

Company Profile

- Proficient in energy saving, dedicated to environmental protection!



BUSINESS PHILOSOPHY

Customer focus, strive to exceed customer expectations!

COMPANY VISION

To become the world's most outstanding enterprise providing energy saving and environmental protection solutions.

CORE VALUES

Profession, standard, innovation, excellence, mutual benefit, cooperation,

About Us



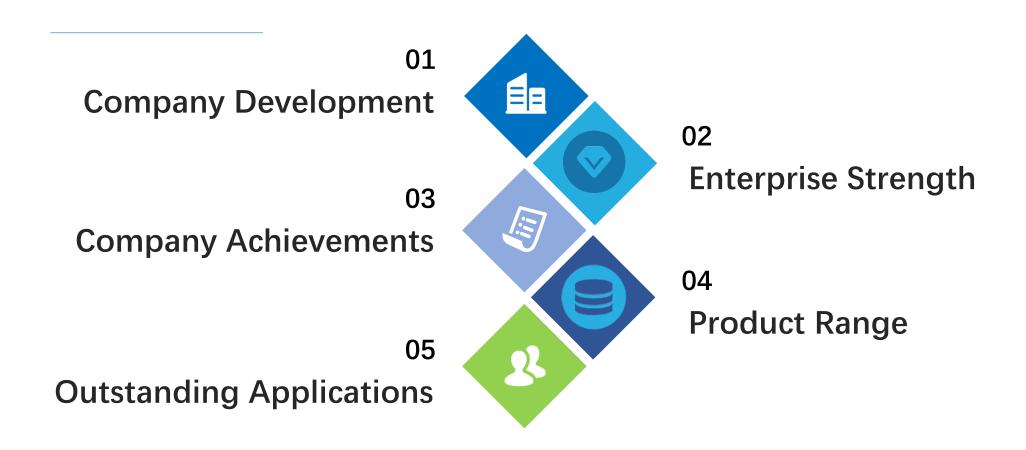


MACON, the leading brand in the heat pump industry of China. Founded in 2006 and located in Shunde of Foshan, Guangdong-Hong Kong-Macao Greater Bay Area, MACON is a national high-tech enterprise focusing on the R&D, production, sales and service of heat pump products for the improvement of the human living environment. Since the establishment, MACON has been silently guarding our clean, efficient and symbiotic green environment.





CONTENS





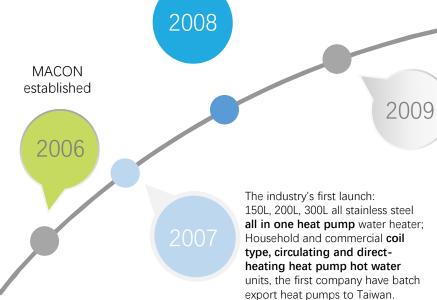
Certified ISO 9001: 2008 quality management system, and get CCC, CE, ROSH, ETL certificate. Sell swimming pool heat ump ,floor heating heat pump to Europe and North America

Floor heating heat pump and swimming pool heat pump mass export to England, Canada Ge the bid of Yangjiang nuclear power statin hot water project Establish oversea market department and domestic market department

The first company in China to obtain the Australian certificates for 270L/340L all in one heat pump water heater including SAA, C-Tick, Water Mark, Standard Mark for export to Australia and New Zealand, to meet the local government energy efficiency subsidy standards. In the same year, the products were exported to Australia in bulk. And for the first time take part in the CHILLVENTA exhibition in Germany, get harvest export orders.

2012

Participated in the Beijing Heating Exhibition and started the heat pump sales in Beijing. Participated in the CHILLVENTA in Nuremberg, Germany again, and achieved good results.



Developed a dual source heat pump + solar integration and exported to Canada.

Obtained invention patents and other utility model patents for pure titanium heat exchangers.

Products are CE and ETL certified. The first company in China to pass the North American pool heat

exchanger standard test.

Swimming pool heat pump products are exported to South Africa, Spain and France for the first time. Started development of EVI, DC inverter, EVI DC iinverter heat pump. Heat pump get CE certificate.

2011

Swimming pool heat pump products has obtained SAA, C-Tick for exporting to Australia and New Zealand. Participated in the Chicago Heating Exhibition and the French Swimming Pool Equipment Exhibition. Complete the construction of 75KW - 30°C ultra-low temperature heat pump comprehensive performance laboratory.

2012

For room heating 12KW to 24KW air duct type DC inverter heat pump and two stage high temperature heat pump bulk export to Finland

The 130KW module unit was put into production. The new vertical and horizontal plastic shell pool heat pump were are for production. Henan and Shandong offices were established.

2014

Participated in the CHILLVENTA Exhibition, Barcelona Pool Equipment Exhibition. Foreign trade has grown rapidly, and swimming pool heat pumps have been exported to Dubai, Israel, Saudi Arabia, the United States, Brazil, France and other countries and regions.

2016

Successfully win bid over 10,000 units of household and commercial coal-to-electricity projects in Pinggu District, Tongzhou District, Miyun District, Chaoyang District and Changping District

Win the bid for more than **4,000** units of household and commercial coal-to-electricity projects in Pinggu District, Tongzhou District and Huairou District of Beijing. Start large-scale application of EVI heat pumps in the North China

Macon products have been exported to more than 76 countries and regions

Established the panel factory and established the Beijing Branch Office.
Participated in the French Pool Equipment Exhibition in Lyon

2015

Successfully won the bid to participate in Beijing Pinggu District, Tongzhou District, Miyun District, Chaoyang District, Changping District, Yanqing District, Tianjin City, Hebei Chengde, Shijiazhuang, Huangpi City, Taiyuan City and other areas of household and commercial coal-to- electricity projects cumulative sales of **more than 20,000 units**. Macon is recognized as:

National high-tech enterprises, outstanding contributions to coal-to-electricity in 2017. Received the 2017-2018 "Blue Sky Cup" Clean Energy Heating Excellence Project Award. The output value exceeded 390 million yuan for the first time. Participate in the Russian HVAC Exhibition.

Branch offices in Hebei, Shanxi, Xi'an and Qinghai were established. New air to air heat pump laboratory, ultra-low temperature long-life performance laboratory, fully automatic online production testing system. Win the bid for more than 10,000 units of household and commercial coal-to-electricity projects in Pinggu District, Changping District, Yanqing District, Hebei Chengde, Shijiazhuang, Taiyuan, Jincheng, Yuncheng and Qinghai.

temperature range design product coverage: three-phase 5HP, 6HP, 8HP, 10HP, 12HP, 20HP, 30HP **DC inverter and EVI DC inverter heat pump** (heating, hot water, cooling) design upgrade. And the development and application of fan and water pump **full DC inverter** products.

Complete the full working condition wide water

Upgraded design of the plastic shell DC inverter swimming pool heat pump.

North American water to air heat pump development.

DC inverter high temperature heat pump development.

Photovoltaic + DC inverter heat pump development

2017

Expand the all working conditions and wide water temperature range heat pump product: 1HP, 2HP, 3HP, 4HP, 5HP, 6HP, 7HP DC inverter and EVI DC inverter heat pump (heating, hot water, cooling), DC inverter air to air heat pumps for single indoor unit and multiple indoor units...

2018

Complete the full working condition wide water temperature range design product coverage: single-phase 3, 5, 6, 8 horsepower, DC inverter and EVI DC inverter heat pump unit (heating, hot water,,cooling) design upgrade.

The company has obtained three levels of installation qualification.

2019

Achieved: cTUVus, A+++ energy label for EVI DC inverter heat pump, CE for DC inverter swimming pool heat pump. CCC, Energy Saving and Energy Efficiency Certification for inverter heat pump, EVI inverter heat pump and ground source heat pump products.

Finished: Development of **DC** inverter ground source heat pump and export to European and domestic markets. Product Line Expansion and development of ground source high temp Heat Pump. Development and mass production of a new series of side vent and top vent plastic shell swimming pool heat pump. Development of 50HP Heat Pump with double compressors and double fans optimization. Development of 20KW ground source duct heat pump. Completed the development of 12 HP, 15 HP, 25 HP and 50 HP modular EVI DC inverter heat pump.

2020

Complete the upgrade of the whole series of inverter high temp heat pumps. Completed the development of inverter heat pump products below 60 HP. Obtained bulk orders for EVI DC inverter water to water heat pump products exported to Germany. The function of the inverter controller series has been fully upgraded. Completed the upgrade of 5G intelligent IoT control of all series of DC inverter heat pump. Completed the planning and construction of the production line, laboratory and office area of the new Wusha factory.

Start product development of **DC inverter water to water high temperature heat pump**.

Start product development of **200KW EVI DC inverter** module air source heat pump.

Start product development of **300KW DC inverter water to water module heat pump**.

Start the development of **75KW EVI DC inverter high** temperature steam heat pump.

Aapplied to the central heating of a building with an area of 270,000 square meters in a single project. High temperature heat pumps are used in aquaculture projects in batches. High temperature heat pumps have been successfully applied in several oilfield in Northern China. Completed the development of cloud intelligent IoT upgrade application for MACON heat pump products

02 Enterprise Strength



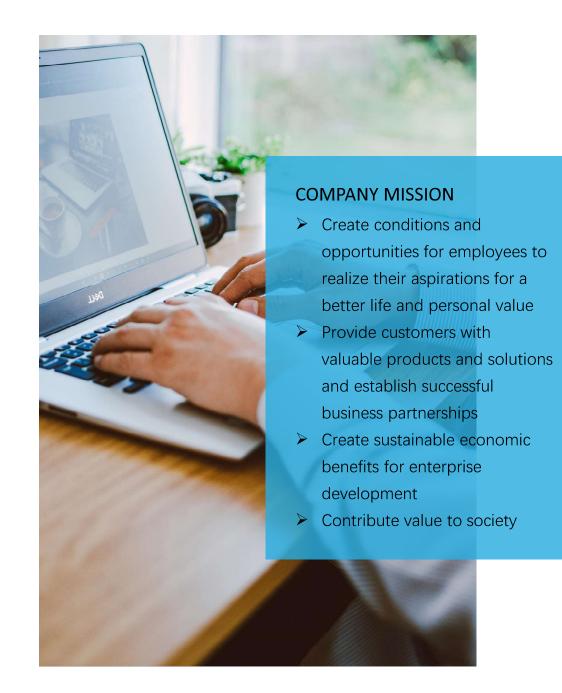
Enterprise Strength



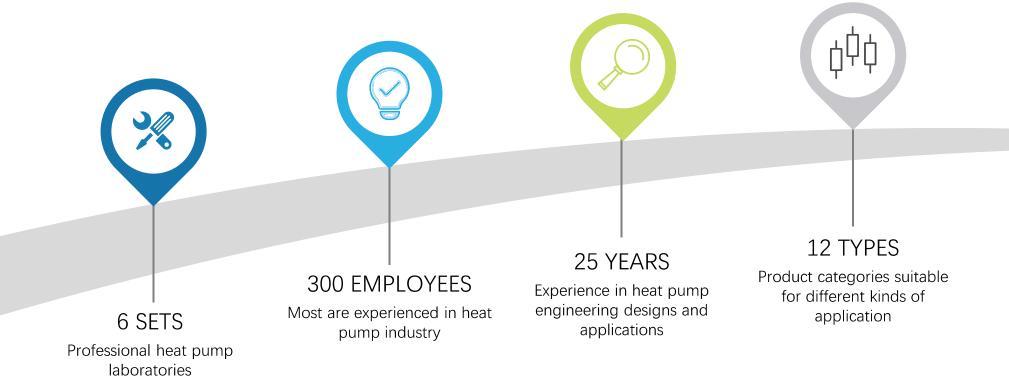


3 SETS
Advanced production lines

250 THOUSAND UNITS
Designed annual production capability



Enterprise Strength



Our Teams







Our Teams





Our Laboratories



High Performance Heat Pump Comprehensive Performance Laboratories

- 1. -35℃ low temperature heat pump comprehensive performance lab
- 2. Air conditioning enthalpy difference comprehensive performance lab
- 3. Water source heating and cooling comprehensive performance lab
- 4. Heat pump dryer performance lab
- 5. -35°C low temperature heat pump long term operation lab





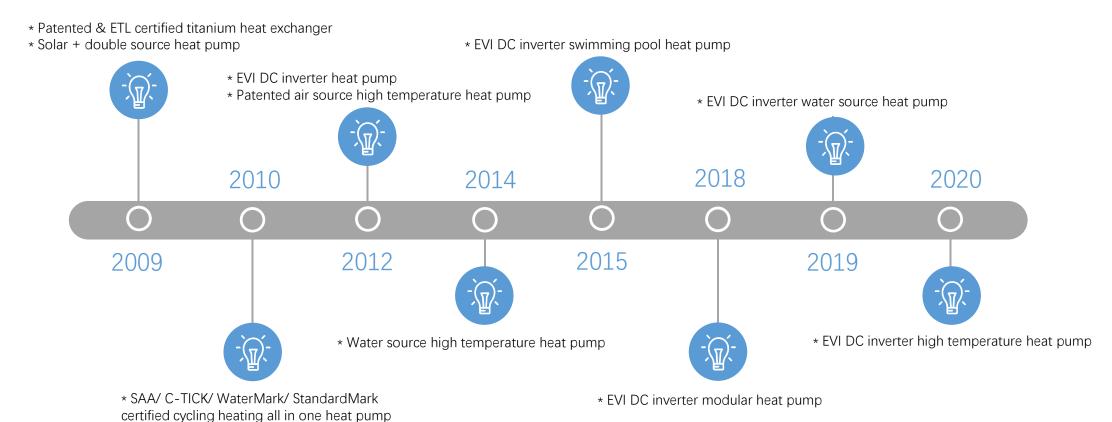


03 Company Achievements



► Product R&D

First Company in China to achieve:



Product Patents



Heat Exchanger



Drying Function Heat Pump



Two Stage High Temp Heat Pump



High Temp Pool Heat Pump



Four in One Heat Pump



Medium Temp Antifreeze device



DC Inverter Constant Capacity Heat Pump System



Air Cooled Water Chiller



EVI Multifunction Heat Pump System



Multifunction Heat Pump

Company Certificates







ISO 9001

ISO 14001

OHSAS 18001







National Industrial Production License

Product Certificates

European Certificates













Australian Certificates













Product Certificates

North American Certificate

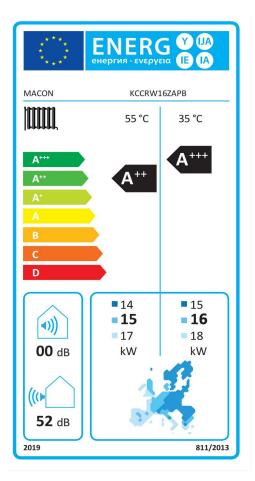






Product Certificates

ErP Energy Label



Technical Report



Technical Report No.: 64.181.21.04416.01 Rev.00

Date: 2021-08-31

Client: Report holder's name: Foshan MACON Cooling&Heating Energy-Saving

Equipment Co.,

Report holder's No.1 Llanan Road, Fuan Industrial Park, Lellu Town, Address: Shunde District, Foshan City, Guangdong Province, China

Contact person of Zhang Xian Yun

report holder:

Manufacturer's name: Foshan MACON Cooling&Heating Energy-Saving

Equipment Co.,Ltd

Manufacturer's No.1 Lianan Road, Fuan Industrial Park, Leilu Town, address: Shunde District, Foshan City, Guangdong Province, China

Factory: Factory's name: Foshan MACON Cooling&Heating Energy-Saving

Equipment Co.,Ltd

Factory's address: No.1 Lianan Road, Fuan Industrial Park, Lellu Town, Shunde District, Foshan City, Guangdong Province, China

Test object: Product: DC INVERTER AIR TO WATER HEAT PUMP

Model:

KCCRW16ZAPB, KCCRW16ZAB

Trade name: MACON

Test specification: [7] EN 14825:2018

EU) No 813/2013

Purpose of Test according to the test specification

examination:

EU 2016/2282:2016-11-30

Test result: The test results show that the presented product is in compliance with the above

listed test specifications.

Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a engle examination of the object in guestion. It does not imply a general statement regarding the quality of products from regular production. For further details please see testing and certification regulation, chapter A.S.4.

Project No. 84.181.21.0441

 TUV SUD Certification and Testing (China) Co., Ltd. Guanaphou Branch. TUV SUD Group

SF. Communication Building, 163 Pinguan Rd, Huanggar Ave. West, Guangahou, 510456, P. R. Chans

Performance test report from AHRI recognized lab Standard: AHRI 550/590

No.888, West Changliang Road, Hefel 230032, Anhi



Page 1 PI Report Number: 2020LKE14 Report Version Number:

Air-Cooled Water Chilling Packages (ACCI) Certification Program

	Manufacturer Information		Model Information										
	Manufacturer: Solar To	abs Inc.	Model Number:	MACRW060ZA/(BE)									
Manu	facturer's Contact: yunchane50	6@163.com											
	Facility Contact		Serial Number:		220531122010								
Name:			V/QVHz	220	1	60							
	AHRI Standard: AHRI S	Control of the land of			-								
			Information (in-ho		(6)							
	Date Unit Arrived: 03/02		Test Stand:	a contract contract	SOKW Test Fac	Bild							
	Date(s) of Test: 2021/03/15-1	6, 2021/5/6											
_		20	Test Results	-	8	E							
	Title of Test	Units	Certified	Measured	Limit	Results of Tec							
_	Test Tolerances: T	oli: 6,00%	Standard Rating Tolo: 7	700%		-							
_		kW	12.20	11.54	11.59	90.50							
Standard	Net Cooling Capacity	Btu/s	11.56	11.03	10.99	P							
Section 5.1	Cooling Efficiency	KW/KW	/ /	2.499	/	1							
	PLV PLV	KW/KW	- 7	4.935		1 7							
			1(DB 6°F, Outlet W			10 - 10							
	Photo Control Control Control	*W	/	11.70	F1.	T :-							
	Heating Capacity	Btu/s	7	11.09	1	E . I							
	Heating Efficiency	kW/kW	1	2.145	1.700	Р							
	Applicatio	n Rating 2(DB	47'F WB 43'F, Ou	tiet Water Temp.10	6°F)								
	Heating Capacity	kW.	i	12.62	1	100							
	The state of the s	8tu/s	1.	11.96	1.	- 1							
	Heating Efficiency	kW/kW	1	3.887									
	Applicatio		17'F WB 16'F, Ou			10							
	Heating Capacity	kW	1	12.37		8 0							
	TO SECURITION OF THE PARTY OF T	Btu/s	1	11.73	10	- 1							
	Heating Efficiency	kW/kW	1.	2.696		1. 1.							
	Application Rating 4(DB												
	Heating Capacity	RW Btw/s	1	18.54	- 1	- /							
		kW/kW	1	17.58 3.288	- 1	1							
Notes:	Heating Efficiency	KW/KW	- 6	3.288	- 6								
2. For units	P-Pass, F-Fall, IS-inoperable Sam; that require conversion, the facto rations and test results in this re roduct, or service is or has ever	rs shown in Se and port are relev	ection 7 of AHRI Stan Party Lab Disolaim ant only to the sam	dards SS0/S90 and er ple tested. This rep									
			Remarks										
			Politica No.										
Test Super	表文指	Report Approved By:											
	/ B /w	i		V.)	0.000								
	Li Hongzhe		-	Shi Zh	uqing								
			Attachmento										

Company Honors



Advanced Technology Enterprise Certificate



Top Ten Leading Brands in Heat Pump Industry



Top Ten Outstanding Brands in Heat Pump Industry



Enterprise Credit Evaluation AAA Credit Enterprise



Excellent Demonstration Enterprise of Quality Brand



Best Application Award of Heat Pump Central Heating



Best Application Award of Heat Pump Residential Heating



Outstanding Contribution Enterprise of Beijing Coal-to-Clean Energy Project



"Blue Sky Cup" Clean Energy Heating Excellent Project Award



Excellent Practice Case of Clean Heating



China Heat Pump Industry Best Heating Brand



China Heat Pump Industry
Top Ten Consumer
Favorite Brand



National High-Tech Energy-Saving Products Award



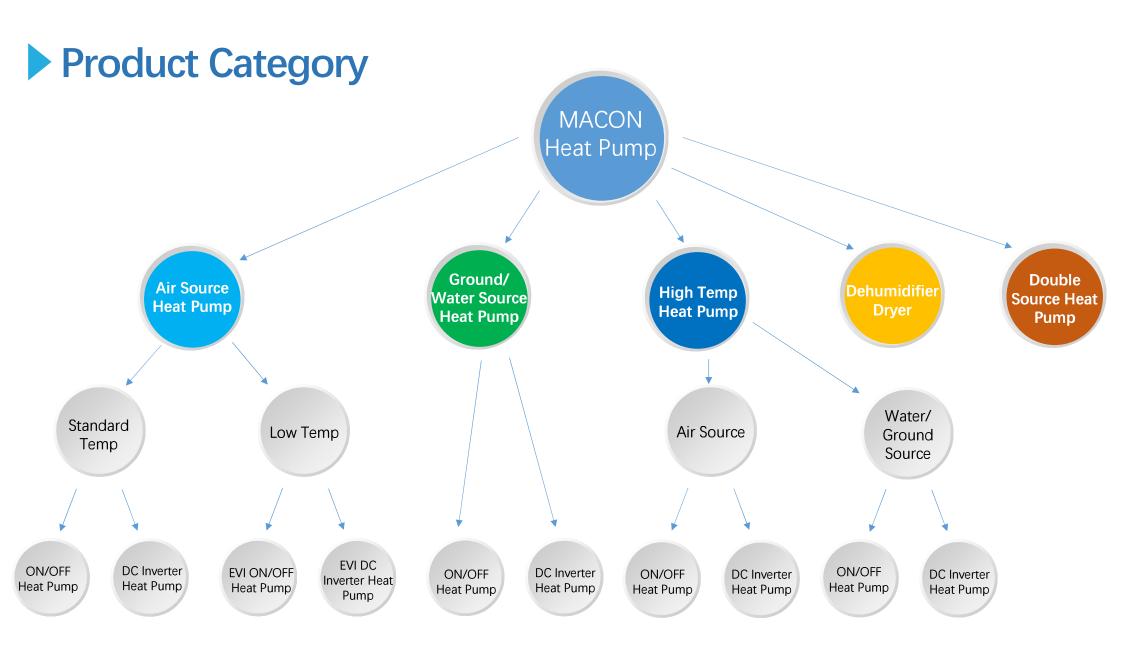
Advanced Enterprise of New and Renewable Energy Association



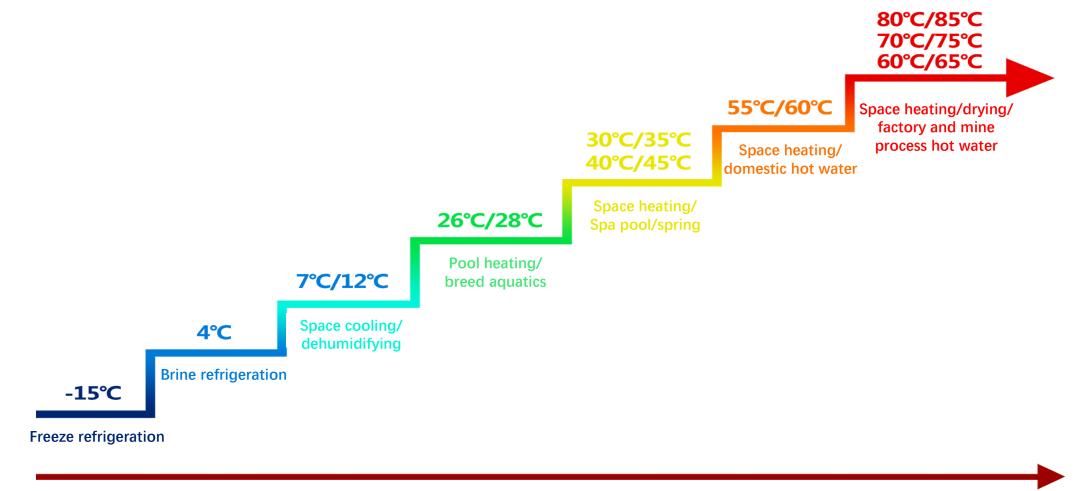
China Energy Conservation Association Council Member

04 Product Range





Product Applicable Temperature Range



Product Working Temperature Range

Working Temp Range	Heat Pump Selection	Max Water Temp
-35°C~ 43°C	EVI DC Inverter High Temp Heat Pump	85℃
-35°C∼ 53°C	EVI DC Inverter Heat Pump	60°C
-35°C~43 °C	EVI ON/OFF Heat Pump	60°C
-25°C~ 48°C	DC Inverter Heat Pump	55℃
-7°C~43°C	ON/OFF Heat Pump	55℃

► Hot Sale Product Series

Product	t Series	Photo	Refrigerant	Power	Type	6	8																				r 75°0 120 1		0 180
Super Heating Star	А	COMP COMP	24424/200	1 phase				√				√		√	√														
				3 phase	Monoblock							√		√			√	√	√		√		√	√	√		√	√	√
	Series		R410A/R32	1 phase	split			√				√		√	√														
	6			3 phase								√		√			√	√	√										
	B Series	s of	R32/R290		Monoblock		√		√	√	√		√																
				3 phase					√	√	√		√																
	C Series	waren	R32/R290	1 phase	Monoblock	√	√		√	√																			
Geo Heating Star	A Series		R410A/R32	1 phase	Monoblock			√				√		√		√													
				3 phase								√		√		√	√	√	√		√		√	√	√		√	√	,
	B Series		N4107V NOZ	1 phase								√		√		√													
				3 phase								√		√		√													
Flame Heating Star	/		R134A+R410A/	1 phase	Monoblock					√																			
			R134A+R32	3 phase													√			√		√				√			

05 Outstanding Applications





Heating area:

270,000m² 89 rural community buildings

Installation:

100 units of 130kW EVI modular heat pump



Hot water demand:

1200m³/day 15 student dormitories

Installation:

48 units of 50HP EVI hot water heat pump





Heating area:

33200m²

Science and technology R&D Base

Installation:

16 units of 25HP EVI heat pump 14 units of 50HP EVI heat pump

Heating area:

46,000m² 13 residential buildings

Installation:

17 units of 50HP EVI modular heat pump





Heating area:

4000m² Old residential Building

Installation:

34 units of 6HP EVI heat pump



Heating area:

10,000m²

Yanqing District Finance Bureau

Installation:

11 units of 50HP EVI modular heat pump

Heating area:

14,000m²

Scenic area estate

Installation:

14 units of 60HP EVI modular heat pump

















Heating area:

9600m²

Installation:

12 units of 25HP high temperature heat pump

MACON[®]

Thanks for Your Attention!

