



★ 惠康实业保留变更产品设计恕不预先通知的权力
 ★ 具体产品性能由双方在合同中约定，本样本仅供参考
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Hi-SURP
惠康制冷科技

HICON
惠康制冷科技

工业移动空调机组

INDUSTRIAL MOBILE AIR CONDITIONING UNIT



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NINGBO HICON INDUSTRY CO.,LTD. NATIONAL HI-TECH ENTERPRISE

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工业移动空调的典型应用场景 Typical Application Scenario of Industrial Mobile Air Conditioner

产品概述 Product Overview

HICON工业移动空调机组包括包括常温型（R410A）和高温型（R134A）两大系列。公司引入先进设计理念和制造工艺，设计开发的一系列工业移动空调机组。工业移动空调通过结合灵活性、高效能与智能化技术，成为现代工业及商业领域的重要设备。其应用范围仍在不断扩展，尤其在绿色节能和工业4.0趋势下，未来或进一步融入AI与物联网技术，提升能效与管理便捷性。适用领域：高温车间岗位降温、设备散热（如注塑机、配电箱）；开放式或半开放式场所（工地、户外活动场地）。

专注精密特种制冷 创新环境环保空调

R410A Normal Temperature Type 常温型(R410A)	R134A High Temperature Type 高温型(R134A)
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HICON industrial mobile air conditioning unit includes two series: normal temperature type (R410A) and high temperature type (R134A). The Company has introduced advanced design concepts and manufacturing technologies to design and develop a series of industrial mobile air conditioning units. The industrial mobile air conditioner has become an important equipment in modern industrial and commercial fields by combining its flexibility, high efficiency and intelligent technology. Its application scope is still expanding, especially under the trend of green energy saving and Industry 4.0, AI and IoT technologies will be further integrated in the future to enhance energy efficiency and management convenience. Applicable fields: Cooling of workstations and heat dissipation of equipment (e.g. injection molding machines and distribution boxes) in high-temperature workshops; open or semi-open places (construction sites and outdoor activity spaces).



工业生产环境 Industrial production environment

车间与仓库：快速调节高温区域温度，保障设备正常运行和工人作业安全。
Workshops and warehouses: Adjust the temperature in high-temperature areas quickly to ensure the normal operation of equipment and the operation safety of workers.
生产线局部降温：针对发热设备或密集工位提供定向制冷，避免整体空调的能源浪费。
Local cooling on production lines: Provide directional cooling for heat generating equipment or intensive stations to avoid energy waste of the overall air conditioner.



临时与户外作业 Temporary and outdoor operations

建筑工地、港口：为露天作业人员提供临时降温解决方案，改善工作条件。
Construction sites and ports: Provide temporary cooling solutions for outdoor workers and improve their working conditions.
展会、体育场馆：应对短期活动需求，灵活部署于不同区域。
Exhibitions and sports venues: It can be flexibly deployed in different regions to meet the needs of short-term activities.



特殊环境需求 Special environmental requirements

高温厨房、实验室：传统空调难以覆盖的场所，通过移动空调实现局部控温。
High-temperature kitchens and laboratories: Local temperature control can be achieved through the mobile air conditioners in places that are difficult to be covered by traditional air conditioners.
畜牧业与农业大棚：调节温湿度，保障动植物生长环境。
Animal husbandry and agricultural greenhouses: Regulate the temperature and humidity to ensure the growing environment of animals and plants.

工业移动空调的核心特点 Core Features of Industrial Mobile Air Conditioner

灵活移动性 Flexible movability

配备万向脚轮或可移动底盘，无需固定安装，可快速在不同区域或场所间转移，尤其适合临时性、多变的作业环境。

Equipped with swivel casters or a movable chassis, it can be quickly transferred between different areas or places without fixed installation, especially suitable for temporary and changeable working environments.



高效制冷与节能技术 Efficient cooling and energy-saving technology

采用先进制冷系统（如高效压缩机、蒸发冷却技术），能在短时间内降低环境温度，部分型号可实现4-15℃的降温效果。

With an advanced cooling system (e.g. efficient compressor and evaporative cooling technology), it can reduce the ambient temperature in a short time, and some models can achieve the cooling effect of 4-15°C.

局部制冷设计减少能源浪费，通过智能算法优化能耗，相比传统空调节能最高30%-50%。

Energy waste can be reduced through local cooling design, and energy consumption can be optimized through intelligent algorithms, thus saving up to 30%-50% energy compared with traditional air conditioners.



智能化与多功能集成 Integration of intelligence and multi-functions

搭载传感器和智能控温技术，实时监测湿度并自动调节工作模式。

Equipped with sensors and intelligent temperature control technology, it can monitor the humidity in real time and adjust the working mode automatically.



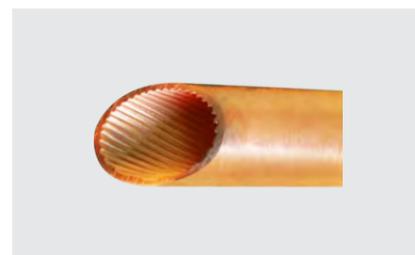
安全与耐用性 Safety and durability

采用防过热、防漏电保护设计，并通过优质材料保障恶劣工业环境下的稳定运行。

Designed with anti-overheating and leakage protection, it is guaranteed for stable operation in harsh industrial environments through high-quality materials.

冷凝水自动处理技术，避免频繁排水问题。

Automatic condensate treatment technology is adopted to avoid the problem of frequent drainage.



产品选型 Product model selection

请按照机组型号表示方法写出您需要的机组型号
Please write out the unit model you need according to the unit model denotation method

类型 Type	常温型R410A Normal temperature R410A	高温型R134A High temperature R134A
条件 Conditions		
适用温度范围 Applicable temperature range	18 ~ 43°C	25 ~ 55°C
制冷 Cooling		
制热 Heating	≤30°C	≤30°C
电压偏差 Voltage deviation	10%	

工业移动空调机组命名方法 Naming method of industrial mobile air conditioning unit



订货注意事项说明 Instructions for ordering precautions

- 为了使机组能够更好的为您服务,请在订货时注明机组的使用场所和使用季节,我们将有机会为您提供更为稳定可靠的控制系统;
- 本公司产品在安装调试时,可向公司或各地分公司提出技术支持;
- 本公司遵循不断完善产品的原则,对产品规格、性能、材料的部分改进或许难以通知阁下,敬请谅解。请与我公司保持联系以索取最新资讯。

工业移动空调机组(常温型R410A)

Industrial Mobile Air Conditioning Unit (Normal Temperature R410A)

项目 Item	参数 Parameters		型号 Model								
			HYDZ-5	HYDZ-7	HYDZ-10	HYDZ-12	HYDZ-17	HYDZ-20	HYDZ-25	HYDZ-30	HYDZ-35
室内机 Indoor unit	制冷量 Cooling capacity	kW	5	7	10	12	17	20	25	30	35
	电加热量 (选配) Electric heating capacity (optional)		3	4.5	6	7.5	9	12	15	18	18
	循环风量 Circulating air flow	m ³ /h	600	800	1200	1440	2040	2400	3000	3600	4200
	送距离 Air supply distance	m	5	8	8	8	10	10	18	15	15
	适用温度范围 Applicable temperature range		18-43°C	18-43°C	18-43°C	18-43°C	18-43°C	18-43°C	18-43°C	18-43°C	18-43°C
	能量调节范围 Energy regulation range		100-0	100-0	100-0	100-0	100-0	100-0	100-0	100-0	100-0
	电源 Power supply		1P-AC220V/50HZ	3P-AC380V/50HZ	3P-AC380V/50HZ	3P-AC380V/50HZ	3P-AC380V/50HZ	3P-AC380V/50HZ	3P-AC380V/50HZ	3P-AC380V/50HZ	3P-AC380V/50HZ
	制冷功率 Cooling power	kW	1.8	2.5	3.6	4.4	6.2	7.3	9.1	10.9	12.7
	最大运行功率 (单冷) Maximum operating power (single-cooled)	kW	2.4	3.3	4.7	5.7	8.0	9.5	11.8	14.2	16.5
	制热功率 (选配) Heating power (optional)	kW	3.4	5.1	6.8	8.5	10.3	13.6	17.0	20.4	20.7
	建议电源电缆 (单冷) Recommended power cable (single-cooled)	mm ²	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0
	建议电源电缆 (电热) Recommended power cable (electric heating)	mm ²	4.0	2.5	2.5	4.0	4.0	6.0	6.0	10.0	10.0
机组特性 Unit characteristics	蒸发器 Evaporator	类型 Type	铜管-铝鳍片式 Copper pipe - aluminum fin type								
		翅片形式 Fin form	亲水百叶窗型铝翅片 Hydrophilic shutter aluminium fins								
	电加热 Electric heating	类型 Type	陶瓷PTC PTC Ceramic								
		制冷剂 Refrigerant	冷媒型号 Refrigerant type	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	送风机 Blower	充注量 (kg) Filling volume (kg)	1.3	1.8	2.5	3.0	4.3	5.0	6.3	7.5	8.8
		类型 Type	低噪音离心风机 Low noise centrifugal fan								
	压缩机 Compressor	传动方式 Drive mode	直接驱动 Direct drive								
		类型 Type	转子式 Rotor type					涡旋式 Scroll type			
	冷凝器 Condenser	数量 Qty.	1	1	1	1	1	1	1	1	1
		类型 Type	铜管铝翅片 Copper pipe aluminum fin								
	风机部分 Fan part	风机类型 Fan type	轴流风叶 Axial flow fan blade								
		风量(m ³ /h) Air flow (m ³ /h)	2000	2800	4000	4800	6800	8000	10000	12000	14000
配管尺寸 Piping size	送风口尺寸 Size of air supply outlet	125	125	200	200	315	315	315	400	400	
	数量 Qty.	2	3	2	2	1	1	1	1	1	
	排热口尺寸 Heat outlet size	490	490	550	550	600	600	630	650	650	
	排水管管径 Drain pipe diameter	DN15	DN15	DN15	DN20	DN20	DN20	DN20	DN20	DN20	
外形尺寸 Overall dimensions	长(mm) Length (mm)	563	563	800	800	1000	1000	1000	1000	1000	
	宽(mm) Width (mm)	724	724	1280	1280	1460	1460	1460	1660	1660	
	高(mm) Height (mm)	1316	1316	1160	1160	1260	1260	1480	1480	1480	
	重量(Kg) Weight (kg)	89	112	156	186	236	330	360	390	430	
	噪音(dB)A Noise (dB)A	59	61	61	61	62	63	63	68	69	

注：
1、额定制冷量测试工况：室外干球/湿球35°C/28°C

Note:
1. Test conditions of rated cooling capacity: Outdoor dry bulb/wet bulb: 35°C/28°C

工业移动空调机组(高温型R134A)

Industrial Mobile Air Conditioning Unit (High Temperature R134A)

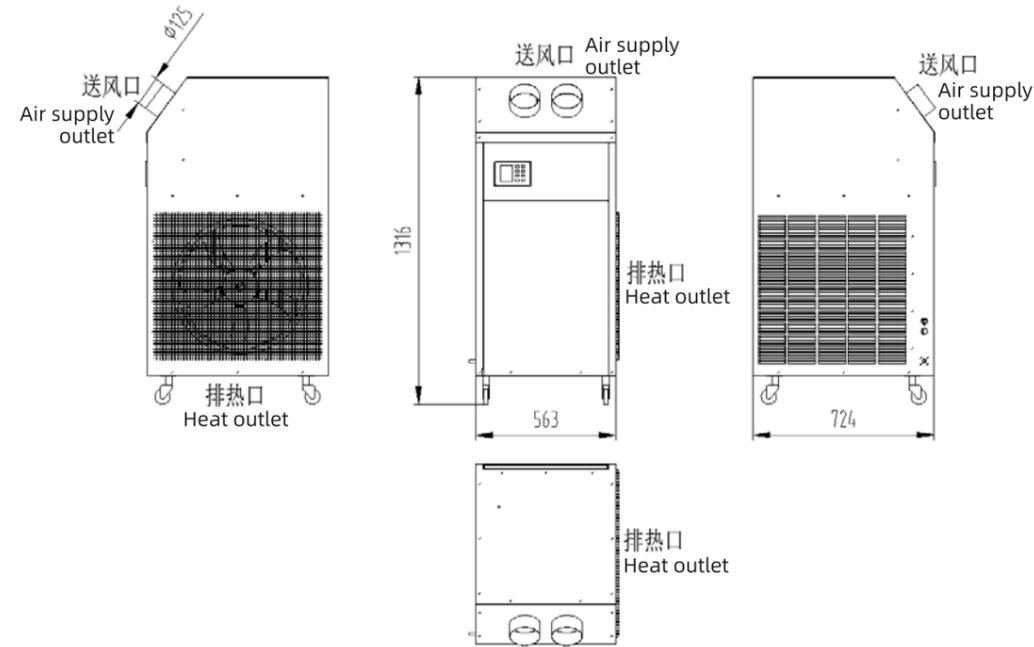
项目 Item	参数 Parameters		型号 Model								
			HYDM-5	HYDM-7	HYDM-9	HYDM-11	HYDM-14	HYDM-17	HYDM-22	HYDM-26	HYDM-31
室内机 Indoor unit	制冷量 Cooling capacity	kW	4.5	6.3	9	11	14	17	22	26	31
	电加热量 (选配) Electric heating capacity (optional)		3	4.5	6	7.5	9	12	15	18	18
	循环风量 Circulating air flow	m³/h	540	800	1080	1320	1680	2040	2640	3120	3720
	送距离 Air supply distance	m	5	8	8	8	10	10	18	15	15
	适用温度范围 Applicable temperature range		25-55°C	25-55°C	25-55°C	25-55°C	25-55°C	25-55°C	25-55°C	25-55°C	25-55°C
	能量调节范围 Energy regulation range		100-0	100-0	100-0	100-0	100-0	100-0	100-0	100-0	100-0
	电源 Power supply		1P-AC220V/50HZ	3P-AC380V/50HZ	3P-AC380V/50HZ	3P-AC380V/50HZ	3P-AC380V/50HZ	3P-AC380V/50HZ	3P-AC380V/50HZ	3P-AC380V/50HZ	3P-AC380V/50HZ
	制冷功率 Cooling power	kW	2.0	2.7	3.9	4.8	6.1	7.4	9.6	11.3	13.5
	最大运行功率 (单冷) Maximum operating power (single-cooled)	kW	2.5	3.6	5.1	6.2	7.9	9.6	12.4	14.7	17.5
	制热功率 (选配) Heating power (optional)	kW	3.4	5.0	6.8	8.4	10.2	13.5	16.9	20.2	20.5
	建议电源电缆 (单冷) Recommended power cable (single-cooled)	mm²	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0
	建议电源电缆 (电热) Recommended power cable (electric heating)	mm²	4.0	2.5	2.5	4.0	4.0	6.0	6.0	10.0	10.0
机组特性 Unit characteristics	蒸发器 Evaporator	类型 Type	铜管-铝鳍片式 Copper pipe - aluminum fin type								
		翅片形式 Fin form	亲水百叶窗型铝翅片 Hydrophilic shutter aluminium fins								
	电加热 Electric heating	类型 Type	陶瓷PTC PTC Ceramic								
		制冷剂 Refrigerant	冷媒型号 Refrigerant type	R134A	R134A	R134A	R134A	R134A	R134A	R134A	R134A
	送风机 Blower	充注量 (kg) Filling volume (kg)	1.3	1.8	2.6	3.2	4.1	4.9	6.4	7.5	9.0
		类型 Type	低噪音离心风机 Low noise centrifugal fan								
	压缩机 Compressor	传动方式 Drive mode	直接驱动 Direct drive								
		类型 Type	转子式 Rotor type			涡旋式 Scroll type					
	冷凝器 Condenser	数量 Qty.	1	1	1	1	1	1	1	1	1
		类型 Type	铜管铝翅片 Copper pipe aluminum fin								
	风机部分 Fan part	风机类型 Fan type	轴流风叶 Axial flow fan blade								
		风量(m³/h) Air flow (m³/h)	1800	2520	3600	4400	5600	6800	8800	10400	12400
配管尺寸 Piping size	送风口尺寸 Size of air supply outlet	125	125	200	200	315	315	315	400	400	
	数量 Qty.	2	3	2	2	1	1	1	1	1	
	排热口尺寸 Heat outlet size	490	490	550	550	600	600	630	650	650	
	排水管管径 Drain pipe diameter	DN15	DN15	DN15	DN20	DN20	DN20	DN20	DN20	DN20	
外形尺寸 Overall dimensions	长(mm) Length (mm)	563	563	800	800	1000	1000	1000	1000	1000	
	宽(mm) Width (mm)	724	724	1280	1280	1460	1460	1460	1660	1660	
	高(mm) Height (mm)	1316	1316	1160	1160	1260	1260	1480	1480	1480	
	重量(Kg) Weight (kg)	89	112	156	186	236	330	360	390	430	
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注：
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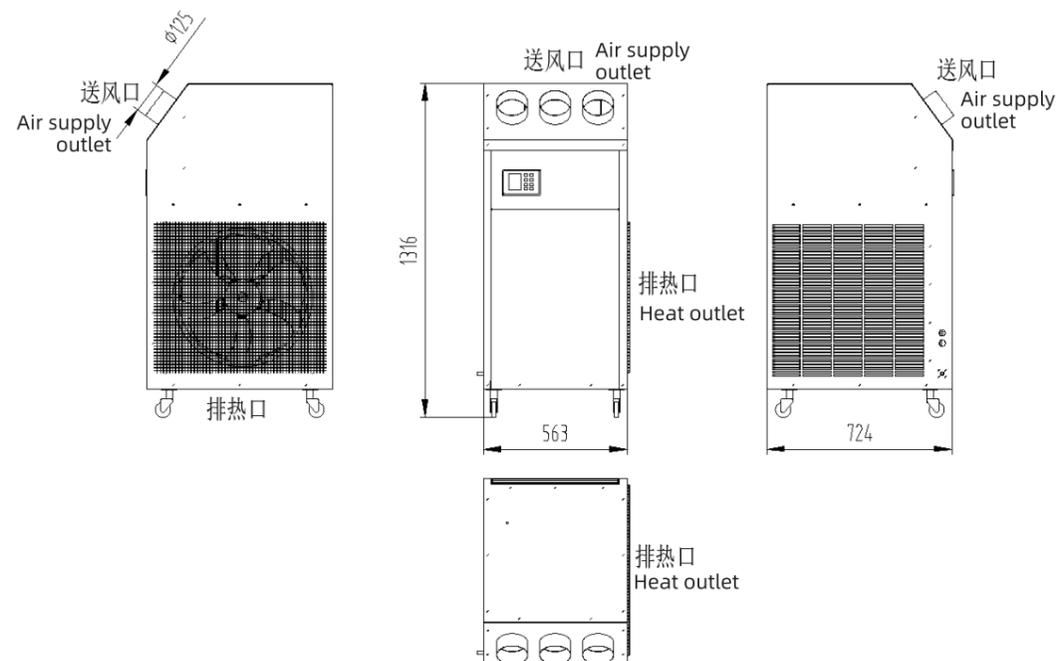
Note:
1. Test conditions of rated cooling capacity: Outdoor dry bulb/wet bulb: 35°C/28°C

外形尺寸图 Outline Dimensional Drawing

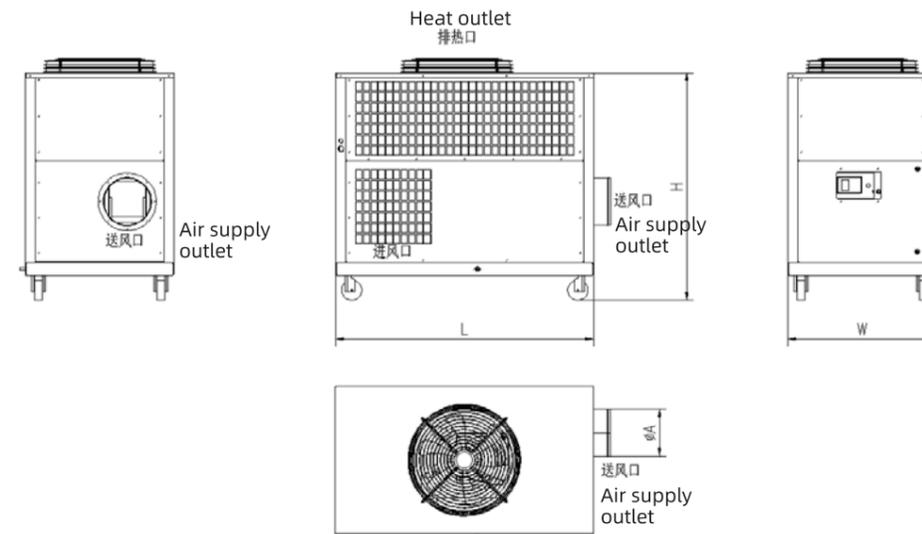
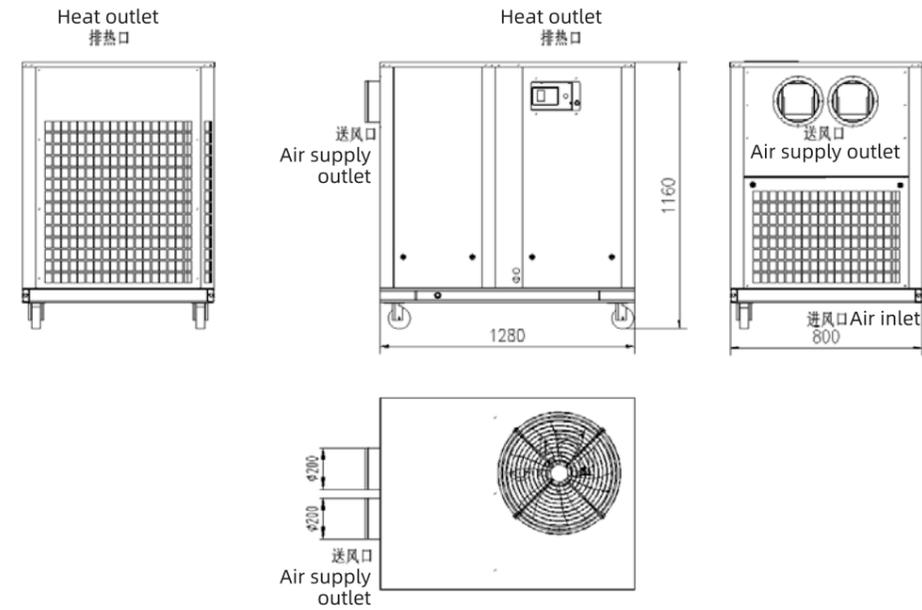
HYDZ-5/HYDM-5尺寸图
HYDZ-5/HYDM-5 Dimensional Drawing



HYDZ-7/HYDM-7尺寸图
HYDZ-7/HYDM-7 Dimensional Drawing



HYDM-9/HYDM-11/HYDZ-10/HYDZ-12尺寸图
HYDM-9/HYDM-11/HYDZ-10/HYDZ-12 Dimensional Drawing



机组型号 Unit model	L(mm)	W(mm)	H(mm)	ΦA(mm)
HYDZ-17/HYDZ-20	1460	1000	1260	315
HYDM-14/HYDM-17	1460	1000	1260	315
HYDZ-25	1460	1000	1480	315
HYDM-22	1460	1000	1480	315
HYDZ-30/HYDZ-35	1660	1000	1480	400
HYDM-26/HYDM-31	1660	1000	1480	400

保养和使用注意事项 Precautions for Maintenance and Use

日常保养指南 Guidelines for Daily Maintenance

★定期清洁滤网

□Regular cleaning of filter screen

频率：每1-2周清洁一次（高粉尘环境需更频繁）。

Frequency: Clean it once every 1-2 weeks (more frequently in high dust environment).

方法：拆下滤网后用软刷或吸尘器除尘，清水冲洗晾干后装回，避免堵塞影响进风效率。

Method: Disassemble the filter screen, remove dust with a soft brush or vacuum cleaner, wash it with clear water, and then reinstall it after drying, in order to avoid clogging and affecting the air intake efficiency.

★冷凝器与蒸发器维护

★Maintenance of condenser and evaporator

每季度用软毛刷清理翅片上的灰尘，避免积灰导致制冷效率下降。

Clean the dust on fins with a soft brush every quarter to avoid the decline of cooling efficiency due to dust accumulation.

顽固污渍可用中性清洁剂稀释后轻擦，严禁高压水枪冲洗。

Stubborn stains can be gently wiped after being diluted with neutral detergent, and washing with high-pressure water gun is strictly prohibited.

★排水系统处理

★Drainage system treatment

检查排水管是否通畅，定期疏通排水管。

Check whether the drain pipe is unobstructed and dredge it regularly.

长时间使用后，用白醋或专用清洁剂冲洗排水管，防止霉菌滋生。

After being used for a long time, wash the drain pipe with white vinegar or special detergent to prevent mold growth."

★外壳与散热口清洁

★Cleaning of enclosure and heat dissipation port

用干布擦拭机身，避免液体渗入内部电路。

Wipe the unit body with a dry cloth to prevent liquid from seeping into the internal circuit.

确保进风口无遮挡，保持周围50cm内无杂物。

Make sure that the air inlet and outlet are not shielded, and keep the surrounding 50cm free of sundries.

★长期停用保养

★Maintenance for long-term shutdown.

关闭电源，排除冷凝水，防止内部发霉。

Turn off the power and drain condensate water to prevent internal mildew.

套防尘罩存放于干燥处，避免阳光直射。

Store it in a dry place with a dust cover to avoid direct sunlight.

使用注意事项 Precautions for Use

★环境与安装要求

□Environment and installation requirements

通风条件：确保使用空间有适当通风，避免密闭环境导致散热不良（如帐篷内需预留换气口）。

Ventilation conditions: Make sure that there is proper ventilation in the operating space to avoid poor heat dissipation due to closed environment (e.g. scavenge ports should be reserved in tents).

防水防潮：非防水机型禁止在雨天或高湿度环境使用，避免电路短路。

Waterproofing and moisture-proofing: Non-waterproof models are forbidden to be used in rainy days or high humidity environment in order to prevent any short circuit.

地面平整：放置平稳地面，倾斜超过10°可能引发压缩机故障。

Flat ground: Place it on a stable ground, otherwise any inclination exceeding 10° may cause compressor failure.

★电源与能耗管理

★Power supply and energy consumption management"

使用独立电源，避免与其他大功率设备共用电路，防止过载。

Independent power supply is adopted to avoid sharing the circuit with other high-power equipment to prevent overload.

电压不稳定地区建议加装稳压器，保护压缩机寿命。

It is recommended to install a voltage stabilizer in areas with unstable voltage to protect the life span of compressor.

★运行中的操作规范

★Operating specifications in operation"

避免设置过低温度（建议与室外温差≤8°C），防止压缩机超负荷。

Avoid setting the temperature too low (recommended temperature difference with the outdoor temperature is ≤8°C) to prevent compressor overload.

移动设备前务必关机并等待3分钟，防止冷媒冲击损坏管路。

Be sure to power off and wait for 3 minutes before moving the equipment to prevent the refrigerant from impacting and damaging the pipeline.

★特殊场景应对

★Response to special scenarios"

高温环境：环境温度超过43°C时暂停使用，避免压缩机过热。

High temperature environment: Suspend its operation when the ambient temperature is over 43°C to avoid compressor overheating.

粉尘环境：加装防尘网或缩短滤网清洁周期，保护内部元件。

Dust environment: Install a dust screen or shorten the filter screen cleaning cycle to protect internal components.

频繁移动：轻推缓移，避免剧烈震动导致冷媒泄漏或部件松动。

Frequent movement: Push gently and move slowly to avoid refrigerant leakage or loose parts due to violent vibration.

常见故障预防 Prevention of Common Faults

问题现象 Problem description	可能原因 Possible cause	预防措施 Prevention measures
制冷效果下降 Declined cooling effect	滤网堵塞/冷媒不足 Blocked filter screen/insufficient refrigerant	定期清洁滤网，每2年检测冷媒压力 Clean the filter screen regularly and test the refrigerant pressure every 2 years
异常噪音 Abnormal noise	机身倾斜/风扇叶片变形 Tilted unit body/fan blade deformation	放置平稳，避免磕碰散热部件 Place it stably to avoid bumping the heat dissipation parts
漏水 Water leakage	排水管堵塞/储水盒未安装 Blocked drain pipe/uninstalled water storage box	检查排水系统密封性 Check the tightness of drainage system
故障管机 Faulty pipeline	过热保护/电压不稳/高压 Overheat protection/instable voltage/high voltage	改善散热条件，加装稳压器 Improve heat dissipation conditions and install a voltage stabilizer

