

**MELUCK<sup>®</sup>**

Enjoy the future with science



## ME series Air Cooler



**美乐柯集团**  
MELUCK Group

# 美乐柯集团简介

## MELUCK Group Company Profile

安徽美乐柯制冷空调设备有限公司（以下简称“美乐柯”）成立于2011年，一直专注于制冷空调产品的研发与生产，从事制冷领域30余年（原总部公司成立于上世纪90年代、2003年成立上海公司，2011年整体产业转移到安徽宣城）。美乐柯专业生产商用和工业用制冷成套设备，主导产品有冷库用冷凝机组、工业用低温冷水机组、冷风机等。其中冷库用冷凝机组涵盖涡旋、半封活塞、螺杆等多种类型，可应用于大、中、小型各类冷库。半封闭活塞并联冷凝机组、整体式库用冷冻机已获得“安徽省新产品”认定。根据中国制冷空调工业协会和产业在线提供数据，2022—2023年度，美乐柯冷凝机组产品销量分别为1.6万台和1.8万台，市场占有率分别为11.1%和12.0%，在中国同行业中排名第二。美乐柯荣获省专精特新冠军企业、省级企业技术中心、省工业设计中心、省消费品工业三品示范企业、省商标品牌示范企业、工业互联网示范企业、通过了质量、环境、职业健康、知识产权贯标管理体系认证。

我司经营战略旨在应对瞬息万变的市场环境，积极把握行业发展趋势，持续优化业务布局，强化核心竞争力，以期在未来实现稳健且可持续的增长；同时聚焦具体细分市场，深度挖掘目标客户群体的需求特点，打造高度契合其需求的产品与服务。公司将通过技术创新、优质服务、独特设计、高效运营等手段，塑造鲜明的品牌形象与价值主张，在精密环境控制机组、实施农业和产地预冷技术与装备等方向拓展新业务，以实现市场占有率的稳步提升和企业的持续发展。

美乐柯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，截止2024年6月，共获得7项发明专利，44项实用新型专利，6项外观发明专利；参与起草2项国家标准，已发布实施。美乐柯集团现有员工412人。

**企业使命：**致力于将美乐柯打造成百年企业。

**企业愿景：**成为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。



Anhui MELUCK Refrigeration Air-Conditioning Equipment Co., Ltd. (hereinafter referred to as "MELUCK") was established in 2011. It has been focusing on the research and development and production of refrigeration and air-conditioning products and has been engaged in the refrigeration field for more than 30 years (the original headquarters company was established in the 1990s, the Shanghai company was established in 2003, and the entire industry was transferred to Xuancheng, Anhui in 2011). MELUCK specializes in the production of commercial and industrial refrigeration equipment. Its leading products include condensing units for cold storage, industrial low-temperature chillers, and air coolers. Among them, the condensing units for cold storage cover a variety of types such as scroll, semi-sealed piston, and screw, which can be used in large, medium and small cold storages. Semi-sealed piston parallel condensing units and integrated warehouse freezers have been recognized as "Anhui New Products". According to data provided by the China Refrigeration and Air-conditioning Industry Association and Industry Online, in 2022-2023, the sales volume of MELUCK condensing unit products was 16,000 and 18,000 units respectively, with a market share of 11.1% and 12.0% respectively, ranking second in the same industry in China. MELUCK has won the title of provincial champion enterprise of specialization, specialization and innovation, provincial enterprise technology center, provincial industrial design center, provincial consumer goods industry three-product demonstration enterprise, provincial trademark brand demonstration enterprise, industrial Internet demonstration enterprise, and has passed the quality, environment, occupational health, and intellectual property management system certification.

Our company's business strategy aims to respond to the ever-changing market environment, actively grasp the development trend of the industry, continuously optimize the business layout, and strengthen core competitiveness, in order to achieve steady and sustainable growth in the future; at the same time, focus on specific market segments, deeply explore the needs and characteristics of target customer groups, and create products and services that are highly in line with their needs. The company will create a distinctive brand image and value proposition through technological innovation, high-quality services, unique designs, and efficient operations, and expand new businesses in the fields of precision environmental control units, implementation of agricultural and production pre-cooling technology and equipment, so as to achieve a steady increase in market share and sustainable development of the company.

MELUCK has strong refrigeration technology reserves, advanced production lines and testing equipment, and has established a full set of production system processes and a complete quality assurance system according to product manufacturing requirements. At the same time, the company has a complete series of promotion channels, training systems, and salary systems to ensure the construction of the enterprise's talent echelon and the 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. As of June 2024, a total of 7 invention patents, 44 utility model patents, and 6 appearance invention patents have been obtained; participated in the drafting of 2 national standards, which have been issued and implemented. MELUCK Group currently has 412 employees.

**Corporate Mission:** Committed to making MELUCK a century-old enterprise.

**Corporate Vision:** To be the best refrigeration and refrigeration integrated system service provider in the industry.

**Corporate Culture:** Customer-centric, quality-oriented, simple and efficient, co-creation, co-sharing, and sharing.



# 美乐柯分公司

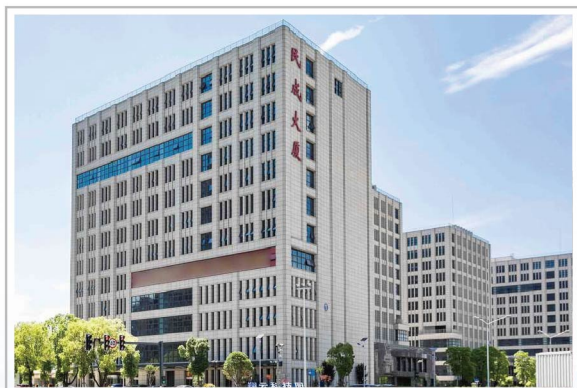
## MELUCK Branch



### 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。

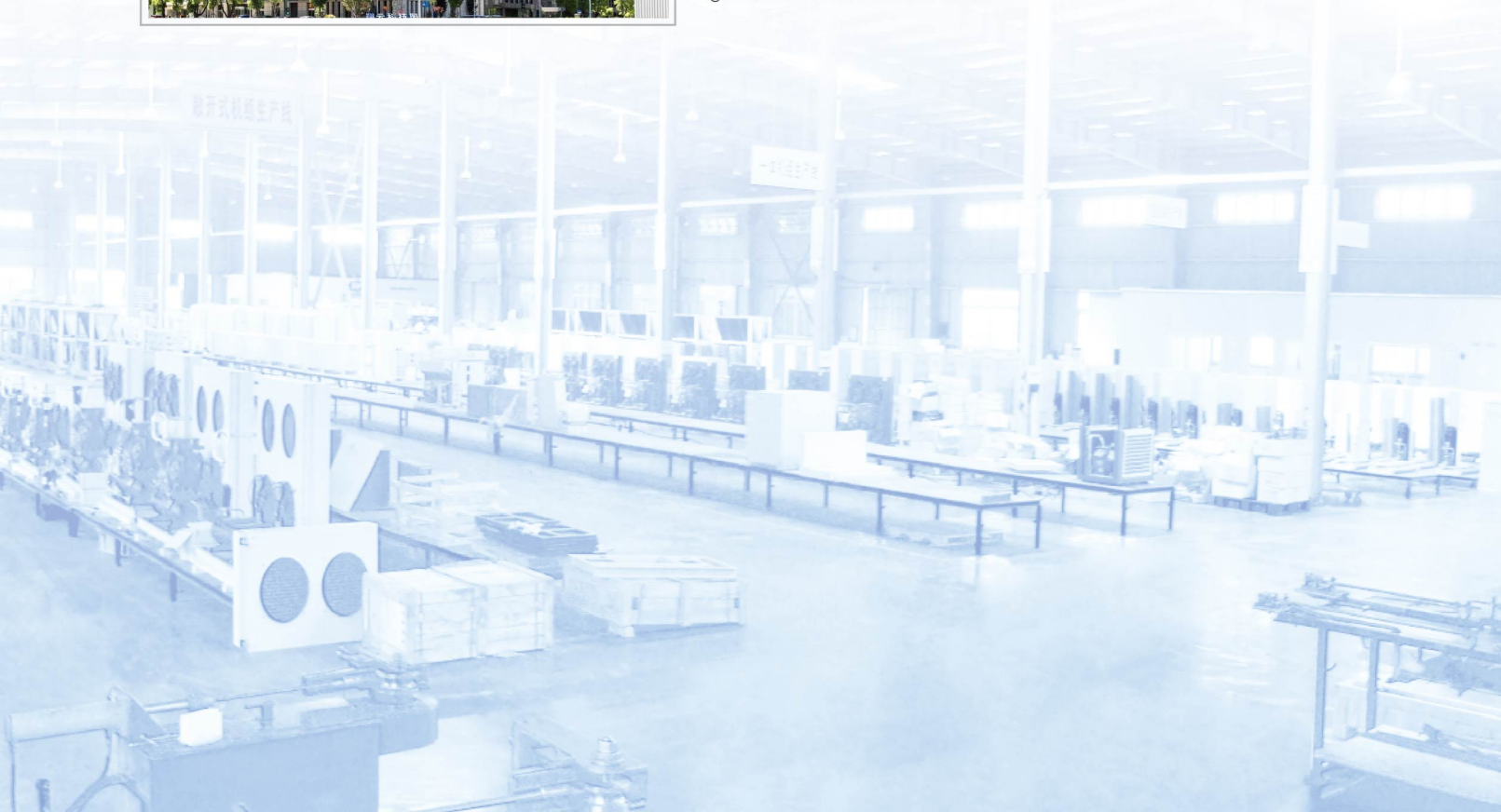
Anhui Meluck Refrigeration Air-condition Equipment Co.,Ltd. invested about U.S dollar Twenty Six Million, with 130000m<sup>2</sup> area; is one of the biggest refrigeration equipment manufacturing bases in China, specialized in manufacturing and researching for the refrigeration equipments like air cooled 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!

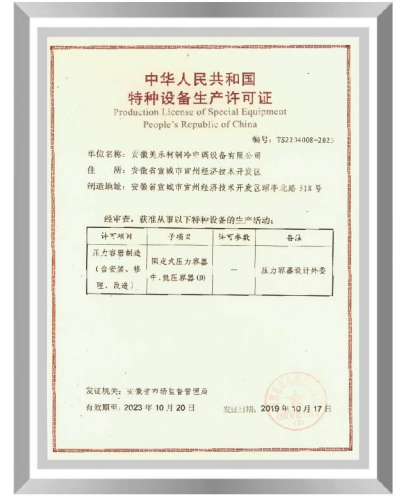
Innovation, for the customer's satisfaction, With our excellent service and product



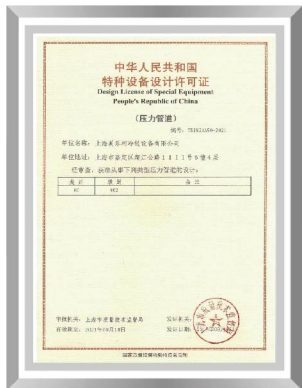
上海营业执照  
Shanghai Business License



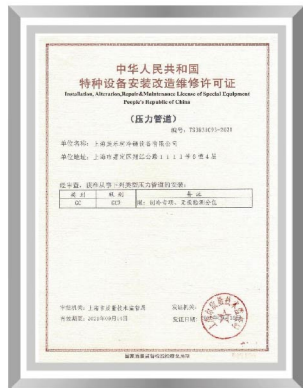
安徽营业执照  
Anhui Business License



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

## ME series of air cooler

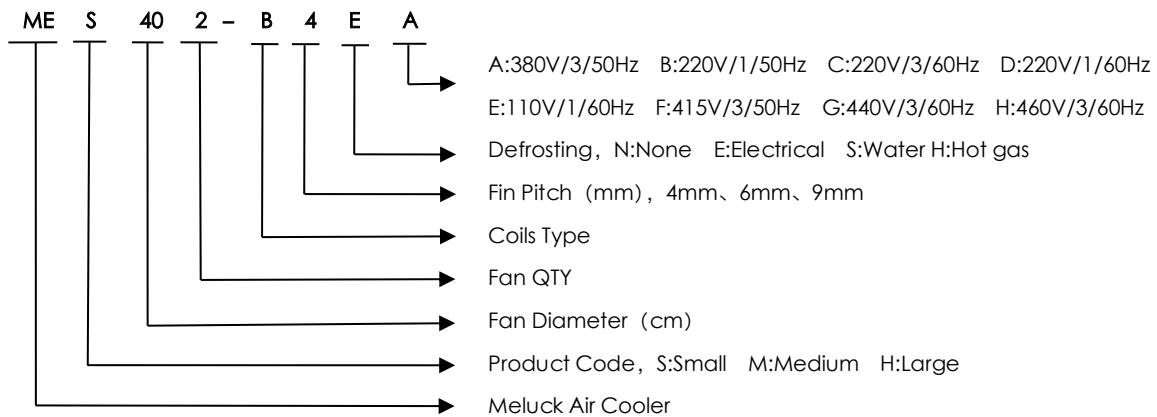
### I 、 Features:

This series of air coolers are suitable for refrigeration systems using Freon as refrigerant. The fin pitch is 4, 6, and 9, and can be used in chiller room around 0°C, freezer room around -18°C to -25°C.

This series of products has the following features:

- ◆ The S-type uses 9.52mm high-quality internal threaded pipes, and the M-type uses 12.7mm high-quality internal threaded pipes;
- ◆ Adopt high-quality internally threaded pipes, arranged in staggered rows, with high heat exchange efficiency and compact product structure;
- ◆ The liquid distributor and refrigeration circuit are optimized to ensure the highest efficiency of the evaporator in different application environments;
- ◆ The outer shell is made of high-quality steel plate sprayed with plastic, which is corrosion-resistant and beautiful in appearance;

### II 、 Model Code:



### III 、 Product introduction:

Meluck Air Cooler		MES	MEM	MEH
Capacity kW	Fin Pitch 4mm	1.9 ~ 29.8	12.6 ~ 75.0	51.2 ~ 222.7
	Fin Pitch 6mm	1.2 ~ 19.7	8.9 ~ 52.0	31.2 ~ 137.6
	Fin Pitch 9mm	0.7 ~ 11.8	5.6 ~ 34.0	21.2 ~ 94.0
Defrosting		Standard Electric heating ,Optional- Hot gas	Standard Electric heating ,Optional- Hot gas Water flush	
Fan heater		Optional	Low temp standard (Fin pitch 9mm)	

## IV. Specifications:

### 4.1 MES Series Medium

Model		MES301-A4EA	MES301-B4EA	MES302-A4EA	MES302-B4EA	MES303-A4EA	MES303-B4EA
Fin Pitch 4mm	Nominal Conditions	Room temp 0°C, Evap Temp-8°C					
	Capacity (kW)	1.9	2.3	3.7	4.5	5.6	6.8
Model		MES301-A6EA	MES301-B6EA	MES302-A6EA	MES302-B6EA	MES303-A6EA	MES303-B6EA
Fin Pitch 6mm	Nominal Conditions	Room temp-18°C, Evap Temp-25°C					
	Capacity (kW)	1.2	1.4	2.3	2.9	3.5	4.3
Model		MES301-A9EA	MES301-B9EA	MES302-A9EA	MES302-B9EA	MES303-A9EA	MES303-B9EA
Fin Pitch 9mm	Nominal Conditions	Room temp-25°C, Evap Temp-31°C					
	Capacity (kW)	0.7	0.9	1.4	1.7	2.2	2.6
Air flow (m <sup>3</sup> /h)		1300	1200	2600	2400	3900	3600
Air throw (m)		7	6	8	7	8	7
Tube Volume (dm <sup>3</sup> )		1.17	1.56	2.14	2.86	3.12	4.15
Pipe dia	liquid (mm)	φ12.7	φ12.7	φ12.7	φ12.7	φ16	φ16
	gas (mm)	φ16	φ16	φ22	φ22	φ22	φ22
Fan Input Power (W)		80	80	160	160	240	240
Defrosting Power (kW)		1.2	1.2	2.4	2.4	3.2	3.2
Size	A (mm)	832	832	1232	1232	1632	1632
	B (mm)	480	480	480	480	480	480
	C (mm)	414	414	414	414	414	414
	D (mm)	415	415	415	415	415	415
	E (mm)	440	440	840	840	1240	1240
	E1 (mm)	400	400	400	400	400	400
	F (mm)	190	190	190	190	190	190

Model		MES304-A4EA	MES304-B4EA	MES401-A4EA	MES401-B4EA	MES402-A4EA	MES402-B4EA	MES403-A4EA
Fin Pitch 4mm	Nominal Conditions	Room temp 0°C, Evap Temp-8°C						
	Capacity (kW)	7.5	9.0	3.5	4.3	7.0	8.7	10.6
Model		MES304-A6EA	MES304-B6EA	MES401-A6EA	MES401-B6EA	MES402-A6EA	MES402-B6EA	MES403-A6EA
Fin Pitch 6mm	Nominal Conditions	Room temp-18°C, Evap Temp-25°C						
	Capacity (kW)	4.7	5.7	2.2	2.7	4.5	5.5	6.7
Model		MES304-A9EA	MES304-B9EA	MES401-A9EA	MES401-B9EA	MES402-A9EA	MES402-B9EA	MES403-A9EA
Fin Pitch 9mm	Nominal Conditions	Room temp-25°C, Evap Temp-31°C						
	Capacity (kW)	2.9	3.5	1.4	1.7	2.9	3.5	4.3
Air flow (m <sup>3</sup> /h)		5200	4800	3500	3400	7000	6800	10500
Air throw (m)		8	7	8	8	10	9	10
Tube Volume (dm <sup>3</sup> )		4.09	5.45	2.21	2.94	4.15	5.54	6.10
Pipe dia	liquid (mm)	φ16	φ16	φ16	φ16	φ16	φ16	φ22
	gas (mm)	φ28	φ28	φ22	φ22	φ22	φ28	φ28
Fan Input Power (W)		320	320	180	180	360	360	540
Defrosting Power (kW)		4.8	4.8	1.6	2.0	3.2	4.0	4.8
Size	A (mm)	2032	2032	1032	1032	1632	1632	2232
	B (mm)	480	480	480	480	480	480	480
	C (mm)	414	414	541	541	541	541	541
	D (mm)	415	415	415	415	415	415	415
	E (mm)	1640	1640	640	640	1240	1240	1840
	E1 (mm)	800	800	600	600	600	600	600
	F (mm)	190	190	190	190	190	190	190

Model		MES403-B4EA	MES404-A4EA	MES404-B4EA	MES502-A4EA	MES502-B4EA	MES503-A4EA	MES503-B4EA
Fin Pitch 4mm	Nominal Conditions	Room temp 0°C, Evap Temp-8°C						
	Capacity (kW)	13.0	14.1	17.3	14.5	19.9	21.7	29.8
Model		MES403-B6EA	MES404-A6EA	MES404-B6EA	MES502-A6EA	MES502-B6EA	MES503-A6EA	MES503-B6EA
Fin Pitch 6mm	Nominal Conditions	Room temp-18°C, Evap Temp-25°C						
	Capacity (kW)	8.5	9.0	11.0	9.6	13.1	14.4	19.7
Model		MES403-B9EA	MES404-A9EA	MES404-B9EA	MES502-A9EA	MES502-B9EA	MES503-A9EA	MES503-B9EA
Fin Pitch 9mm	Nominal Conditions	Room temp-25°C, Evap Temp-31°C						
	Capacity (kW)	5.2	5.8	7.0	5.8	7.9	8.7	11.8
Air flow (m³/h)		10200	14000	13600	12000	12000	18000	18000
Air throw (m)		9	10	9	15	15	15	15
Tube Volume (dm <sup>3</sup> )		8.13	8.05	10.73	9.10	13.60	13.40	20.10
Pipe dia	liquid (mm)	φ22	φ22	φ22	φ22	φ22	φ22	φ28
	gas (mm)	φ28	φ28	φ35	φ35	φ35	φ42	φ42
Fan Input Power (W)		540	720	720	1000	1000	1500	1500
Defrosting Power (kW)		6.0	6.4	8.0	7.2	7.2	9.6	9.6
Size	A (mm)	2232	2832	2832	2032	2032	2832	2832
	B (mm)	480	480	480	550	550	550	550
	C (mm)	541	541	541	671	671	671	671
	D (mm)	415	415	415	482	482	482	482
	E (mm)	1840	2440	2440	1640	1640	2440	2440
	E1 (mm)	600	1200	1200	800	800	800	800
	F (mm)	190	190	190	190	190	190	190

4.2 MEM Series Medium

Model		MEM502-A4EA	MEM502-B4EA	MEM503-A4EA	MEM503-B4EA	MEM504-A4EA	MEM504-B4EA
Fin Pitc	Nominal Conditions	Room temp 0°C, Evap Temp-8°C					
h4m m	Capacity (kW)	12.6	17.4	19.0	26.1	25.3	34.8
Model		MEM502-A6EA	MEM502-B6EA	MEM503-A6EA	MEM503-B6EA	MEM504-A6EA	MEM504-B6EA
Fin Pitc	Nominal Conditions	Room temp-18°C, Evap Temp-25°C					
h6m m	Capacity (kW)	8.9	12.2	13.4	18.3	17.9	24.4
Model		MEM502-A9EA	MEM502-B9EA	MEM503-A9EA	MEM503-B9EA	MEM504-A9EA	MEM504-B9EA
Fin Pitc	Nominal Conditions	Room temp-25°C, Evap Temp-31°C					
h9m m	Capacity (kW)	5.7	7.6	8.5	11.5	11.3	15.3
Air flow (m³/h)		12000	11400	18000	17100	24000	22800
Air throw (m)		18	17	18	17	18	17
Tube Volume (dm <sup>3</sup> )		10.25	15.37	15.13	22.69	20.01	30.01
Pipe dia	liquid (mm)	φ16	φ16	φ16	φ22	φ22	φ28
	gas (mm)	φ35	φ42	φ42	φ42	φ42	φ54
Fan Input Power (W)		828	828	1242	1242	1656	1656
Defrosting Power (kW)		7.2	8.4	9.6	11.2	12.0	14.0
Size	A (mm)	1980	1980	2780	2780	3580	3580
	B (mm)	678	678	678	678	678	678
	C (mm)	753	753	753	753	753	753
	D (mm)	531	531	531	531	531	531
	E (mm)	1640	1640	2440	2440	3240	3240
	E1 (mm)	800	800	800	800	800	800
	F (mm)	200	200	200	200	200	200

Model		MEM552-A4EA	MEM552-B4EA	MEM553-A4EA	MEM553-B4EA	MEM554-A4EA	MEM554-B4EA
Fin Pitch 4mm	Nominal Conditions	Room temp 0°C , Evap Temp-8°C					
	Capacity (kW)	16.3	22.4	24.4	33.5	32.5	44.7
Model		MEM552-A6EA	MEM552-B6EA	MEM553-A6EA	MEM553-B6EA	MEM554-A6EA	MEM554-B6EA
Fin Pitch 6mm	Nominal Conditions	Room temp-18°C , Evap Temp-25°C					
	Capacity (kW)	11.5	15.7	17.2	23.5	23.0	31.3
Model		MEM552-A9EA	MEM552-B9EA	MEM553-A9EA	MEM553-B9EA	MEM554-A9EA	MEM554-B9EA
Fin Pitch 9mm	Nominal Conditions	Room temp-25°C , Evap Temp-31°C					
	Capacity (kW)	7.3	9.8	10.9	14.7	14.6	19.7
Air flow (m <sup>3</sup> /h)		16000	15000	24000	22500	32000	30000
Air throw (m)		20	20	20	20	20	20
Tube Volume (dm <sup>3</sup> )		13.11	19.66	19.38	29.07	25.66	38.48
Pipe dia	liquid (mm)	φ16	φ22	φ22	φ28	φ28	φ28
	gas (mm)	φ35	φ42	φ42	φ54	φ54	φ60
Fan Input Power (W)		1200	1200	1800	1800	2400	2400
Defrosting Power (kW)		7.2	8.4	12.0	14.0	15.6	18.2
Size	A (mm)	2180	2180	3080	3080	3980	3980
	B (mm)	728	728	728	728	728	728
	C (mm)	853	853	853	853	853	853
	D (mm)	581	581	581	581	581	581
	E (mm)	1840	1840	2740	2740	3640	3640
	E1 (mm)	900	900	900	900	900	900
	F (mm)	200	200	200	200	200	200

Model		MEM632-A4EA	MEM632-B4EA	MEM633-A4EA	MEM633-B4EA	MEM634-A4EA	MEM634-B4EA
Fin Pitch 4mm	Nominal Conditions	Room temp 0°C , Evap Temp-8°C					
	Capacity (kW)	31.0	37.6	46.6	56.4	62.1	75.3
Model		MEM632-A6EA	MEM632-B6EA	MEM633-A6EA	MEM633-B6EA	MEM634-A6EA	MEM634-B6EA
Fin Pitch 6mm	Nominal Conditions	Room temp-18°C , Evap Temp-25°C					
	Capacity (kW)	21.8	26.1	32.7	39.2	43.5	52.2
Model		MEM632-A9EA	MEM632-B9EA	MEM633-A9EA	MEM633-B9EA	MEM634-A9EA	MEM634-B9EA
Fin Pitch 9mm	Nominal Conditions	Room temp-25°C , Evap Temp-31°C					
	Capacity (kW)	13.7	17.2	20.5	25.8	27.3	34.4
Air flow (m <sup>3</sup> /h)		30000	29000	45000	43500	60000	58000
Air throw (m)		22	20	22	20	22	20
Tube Volume (dm <sup>3</sup> )		27.19	36.25	40.26	53.68	53.33	71.11
Pipe dia	liquid (mm)	φ22	φ28	2×φ22	2×φ22	2×φ22	2×φ28
	gas (mm)	φ54	φ54	2×φ42	2×φ54	2×φ54	2×φ54
Fan Input Power (W)		2900	2900	4350	4350	5800	5800
Defrosting Power (kW)		13.5	18.0	18.0	24.0	25.2	33.6
Size	A (mm)	2400	2400	3400	3400	4400	4400
	B (mm)	828	828	828	828	828	828
	C (mm)	1053	1053	1053	1053	1053	1053
	D (mm)	681	681	681	681	681	681
	E (mm)	2060	2060	3060	3060	4060	4060
	E1 (mm)	1000	1000	1000	1000	1000	1000
	F (mm)	220	220	220	220	220	220

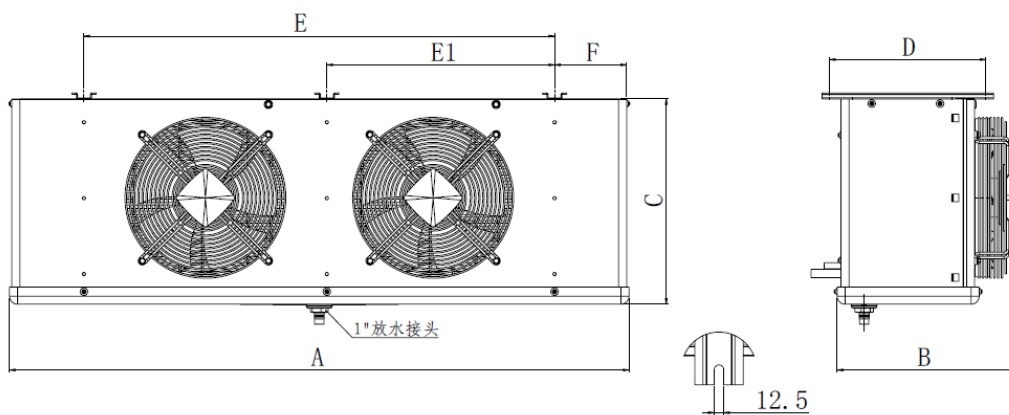
#### 4.3 MEH Series Medium

Model		MEH632-A4EA	MEH633-A4EA	MEH634-A4EA	MEH712-A4EA	MEH713-A4EA	MEH714-A4EA
Fin Pitch 4mm	Nominal Conditions	Room temp 0°C, Evap Temp-8°C					
	Capacity (kW)	51.2	76.9	102.5	56.9	85.4	113.9
Model		MEH632-A6EA	MEH633-A6EA	MEH634-A6EA	MEH712-A6EA	MEH713-A6EA	MEH714-A6EA
Fin Pitch 6mm	Nominal Conditions	Room temp-18°C, Evap Temp-25°C					
	Capacity (kW)	31.1	46.6	62.1	34.5	51.8	69.0
Model		MEH632-A9EA	MEH633-A9EA	MEH634-A9EA	MEH712-A9EA	MEH713-A9EA	MEH714-A9EA
Fin Pitch 9mm	Nominal Conditions	Room temp-25°C, Evap Temp-31°C					
	Capacity (kW)	21.2	31.9	42.5	23.6	35.4	47.2
Air flow (m <sup>3</sup> /h)		27000	40500	54000	32000	48000	64000
Air throw (m)		20	20	20	20	20	20
Tube Volume (dm <sup>3</sup> )		40.74	60.33	79.92	45.27	67.03	84.36
Pipe dia	liquid (mm)	φ22	φ28	2×φ22	φ28	φ28	2×φ28
	gas (mm)	φ67	φ67	2×φ67	φ67	φ67	2×φ67
Fan Input Power (kW)		2.9	4.35	5.8	3.8	5.7	7.6
Defrosting Power (kW)		12	16	22	14	18	25
Size	A (mm)	2543	3543	4543	2543	3543	4543
	B (mm)	915	915	915	915	915	915
	C (mm)	967	967	967	1067	1067	1067
	C1 (mm)	1064	1064	1064	1164	1164	1164
	D (mm)	732	732	732	732	732	732
	E (mm)	2060	3060	4060	2060	3060	4060
	E1 (mm)	1000	1000	1000	1000	1000	1000
	F (mm)	273	273	273	273	273	273

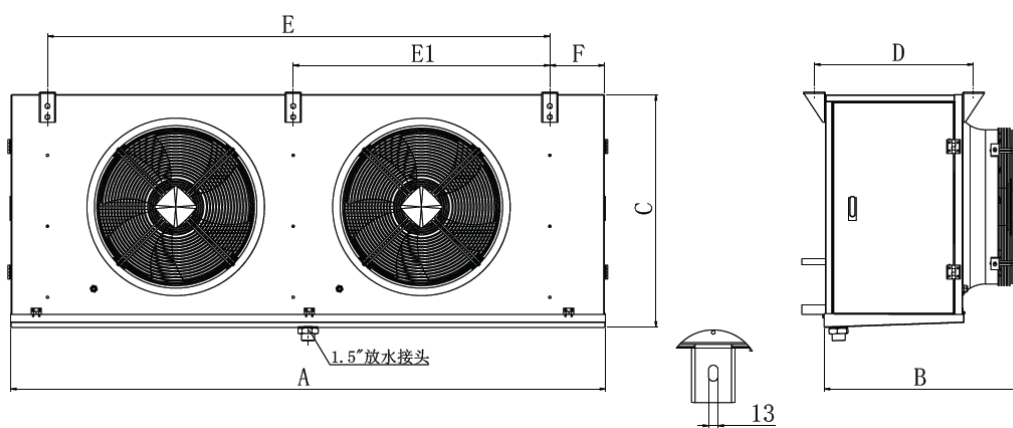
Model		MEH712-B4EA	MEH713-B4EA	MEH714-B4EA	MEH802-A4EA	MEH803-A4EA	MEH804-A4EA
Fin Pitch 4mm	Nominal Conditions	Room temp 0°C, Evap Temp-8°C					
	Capacity (kW)	67.5	101.2	135.0	75.2	112.7	150.3
Model		MEH712-B6EA	MEH713-B6EA	MEH714-B6EA	MEH802-A6EA	MEH803-A6EA	MEH804-A6EA
Fin Pitch 6mm	Nominal Conditions	Room temp-18°C, Evap Temp-25°C					
	Capacity (kW)	41.7	62.5	83.4	45.6	68.3	91.1
Model		MEH712-B9EA	MEH713-B9EA	MEH714-B9EA	MEH802-A9EA	MEH803-A9EA	MEH804-A9EA
Fin Pitch 9mm	Nominal Conditions	Room temp-25°C, Evap Temp-31°C					
	Capacity (kW)	28.5	42.8	57.0	31.2	46.7	62.3
Air flow (m <sup>3</sup> /h)		32000	48000	64000	44000	66000	88000
Air throw (m)		18	18	18	25	25	25
Tube Volume (dm <sup>3</sup> )		60.36	89.38	115.44	59.55	88.27	117
Pipe dia	liquid (mm)	φ28	2×φ22	2×φ28	φ28	2×φ28	2×φ28
	gas (mm)	φ67	2×φ67	2×φ67	φ67	2×φ67	2×φ67
Fan Input Power (kW)		3.8	5.7	7.6	8	12	16
Defrosting Power (kW)		18	24	34	17	25	33
Size	A (mm)	2543	3543	4543	2743	3843	4943
	B (mm)	1015	1015	1015	1030	1030	1030
	C (mm)	1067	1067	1067	1267	1267	1267
	C1 (mm)	1164	1164	1164	1364	1364	1364
	D (mm)	832	832	832	782	782	782
	E (mm)	2060	3060	4060	2260	3360	4460
	E1 (mm)	1000	1000	1000	1100	1100	1100
	F (mm)	273	273	273	273	273	273

Model		MEH802-B4EA	MEH803-B4EA	MEH804-B4EA	MEH802-C4EA	MEH803-C4EA	MEH804-C4EA
Fin Pitch 4mm	Nominal Conditions	Room temp 0°C, Evap Temp-8°C					
	Capacity (kW)	89.1	133.6	178.2	111.3	167.0	222.7
Model		MEH802-B6EA	MEH803-B6EA	MEH804-B6EA	MEH802-C6EA	MEH803-C6EA	MEH804-C6EA
Fin Pitch 6mm	Nominal Conditions	Room temp-18°C, Evap Temp-25°C					
	Capacity (kW)	55.0	82.6	110.1	68.8	103.2	137.6
Model		MEH802-B9EA	MEH803-B9EA	MEH804-B9EA	MEH802-C9EA	MEH803-C9EA	MEH804-C9EA
Fin Pitch 9mm	Nominal Conditions	Room temp-25°C, Evap Temp-31°C					
	Capacity (kW)	37.6	56.5	75.3	47.1	70.6	94.1
Air flow (m <sup>3</sup> /h)		42000	63000	84000	40000	60000	80000
Air throw (m)		22	22	22	20	20	20
Tube Volume (dm <sup>3</sup> )		79.39	117.70	156.00	99.24	147.12	195
Pipe dia	liquid (mm)	2×φ22	2×φ28	2×φ35	2×φ28	2×φ28	2×φ35
	gas (mm)	2×φ54	2×φ67	2×φ76	2×φ67	2×φ67	2×φ76
Fan Input Power (kW)		8	12	16	8	12	16
Defrosting Power (kW)		24	35	46	31	45	59
Size	A (mm)	2743	3843	4943	2743	3843	4943
	B (mm)	1130	1130	1130	1230	1230	1230
	C (mm)	1267	1267	1267	1267	1267	1267
	C1 (mm)	1364	1364	1364	1364	1364	1364
	D (mm)	882	882	882	982	982	982
	E (mm)	2260	3360	4460	2260	3360	4460
	E1 (mm)	1100	1100	1100	1100	1100	1100
F (mm)	273	273	273	273	273	273	

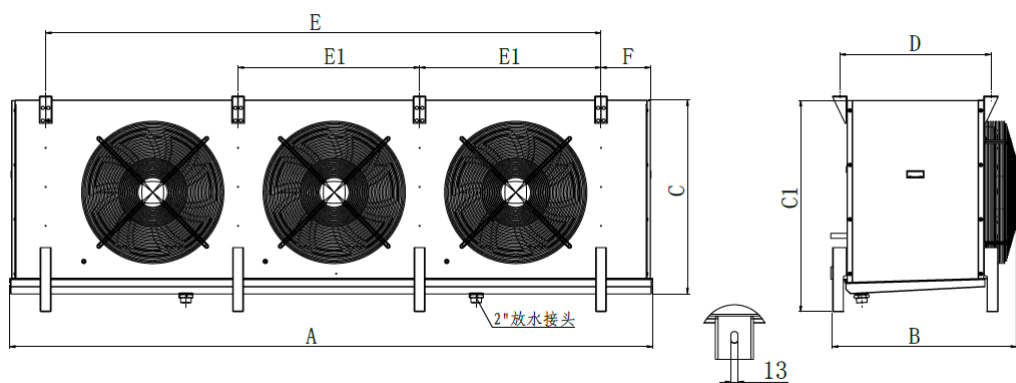
V、Overall and installing size:



MES 型



MEM 型



## VI、Cooling capacity correction:

### 1、Heat exchange temperature difference correction coefficient (C1)

$C1 = \text{required temperature difference} / \text{standard temperature difference}$

Required temperature difference = inlet air temperature - evaporation temperature (dew point)

Standard working conditions and temperature difference ( $\Delta T$ )

Standard	Air Inlet Temp (°C)	Evaporate Temp (°C)	Standard $\Delta T(K)$
SC1	10	0	10K
SC2	0	-8	8K
SC3	-18	-25	7K
SC4	-25	-31	6K

### 2、Refrigerant correction (C2)

制冷剂	R134a	R22	R404A R507A	R448A	R449A
SC1	0.93	0.95	1	0.97	0.96
SC2	0.91	0.95	1	0.96	0.95
SC3	0.85	0.95	1	0.95	0.94
SC4	-	0.95	1	0.94	0.93

### 3、Fin material correction (C3)

Fin material	Aluminum	Coated Aluminum	Copper
correction	1	0.97	1.03

### 4、Selection Instructions

The cooling capacity marked in the sample is the nominal cooling capacity under the design conditions. The actual cooling capacity under the use conditions should be corrected according to the following formula:

$QR = QN \times C1 \times C2 \times C3$  (nominal cooling capacity  $QN$  required for selection =  $QR \div C1 \div C2 \div C3$ )

Where: QR — cooling capacity under use conditions (kW)

QN — nominal cooling capacity under design conditions (kW)

C1 — heat exchange temperature difference correction factor

C2 — refrigerant correction factor

C3 — fin material correction factor

DT is the temperature difference between the storage temperature and the evaporation temperature. The recommended heat transfer temperature difference is shown in the table below.

Room Temp(°C)	10	0~4	0~4	-18	-25
Typical storage goods	Melon and vegetable	Packaged leafy vegetables Packaged apples, pears and other fruits	Unpackaged vegetables and flowers	Packaged meat	Ice cream, meat

Recommend DT(°C)	10	8	5~6	7	6
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5、 Selection example

The required cooling capacity of the air conditioner is 10KW, the storage temperature is -18°C, the stored goods are meat, the evaporation temperature is -25°C, hydrophilic aluminum foil is used, and the refrigerant is R507A.

Selection steps:

1. Select the plate spacing of 6mm
2. Determine the correction coefficient

Required heat transfer temperature difference  $DT = -18 - (-25) = 7$ , SC3 standard temperature difference = 7K, heat exchange temperature difference correction coefficient  $C1 = 7/7 = 1$

Refrigerant correction coefficient  $C2 = 1$

Fin material correction coefficient  $C3 = 0.97$

3. Calculate the required nominal cooling capacity  $QN = 10 \div 1 \div 1 \div 0.97 = 10.3kW$

Optional models: MES404-B6EA, nominal cooling capacity 11kW, selection margin 6.8%

MEM552-A6EA, nominal cooling capacity 11.5kW, selection margin 11.7%

MEM502-B6EA, nominal cooling capacity 12.2kW, selection margin 18.4%

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