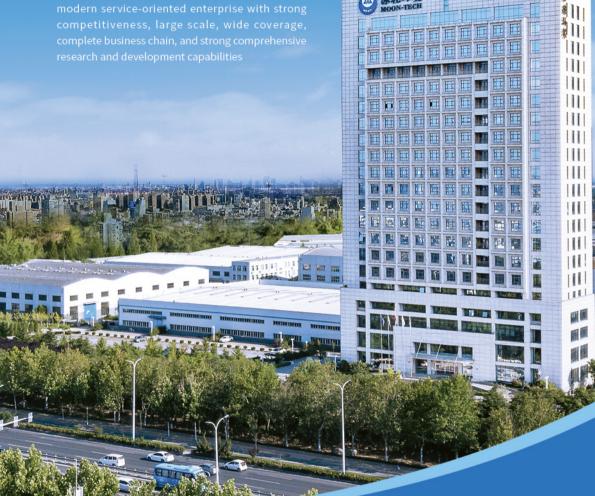


HIGH EFFICIENCY AIR COOLER



冰轮环境技术股份有限公司 MOON ENVIRONMENT TECHNOLOGY CO.,LTD. With continuous technological and manage has







Industrial Park in the US



Malaysian Industrial Park



Industrial Park in the UK



Vietnam Industrial Park



Baoding Industrial Park



Guxian Industrial Park



Laishan Industrial Park



Jinan Center



Low-temperature refrigeration



Central airconditioning



Environmentally friendly heating



Energy and chemical equipment



Precision Casting



Hydrogen Energy Development



Smart Services



Intelligent Packing Machinery and Warehouse Storage System

With devoting to improving the quality of human life as the enterprise mission, MOON-TECH continuously build and enhance competitive advantages in the field of comprehensive energy utilization and accelerate the process of globalization, taking the revitalization of national industry and achievement of customer value as its responsibility, continuously creates and improves its competitive advantage, striving to become an evergreen enterprise with core competitiveness, loved by employees and respected by industrial partners.















(Stock Code of 000811)

Founded in 1956, Moon Environment Technology Co., Ltd (Stock Code: 000811). is a diversified and international comprehensive equipment industrial enterprise. The main business covers low-temperature refrigeration, central air conditioning, environmental protection heating, energy and chemical equipment, precision castings, smart services, hydrogen energy development, etc. In recent years, MOON-TECH has successively won the titles of Top 30 Enterprises with Core Competitiveness in China's Machinery Industry, Top 100 Enterprises of National Machinery Industry, Meritorious Enterprise of Equipment in China, and Demonstration Enterprise for Ozone Layer Protection.

MOON-TECH

For a longtime, with continuous technological and manage has promoted the continuous optimization of resource allocation and reconstruction of core competencies, accelerated international expansion transformation. We have transformed from a traditional manufacturing enterprise to a modern service-oriented enterprise with strong competitiveness, large scale, wide coverage, complete business chain, and strong comprehensive research and development capabilities

With the synchronous development of refrigeration and heat treatment, and actively expanding energy-saving and environmental protection industry as developing strategy, MOON-TECH is engaged in the technical research and development of low-temperature environment, waste heat recovery, gas compression, industrial heat exchange, urban clean emission and other fields, as well as the production and sales of related complete sets of equipment, and specializes in food refrigeration, chemical process cooling, comfortable environment air conditioning, research temperature control, process gas compression, building aggregated cooling, comprehensive application of heat energy, permafrost drilling, waste treatment, tec. MOON-TECH has production bases, scientific research centers and marketing& service organizations in more than 40 countries around the world. With safe, environmentally friendly, energy-saving, intelligent and Butler-style system integration capabilities, MOON-TECH is providing products with entire product life cycle to users in more than 120 countries and regions around the world.

MOON-TECH has 6 national scientific and technological innovation platforms including the National-Recognized Enterprise Technology Center and 16 provincial scientific and technological innovation platforms including the Shandong Provincial Key Laboratory of Energy Saving and Environmental Protection of Refrigeration Equipment. MOON-TECH has been recognized as a key high-tech enterprise of the China Torch Program, with 326 national patented technologies, and has hosted and participated in the formulation of 25 national standards and 37 industry standards. MOON-TECH has won two national awards, the National Science & Technology Progress Award and the National Technology Invention Award, and has successively won 213 provincial and ministerial scientific and technological achievements awards such as the Special Prize for Scientific and Technological Progress of the Chinese Association of Refrigeration and the First Prize for Scientific and Technological Progress of Shandong Province.

Following the requirements of the environmental policy of harmonious coexistence between human and nature, MOON-TECH is committed to the innovation of artificial environment control technology and comprehensive energy utilization technology to promote a simple, moderate, green and low-carbon mode of social production and operating system, actively building an interconnected and complementary system, including refrigeration, heating, water, gas, electricity, sewage, waste within the -271 °C -200 °C temperature and 0-90Mpa pressure range, aiming to achieve an energy ecological link between industrial parks and living spaces, and become an intelligent green energy system solution service provider. MOON-TECH also dedicates to develop the utilizations of NH3、CO2、HC、He、H2O and other environmentally friendly substances application technologies, striving to provide professional, high value-added intelligent energy comprehensive utilization solutions.

In recent years, MOON-TECH actively actualized the green and low-carbon developing concept, accelerating the transformation of traditional industries around the dual-carbon goal and energy revolution, promoting the upgrading of the industrial structure to a low-carbon and high-quality level, and set six goals of "low-carbon industry, low-carbon technology, low-carbon manufacturing, low-carbon chain, low-carbon services, low-carbon culture", so as to ultimately realize the industrial structure of high-end, low-carbon consumption of energy, utilization of resources recycling, cleanliness of the production process, and to contribute to the realization of dual-carbon target.





Research and Development Strength

Relying on innovative platforms such as National Enterprise Technology Center and Post-doctoral Scientific Research Workstations, MOON-TECH takes advantage of the joint R&D of production, teaching and research, and uses special heat exchanger software to optimize the design, determine the best exhausts pipe combination and single pipe length. And based on CFD simulation, MOON-TECH achieves the optimal design of heat exchange, pipe resistance, wind resistance and launches a series of chiller products.

MOON-TECH has many laboratories including air cooling devices, low temperature wind tunnels, and rapid freezing wind field research. It has accumulated various experimental data that affects heat exchanges such as frost layer thickness, face velocity, single tube length, different working mediums, driving temperature difference, evaporation temperature, etc.





Product Application

As the evaporator in the refrigeration system, the air cooler is widely used in various sub-sectors in the refrigeration industry, such as the low temperature quick-freezing and refrigeration of meat, poultry, egg and milk, aquatic products, fruits and vegetables, prepared rice and flour foods, cold beverage products, etc. At the same time, MOON air cooler are also widely used in the comfortable air conditioning industry, such as workshop air conditioning, temperature maintenance of ice sports venue, etc. Compared with the tube evaporator, the air cooler adopts forced convection circulation outside the tube, and the external fins are added to balance the overall thermal resistance. The heat exchange efficiency is high and the structural layout is flexible. It will be more and more widely used.





Product Features



Safe

Under the premise of the ISO9001 quality assurance system, every link from the raw material flows, production to product output is effectively controlled and ensured, which provides a guarantee for the safety operation of product. The use of corrosion-resistant materials, can ensure safe use for customers.



Eco-Friendly

The MOON cooler products are constantly following up the latest international thermodynamic research results, and a lot of practical experience are applied in product development to provide customers with products that can use more environmentally friendly working mediums, have higher heat exchange efficiency, and operate reliably and stably.



Energy Saving

The imported processing equipment ensures high heat exchange efficiency. The fin shape with special design and the optimum air flow mode has greatly improved the heat exchange efficiency of the product. At the same time, the energy efficiency of the product is improving continuously by use of the well-known brand motors and impellers. In the design of the complete system solution, in accordance with the specific circumstances of the customer, the most economical and practical solution with the best optimization can be provided to make customers maximize their benefits.



Product Category

■Refrigerant: CO₂ NH₃

- Material of Tube & Fin
 Stainless steel tube and aluminum fin-for CO₂ NH₂
 Aluminum tube and aluminum fin-for NH₃
- Structure Form of Installation: Ceilingmounted, Floor-mounted
- •Required Wind Outer Direction: Induced air

Note: This catalogue selects CO₂ and NH₃ as an example, and provides related basic technical parameters. If you need to select ethylene glycol, calcium chloride, R507A, R134a and other refrigerant products and more detailed technical parameters, outline drawings, foundation drawings, please contact your local sales representative.

Product Structure

Casing

The enclosure is made of high-quality Al-Zn alloy coated steel sheet, with electrostatic spraying process, the traditional color code is RAL9010, which is beautiful and corrosion-resistant. Stainless steel is optional material which has good anti-corrosion performance and appearance.

Coil

- Aluminum tubes and aluminum fins are characterized by light weight and fast heat conduction. Imported special equipment is used for expanded connection of fins with heat exchange tubes, and they are in tight contact, thereby realizing small thermal contact resistance and high heat exchange efficiency.
- •Stainless steel tube and aluminum fin: stainless steel heat exchange tube is made of \$30403 material, 100% eddy current testing, 100% air tightness test. The coil is light in weight and fast in heat conduction. Fins and heat exchange tubes use imported special hydraulic expansion equipment, so that the heat exchange tubes and fins are in close contact, with the small contact thermal resistance and high heat exchange efficiency.

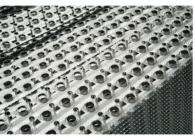






Fins

Aluminum alloy fins or hydrophilic coating fins can be selected according to different application requirements (mainly used in air conditioners). Using regular triangle fins type special for 55X47.63mm chiller, the heat exchange efficiency is organically coupled with the air side resistance, and the cooler has the best operating efficiency.





Axial Fan and Motor

Both domestic and imported axial fans can be selected. The domestic fan is the cylindrical axial fan produced by a well-known domestic brand manufacturer. It is featured with high efficiency, wide adjustment range of air volume and air pressure, stable operation and low noise. The protective level of the fan motor is IP55 and its applicable temperature range $-40^{\circ}\text{C} \sim 40^{\circ}\text{C}$. It can also be customized according to customer needs. The fan motors are all equipped with overheat protection.



Water Distributor

The cooling tank designed with a mesh water spraying mode, which is characterized by uniform water spraying, no blind area, high defrosting speed and small water consumption. The shielding board between the cooling tank and the drip tray effectively prevents water from splashing outside.



Defrosting

The mode of water defrosting, hot refrigerant defrosting or water + hot refigerant defrosting can be used according to customer needs.



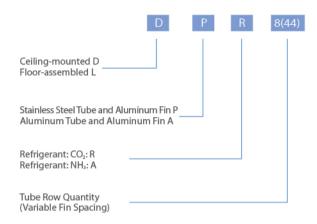
Factory Test

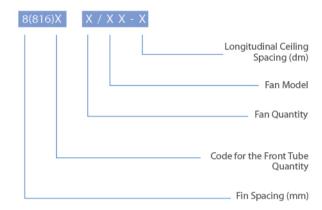
Before delivery, all air cooler are tested for air pressure. The test pressure is 2.3 MPa for NH $_3$ and 6.0 MPa for CO $_2$, and after the test is accepted, 0.05MPa dry nitrogen is charged.





Model Description





Name and Code of Refrigerant

Name of Refrigerant	R744/CO2	R717/NH₃	Ethylene Glycol	R404A	R507A	R407	R410
Code	R	Α	Z	Е	U	С	D

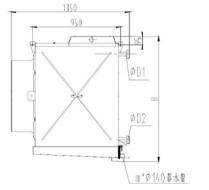
Number and Code of Face Tube

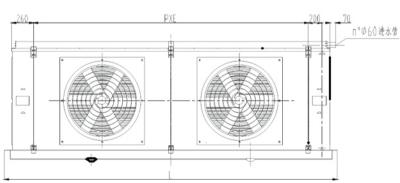
Number of Face Tube	10	12	14	16	18	20	22	24	26
Code	В	С	D	Е	F	G	Н	1	J

For Example:

Stainless steel tube and aluminum fin ceiling-mounted CO₂ air cooler, variable fin spacing, 4 rows of 8mm fin spacing, 2 rows of 16mm fin spacing, 20 (G) front tubes, equipped with 2 sets of Model 80 fans, the ceiling-mounted air cooler with 15dm (1500mm) spacing in longitudinal direction, the model can be expressed by DPR42816G2/80-15.

Outline Drawing





Note: Reserved flange interface for aluminum tube and aluminum fin air cooler, and reserved blind plate interface for stainless steel tube and aluminum fin air cooler.

Selection Parameter Table and Standard Configuration

ltem	Optional List	Standard Configuration		
Туре	Ceiling-Mounted, Floor-Mounted	Ceiling-Mounted		
Spec. and Material of Heat Exchange Tube	16X0.6/S30403	1670 61520402		
/ mm	16X1.2/6063T4	16X0.6/S30403		
Fins	Aluminum Fin 8011/Hydrophilic Aluminum Foil P12-8011-O	Aluminum Fin 8011		
Refrigerant	R717/R744/Ethylene Glycol	1		
Material of Casing	Aluminizing Zinc Plate/Stainless Steel Plate	Aluminizing Zinc Plate		
Fan Thermal Protection	With Thermal Protection	With Thermal Protection		
Defrosting Method	Water/Hot Ammonia Defrosting/Water + Hot Ammonia Defrosting	Water		
Drip Tray	With Thermal Insulation/Without Thermal Insulation	Without Thermal Insulation		
Water Baffle	With/Without	With		
Electrical Heating of Refrigeration	With/Without	Without		
Blowing Mode	Induced Air	Induced Air		
Liquid Supply Mode	Pump Supply/Gravity Supply	Pump Supply		
Flow Direction of Working Medium	Bottom in, Top out/Side in, Side out	Bottom in, Top out		
Fan Type	Drum-Type/Mesh-CoverType	Drum-Type		
Liquid Supply Direction	Left/Right	Right		
Tube Placing Pattern (mm)	55X47.63	55X47.63		
Fin Spacing (mm)	612/816	/		

Note: It is recommended that the drip tray should be insulated when the defrosting method is "Hot Ammonia Defrosting".



Performance Parameters Table of 8/16 Fin Spacing DAA Series NH₃ Ceiling-Mounted Aluminum Tubes and Aluminum Fins High-Efficiency Air Cooler

	Cooling Area	Air Flow	Air Pressure	Air Throw	Inlet Outle Connec	t for	Defrosting Water Quantity	Tube Volume	Net Weight	Total Fan Power	Outside Dimension
Air Cooler Model	m²	m³/h	pa	m	Refrigerants		m³/h	L	kg	kW	Length*Width*Height
					D1	D2					(mm)
DAA42816G1/80-15	110	22000	290	28	38	58	3.8	40	300	1*3.0	2170*1350*1415
DAA44816G1/80-15	130	22000	290	28	38	58	4.6	53	320	1*3.0	2170*1350*1415
DAA6201661/00 15	150	29000	290	32	38	58	5.6	63	340	1*4.0	2170*1350*1415
DAA62816G1/80-15	150	22000	290	28	38	58	5.6	63	335	1*3.0	2170*1350*1415
DAA64016C1/00 17	200	29000	290	32	38	58	7.0	75	365	1*4.0	2470*1350*1415
DAA64816G1/80-17	200	22000	290	28	38	58	7.0	75	360	1*3.0	2470*1350*1415
DAA44816G2/80-15	265	44000	290	28	45	75	9.5	100	565	2*3.0	3670*1350*1415
DAA62816G2/80-15	305	58000	290	32	45	75	11.0	100	590	2*4.0	3670*1350*1415
DAN02010G2/00-13	303	44000	290	28	45	75	11.0	100	580	2*3.0	3670*1350*1415
DAA64816G2/80-15	350	58000	290	32	45	75	12.0	125	620	2*4.0	3670*1350*1415
DAA0401002/00-13	330	44000	290	28	45	75	12.0	125	610	2*3.0	3670*1350*1415
DAA64816G2/80-17	400	58000	290	32	45	75	14.0	140	680	2*4.0	4270*1350*1415
D///04010G2/00 1/	400	44000	290	28	45	75	14.0	140	670	2*3.0	4270*1350*1415
DAA44816l3/80-15	480	87000	290	32	75	90	16.8	175	780	3*4.0	5170*1350*1635
574(1101015)60 15	100	66000	290	28	75	90	16.8	175	770	3*3.0	5170*1350*1635
DAA62816l3/80-15	550	87000	290	32	75	90	19.0	175	850	3*4.0	5170*1350*1635
270 1020 1013/00 13	530	66000	290	28	75	90	19.0	175	840	3*3.0	5170*1350*1635
DAA64816l3/80-15	630	87000	290	32	75	90	22.0	220	890	3*4.0	5170*1350*1635
27010107013/00 13	030	66000	290	28	75	90	22.0	220	880	3*3.0	5170*1350*1635

Note: The model becomes DPA when using stainless steel tube and aluminum fin, the other parameters of this series are as shown in the table above.

Performance Parameters Table of 6/12 Fin Spacing DAA Series NH₃ Ceiling-Mounted Aluminum Tubes and Aluminum Fins High-Efficiency Air Cooler

	Cooling Area	Air Flow	Air Pressure	Air Throw	Inle Outle Connec	t for	Defrosting Water Quantity	Tube Volume	Net Weight	Total Fan Power	Outside Dimension
Air Cooler Model	m²	m³/h	pa	m	Refrige	rants	m³/h	L	kg	kW	Length*Width*Height
					D1	D2					(mm)
DAA42612G1/80-15	145	22000	290	28	38	58	5.0	40	310	1*3.0	2170*1350*1415
DAA42612E2/50-12	180	20000	200	15	38	58	6.5	49	440	2*1.1	3070*1350*1195
DAA44612E2/50-12	220	20000	200	15	38	58	7.8	65	465	2*1.1	3070*1350*1195
DAA64612C1/00 17	260	29000	290	32	38	58	9.0	75	390	1*4.0	2470*1350*1415
DAA64612G1/80-17	260	22000	290	28	38	58	9.0	75	385	1*3.0	2470*1350*1415
DAA44612G2/80-15	345	44000	290	28	45	75	12.0	100	595	2*3.0	3670*1350*1415
DAAA612C2/00 17	395	58000	290	32	45	75	13.5	112	650	2*4.0	4270*1350*1415
DAA44612G2/80-17	393	44000	290	28	45	75	13.5	112	640	2*3.0	4270*1350*1415
DAA62612G2/80-17	450	58000	290	32	45	75	16.0	112	680	2*4.0	4270*1350*1415
DAA02012G2/80-17	430	44000	290	28	45	75	16.0	112	670	2*3.0	4270*1350*1415
DAA64612G2/80-17	520	58000	290	32	45	75	18.0	140	830	2*4.0	4270*1350*1415
DAA04012G2/80-17	520	44000	290	28	45	75	18.0	140	820	2*3.0	4270*1350*1415
DAA4461212/00.15	620	87000	290	32	75	90	22	175	880	3*4.0	5170*1350*1635
DAA44612l3/80-15	620	66000	290	28	75	90	22	175	865	3*3.0	5170*1350*1635
DAA62612l3/80-15	715	87000	290	32	75	90	25	175	950	3*4.0	5170*1350*1635
5/ 1/020 (213/00 ⁻ 13	713	66000	290	28	75	90	25	175	935	3*3.0	5170*1350*1635

Note: The model becomes DPA when using stainless steel tube and aluminum fin, the other parameters of this series are as shown in the table above.



Performance Parameter Table of 8/16 Fin Spacing DPR Series CO₂ Ceiling-Mounted Stainless-Steel Tube and Aluminum Fin High-Efficiency Air Cooler

	Cooling Area	Air Flow	Air Pressure	Air Throw	Inlet Outlet Connec		Defrosting Water Quantity	Tube Volume	Net Weight	Total Fan Power	Outside Dimension
Air Cooler Model		m³/h	Pa		Refrige	rants	m³/h		Kg	KW	Length*Width*Height
					D1	D2					
DPR42816G1/80-15	110	22000	290	28	45	45	3.8	40	330	1*3.0	2170*1350*1415
DPR44816G1/80-15	130	22000	290	28	45	45	4.6	53	350	1*3.0	2170*1350*1415
DDDc004.554/00.45	450	29000	290	32	45	45	5.6	63	375	1*4.0	2170*1350*1415
DPR62816G1/80-15	150	22000	290	28	45	45	5.6	63	370	1*3.0	2170*1350*1415
DDDs 104 cC4 /00 47		29000	290	32	45	45	7.0	75	405	1*4.0	2470*1350*1415
DPR64816G1/80-17	200	22000	290	28	45	45	7.0	75	400	1*3.0	2470*1350*1415
DPR44816G2/80-15	265	44000	290	28	45	45	9.5	100	620	2*3.0	3670*1350*1415
DDD		58000	290	32	45	45	11.0	100	650	2*4.0	3670*1350*1415
DPR62816G2/80-15	305	44000	290	28	45	45	11.0	100	640	2*3.0	3670*1350*1415
DDD		58000	290	32	45	45	12.0	125	680	2*4.0	3670*1350*1415
DPR64816G2/80-15	350	44000	290	28	45	45	12.0	125	670	2*3.0	3670*1350*1415
DDDs 404 c Co /oo 4 7	400	58000	290	32	45	45	14.0	140	745	2*4.0	4270*1350*1415
DPR64816G2/80-17	400	44000	290	28	45	45	14.0	140	735	2*3.0	4270*1350*1415
DDD44045lp/00.45	400	87000	290	32	75	75	16.8	175	860	3*4.0	5170*1350*1635
DPR44816l3/80-15	480	66000	290	28	75	75	16.8	175	845	3*3.0	5170*1350*1635
DDD soos siz (so		87000	290	32	75	75	19.0	175	930	3*4.0	5170*1350*1635
DPR62816l3/80-15	550	66000	290	28	75	75	19.0	175	915	3*3.0	5170*1350*1635
DDD 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		87000	290	32	75	75	22.0	220	960	3*4.0	5170*1350*1635
DPR64816l3/80-15	630	66000	290	28	75	75	22.0	220	945	3*3.0	5170*1350*1635

Performance Parameter Table of 6/12 Fin Spacing DPR Series CO₂ Ceiling-Mounted Stainless-Steel Tube and Aluminum Fin High-Efficiency Air Cooler

	Cooling Area	Air Flow	Air Pressure	Air Throw	Inlet Outlet Connec	t for	Defrosting Water Quantity	Tube Volume	Net Weight	Total Fan Power	Outside Dimension
Air Cooler Model		m³/h	pa		Refrigerants			L	kg	kW	Length*Width*Height (mm)
					D1	D2					(11111)
DPR42612G1/80-15	145	22000	290	28	45	45	5.0	40	340	1*3.0	2170*1350*1415
DPR42612E2/50-12	180	20000	200	15	45	45	6.5	49	460	2*1.1	3070*1350*1195
DPR44612E2/50-12	220	20000	200	15	45	45	7.8	65	510	2*1.1	3070*1350*1195
DPR64612G1/80-17	260	29000	290	32	45	45	9.8	80	435	1*4.0	2470*1350*1415
DFR04012G1/60-17	200	22000	290	28	45	45	9.8	80	430	1*3.0	2470*1350*1415
DPR44612G2/80-15	345	44000	290	28	45	45	12.0	100	650	2*3.0	3670*1350*1415
DPR44612G2/80-17	395	58000	290	32	45	45	13.5	112	710	2*4.0	4270*1350*1415
DFR44012G2/00-17	393	44000	290	28	45	45	13.5	112	700	2*3.0	4270*1350*1415
DPR62612G2/80-17	450	58000	290	32	45	45	16.0	112	750	2*4.0	4270*1350*1415
DPR02012G2/80-17	450	44000	290	28	45	45	16.0	112	740	2*3.0	4270*1350*1415
DPR64612G2/80-17	520	58000	290	32	45	45	18.0	140	915	2*4.0	4270*1350*1415
DFR04012G2/60-17	520	44000	290	28	45	45	18.0	140	905	2*3.0	4270*1350*1415
DDD4461312/90.15	620	87000	290	32	75	75	22	175	960	3*4.0	5170*1350*1635
DPR44612l3/80-15	620	66000	290	28	75	75	22	175	945	3*3.0	5170*1350*1635
DPR62612l3/80-15	715	87000	290	32	75	75	25	175	1050	3*4.0	5170*1350*1635
DI 110201213/00*13	713	66000	290	28	75	75	25	175	1035	3*3.0	5170*1350*1635





Air Cooler Selection Requirements Table

	Total Refrigerating Capacity (kW)		Cooling Area (m²)	Electrical System	
	Fin Spacing		Evaporating Temperature (°C)	Cold Room Temperature °C /Relative Humidity	
	Frozen Products And Packaging Types			Frost Layer Thickness mm	
	Elevation (m)		Fin Material	Heat Exchange Tube Material	
			Air Blast Freezer	Cold Storage Room	
Air Cooler Parameters	Cold Room Type	and Temperature	Storage Room	Pre-Cooling Room	
			Processing Room	Others	
	Air Flow	(m³/h)		Air Pressure	
	Refrig	erant			
	Liquid Sup	ply Mode			
	Defrostir	ng Mode		Drip Tray Heating	
	Cold Room Si	ze (L * W * H)		Cold Room Layout	
Form	Axial Fa	n Type		Fan Manufacturer	
Requirements	Whether There is a	n External Air Duct		Installation Type	
Material	Frame N	M aterial		Guard Plate Material	
Waterial	Drip Tray I	nsulation		Air Duct Electric Heating	
Other Requirements					
If it is a Reconstruction Project, Please Describe Here					
Company Name				Contract No.	
Place of Use				Prepared by	

Note

- 1. Items in blue font are required.
- 2. Conventional air cooler products refer to: ceiling-mounted stainless steel tube and aluminum fin, drum fan, fan with thermal protection, electrical system 380V/50HZ/3P, without heating zone and the drip tray are not insulated. The frosting method is water or water + hot ammonia, the right liquid supply, and the aluminizing zinc plate enclosure.
- 3. Drip tray insulation must be included under hot ammonia defrosting conditions; Drip tray insulation is recommended when it needs to ensure having no shutdown time or in air conditioner working conditions.
- 4. The structure of conventional fan is drum fan, and the air throw of the fan can reach more than 20 meters.
- 5. The net cover fan should be selected in the following cases: the air cooler is used in places that need to be in contact with people, such as anteroom and air-conditioning rooms.



S. East & South Asia

Yantai Moon (Vietnam) Co., Ltd.

Mobile: +84-906893588

Email: jeffchong@moon-tech.com

Pt. Yantai Moon Indonesia (Jakarta)

Mobile: +62-812-8570458

Email: stevenchen@moon-tech.com

Pt. Yantai Moon Indonesia (Surabaya)

Mobile: +62-813-15817758 Email: kevinxu@moon-tech.com

Thailand Office

Mobile: +66-970749735

Email: shimeihao@moon-tech.com

Myanmar Office

Mobile: +95-9795856929

Email: naizengliu@moon-tech.com

Malaysia Office

Mobile: +60-162285069

Email: qingfangma@moon-tech.com

Philippines Office

Mobile: +63-9171171410

Email: xuhangyuan@moon-tech.com

Taiwan Office

Mobile: +886-975096307

Email: hetaoliu@moon-tech.com

India Office

Mobile: +86- 13964503338

Email: perryxue@moon-tech.com

Russia & UZB

Moscow Russia Office

Mobile: +7-9250566475

Email: yanli@moon-tech.com Email: pengyuanche@moon-tech.com

Vladivostok Russia Office

Mobile: +7-9143430880

Email: hongweiwu@moon-tech.com

Uzbekistan Office

Mobile: +998-909278908

Email: zhongyao@moon-tech.com

Middle East

Saudi Arabia Office

Mobile: +966-504362717

Email: tonydeng@moon-tech.com

UAE office (UAE/Oman /Iran /Turkey)

Mobile: +86- 13964503338

Email: perryxue@moon-tech.com

Africa

Egypt Office

Mobile: +966-548730449 Email: shajc@moon-tech.com Kenya Office

Mobile: +254-713202388

Email: tenglin@moon-tech.com

South Africa Office

Mobile: +27-638491822

Email: Joechen@moon-tech.com

Mauritania Office

Mobile: +222-41834569

Email: perryxin@moon-tech.com

Latin America

Chile Office

Mobile: +56-994888888

Email: simonliu@moon-tech.com

Peru Office

Mobile: +51-967209708

Email: mingxing@moon-tech.com

Ecuador Office

Mobile: +593-987877420

Email: peterzhang@moon-tech.com

Argentina Office

Mobile: +54-91171008380 Email: javierli@moon-tech.com

Overseas Business BU

Tel: +86-535-6245052

Fax:+86-535-6242155

Email:info@moon-tech.com





















MOON ENVIRONMENT TECHNOLOGY CO.,LTD.

No.1 Binglun Road, Yantai, China 264002 Add:

Tel: +86-535-6697172 Email: info@moon-tech.com Web: www.moonoverseas.com







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