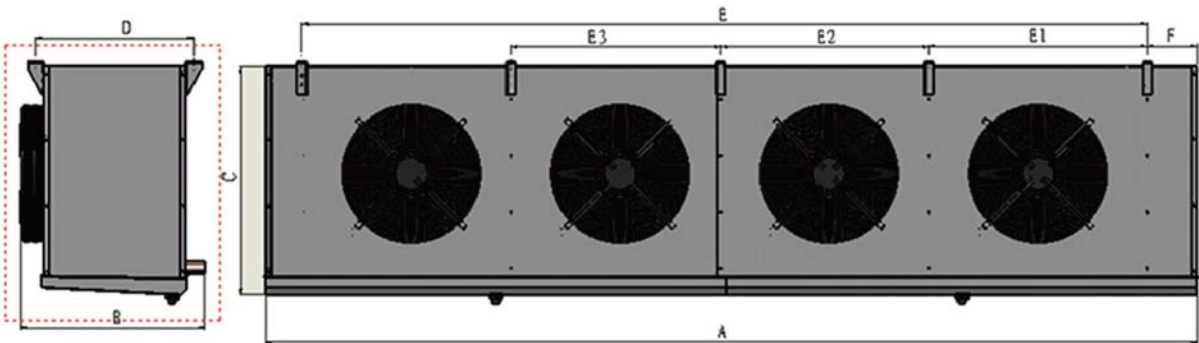
传热温差 Temperature difference ΔT(K)	库内温度(℃)Temperature					
	-28	-25	-18	-13	-8	-3
8	1.10	1.12	1.14	1.16	1.20	1.22
7	0.98	1.00	1.02	1.04	1.07	1.09
6	0.84	0.86	0.88	0.89	0.92	0.94

制冷剂影响系数A2（表4）
Capacity coefficient A2 (table 4)

制冷剂Capacity	影响系数Influence coefficient
R22	1
R507A	1.03
R404A	1.05

样本中所标定的制冷量为设计工况下的名义制冷量，用户应根据所使用的制冷剂、冷间温度及传热温差来合理选型。
冷风机实际冷量应根据下式来修正：
 $QR = QN \times A1 \times A2$
式中：QR —— 冷风机实际冷量（KW）
QN —— 冷风机名义冷量（KW）
A1 —— 温度影响系数 见表1、表2、表3
A2 —— 制冷剂影响系数 见表4

All refrigerating capacity in this book is Nominal Refrigerating Capacity, user could select the right model through the capacity, room temperature and the different of transfer temperature.
Actual refrigerating capacity =Nominal Refrigerating Capacity*Temperature coefficient*Capacity coefficient



水冲霜系列冷风机

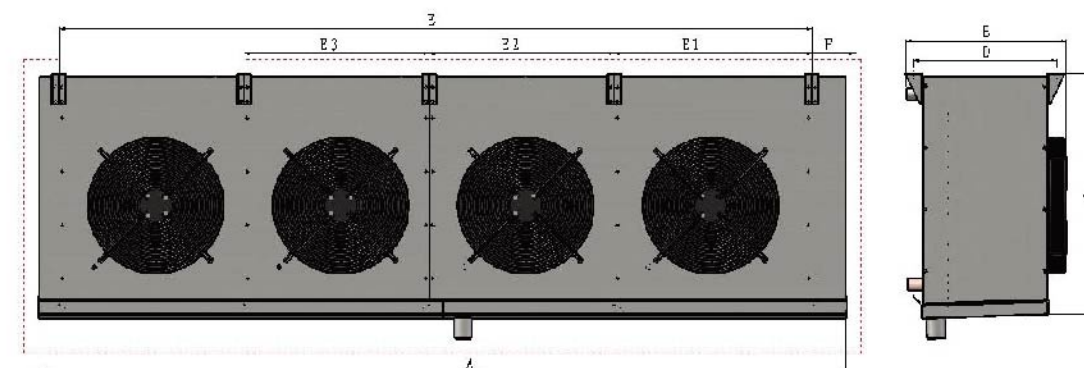
DS Series Water Defrosting Air Coolers

主要技术参数Specifications:

片距: 4.5mm								
型 号 Madel	换热量 DT=7K kW	风 机 Air Coolers					冲霜水量 Defrost water m³/h	重量 weight kg
		风量 Air flow m³/h	直径 Dia mm	射程 Air throw m	功率 Input w	电压 Voltage V		
DL17/402SA	17	7000	400	12	2×195	380	2.4	92.5
DL25/502SA	25	12000	500	15	2×500	380	3.3	125
DL29/453SA	29	13500	450	14	3×280	380	4.3	155
DL36.5/503SA	36.5	18000	500	15	3×500	380	5.0	175
DL42/503SA	42	18000	500	15	3×500	380	5.8	194
DL49/503SA	49	18000	500	15	3×500	380	7.3	209
DL59/504SA	59	24000	500	15	4×500	380	9.0	305
DL70/554SA	70	30000	550	18	4×750	380	10.1	343
DL84/554SA	84	30000	550	18	4×750	380	13.2	411
DL103/604SA	103	42000	600	18	4×850	380	15.8	483
DL112/634SA	112	46000	630	18	4×880	380	17.6	536
DL122/634SA	122	46000	630	20	4×880	380	19.4	563
片距: 6mm								
DD11/402SA	11	7000	400	12	2×195	380	2.4	91
DD15.5/502SA	15.5	12000	500	15	2×500	380	3.3	121
DD19/453SA	19	13500	450	14	3×280	380	4.3	152
DD24/503SA	24	18000	500	15	3×500	380	5.0	172
DD29/503SA	29	18000	500	15	3×500	380	5.8	189
DD32/503SA	32	18000	500	15	3×500	380	7.3	205
DD38/504SA	38	24000	500	15	4×500	380	9.0	300
DD47/554SA	47	30000	550	18	4×750	380	10.1	336
DD58/554SA	58	30000	550	18	4×750	380	13.2	400
DD72/604SA	72	42000	600	18	4×850	380	15.8	475
DD79/634SA	79	46000	630	18	4×880	380	17.6	524
DD88/634SA	88	46000	630	20	4×880	380	19.4	556
片距: 9mm								
DJ7.8/402SA	7.8	7000	400	12	2×195	380	2.4	91
DJ11.5/502SA	11.5	12000	500	15	2×500	380	3.3	120
DJ14/453SA	14	13500	450	14	3×280	380	4.3	151
DJ17/503SA	17	18000	500	15	3×500	380	5.0	170.5
DJ20/503SA	20	18000	500	15	3×500	380	5.8	188
DJ23/503SA	23	18000	500	15	3×500	380	7.3	202.5
DJ26/504SA	26	24000	500	15	4×500	380	9.0	297
DJ31/554SA	31	30000	550	18	4×750	380	10.1	333.5
DJ40/554SA	40	30000	550	18	4×750	380	13.2	397
DJ49/604SA	49	42000	600	18	4×850	380	15.8	471
DJ53.6/634SA	53.6	46000	630	18	4×880	380	17.6	518
DJ58/634SA	58	46000	630	20	4×880	380	19.4	550

外形及安装尺寸Overall and installing size

型 号	外型尺寸(Overall size)mm			吊顶安装尺寸(Installing size)mm							接管管径 Pipe dia		水冲霜管径 Pipe dia	
	A	B	C	D	E	E1	E2	E3	E4	F	进口 In	出口 Out	进水 In	出水 Out
DL17/402SA DD11/402SA DJ7.8/402SA	1666	602	926	502.5	1360	700	—	—	—	166	φ16	Φ28	1.5"	2"
DL25/502SA DD15.5/502SA DJ11.5/502SA	2107	632	930	502.5	1801	920.5	—	—	—	166	φ22	Φ35		
DL29/453SA DD19/453SA DJ14/453SA	2680	632	930	502.5	2374	818	778	778	—	166	φ22	Φ35		
DL36.5/503SA DD24/503SA DJ17/503SA	2680	632	1030	502.5	2374	818	778	778	—	166	Φ22	Φ42		
DL42/503SA DD29/503SA DJ20/503SA	2891	632	1056	502.5	2560	880	840	840	—	181	Φ22	Φ42		3"
DL49/503SA DD32/503SA DJ23/503SA	2891	683	1056	583.5	2560	880	840	840	—	181	Φ22	φ54		
DL59/504SA DD38/504SA DJ26/504SA	3771	683	1156	583.5	3440	890	850	850	850	181	φ28	φ54	2× 1.5"	4"
DL70/554SA DD47/554SA DJ31/554SA	3771	681	1255	583.5	3440	890	850	850	850	181	φ28	φ54		
DL84/554SA DD58/554SA DJ40/554SA	3971	765	1255	683.5	3600	930	890	890	890	221	φ28	φ54		
DL103/604SA DD72/604SA DJ49/604SA	3971	803	1255	683.5	3600	930	890	890	890	221	φ35	Φ60		
DL112/634SA DD79/634SA DJ53.6/634SA	3991	815	1360	683.5	3620	950	890	890	890	241	Φ35	Φ60		
DL122/634SA DD88/634SA DJ58/634SA	3991	815	1460	683.5	3620	950	890	890	890	241	Φ35	Φ60		



MAC新型吊顶式冷风机

MAC Series Air Coolers

产品特点Features

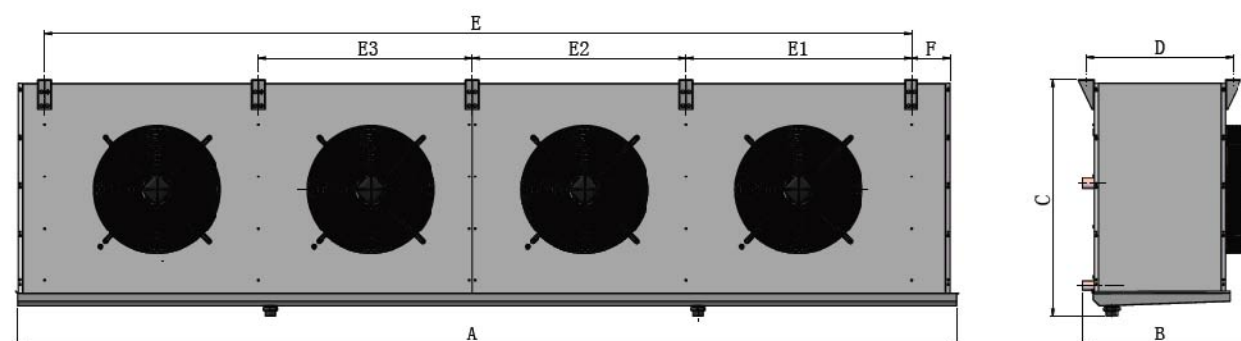
MAC系列吊顶式冷风机是一种配套于氟利昂制冷机组使用于各种冷库的库内冷却降温设备，可广泛应用于食品的保鲜、冷藏及速冻等。

该系列产品具有如下特征：

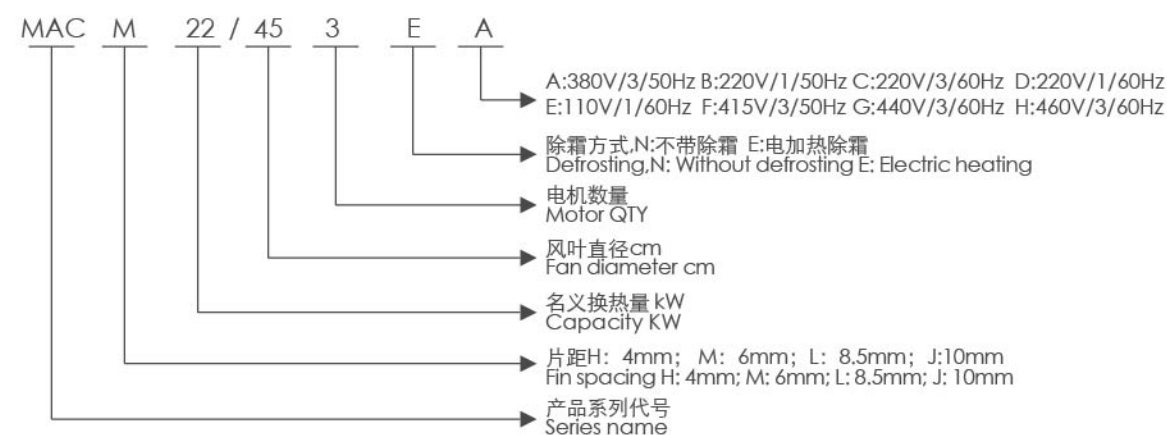
- 盘管采用φ12.7的高效内螺纹铜管，管间距37.5×32.5，正三角形排列；
- 采用4.0、6.0、8.5、10.0四种片距规格，可供用户选择，以满足不同的库温要求；
- 采用耐低温的外转子电机，噪音小、效率高、可靠性好；
- 采用意大利佐帕斯公司生产的优质不锈钢电加热管，均匀分布于盘管中，除霜效果好；
- 电机及电热管均预先连接于接线盒中，方便用户接线；
- 外壳采用铝镁合金板，外形美观。

MAC series ceiling air cooler is Freon refrigeration units, can be used for the food fresh, cold storage and quick freezing etc. This series products features:

- Coil made of φ12.7 efficient copper tube with internal thread, 37.5×32.5 positioned in equilateral triangle.
- 4 different fin space of 4.0, 6.0, 8.5, 10.0 for customer's choice to meet different temperature requirement of the room.
- External rotor fan for low temperature, with low noise, high efficiency, and reliability.
- Stainless steel electric heater produced by Italian Zuomoshi Company, which evenly placed in the coil with good defrosting effect.
- Fan motor and electric heater has been connected to the terminal box, convenient for wire connection.
- Shell made of alloy of aluminum or stainless plate, easy to be assembled and disassembled.



型号说明Mode Code



名义换热量条件为：库温0℃、蒸发温度-8℃、温差DT=8K、制冷剂R22

Nominal capacity affected by: room temperature 0℃, evap. Temperature -8℃, different temperature DT=8K, and refrigerant is R22.

主要技术参数Specification

片距 4.0mm(适用于库温0℃以上)

Fin space 4.0mm (for room temperature 0℃and beyond)

型 号 Model		名义换热量 Nominal capacity	面积 Area	风量 Air flow	射程 Air throw	管容 Tube V	风扇电机 Fan motor				融霜电热管 Defrosting electric heater tube		
							电压 Voltage	直径 Dia.	数量 Qty.	功率 Input	电压 Voltage	功率 Input(kW)	
		kW	m²	m³/h	m	dm³	V	mm	n	W	V	盘管 Coil tube	水盘 water
风叶 φ350	MACH3.7/351EA	3.7	16.8	2500	12	4	380	350	1	150	220	1.2	0.6
	MACH5.2/351EA	5.2	25.2	2300	11	6	380	350	1	150	220	1.2	0.6
	MACH7.3/352EA	7.3	33.6	5000	13	7.7	380	350	2	300	220	2.4	1.2
	MACH10.4/352EA	10.4	50.5	4600	12	11.5	380	350	2	300	220	3.6	1.2
	MACH11.1/353EA	11.1	50.5	7500	14	11.3	380	350	3	450	220	3.0	1.5
	MACH15.5/353EA	15.5	75.7	6900	13	17	380	350	3	450	220	4.5	1.5
风叶 φ450	MACH10/451EA	10	47.7	5000	14	11.1	380	450	1	250	220	3.3	1.1
	MACH12.1/451EA	12.1	63.5	4800	12	14.7	380	450	1	250	220	4.4	1.1
	MACH20/452EA	20	95.3	10000	16	21.4	380	450	2	500	220	6.0	2.4
	MACH24.1/452EA	24.1	127	9600	14	28.5	380	450	2	500	220	8.0	2.4
	MACH30/453EA	30	143	15000	18	31.8	380	450	3	750	220	9.5	3.8
	MACH36.3/453EA	36.3	191	14400	16	42.4	380	450	3	750	220	11.4	3.8
	MACH40/454EA	40	191	20000	18	42.1	380	450	4	1000	220	12.5	5
	MACH48.3/454EA	48.3	254	19200	16	55	380	450	4	1000	220	15	5
风叶 φ550	MACH39.1/552EA	39.1	205.6	15600	20	45.8	380	550	2	1200	220	11.9	3.4
	MACH46.5/552EA	46.5	257	15200	18	57.3	380	550	2	1200	220	17	3.4
	MACH58.2/553EA	58.2	308.4	23400	22	68.2	380	550	3	1800	220	20	5
	MACH69.7/553EA	69.7	385.4	22800	20	85.2	380	550	3	1800	220	25	5
	MACH78.3/554EA	78.3	411	31200	23	90.6	380	550	4	2400	220	23.1	6.6
	MACH93.1/554EA	93.1	514	30400	21	113.2	380	550	4	2400	220	26.4	6.6
风叶 φ630	MACH54.9/632EA	54.9	287.8	23600	30	64.2	380	630	2	1760	220	17	3.4
	MACH65.1/632EA	65.1	359.7	21600	28	80.3	380	630	2	1760	220	23.8	3.4
	MACH82.2/633EA	82.2	431.7	35400	30	95.5	380	630	3	2640	220	27.5	5
	MACH97.6/633EA	97.6	539.6	32400	28	119	380	630	3	2640	220	35	5
	MACH109.5/634EA	109.5	575.6	47200	30	127	380	630	4	3520	220	39.6	6.6
	MACH130.2/634EA	130.2	719.5	43200	28	159	380	630	4	3520	220	49.5	6.6

名义换热量条件为：库温0℃、蒸发温度-8℃、温差DT=8K、制冷剂R22

Nominal capacity affected by: room temperature 0℃, evap. Temperature -8℃, different temperature DT=8K, and refrigerant is R22.

MAC新型吊顶式冷风机
MAC Series Air Coolers

主要技术参数Specification

片距 6.0mm (适用于库温-18℃以上)
Fin space 6.0mm (for room temperature -18℃ and beyond)

型 号 Model		名义换热量 Nominal capacity	面积 Area	风量 Air flow	射程 Air throw	管容 Tube V	风扇电机 Fan motor				融霜电热管 Defrosting electric heater tube		
							电压 Voltage	直径 Dia.	数量 Qty.	功率 Input	电压 Voltage	功率 Input(kW)	
							V	mm	n	W	V	盘管 Coil tube	水盘 water
风叶 φ350	MACM3/351EA	3	11.5	2800	13	4	380	350	1	150	220	1.2	0.6
	MACM4.1/351EA	4.1	17.3	2500	12	6	380	350	1	150	220	1.2	0.6
	MACM5.9/352EA	5.9	23	5600	14	7.7	380	350	2	300	220	2.4	1.2
	MACM8.2/352EA	8.2	34.6	5000	13	11.5	380	350	2	300	220	3.6	1.2
	MACM8.9/353EA	8.9	34.6	8400	15	11.3	380	350	3	450	220	3.0	1.5
	MACM12.4/353EA	12.4	51.9	7500	14	17	380	350	3	450	220	4.5	1.5
风叶 φ450	MACM7.3/451EA	7.3	32.6	5200	15	11.1	380	450	1	250	220	3.3	1.1
	MACM8.7/451EA	8.7	43.5	5000	14	14.7	380	450	1	250	220	4.4	1.1
	MACM14.5/452EA	14.5	65.2	10400	16	21.4	380	450	2	500	220	6.0	2.4
	MACM17.4/452EA	17.4	87	10000	15	28.5	380	450	2	500	220	8.0	2.4
	MACM22/453EA	22	98	15600	18	31.8	380	450	3	750	220	9.5	3.8
	MACM26/453EA	26	130.6	15000	16	42.4	380	450	3	750	220	11.4	3.8
	MACM29.2/454EA	29.2	130.6	20800	20	42.1	380	450	4	1000	220	12.5	5
	MACM34.7/454EA	34.7	174	20000	18	55	380	450	4	1000	220	15	5
风叶 φ550	MACM30.1/552EA	30.1	140.8	16600	24	45.8	380	550	2	1200	220	11.9	3.4
	MACM35.2/552EA	35.2	176	15600	22	57.3	380	550	2	1200	220	17	3.4
	MACM43.2/553EA	43.2	211.2	24900	26	68.2	380	550	3	1800	220	20	5
	MACM52.8/553EA	52.8	264	23400	24	85.2	380	550	3	1800	220	25	5
	MACM56.3/554EA	56.3	281.6	33200	28	90.6	380	550	4	2400	220	23.1	6.6
	MACM70.4/554EA	70.4	352	31200	26	113.2	380	550	4	2400	220	26.4	6.6
风叶 φ630	MACM41.3/632EA	41.3	197.1	23600	28	64.2	380	630	2	1760	220	17	3.4
	MACM49.2/632EA	49.2	246.4	21600	24	80.3	380	630	2	1760	220	23.8	3.4
	MACM62/633EA	62	295.7	35400	30	95.5	380	630	3	2640	220	27.5	5
	MACM73.9/633EA	73.9	369.6	32400	26	119	380	630	3	2640	220	35	5
	MACM82.6/634EA	82.6	394.2	47200	30	127	380	630	4	3520	220	39.6	6.6
	MACM98.6/634EA	98.6	492.8	43200	28	159	380	630	4	3520	220	49.5	6.6

名义换热量条件为：库温0℃、蒸发温度-8℃、温差DT=8K、制冷剂R22
Nominal capacity affected by: room temperature 0℃, evap. Temperature -8℃, different temperature DT=8K, and refrigerant is R22.

主要技术参数Specification

片距 8.5mm (适用于库温-25℃以上)
Fin space 8.5mm (for room temperature -25℃ and beyond)

型 号 Model		名义换热量 Nominal capacity	面积 Area	风量 Air flow	射程 Air throw	管容 Tube V	风扇电机 Fan motor				融霜电热管 Defrosting electric heater tube		
							电压 Voltage	直径 Dia.	数量 Qty.	功率 Input	电压 Voltage	功率 Input(kW)	
							V	mm	n	W	V	盘管 Coil tube	水盘 water
风叶 φ350	MACL2.5/351EA	2.5	8.6	3000	13	4	380	350	1	150	220	1.2	0.6
	MACL3.3/351EA	3.3	13	2600	11	6	380	350	1	150	220	1.2	0.6
	MACL5/352EA	5	17.3	6000	13	7.7	380	350	2	300	220	2.4	1.2
	MACL6.7/352EA	6.7	25.9	5200	12	11.5	380	350	2	300	220	3.6	1.2
	MACL7.3/353EA	7.3	25.9	9000	14	11.3	380	350	3	450	220	3.0	1.5
	MACL10/353EA	10	38.9	7800	13	17	380	350	3	450	220	4.5	1.5
风叶 φ450	MACL6.3/451EA	6.3	24.5	5000	14	11.1	380	450	1	250	220	3.3	1.1
	MACL7.8/451EA	7.8	32.6	4800	14	14.7	380	450	1	250	220	4.4	1.1
	MACL12.5/452EA	12.5	49.5	10000	18	21.4	380	450	2	500	220	6.0	2.4
	MACL15.5/452EA	15.5	65.2	9600	16	28.5	380	450	2	500	220	8.0	2.4
	MACL18.8/453EA	18.8	73.5	15000	20	31.8	380	450	3	750	220	9.5	3.8
	MACL23.3/453EA	23.3	98	14400	18	42.4	380	450	3	750	220	11.4	3.8
	MACL25.2/454EA	25.2	98	20000	22	42.1	380	450	4	1000	220	12.5	5
	MACL31.1/454EA	31.1	130.6	19200	20	55	380	450	4	1000	220	15	5
风叶 φ550	MACL25.1/552EA	25.1	105.6	16600	24	45.8	380	550	2	1200	220	11.9	3.4
	MACL29/552EA	29	132	15600	22	57.3	380	550	2	1200	220	17	3.4
	MACL37.7/553EA	37.7	158.4	24900	26	68.2	380	550	3	1800	220	20	5
	MACL43.4/553EA	43.4	198	23400	24	85.2	380	550	3	1800	220	25	5
	MACL50.3/554EA	50.3	211.2	33200	28	90.6	380	550	4	2400	220	23.1	6.6
	MACL57.8/554EA	57.8	264	31200	26	113.2	380	550	4	2400	220	26.4	6.6
风叶 φ630	MACL35.2/632EA	35.2	147.8	23600	28	64.2	380	630	2	1760	220	17	3.4
	MACL40.6/632EA	40.6	185	21600	24	80.3	380	630	2	1760	220	23.8	3.4
	MACL52.9/633EA	52.9	221.8	35400	30	95.5	380	630	3	2640	220	27.5	5
	MACL60.8/633EA	60.8	277.2	32400	26	119	380	630	3	2640	220	35	5
	MACL70.4/634EA	70.4	295.7	47200	30	127	380	630	4	3520	220	39.6	6.6
	MACL81/634EA	81	369.6	43200	28	159	380	630	4	3520	220	49.5	6.6

名义换热量条件为：库温0℃、蒸发温度-8℃、温差DT=8K、制冷剂R22
Nominal capacity affected by: room temperature 0℃, evap. Temperature -8℃, different temperature DT=8K, and refrigerant is R22.

MAC新型吊顶式冷风机
MAC Series Air Coolers

主要技术参数Specification

片距 10.0mm (适用于库温-35℃以上)
Fin space 10.0mm (for room temperature -35℃and beyond)

型 号 Model		换热量 DT=8K	面积 Area	风量 Air flow	射程 Air throw	管容 Tube V	风扇电机 Fan motor				融霜电热管 Defrosting electric heater tube		
							电压	直径	数量	功率	电压	功率	
							Voltage	Dia.	Qty.	Input	Voltage	盘管 Coil tube	水盘 water
风叶 φ450	MACJ5.8/451EA	5.8	21.2	5000	14	11.1	380	450	1	250	220	3.3	1.1
	MACJ7.2/451EA	7.2	28.3	4800	14	14.7	380	450	1	250	220	4.4	1.1
	MACJ11.7/452EA	11.7	42.4	10000	18	21.4	380	450	2	500	220	6.0	2.4
	MACJ14.7/452EA	14.5	56.6	9600	16	28.5	380	450	2	500	220	8.0	2.4
	MACJ17.5/453EA	17.5	63.6	15000	20	31.8	380	450	3	750	220	9.5	3.8
	MACJ21.9/453EA	21.9	85	14400	18	42.4	380	450	3	750	220	11.4	3.8
	MACJ23.5/454EA	23.5	85	20000	22	42.1	380	450	4	1000	220	12.5	5
	MACJ29.1/454EA	29.1	113.2	19200	20	55	380	450	4	1000	220	15	5
风叶 φ550	MACJ25.2/552EA	25.2	91.5	16600	24	45.8	380	550	2	1200	220	11.9	3.4
	MACJ29.4/552EA	29.4	114.4	15600	22	57.3	380	550	2	1200	220	17	3.4
	MACJ37.9/553EA	37.9	137.3	24900	26	68.2	380	550	3	1800	220	20	5
	MACJ44.2/553EA	44.2	172	23400	24	85.2	380	550	3	1800	220	25	5
	MACJ50.6/554EA	50.6	183	33200	28	90.6	380	550	4	2400	220	23.1	6.6
	MACJ58.9/554EA	58.9	228.8	31200	26	113.2	380	550	4	2400	220	26.4	6.6
风叶 φ630	MACJ35.3/632EA	35.3	128.1	23600	28	64.2	380	630	2	1760	220	17	3.4
	MACJ41.2/632EA	41.2	160.2	21600	24	80.3	380	630	2	1760	220	23.8	3.4
	MACJ53.1/633EA	53.1	192.2	35400	30	95.5	380	630	3	2640	220	27.5	5
	MACJ61.8/633EA	61.8	240.2	32400	26	119	380	630	3	2640	220	35	5
	MACJ70.8/634EA	70.8	256.3	47200	30	127	380	630	4	3520	220	39.6	6.6
	MACJ82.4/634EA	82.4	320.3	43200	28	159	380	630	4	3520	220	49.5	6.6

名义换热量条件为：库温0℃、蒸发温度-8℃、温差DT=8K、制冷剂R22
Nominal capacity affected by: room temperature 0℃, evap. Temperature -8℃, different temperature DT=8K, and refrigerant is R22.

外形及安装尺寸Overall and installation size

型 号 Model	外型尺寸 Overall size(mm)			安装尺寸 Installation size(mm)						接管管径 Pipe connection(mm)		排水管 drainage
	A	B	C	D	E	E1	E2	E3	F	进口 Inlet	出口 outlet	
MACH3.7/351EA MACM3/351EA MACL2.5/351EA	890	500	590	425	640				123	φ12.7	φ22	1"
MACH5.2/351EA MACM4.1/351EA MACL3.3/351EA	890	500	590	425	640				123	φ12.7	φ22	1"
MACH7.3/352EA MACM5.9/352EA MACL5/352EA	1491	500	590	425	1240				123	φ12.7	φ28	1"
MACH10.4/352EA MACM8.2/352EA MACL6.7/352EA	1491	500	590	425	1240				123	φ12.7	φ28	1"
MACH11.1/353EA MACM8.9/353EA MACL7.3/353EA	2089	500	590	425	1840	640	600		123	φ12.7	φ28	2"
MACH15.5/353EA MACM12.4/353EA MACL10/353EA	2089	500	590	425	1840	640	600		123	φ16	φ35	2"
MACH10/451EA MACM7.3/451EA MACL6.3/451EA MACJ5.8/451EA	1166	700	750	575	890				155	φ22	φ35	1"
MACH12.1/451EA MACM8.7/451EA MACL7.8/451EA MACJ7.2/451EA	1166	700	750	575	890				155	φ22	φ35	1"
MACH20/452EA MACM14.5/452EA MACL12.5/452EA MACJ11.7/452EA	2016	700	750	575	1740	890			155	φ22	φ35	2"
MACH24.1/452EA MACM17.4/452EA MACL15.5/452EA MACJ14.7/452EA	2016	700	750	575	1740	890			155	φ22	φ42	2"
MACH30/453EA MACM22/453EA MACL18.8/453EA MACJ17.5/453EA	2716	710	750	575	2440	840	800		155	φ28	φ42	2-1"
MACH36.3/453EA MACM26/453EA MACL23.3/453EA MACJ21.9/453EA	2716	710	750	575	2440	840	800		155	φ28	φ42	2-1"
MACH40/454EA MACM29.2/454EA MACL25.2/454EA MACJ23.5/454EA	3750	710	760	575	3440	890	860	840	155	φ28	φ42	2"

MAC新型吊顶式冷风机

MAC Series Air Coolers

外形及安装尺寸Overall and installation size

型 号 Model	外型尺寸 Overall size(mm)			安装尺寸 Installation size(mm)						接管管径 Pipe connection(mm)		排水管 drainage
	A	B	C	D	E	E1	E2	E3	F	进口 Inlet	出口 outlet	
MACH48.3/454EA MACM34.7/454EA MACL31.1/454EA MACJ29.1/454EA	3750	710	760	575	3440	890	860	840	155	φ28	φ54	2"
MACH39.1/552EA MACM30.1/552EA MACL25.1/552EA MACJ25.2/552EA	2645	810	1050	685	2340	1190	1150		183	φ28	φ54	2-1"
MACH46.5/552EA MACM35.2/552EA MACL29/552EA MACJ29.4/552EA	2645	810	1050	685	2340	1190	1150		183	φ28	φ54	2-1"
MACH58.2/553EA MACM43.2/553EA MACL37.7/553EA MACJ37.9/553EA	3675	810	905	685	3360	1160	1100		183	2-φ22	2-φ42	2-2"
MACH69.7/553EA MACM52.8/553EA MACL43.4/553EA MACJ44.2/553EA	3675	810	905	685	3360	1160	1100		183	2-φ22	2-φ42	2-2"
MACH78.3/554EA MACM56.3/554EA MACL50.3/554EA MACJ50.6/554EA	4775	810	905	685	4460	1160	1100	1100	183	2-φ28	2-φ54	2-2"
MACH93.1/554EA MACM70.4/554EA MACL57.8/554EA MACJ58.9/554EA	4775	810	905	685	4460	1160	1100	1100	183	2-φ28	2-φ54	2-2"
MACH54.9/632EA MACM41.3/632EA MACL35.2/632EA MACJ35.3/632EA	2575	865	1215	752	2240	1140	1100		190	φ28	φ54	2-1"
MACH65.1/632EA MACM49.2/632EA MACL40.6/632EA MACJ41.2/632EA	2575	865	1215	752	2240	1140	1100		190	φ28	φ54	2-1"
MACH82.2/633EA MACM62/633EA MACL52.9/633EA MACJ53.1/633EA	3700	865	1215	752	3360	1160	1100		200	2-φ28	2-φ54	2-2"
MACH97.6/633EA MACM73.9/633EA MACL60.8/633EA MACJ61.8/633EA	3700	865	1215	752	3360	1160	1100		200	2-φ28	2-φ54	2-2"
MACH109.5/634EA MACM82.6/634EA MACL70.4/634EA MACJ70.8/634EA	4800	865	1215	752	4460	1160	1100	1100	200	2-φ28	2-φ54	2-2"
MACH130.2/634EA MACM98.6/634EA MACL81/634EA MACJ82.4/634EA	4800	865	1215	752	4460	1160	1100	1100	200	2-φ28	2-φ54	2-2"

选型说明Mode Selection

冷风机所标定的制冷量为名义制冷量，用户应根据所使用的制冷剂、冷间温度及传热温差来合理选型。冷风机实际冷量应根据下式来确定：

$$QR = QN \times A1 \times A2$$

式中：

QR —— 冷风机实际冷量 (kW)

QN —— 冷风机名义冷量 (kW)

A2 —— 制冷剂影响系数 见表2

The capacity specified for the air coolers is nominal. The customer can choose the right model according to their applying condition, the refrigerant, temperature between, temperature differences etc. The real capacity can be got by the equation below:

$$Q_R = Q_N \times A_1 \times A_2$$

note: Q_R —— real capacity (kW)

Q_N —— nominal capacity (kW)

A₁ —— temperature coefficient see table 1

A₂ —— refrigerant coefficient see table 2

温度影响系数A1(表1)

Temperature coefficient A1 (table 1)

传热温差 Heat transfer DT(°C)	库内温度Room temperature(°C)													
	8	5	4	3	2	1	0	-5	-10	-15	-20	-25	-30	-35
5	0.73	0.73	0.71	0.69	0.67	0.65	0.63	0.61	0.6	0.58	0.56	0.55	0.54	0.54
6	0.88	0.88	0.85	0.83	0.8	0.78	0.75	0.73	0.71	0.7	0.68	0.66	0.65	0.65
7	1.03	1.03	1	0.97	0.94	0.91	0.88	0.85	0.83	0.81	0.79	0.77	0.76	0.76
8	1.17	1.17	1.14	1.1	1.07	1.04	1	0.98	0.95	0.93	0.9	0.88	0.87	0.87
9	1.32	1.32	1.28	1.24	1.2	1.16	1.13	1.1	1.07	1.04	1.02	0.99	0.98	0.98
10	1.47	1.46	1.42	1.38	1.34	1.29	1.25	1.22	1.19	1.16	1.13	1.1	1.09	1.09

传热温差(DT) = 库内温度 - 蒸发温度

(DT) = room temperature - evaporation temperature

制冷剂影响系数A2(表2)

Refrigerant coefficient A2 (table 2)

制冷剂 Refrigerant	库内温度Room temperature(°C)													
	8	5	4	3	2	1	0	-5	-10	-15	-20	-25	-30	-35
R22	1	1	1	1	1	1	1	1	1	1	1	1	1	1
R134a	0.98	0.97	0.97	0.97	0.96	0.96	0.96	0.94	0.93	0.91	-	-	-	-
R404A	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05

选型说明Example:

要求冷风机换热量为20kW，库温为-25℃，蒸发温度-32℃，使用制冷剂R22

选型步骤：

1) 计算传热温差：DT = -25 - (-32) = 7℃

2) 根据传热温差7℃及库内温度-25℃，确定温度影响系数A1，查表1，得A1 = 0.77

3) 根据冷风机所使用的制冷剂，确定制冷剂影响系数，查表2，得A2 = 1

4) 确定冷风机的名义换热量

$$QN = QR \div (A1 \times A2) = 20 \div (0.77 \times 1) = 25.97 \text{ (kW)}$$

5) 冷风机选型

根据库内温度-25℃选用片距8.5的冷风机，

根据名义换热量25.97kW可选用冷风机型号为：MACL25.2/454EA

Air cooler for capacity 20KW, room temperature -25℃, evaporating temperature -32℃, refrigerant is R22.

Model Choose Steps:

1) Get heat transfer different temperature: DT = -25 - (-32) = 7℃

2) According to DT = 7℃ and room temperature is -25℃, and get the temperature effect coefficient A1, check table 1, and see A1 = 0.77

3) Get refrigerant coefficient, check table 2, and see A2 = 1.

4) Get the nominal capacity:

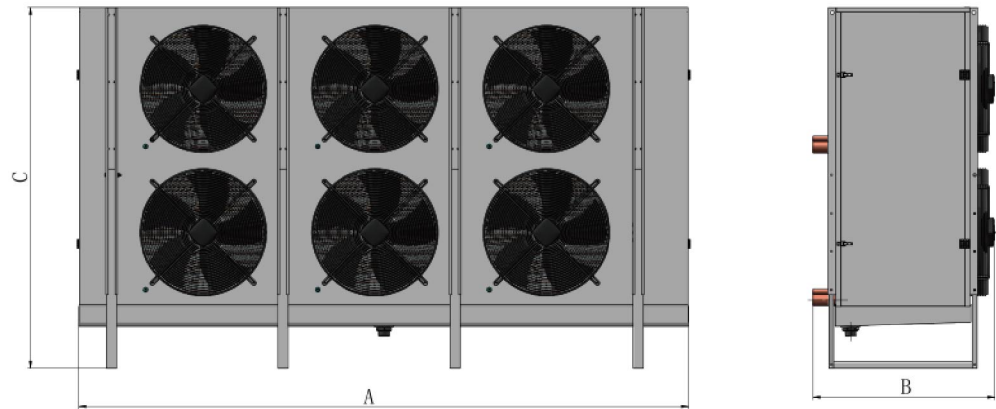
$$QN = QR \div (A1 \times A2) = 20 \div (0.77 \times 1) = 25.97 \text{ (KW)}$$

5) Choose the model

For the room temperature is -25℃, choose the air cooler with 8.5 fin space, and as the 25.97kw nominal capacity, the model can be: MACL25.2/454EA

立式冷风机
Vertical Type Blast Freezing Air Cooler

产品特点Features

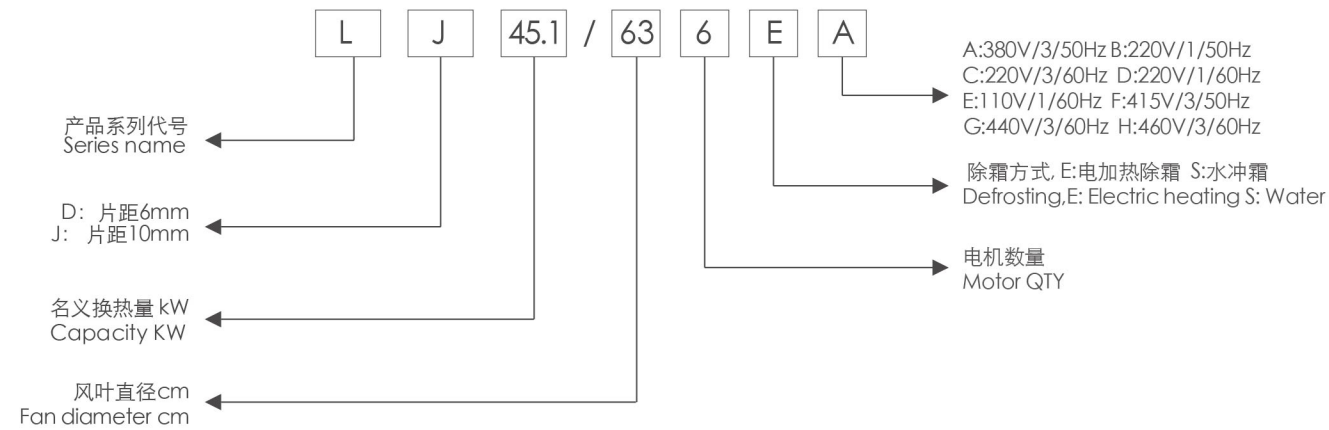


该系列冷风机采用φ16mm铜管顺排，适用于各种采用氟利昂系统的冷库，尤其适合应用于湿度大、结霜严重的鱼类、肉类冷藏库。该系列产品具有如下特点：

- 换热面积大、除湿量小，可降低食品干耗；
- 结霜速度慢，可减少除霜次数，节能并降低运行成本；
- 选用高品质外转子风机，噪声低、运转平稳；
- 外壳采用优质钢板喷塑，耐腐蚀，对于要求较高的场合可采用不锈钢外壳；
- 立式结构，安装使用方便。

Coils with optimized aligning arrangement of Φ16mm coppers and big area, small wet loss, decreasing the food dry loss .It is good for Freon cold rooms, especially good for high humid, heavy frosting fish and meat cold rooms, features below:
With big heat exchanging area, lose less wet, can decrease the food weight loss.
Low frosting speed, decrease defrosting times, and energy and cost decreased.
With external rotor motor fan of low noise, and high stable operation.
Pleasant outlook of high quality corrosion proof steel cabinet, or stainless steel sheet cabinet;
With vertical structure, easy installation and operation.

型号说明Model Code



主要技术参数Specifications

1.LD型冷风机 LD type air cooler
片距6mm，名义制冷量工况:库温-18℃，蒸发温度-25℃，DT=7℃，R22
Fin space 6mm， nominal capacity at: Room tem: -18℃, Evaporation Tem: -25℃, DT=7℃, R22

型 号 Model	制冷量 Capacity kW	风量 Air flow m3/h	射程 Air Throwm	风机 总功率 Fan Power kW	除霜 功率 Defrost kW	外形及安装尺寸mm Overall size mm			接管管径 Pipe Dia mm		管容积 Pipe Volume dm³	排水管
						A	B	C	进液 Liuqid	回气 Gas		
LD36.9/504EA	36.9	24000	16	2	16.5	1935	824	1685	22	54	47.6	1.5"
LD46.8/504EA	46.8	24000	14	2	22.5	1935	924	1685	22	54	63.4	1.5"
LD56.1/506EA	56.1	36000	16	3	22	2535	824	1685	28	60	66.1	1.5"
LD69.3/506EA	69.3	36000	14	3	30	2535	924	1685	28	60	88.1	1.5"
LD50.1/554EA	50.1	32000	18	3	22	2295	824	1685	22	54	58.7	1.5"
LD61.6/554EA	61.6	32000	16	3	30	2295	924	1685	28	60	78.2	1.5"
LD71/556EA	71	48000	18	4.5	22	2895	824	1685	28	60	77.2	1.5"
LD84.7/556EA	84.7	48000	16	4.5	30	2895	924	1685	28	60	103.0	1.5"
LD60.5/634EA	60.5	40000	20	3.52	24	2295	824	1885	28	60	67.1	1.5"
LD73.7/634EA	73.7	40000	18	3.52	32	2295	924	1885	2-22	2-54	89.4	1.5"
LD89.1/636EA	89.1	60000	20	5.28	24	3195	824	1885	2-22	2-54	98.8	2"
LD105.6/636EA	105.6	60000	18	5.28	32	3195	924	1885	2-28	2-60	131.8	2"

2.LJ型冷风机 LJ type air cooler
片距10mm，名义制冷量工况:库温-33℃，蒸发温度-40℃，DT=7℃，R22
Fin space 10mm， nominal capacity at: Room tem: -33℃, Evaporation Tem: -40℃, DT=7℃, R22

型 号 Model	制冷量 Capacity kW	风量 Air flow m3/h	射程 Air Throwm	风机 总功率 Fan Power kW	除霜 功率 Defrost kW	外形及安装尺寸mm Overall size mm			接管管径 Pipe Dia mm		管容积 Pipe Volume dm³	排水管
						A	B	C	进液 Liuqid	回气 Gas		
LJ18.7/504EA	18.7	24000	16	2	16.5	1935	824	1685	22	54	47.6	1.5"
LJ23.1/504EA	23.1	24000	14	2	22.5	1935	924	1685	22	54	63.4	1.5"
LJ27.5/506EA	27.5	36000	16	3	22	2535	824	1685	28	60	66.1	1.5"
LJ36.3/506EA	36.3	36000	14	3	30	2535	924	1685	28	60	88.1	1.5"
LJ25.3/554EA	25.3	32000	18	3	22	2295	824	1685	22	54	58.7	1.5"
LJ31.5/554EA	31.5	32000	16	3	30	2295	924	1685	28	60	78.2	1.5"
LJ35.2/556EA	35.2	48000	18	4.5	22	2895	824	1685	28	60	77.2	1.5"
LJ43.5/556EA	43.5	48000	16	4.5	30	2895	924	1685	28	60	103.0	1.5"
LJ30.3/634EA	30.3	40000	20	3.52	24	2295	824	1885	28	60	67.1	1.5"
LJ38/634EA	38	40000	18	3.52	32	2295	924	1885	2-22	2-54	89.4	1.5"
LJ45.1/636EA	45.1	60000	20	5.28	24	3195	824	1885	2-22	2-54	98.8	2"
LJ52.8/636EA	52.8	60000	18	5.28	32	3195	924	1885	2-28	2-60	131.8	2"

DHF系列双面侧吹风冷风机

DHF Series Double Side Blowing Air Coolers

产品特点Features

DHF系列双侧吹风冷风机是一种配套使用于食品操作加工间的库内降温设备，从两面出风，送风柔和。根据适用温度可分为L、D型二个系列，分别适用于0℃、-18℃左右的冷库使用。
(适用环境湿度 < 85%，如用于高湿环境请在订货前说明)

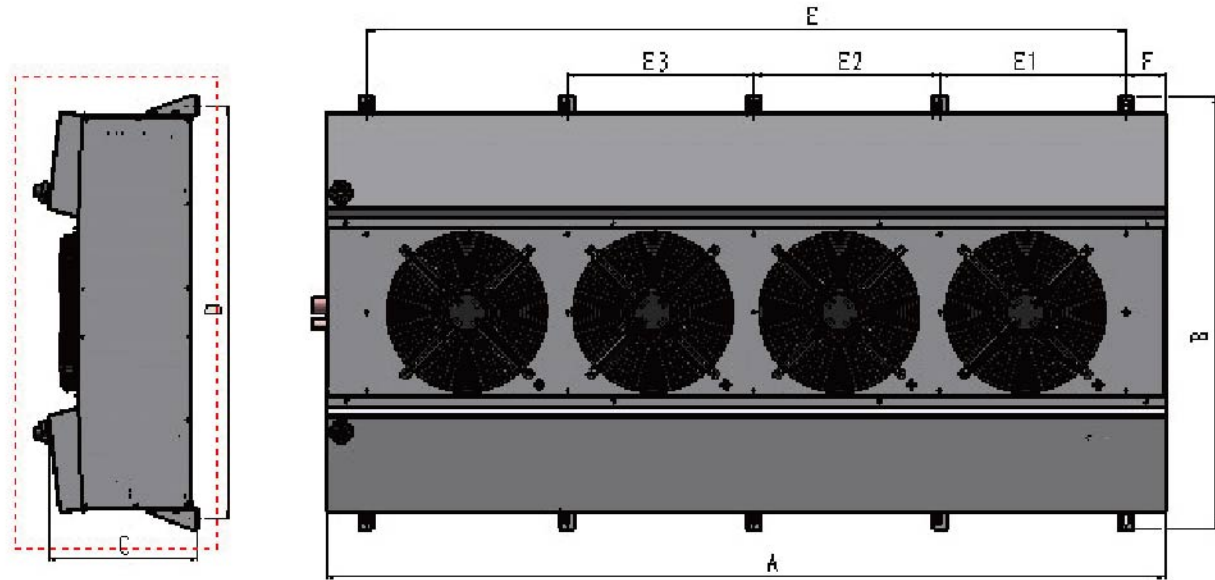
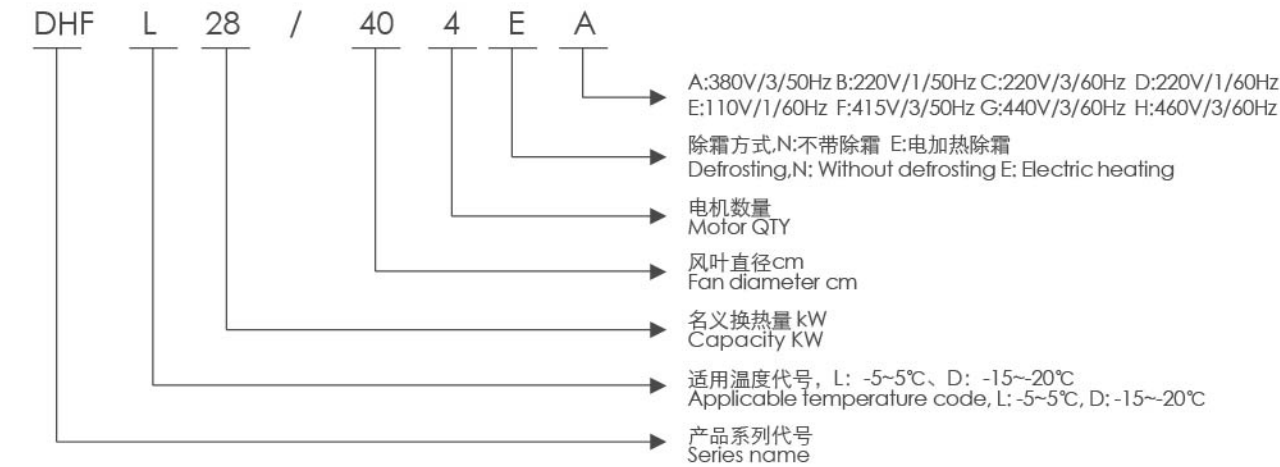
该系列产品具有如下特点：

- 外壳采用优质钢板喷塑，也可采用铝镁合金板或不锈钢板，外形美观；
- 盘管采用错排方式，换热效率高；
- 采用外转子电机，双面侧吹风，送风柔和，噪音小；
- 优质不锈钢电加热管均匀分布于盘管中，除霜效果好；

The DHF series of air cooler is specially designed for food processing workshops. Its cooled air blows from double sides, is very gentle. It has L and D sub series of products for 0℃, -18℃ around rooms.
This series products features:

1. Cabinet of steel plate with plastic spray, or ALU and Mg alloy, is pleasant looking.
2. With external rotor fans, double side blowing. The air flow is gentle and quiet.
3. Excellent defrosting by in side evenly arranged stainless steel electrical heaters.

型号说明Model Code



DHF系列双面侧吹风冷风机

DHF Series Double Side Blowing Air Coolers

主要技术参数Specifications

片距 Fin Space: 4.0mm

型 号 Model	名义换热量 Capacity kW	面积 Area m ²	管容积 Pipe V dm ³	风机 fan				电融霜 Electrical Defrosting	
				风量 Air flow m ³ /h	直径 Dia. mm	功率 Fan input w	电压 volt v	功率 input kw	电压 volt v
DHFL5.5/401EA	5.5	22.8	5	4000	400	1×195	380	4	220
DHFL7.3/401EA	7.3	30.4	6.8	4000	400	1×195	380	6	220
DHFL10.1/402EA	10.1	42.0	8.8	8000	400	2×195	380	12	220
DHFL13.5/402EA	13.5	56.1	11.8	8000	400	2×195	380	12	220
DHFL16.8/403EA	16.8	70.0	14.4	12000	400	3×195	380	12	220
DHFL21/403EA	21.0	87.6	19	12000	400	3×195	380	12	220
DHFL28/404EA	28.0	116.8	21.2	16000	400	4×195	380	12	220
DHFL33.6/404EA	33.6	140.2	28	16000	400	4×195	380	12	220

说明：名义冷量:库内温度2℃、传热温差8℃。
Note: test condition: room temperature:2℃, temperature difference:8℃

片距 Fin Space: 6.0mm

型 号 Model	名义换热量 Capacity kW	面积 Area m ²	管容积 Pipe V dm ³	风机 fan				电除霜 Electrical Defrosting	
				风量 Air flow m ³ /h	直径 Dia. mm	功率 Fan input w	电压 volt v	功率 input kw	电压 volt v
DHFD3.1/401EA	3.1	15.6	5	4000	400	1×195	380	4	220
DHFD4.1/401EA	4.1	20.8	6.8	4000	400	1×195	380	8	220
DHFD5.8/402EA	5.8	28.8	8.8	8000	400	2×195	380	12	220
DHFD7.7/402EA	7.7	38.4	11.8	8000	400	2×195	380	12	220
DHFD9.6/403EA	9.6	48.0	14.4	12000	400	3×195	380	15	220
DHFD12/403EA	12.0	60.0	19	12000	400	3×195	380	15	220
DHFD16/404EA	16.0	80.0	21.2	16000	400	4×195	380	15	220
DHFD19.2/404EA	19.2	96.0	28	16000	400	4×195	380	15	220

说明：名义冷量:库内温度-18℃、传热温差8℃。
Note: test condition: room temperature:2℃, temperature difference:8℃

DH系列冷风机

DH series air cooler

产品特点Features

DH系列冷风机是一种配套于氟利昂制冷机组使用的冷却降温设备，适用于各类菌菇、蔬菜、花卉种植过程中的降温和高湿环境的冷却排热。

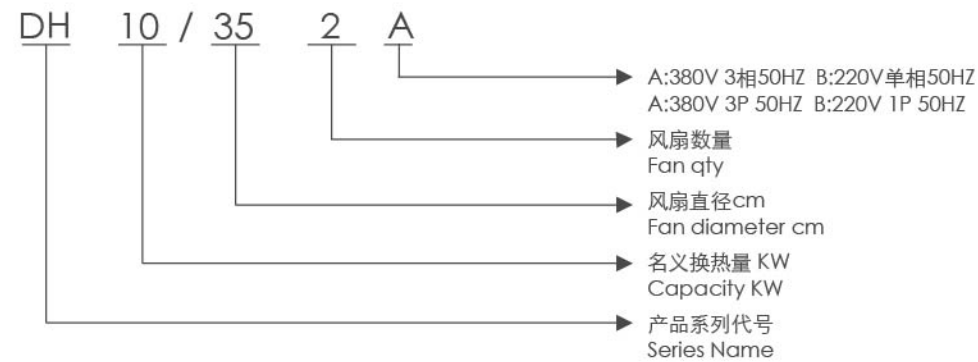
该系列产品具有如下特点：

- 产品结构紧凑，翅片采用亲水铝箔，片距2.2mm，换热效率高；
- 外壳采用优质钢板，表面喷塑、耐腐蚀、外形美观；
- 盘管采用错排方式，利用机械胀管，使铜管与铝片紧密接合，换热效果好；
- 可根据客户要求采用长距离送风风筒；
- 可根据客户要求采用适用于在高湿度环境下工作的电机；
- 可根据客户要求增加翅片式电加热管加热功能；

DH series air cooler is specially designed for mushroom, vegetable, and flower cold room.

- With compact structure, 2.2 mm space ALU fins of hydrophilia surface painting, results in high heat exchanging efficiency.
- Cabinet of steel plate with plastic spray, corrosion proof and pleasant looking;
- Stagger arrangement, mechanically expanding of the pipes, resulted in good heat transfer performance.
- Long distance air throw is optional.
- Special motors is optional for high humid ambient.
- Fin type electrical heater is optional

型号说明Model Code



外形及安装尺寸Overall and installing size

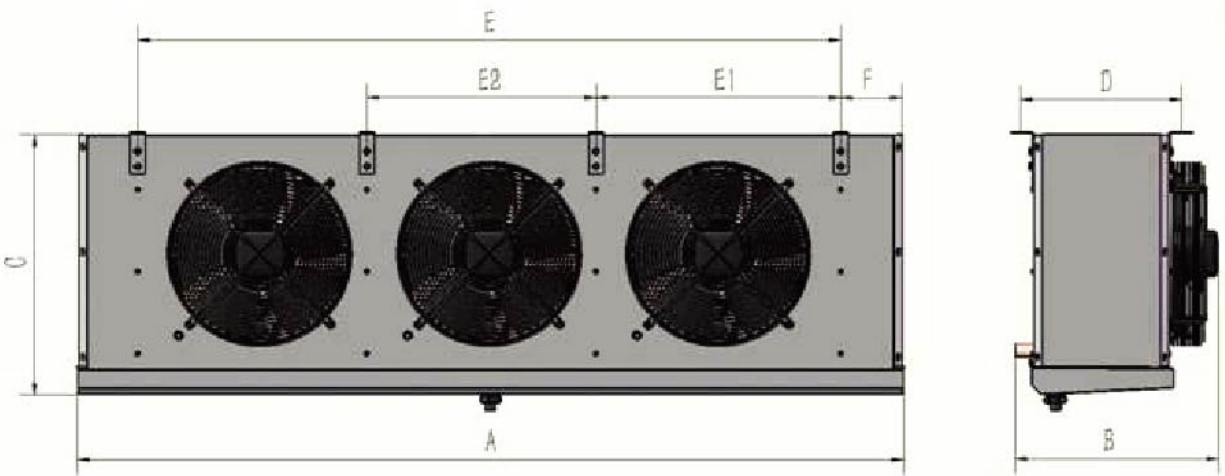
型 号 Model	外形尺寸oversize (mm)			吊顶安装尺寸installation size (mm)						接口管径 pipe Dia (mm)		排水管 Drainage pipe
	A	B	C	D	E	E1	E2	E3	F	进口 in	出口 out	
DHFL5.5/401EA DHFD3.1/401EA	906	1042	390	990	690	—	—	—	110	φ 12	φ 22	2× 1"
DHFL7.3/401EA DHFD4.1/401EA	906	1162	390	1110	690	—	—	—	110	φ 12	φ 22	
DHFL10.1/402EA DHFD5.8/402EA	1306	1162	390	1110	1040		—	—	110	φ 16	φ 28	
DHFL13.5/402EA DHFD7.7/402EA	1306	1162	390	1110	1040		—	—	110	φ 16	φ 35	
DHFL16.8/403EA DHFD9.6/403EA	1806	1162	402	1110	1540	500	500	—	110	φ 16	φ 35	
DHFL21/403EA DHFD12/403EA	1806	1162	402	1110	1540	500	500	—	110			
DHFL28/404EA DHFD16/404EA	2305	1162	477	1110	2040	1000	—	—	110	φ 22	φ 42	
DHFL33.6/404EA DHFD19.2/404EA	2305	1162	477	1110	2040	1000	—	—	110			

主要技术参数Specification

DH系列冷风机
DH series air cooler

型号 Model	制冷量 Capacity kw DT=8K t0=7℃	风量 Air flow m³/h	射程 Air throw m	风机总功率 Fan W			
	22				A	B	C
DH10/352A	10	4500	8	280	1260	515	480
DH13/352A	13	4500	8	280	1560	515	480
DH17.5/402A	17.5	7000	9	390	1620	515	580
DH26 /403A	26	10000	9	585	1920	515	680
DH29/453A	29	13500	9	840	2160	515	680

外形及安装尺寸overall size(mm)					接管管径pipe dia(mm)		排水管 drainage
D	E	E1	E2	F	进液liquid	回气gas	
415	940	-	-	160	φ16	φ28	1"
415	1240	640	-	160	φ16	φ28	1"
415	1300	670	-	160	φ16	φ35	1"
415	1600	560	520	160	φ22	φ35	1"
415	1840	640	600	160	φ22	φ35	1"



EV系列冷柜冷风机
EV Series Showcase Freezer Air Coolers

产品特点Features

EV系列冷柜冷风机是一种配套于氟利昂制冷设备用的冷柜柜内降温设备，可适用于0~8℃的冷柜使用。

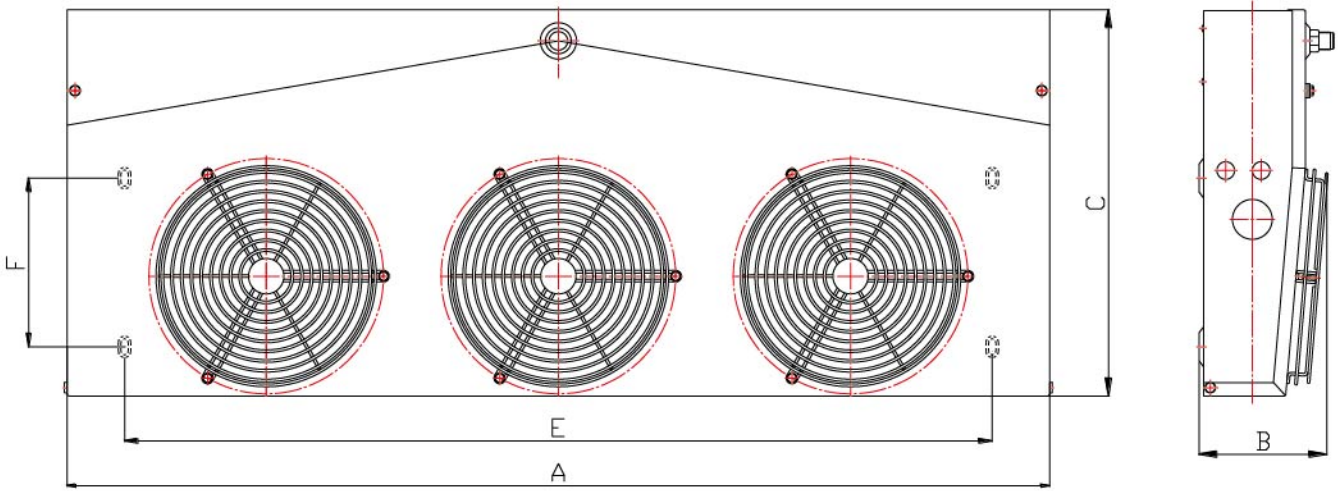
该系列产品具有如下特点：

- 外壳采用铝镁合金板，耐腐蚀、外形美观；
- 盘管采用错排方式、机械胀管与铝片紧密贴合，换热效率高；
- 采用双片距（4.5/9.0）结构；
- 吊顶式安装、水盘方便拆卸、清洗方便；

EV series of air cooler is specially designed for showcase freezers, suitable for temperature of 0~8℃ around.

This series products features:

- 1.Cabinet of ALU and Mg alloy, corrosion proof and pleasant looking.
- 2.Mechanically expanded pipes with AL fins with good heat transfer performance.
- 3.Double fin space, 4.5 and 9.0mm structure.
- 4.Ceiling installing type, the water receiver is easy to dismantle and clean.



主要技术参数Specification

EV系列冷柜冷风机
EV Series Showcase Freezer Air Coolers

型 号 Model	名义换热量 Capacity	面积 area	管容积 pipe V	风机 Fan				融霜功率 electrical defrosting
				风量Air flow	直径 Dia.	功率Fan input	电压 Volt	
	kW	m²	dm³	m³ /h	mm	w	v	kW
EV-40	0.3	1.4	0.33	410	200	1×40	220	0.3
EV-60	0.4	2.3	0.48	410	200	1×40	220	0.3
EV-100	0.63	2.4	0.54	820	200	2×40	220	0.5
EV-130	0.85	3.8	0.8	820	200	2×40	220	0.5
EV-180	1.28	4.8	1.07	1230	200	3×40	220	1.0
EV-290	1.76	7.7	1.61	1230	200	3×40	220	1.0
EV-380	2.2	9.4	1.96	1640	200	4×40	220	1.0

说明:名义冷量:柜内温度0℃、传热温差8℃
Note: test condition: room temperature:0℃, temperature difference:8℃

外形及安装尺寸：Overall and installing size

型 号 Model	外形及安装尺寸(Overall and installing size)mm					接口管径(pipe dia) mm		排水管 drainage
	A	B	C	E	F	进口 in	出口 out	
EV-40 EV-60	410	152	435	280	190	φ9.52	φ9.52	1"
EV-100 EV-130	610	152	435	480	190	φ9.52	φ9.52	
EV-180 EV-290	1110	152	435	980	190	φ12	φ16	
EV-380	1380	152	435	1245	190	φ12.7	φ16	



以创新为动力
经过二十多年不懈的探索与发展，今天的美乐柯终于能够凭借精湛的技术，满足客户不同的制冷需求，旨在最大程度的帮助客户提高其生产效率。作为业界的领导者，我们致力以最低的成本创造最优的质量。我们将继续坚持“科技兴厂”的发展战略，竭力确保您的盈利，使您安心！

Innovation
For over 20 year' s effort in the R&D, Meluck Company can meet the variety of requirement of refrigeration equipment. Our technology orientation focuses on delivering the best quality with lowest cost. We will insist on our strategy of Technology development, add value to our clients with our advanced technology.



以互动为根本
与客户保持亲密的合作关系是我们工作的重要组成部分。我们长期积累的丰富经验，对在制冷市场形成自己独特的见解，我们紧跟市场动脉，第一时间为您量身定做全套而有个性化的制冷解决方案，满足并超过您期望。

Interaction
We believe in interaction with our clients. We are experienced in the refrigeration industry; we try for the satisfaction and excel their satisfaction of the customers with our customized solutions in time.



您忠诚的商业伙伴
我们对您的承诺绝不会随着产品的交付和安装而终止。我们拥有庞大的售后服务体系，为您提供永不间断的技术支持与产品服务。我们在全各地设有经销点，随时为您提供优质的服务；我们拥有大批的专业技术人员，全天候的为您解答技术疑问；我们高效的物流团队，确保您的不时之需。美乐柯，为您创造价值的合作伙伴！

Commitment
Our commitment for our customers will not end with the delivery of our products, but continues with our post sale system. A complete sales network all over China has been built, which provides you with high quality service. Our big team of technology and professional technicians are ready for consulting you all daylong. Our logistic distribution centers keeps goods reach you in time. All Meluck will add value to your business with our commitment.

