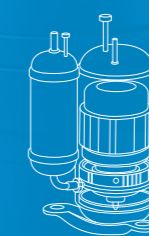


**GMCC**  
用芯创造未来



ROTARY  
COMPRESSOR  
**2019**

旋转式压缩机产品手册



**GMCC**  
Create Future With Core

本资料相关技术数据仅供参考，实际数据以我司最新的产品规格书为准  
The data of this catalog is for reference only, the actual data is subject to  
the latest specification document  
品牌整合推广：川上（中国）品牌管理有限公司 020-34354269



环保纸张  
可回收资源  
Recyclable  
Made From Recycled Content

本手册印制于2018年12月，欲了解最新产品技术信息，请访问GMCC官方网站：[www.gmcc-welling.com](http://www.gmcc-welling.com)  
This manual was printed in Dec. 2018. For technical details about the latest products, please visit GMCC website: [www.gmcc-welling.com](http://www.gmcc-welling.com)

# CONTENTS 目录

01

公司简介  
COMPANY PROFILE

07

智能制造  
SMART MANUFACTURE

09

绿色潜能  
GREEN POTENTIALS

16

产品应用领域  
PRODUCT APPLICATION FIELD



03

绿色里程  
GREEN MILE

11

品牌影响力  
BRAND INFLUENCE

13

产品命名规则  
TYPE DESIGNATION

05

绿色科技  
GREEN TECHNOLOGY

15

压缩机产品系列型谱  
COMPRESSOR SERIES LINEUP

17

环保冷媒空调压缩机  
GREEN REFRIGERANT  
COMPRESSOR

21

变频空调压缩机  
INV COMPRESSOR

23

R410A定速空调压缩机  
R410A AIR-CONDITIONER  
COMPRESSOR

36

制冷量测试条件  
REFRIGERATING CAPACITY  
TEST CONDITION



28

R22定速空调压缩机  
R22 AIR-CONDITIONER  
COMPRESSOR

37

压缩机标准包装  
COMPRESSOR  
STANDARD PACKAGE

39

联系我们  
CONTACT US

32

T3空调压缩机  
T3 AIR-CONDITIONER  
COMPRESSOR

38

压缩机标准附件  
COMPRESSOR  
ACCESSORIES

35

除湿机用压缩机  
DEHUMIDIFIER COMPRESSOR



# COMPANY PROFILE

## 公司简介

### 我们的企业

Company

GMCC于1995年创建于广东顺德，是一家专业化研发、生产、销售旋转式、往复式等冷冻冷藏、环境空气调节用压缩机的精密制造企业；

Founded in 1995, GMCC is a precision manufacturing company engaged in R&D, production and sales of rotary compressor and reciprocating compressor for cold storage and air conditioning.

### 我们的产品应用

Product

产品广泛应用于中央空调、家用电器和汽车等领域，如各类空调、冰箱、冷柜、热泵热水器、除湿机、干衣机、冷藏汽车、饮水机设备等；

The products are widely used in the fields of central air conditioner, household appliances and automobiles, such as air conditioners, refrigerators, refrigerated cabinets, heat-pump water-heaters, dehumidifiers, dryers, refrigerated cars, water dispensing equipment, etc.

### 我们的体系

Market

GMCC在全球拥有五大研发试验中心，四个工厂；2018冷年产销空调压缩机6950万台、冰箱压缩机2010万台。

Five R&D centers and four plants around the globe, GMCC achieved production and sales of 69.5 million sets of A/C compressor and 20.1 million sets of refrigerator compressor in 2018 refrigeration year.



### 五大研发试验中心，已获得共2451项专利

5 R&D centers, 2451 patents



顺德 Shunde

合肥 Hefei

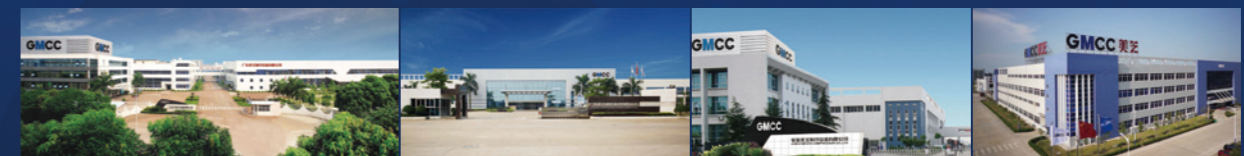
印度 India

欧洲 Europe

日本 Japan

### 4个智能工厂，400多台工业机器人

4 intelligent factories, 400+ industrial robots



广东顺德（大良）  
Shunde, Guangdong

广东顺德（容桂）  
Shunde, Guangdong

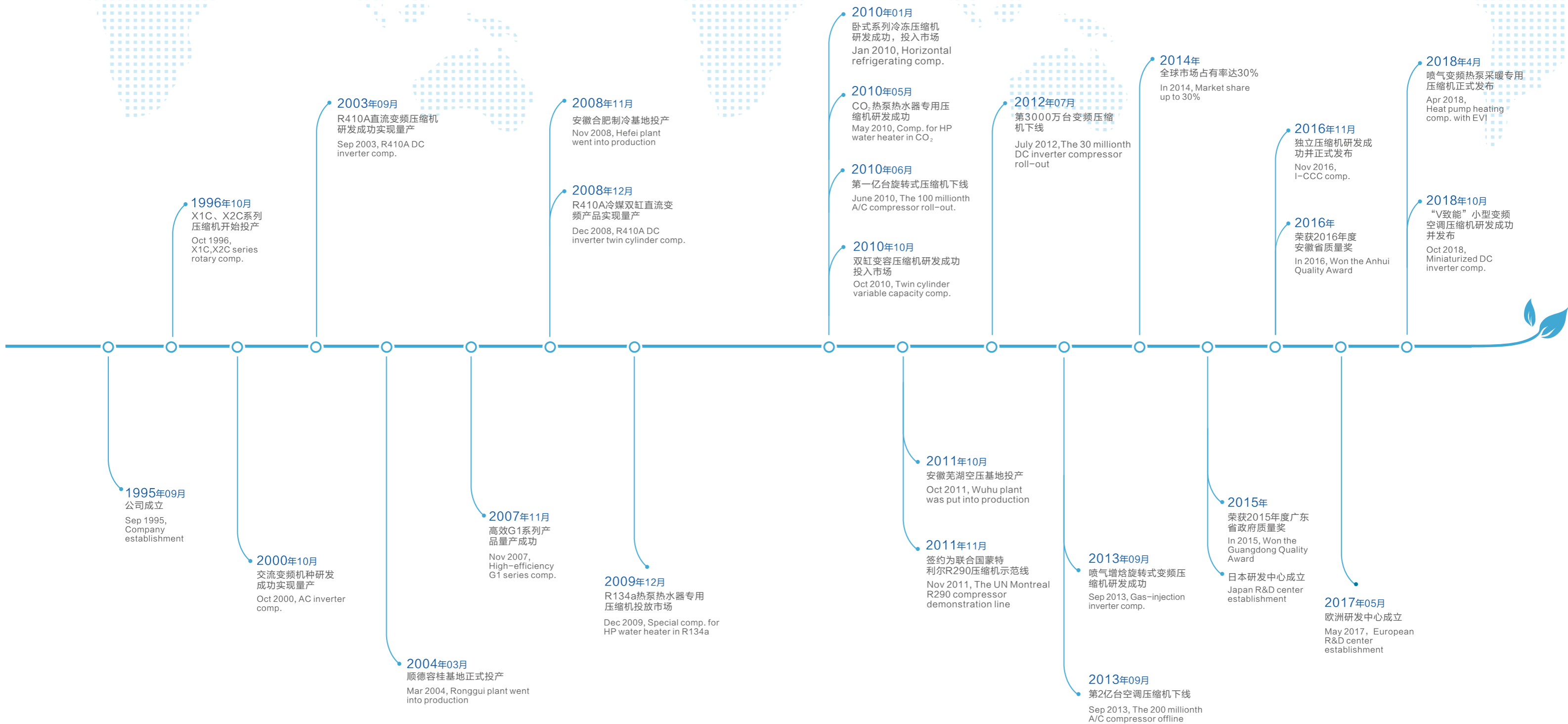
安徽合肥  
Hefei, Anhui

安徽芜湖  
Wuhu, Anhui

# GMCC

# GREEN MILE

## 绿色里程



# GREEN TECHNOLOGY

## 绿色科技

GMCC产品能效每年提升3%，为世界各地提供高效、节能、环保、低噪的绿色压缩机动力核心。

With energy efficiency of GMCC products improved by 3% every year, GMCC provides customers worldwide with high-efficiency, eco-friendly, and low-noise green compressor cores.

### 创新驱动

Innovation Driven

为保持核心科技竞争力，GMCC持续投入大量科研资源，其研发测试中心配备了400多套价值超过2亿元的全套实验测试分析系统和实验室，通过国家实验室认证和UL CTDP认证。

In order to maintain its core technologic competitiveness, GMCC continues to invest a large amount of resources to scientific research. Its R&D testing center is equipped with more than 400 sets of experimental test and analysis systems and laboratories worth over 200 million Yuan. The center is both CNAS and UL CTDP certificated.

### 技术路线

Technical Route

GMCC坚持绿色科技路线，不断在环保、高效、小型、智能和静音等方面进行技术研发和产品升级。与10年前相比，GMCC压缩机如今的能效提升超过10%，每年可节省50亿度电，相当于1/9个大亚湾核电站。

Persisting in green technologic route, GMCC continues to develop and upgrade its products regarding eco-friendliness, efficiency, size, intelligence and noise. Compared with products 10 years ago, the energy efficiency of present GMCC compressors has been improved by more than 10%, and 5 billion kilowatt hour can be saved each year which is equal to 1/9 of the energy generated by Daya Bay Nuclear Power Plant.



### 绿色芯

Green Core

GMCC始终坚持研究环保冷媒应用，近十年来先后率先推出R407C、R410A、CO<sub>2</sub>、R290和R32等环保冷媒压缩机产品。其R290压缩机联合国示范生产线已于2014年底成功验收，正为世界各地量产型谱全面、应用广泛的R290压缩机。

GMCC has long been involved in research and application of environment-friendly refrigerants, and has successively released the first compressor products featuring R407C, R410A, CO<sub>2</sub>, R290, R32 and other green refrigerants in the past decade. Its United Nations exemplary R290 compressor production line passed acceptance inspection at the end of 2014, and is now producing widely-used R290 compressors of various types and models in large volumes for customers from all over the world.



### 智慧芯

Wisdom Core

早在2003年，GMCC就推出了R410A直流变频压缩机。近年来，GMCC不断创新研发节能变频技术，先后推出双缸变频、变频变容、喷气增焐、全能耦合和独立压缩等新品，为空调行业的变频化发展不断贡献力量。

GMCC launched the first R410A DC inverter compressor as early as 2003. In recent years, thanks to its consistent efforts in innovation and R&D on energy-saving inverter technologies, GMCC has successively rolled out new products featuring technologies such as double-cylinder frequency conversion, variable frequency and capacitance, enhanced vapor injection, all-round coupling, independent compression, etc., and in this way, GMCC has been constantly making its contribution to the popularization of frequency conversion technologies in the air conditioning industry.

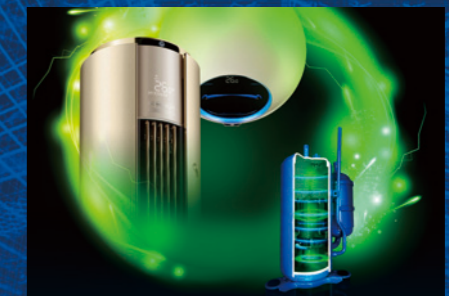


### I-CCC 独立压缩

I-CCC

I-CCC是GMCC近年来的明星产品之一，独立压缩技术创新空调能效解决之道，通过独立压缩闪发气体有效改善喷气循环能效，实现变频空调系统APF能效提升11%以上。

I-CCC is one of the star products of GMCC in recent years. The independent compression technology innovates the energy-efficient solution of air conditioners. With the aid of independent compression of flash gas, the energy efficiency of jet cycle is effectively improved, and the APF energy efficiency of the inverter air-conditioning system is thereby increased by more than 11%.



# SMART MANUFACTURE

## 智能制造



不断提高精益制造水平，创新生产工艺，打造智能工厂，GMCC生产效率每年提升10%以上。

With continuous increased refined manufacturing level, innovative production process, and intelligent plant, GMCC's production efficiency gets more than 10% improvement each year.

### (一) 信息化

一体化精益信息体系，全面支撑业务。GMCC 建成以计划驱动、采购协同、物流配合、制造执行的闭环制造协同体系，初步实现集成化、可视化、信息化的敏捷型数字工厂，产品交期、库存和操作人员大幅减少。



#### (A) Informatization

An integral lean information system lays a solid foundation for GMCC's entire business. GMCC has constructed a closed-loop manufacturing collaboration system featuring plan driving, purchase synergy, logistic coordination and manufacturing execution, and achieved a prototype of an agile digital factory boasting integration, visualization and informatization, thereby significantly reducing product delivery time, stock as well as the number of operators.

### (二) 自动化

GMCC规模化应用人机交互作业，以RGV代替人工推送物料，视觉CGV代替人工识别，通过物流自动化、生产自动化和检测自动化，在压缩机生产中完成了自动化系统突破，使GMCC在规模、效率、品质、成本等各方面获得更大提升。

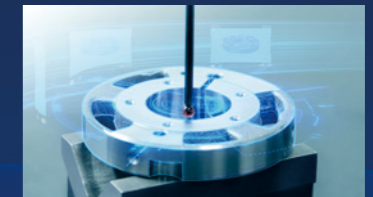


#### (B) Automation

GMCC applies man-machine interactive operation in large scale. With manual material pushing replaced by RGV, manual recognition replaced by visual CGV, and logistics/production/test automated, compressor production becomes automated, and GMCC scale, efficiency, quality, and cost obtain significant improvement.

### (三) 品质管控

GMCC建立起了科学、准确、高效的产品检验体系，以保证产品的卓越品质。经过至少81道检验测试的磨练，通过2000小时以上持续运行的考察，GMCC产品的性能和品质得到了充分的验证，低于9PPM的产品工程下线率，保障压缩机在恶劣工况下10年强劲运行。



#### (C) Quality control

GMCC builds a scientific, accurate, and efficient product inspection system to ensure product quality. With more than 81 tests and more than 2000h continuous running, GMCC product performance and quality get sufficient guarantee, the engineering offline rate below 9PPM, ensuring that the compressors can run 10 years long under extreme conditions.

### (四) 节能减排

GMCC建立了完善的能源管理制度，将能源消耗指标纳入部门考核中。通过中水回用、中央空调节能改造、生物质锅炉节能改造、空压机集成控制改造、中外炉余热利用改造等项目，年动力费单耗下降2%。



#### (D) Energy saving and emission reduction

GMCC has established perfect energy management systems, and the energy consumption indices are integrated to department check. GMCC promotes projects in production such as use of reclaimed water, energy-saving rebuilding of central air conditioning, energy-saving rebuilding of biomass boilers, rebuilding of compressor integration control, rebuilding of residual heat of boilers and so on. GMCC's yearly unit expenditure on power decreases by 2%.

# GREEN POTENTIALS

## 绿色潜能

GMCC坚持可持续发展和绿色发展，提升产品综合竞争力，与上下游合作伙伴携手激发产业链潜能。

GMCC persists in sustainable development and green development to improve comprehensive competitiveness of products and cooperates with upstream and downstream partners to stimulate potential energy of the industry chain.

### (一) 产学研智冷链

GMCC与国内外整机厂商、配套供应商、研究机构及高等院校等保持紧密交流，从理论分析、部品材料、系统设计和研发设备等方面深入协作，构建制冷产业链的产学研合作，输出群体智慧，全面开发和应用压缩机创新技术。

#### (A) Cold chain of production, university, research, and intelligence

GMCC maintains close exchanges with machine manufacturers, supporting suppliers, research institutes and colleges and universities both at home and abroad, implements in-depth cooperation in terms of theoretical analysis, parts and materials, system design and R&D equipment to build a production/university/research cooperation of the cooling industry, and outputs group wisdom to fully develop and apply compressor innovations.

### (二) 客户战略合作

GMCC构建客户导向型技术研发体系，积极与客户建立联合实验室，配套开发技术，推进快速投市。近年来，GMCC独立压缩技术、喷气增焓技术、R290和R32环保冷媒技术分别助力客户在绿色智能家电市场赢得先机。

#### (B) Strategic cooperation with customers

GMCC builds a customer-oriented technical R&D system and founds a laboratory with customers to quicken listing using the laboratory and supporting development technologies. In recent years, the independent compression technology of GMCC, jet enthalpy technology, and R290 and R32 eco-friendly refrigerant technology help customers win opportunities in the green and intelligent household appliances market.

### (三) 精益价值链

GMCC一贯强调产业链价值增值，与全链供应商深度合作，分享精益管理与技术、最新市场信息等，协助供应商不断改进品质、提升管理水平、享受精益成果。以此更形成链条合力，打造出更大规模、多赢的体系化竞争优势。

#### (C) Lean value chain

GMCC has always emphasized the value added in the industry chain, and cooperated deeply with the whole chain suppliers to share lean management and technology, the latest market information, etc., and to help suppliers continuously improve quality, promote management level and enjoy lean results. In this way, the chains will be combined to create a larger and multi-win systematic competitive advantage.



# BRAND INFLUENCE

## 品牌影响力

GMCC坚持在全球制冷行业平台分享技术和产品，为世界家电提供节能、环保、高效、可靠的核心部件。

GMCC always shares technologies and products through the global cooling industry platform, and provides the household industry with core components that are energy efficient, eco-friendly, efficient, and reliable.

### (一) 全球巡展

数年来持续以绿色创新、技术领先形象亮相的GMCC，已成为全球各大制冷展会的一道特色风景线。从中国出发，历经美国AHR、意大利MCE、德国CHILLVENTA、印度ACREX、泰国RHVAC和巴西FEBRAVA等全球重量级展会，GMCC品牌印记遍布全球。

#### (A) Global Tour

Over the past few years, GMCC has been continuing with a green innovative and technical leading image, and has become a unique landscape in different major refrigeration shows around the world. Starting from China, GMCC leaves its brand mark in heavyweight exhibitions all over the world, including American AHR, Italian MCE, Germanic CHILLVENTA, Indian ACREX, Thailand RHVAC, and Brazilian FEBRAVA.

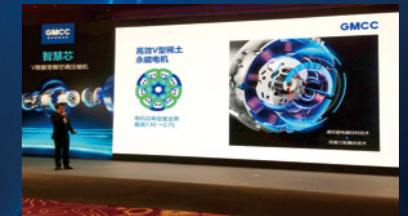


### (二) 行业分享

作为行业技术先锋，GMCC近年来不断受邀成为国际天然制冷剂大会、亚洲制冷与空调大会、中国家电技术大会、中国制冷学术年会及中国家电产业链大会等行业平台的协办单位，探讨行业技术发展方向，分享创新技术成果，推动行业技术升级。

#### (B) Industry Sharing

As a technologic pioneer in the industry, GMCC has been continuously invited in recent years as a co-organizer of the IIR-Gustav Lorentzen Conference on Natural Refrigerants, Asian Conference on Refrigeration and Air-Conditioning, China Household Appliances Technology Conference, Annual Meeting on Refrigeration of China, and Industrial Chain Conference on Household Appliances of China, discussing technical development direction of the industry, sharing technological achievements of innovations, and promoting technology upgrade of the industry.



### (三) 联合营销

GMCC与客户保持深度战略合作，进行联合市场营销，合作推广品牌和产品。2013年，GMCC推出空调压缩机“十年包换”品质服务政策；同年联合TCL推出“十年包换”落地服务，为彼此市场拓展和品牌形象带来重大价值。

#### (C) Joint Marketing

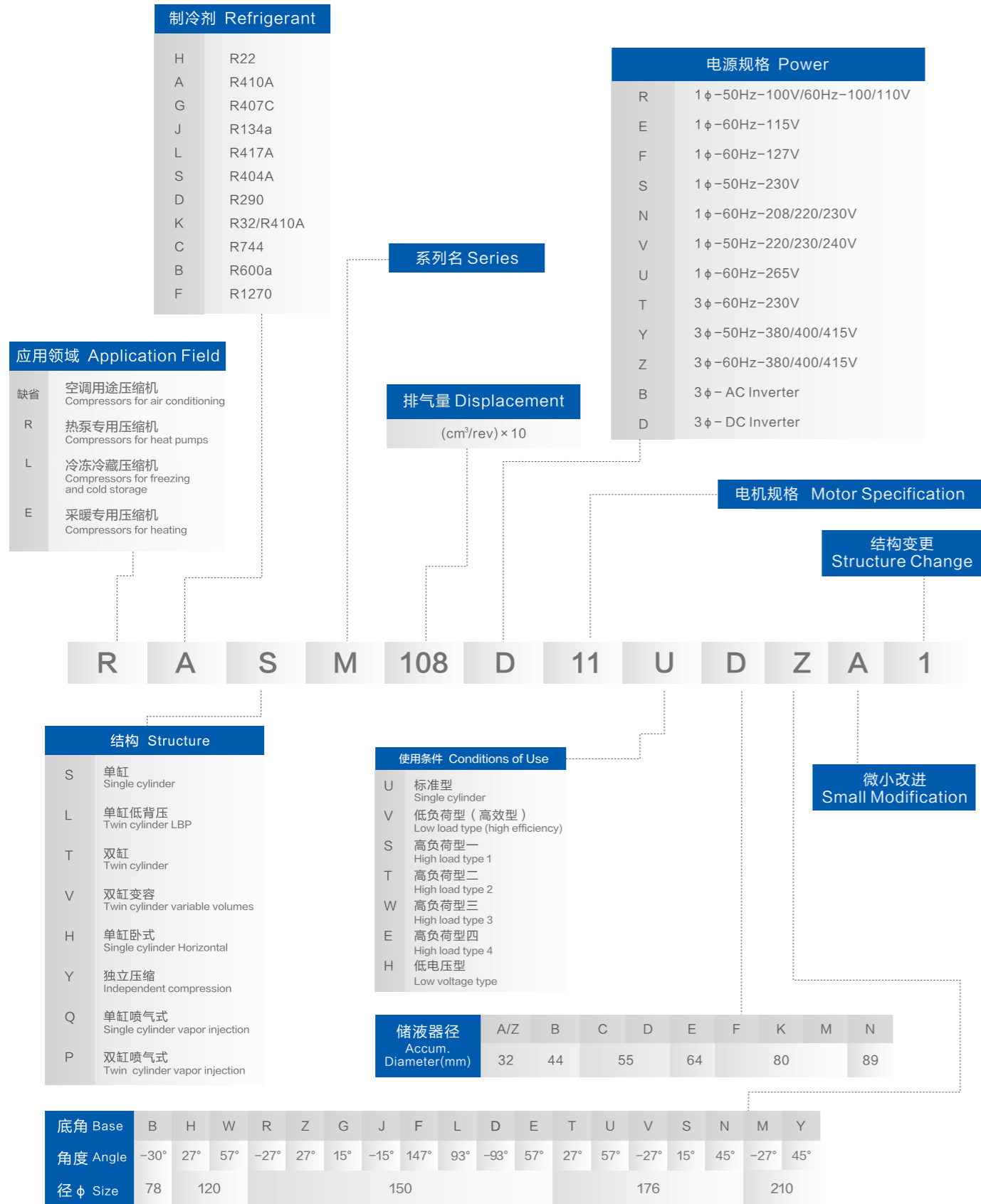
GMCC maintains in-depth strategic cooperation with its customers and conducts joint marketing to promote brands and products. In 2013, GMCC launched its "10-year replacement" service policy for air-conditioning compressors. In the same year, GMCC cooperated with TCL to launch the "10-year replacement" door-to-door service, bringing significant value to mutual market expansion and brand image.





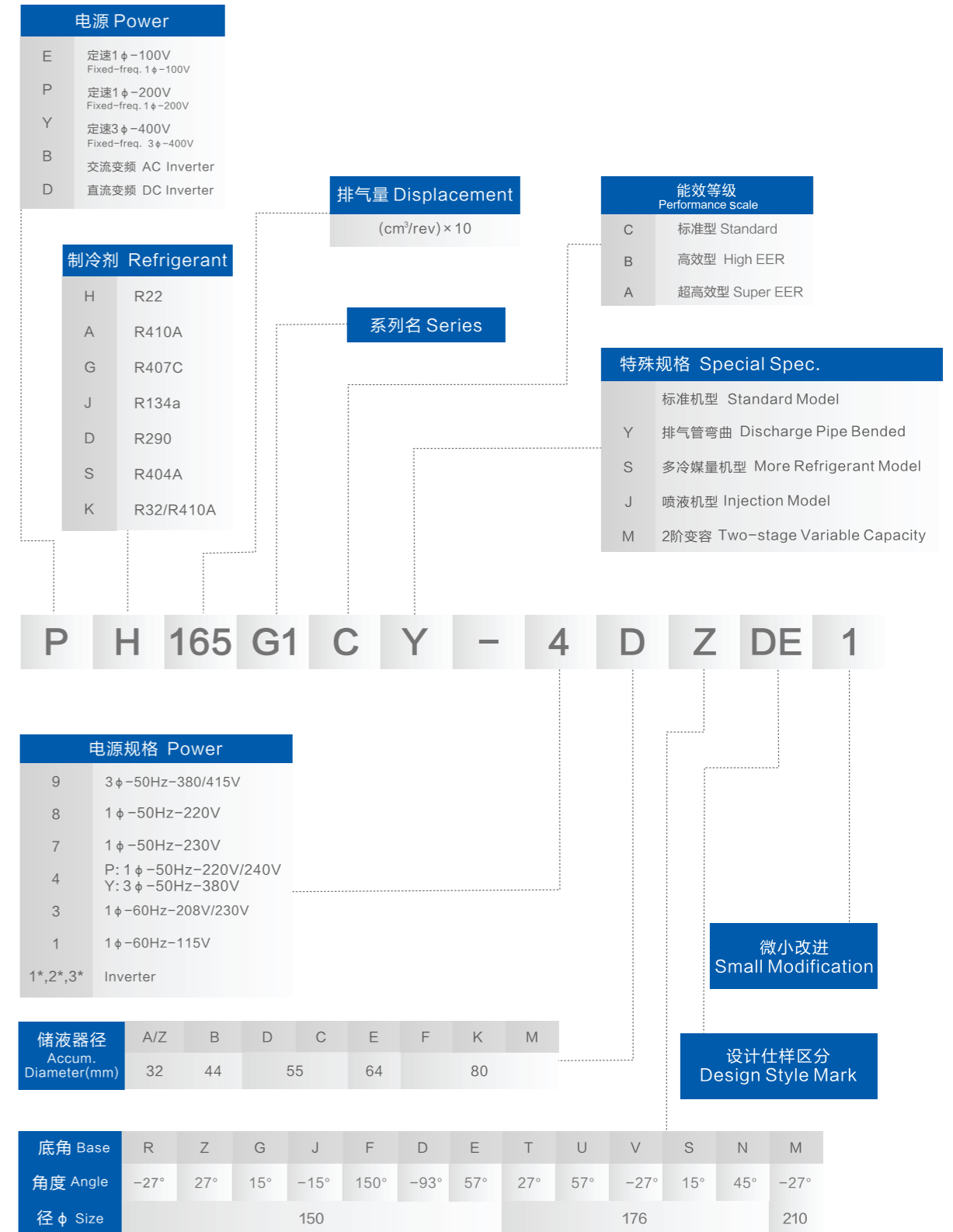
# 压缩机命名规则 (一)

## TYPE DESIGNATION(A)



# 压缩机命名规则 (二)

## TYPE DESIGNATION(B)



压缩机产品系列型谱  
COMPRESSOR SERIES LINEUP

产品类别 Type			压缩机能力范围 Compressor capacity range																	认证 Certificate			
冷媒 Refrigerant	频率 Frequency	电压 Voltage	kw kBTu/h	1.0 3.4	2.0 6.8	3.0 10.2	4.0 13.6	5.0 17.1	6.0 20.5	7.0 23.9	8.0 27.3	9.0 30.7	10.0 34.1	11.0 37.5	12.0 40.9	13.0 44.3	14.0 47.7	15.0 51.2	16.0 54.6		17.0 58.0	18.0 61.4	19.0 64.8
R22	50Hz	220/240V	[Bar chart showing capacity range from ~3.4 to ~58.0 kw]																	(4900~52200 BTU/h)	CCC TUV		
		T3 220/240V	[Bar chart showing capacity range from ~6.8 to ~17.1 kw]																	(12000~26000 BTU/h)	TUV		
	60Hz	208/230V	[Bar chart showing capacity range from ~3.4 to ~17.1 kw]																	(5600~27600 BTU/h)	UL CUL		
		T3 208/230V	[Bar chart showing capacity range from ~6.8 to ~17.1 kw]																	(14000~26800 BTU/h)	TUV		
R410A	50Hz	220/240V	[Bar chart showing capacity range from ~3.4 to ~17.1 kw]																	(3000~62600 BTU/h)	TUV CCC		
		T3	[Bar chart showing capacity range from ~6.8 to ~17.1 kw]																	(12000~36000 BTU/h)	TUV		
	60Hz	115V	[Bar chart showing capacity range from ~3.4 to ~6.8 kw]																	(5000~15500 BTU/h)GX	UL CUL		
		208/230V	[Bar chart showing capacity range from ~3.4 to ~17.1 kw]																	(5300~37000 BTU/h)	UL CUL		
		T3	[Bar chart showing capacity range from ~6.8 to ~17.1 kw]																	(10000~32500 BTU/h)	TUV		
		DC Inverter	[Bar chart showing capacity range from ~3.4 to ~17.1 kw]																	(7600~63000 BTU/h)	TUV CCC		
R134a	50Hz	220/240V	[Bar chart showing capacity range from ~3.4 to ~6.8 kw]																	(2800~13700 BTU/h)	TUV CCC		
R404A	50Hz	220/240V	[Bar chart showing capacity range from ~3.4 to ~6.8 kw]																	(2800~4500 BTU/h)	-		
R290	50Hz	220/240V	[Bar chart showing capacity range from ~3.4 to ~6.8 kw]																	(7600~21000 BTU/h)	TUV CCC		
		DC Inverter	[Bar chart showing capacity range from ~3.4 to ~6.8 kw]																	(9800~15000 BTU/h)	TUV CCC		
R32	50Hz	220/240V	[Bar chart showing capacity range from ~3.4 to ~6.8 kw]																	(3900~30500 BTU/h)	TUV CCC		
		DC Inverter	[Bar chart showing capacity range from ~3.4 to ~6.8 kw]																	(7000~47000 BTU/h)	TUV CCC		

PRODUCT APPLICATION FIELD

产品应用领域







## 变频空调压缩机 INVERTER COMPRESSOR

系列 Series	代表机型 Typical Model	排量 Displ. (cc)	制冷量 Cooling Capacity (W)   (Btu/h)	功率 Power (W)	能效比 COP (W/W)	电容 Capacitor ( $\mu$ F/V)	压缩机高度 Compressor Height (mm)	排气管内径 Discharge Pipe ID (mm)	回气管内径 Suction Pipe ID (mm)	备注 Remark
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### R410A

单缸变频 DC Inverter Single Cylinder

测试条件: SEER60 Test Condition:SEER60

系列	代表机型	排量	制冷量	功率	能效比	电容	压缩机高度	排气管内径	回气管内径	备注
SK	ASK75D43UEZ	7.5	2225	7592	582	3.82	-	238	8.1	9.8
	ASK89D53UEZ	8.9	2670	9110	688	3.88	-	258	8.1	9.8
	ASK98D50UFZ	9.8	2930	9997	768	3.82	-	260	8.1	9.8
	ASK103D53UFZ	10.3	3120	10645	805	3.88	-	258	8.1	12.9
	ASK103D59UFZ	10.3	3120	10645	790	3.95	-	260	8.1	12.9
	ASK103D33UEZ3	10.3	3130	10679	786	3.98	-	260	8.1	12.9
	ASK103D43UEZ3	10.3	3130	10679	779	4.02	-	260	8.1	12.9
SN	ASN98D22UFZA	9.7	2920	9963	745	3.92	-	250	8.1	12.9
	ASN98D32UFZ	9.7	2920	9963	740	3.95	-	250	8.1	12.9
	ASN98D43UZFA	9.7	2890	9861	725	3.99	-	260	8.1	12.9
	ASN108D21UFZ	10.8	3260	11123	832	3.92	-	250	8.1	12.9
	ASN108D22UFZ	10.8	3260	11123	832	3.92	-	250	8.1	12.9
	ASN108D32UFZ	10.8	3260	11123	825	3.95	-	250	8.1	12.9
	ASN108D43UFZA	10.8	3260	11123	805	4.05	-	260	8.1	12.9
	ASN133D42UFZ	13.3	4000	13648	1000	4.00	-	260	8.1	12.9
	ASN140D21UFZ	14.0	4225	14416	1085	3.90	-	262	8.1	12.9

双缸变频 DC Inverter Twin Cylinder

测试条件: SEER60 Test Condition:SEER60

系列	代表机型	排量	制冷量	功率	能效比	电容	压缩机高度	排气管内径	回气管内径	备注
TN	ATN110D42UFZ	11.0	3285	11208	825	3.98	-	250	8.1	12.9
	ATN130D42UFZ	13.1	3905	13324	975	4.00	-	250	8.1	12.9
	ATN130D30UFZ	13.1	3900	13307	1005	3.88	-	250	8.1	12.9 ▲
	ATN150D30UFZA	14.9	4500	15354	1155	3.90	-	270	8.1	12.9
	ATN150D42UFZ	14.9	4480	15286	1120	4.00	-	280	8.1	12.9
TM	ATM180D57UMT	17.6	5225	17828	1420	3.68	-	300	9.8	16.2
	ATM240D57UMT	24.0	7225	24652	1940	3.72	-	300	9.8	16.2
	ATM310D85UMT	30.6	9280	31663	2520	3.68	-	320	9.8	16.2 ▲
TF	ATF200D22UMT	20.1	6075	20728	1710	3.55	-	333	9.8	16.2
	ATF235D22UMT	23.5	7135	24345	1955	3.65	-	333	9.8	16.2
	ATF235D43UMT	23.5	7140	24362	1940	3.68	-	333	9.8	16.2
	ATF250D22UMT	25.1	7645	26085	2080	3.68	-	333	9.8	16.2
	ATF310D43UMT	30.8	9490	32380	2600	3.65	-	333	9.8	16.2
	ATF400D64UMV	39.8	12285	41916	3365	3.65	-	355	9.8	16.2
	ATF400D66UMV	39.8	12285	41916	3235	3.80	-	355	9.8	16.2
	ATF420D64UMT	41.5	12875	43930	3480	3.70	-	355	9.8	16.2 ▲
TQ	ATQ360D1UMU	36.2	11200	38214	3040	3.68	-	406	9.8	16.2
	ATQ420D1UMU	41.5	12960	44220	3485	3.72	-	406	9.8	16.2
	ATQ420D2UMU	41.5	12960	44220	3430	3.78	-	406	9.8	16.2
	ATQ420D1UMU1	41.5	12960	44220	3390	3.82	-	406	9.8	16.2
	ATQ580D66UNT	58.0	18560	63327	4885	3.80	-	406	9.8	16.2 ▲

备注: 带▲的产品为正在开发的产品  
Remarks: "▲" are being developed

## 变频空调压缩机 INVERTER COMPRESSOR

系列 Series	代表机型 Typical Model	排量 Displ. (cc)	制冷量 Cooling Capacity (W)   (Btu/h)	功率 Power (W)	能效比 COP (W/W)	电容 Capacitor ( $\mu$ F/V)	压缩机高度 Compressor Height (mm)	排气管内径 Discharge Pipe ID (mm)	回气管内径 Suction Pipe ID (mm)	备注 Remark
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### R410A

变频变容 Variable Volumes DC-INV Compressor

测试条件: SEER60 Test Condition:SEER60

VM	代表机型	排量	制冷量	功率	能效比	电容	压缩机高度	排气管内径	回气管内径	备注
AVM115D6UFZ	11.5	3350	11430	830	4.04	-	268	8.1	12.9	

### R32

独立压缩机 I-CCC Compressor

测试条件: SEER60 Test Condition:SEER60

YN	代表机型	排量	制冷量	功率	能效比	电容	压缩机高度	排气管内径	回气管内径	备注
KYN103D52UFZ	9.71+0.46	3130	10680	820	3.82	-	280	8.1	12.9	▲

备注: 带▲的产品为正在开发的产品  
Remarks: "▲" are being developed

### 变频变容喷气增焓全能耦合压缩机

#### COUPLING COMPRESSOR WITH VARIABLE DISPLACEMENT & DC INVERTER & GAS INJECTION TECHNOLOGIES

- 1、-15℃环境温度制热量提升 85%，并实现 50℃ 出风；
- 2、快速制冷制热，时间减少一半；
- 3、无余隙差异化喷气高效运行、高 APF 能效；
- 4、2 倍容量，半速运行，实现大能力同时避免高频噪音问题。

1. THE HEATING CAPACITY HAS IMPROVED BY 85% AT THE AMBIENT TEMPERATURE OF -15°C, AND THE OUTLET AIR TEMPERATURE UP TO 50°C;
2. ACHIEVING RAPID REFRIGERATION AND HEATING, SAVING HALF THE TIME;
3. VARIABLE GAS INJECTION TECHNOLOGY ACHIEVE HIGH EFFICIENCY OPERATION;
4. DOUBLE DISPLACEMENT MAKES HALF-SPEED RUNNING ACHIEVING LOW NOISE AT LARGE CAPACITY OPERATION.



## R410A定速空调压缩机

R410A AIR-CONDITIONER COMPRESSOR

系列 Series	代表机型 Typical Model	排量 Displ. (cc)	制冷量 Cooling Capacity (W)   (Btu/h)	功率 Power (W)	能效比 COP (W/W)	电容 Capacitor ( $\mu$ F/V)	压缩机高度 Compressor Height (mm)	排气管内径 Discharge Pipe ID (mm)	回气管内径 Suction Pipe ID (mm)	备注 Remark
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### R410A

1 $\phi$ -60Hz-208-230V

测试条件: ASH Test Condition: ASH

SN	ASN53N1UAJ3	5.3	1570	5357	520	3.02	15/370	230	8.1	9.8	
	ASN68N1UDZ	6.8	2060	7029	676	3.05	20/370	250	8.1	9.8	
	ASN82N1UDZ	8.2	2515	8581	853	2.95	25/370	250	8.1	9.8	
	ASN89N1UDZ	8.9	2730	9315	895	3.05	25/370	250	8.1	9.8	
SM	ASM103N11UFZ	10.3	3075	10492	975	3.15	35/370	297	8.1	12.9	
	ASM106N1UFT	10.6	3200	10918	1015	3.15	35/370	297	8.1	12.9	
	ASM113N1UFZ	11.3	3380	11533	1073	3.15	40/370	292	8.1	12.9	
	ASM130N1UDZ	13.0	3870	13204	1270	3.05	40/370	292	8.1	9.8	
	ASM135N1UEZ	13.3	4060	13853	1290	3.15	40/370	297	8.1	12.9	
	ASM140N1UFT	13.9	4175	14245	1355	3.08	40/370	292	8.1	12.9	
M2	PA140M2A-3ET	13.9	4155	14177	1375	3.02	45/400	299	8.1	12.9	
	PA150M2AS-3KU	15.0	4500	15354	1450	3.10	45/370	321	8.1	12.9	
	PA170M2A-3FT1	17.1	5155	17589	1662	3.10	45/370	303	9.8	12.9	
	PA225M2A-3MTU1	22.4	6715	22912	2240	3.00	55/370	322	9.8	16.2	
SF	ASF160N1UEP	16.0	4865	16599	1530	3.18	55/400	314	9.8	12.9	
	ASF165N02UFT	16.5	5000	17060	1670	3.00	40/370	340	9.8	12.9	
	ASF200N1UKP	19.9	5930	20233	1900	3.12	55/400	340	9.8	12.9	
G2	PA216G2C-3KU	21.5	6620	22587	2150	3.08	60/400	310	9.8	12.9	
	PA226G2C-3MT	22.3	6790	23167	2220	3.06	60/400	310	9.8	16.2	
	PA241G2C-3MT3	24.0	7300	24908	2315	3.15	60/400	310	9.8	16.2	
SG	ASG200N1UMT	20.0	6200	21154	1905	3.25	40/400	310	9.8	16.2	▲
	ASG240N1UMT	23.8	7350	25078	2260	3.25	40/400	310	9.8	16.2	▲
	ASG289N1UMT	28.9	8900	30367	2825	3.15	40/400	310	9.8	16.2	▲
TG	ATG330N1UMU	32.7	10080	34393	3365	3.00	65/400	400	9.8	16.2	
SQ	ASQ330N1UMU	33.1	9950	33949	3230	3.08	60/400	380	9.8	16.2	

测试条件: GX Test Condition: GX

SN	ASN58N11VDZ1	5.8	1965	6705	510	3.85	15/370	250	8.1	9.8	
	ASN68N2VDZB1	6.8	2320	7916	568	4.08	20/370	250	8.1	9.8	
	ASN76N1VDZ1	7.6	2600	8871	650	4.00	20/370	250	8.1	9.8	
	ASN82N2VDZ1	8.2	2815	9605	690	4.08	20/370	250	8.1	9.8	
SM	ASN84N1VBZB1	8.3	2865	9775	695	4.12	20/370	250	8.1	9.8	
	ASM103N11VEZ	10.3	3565	12164	838	4.25	35/370	290	8.1	12.9	
	ASM106N1VEZ	10.6	3680	12556	860	4.28	35/370	297	8.1	12.9	
M2	ASM120N1VDZ	12.0	4160	14194	990	4.20	40/370	292	8.1	9.8	
	PA155M2A-3ETL1	15.7	5395	18408	1250	4.32	45/370	303	9.8	12.9	
	PA160M2A-3ETL	16.0	5630	19210	1325	4.25	45/400	303	9.8	12.9	
SF	PA165M2A-3ETL	16.5	5760	19653	1355	4.25	45/400	303	9.8	12.9	
	ASF155N1VKP	15.5	5420	18493	1260	4.30	45/400	340	8.1	12.9	
SG	ASG235N1VMT	23.5	8350	28490	1920	4.35	40/400	310	9.8	16.2	

## R410A定速空调压缩机

R410A AIR-CONDITIONER COMPRESSOR

系列 Series	代表机型 Typical Model	排量 Displ. (cc)	制冷量 Cooling Capacity (W)   (Btu/h)	功率 Power (W)	能效比 COP (W/W)	电容 Capacitor ( $\mu$ F/V)	压缩机高度 Compressor Height (mm)	排气管内径 Discharge Pipe ID (mm)	回气管内径 Suction Pipe ID (mm)	备注 Remark
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### R410A

1 $\phi$ -50Hz-230V

测试条件: GX Test Condition: GX

SM	ASM125S1VFT	12.5	3570	12181	840	4.25	35/370	292	8.1	12.9	
	ASM127S1VFT	12.7	3680	12556	860	4.28	35/370	290	8.1	12.9	
	ASM130S1VDZ	13.0	3740	12761	880	4.25	35/370	290	8.1	9.8	
M2	PA180M2AS-7KUL	17.8	5215	17794	1235	4.22	35/370	340	8.1	12.9	
	PA185M2AS-7KUL	18.5	5420	18493	1285	4.22	35/370	340	8.1	12.9	
	PA190M2AS-7KUL	18.9	5475	18681	1310	4.18	35/370	340	8.1	12.9	
	PA200M2A-7FUL	20.0	5690	19414	1380	4.12	35/370	320	8.1	12.9	▲
SF	PA215M2AS-7KTL	21.6	6245	21308	1515	4.12	50/370	344	9.8	12.9	
	ASF180S1VKP	18.0	5210	17777	1205	4.32	45/400	314	8.1	16.2	
G2	ASF190S1VKT	19.0	5610	19141	1290	4.35	45/370	322	8.1	12.9	
	PA186G2C-7KUL	18.6	5370	18322	1280	4.20	55/400	310	9.8	12.9	
	PA196G2C-7KNL	19.6	5675	19363	1305	4.35	55/400	310	9.8	12.9	
SG	PA221G2C-7MUL	21.9	6420	21905	1465	4.38	55/400	310	9.8	16.2	
	ASG185S1VMU	18.5	5630	19210	1295	4.35	40/400	310	9.8	16.2	
	ASG190S1VFT	19.1	5500	18766	1255	4.38	40/400	310	9.8	12.9	
	ASG230S1VMU	22.9	6765	23082	1530	4.42	40/400	310	9.8	16.2	

备注: 带▲的产品为正在开发的产品  
Remarks: "▲" are being developed

### 7匹定速双缸压缩机

7HP FIX-SPEED TWIN ROTARY COMPRESSOR

- 1、高效率;
- 2、低成本;
- 3、高可靠性。

- 1.HIGHER EFFICIENCY;
- 2.LOWER COST COMPARED WITH THE SCROLL COMPRESSOR;
- 3.HIGH RELIABILITY.





## R410A定速空调压缩机

R410A AIR-CONDITIONER COMPRESSOR

系列 Series	代表机型 Typical Model	排量 Displ. (cc)	制冷量 Cooling Capacity (W)   (Btu/h)	功率 Power (W)	能效比 COP (W/W)	电容 Capacitor ( $\mu$ F/V)	压缩机高度 Compressor Height (mm)	排气管内径 Discharge Pipe ID (mm)	回气管内径 Suction Pipe ID (mm)	备注 Remark
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### R410A

1 $\phi$ -60Hz-115V

测试条件: GX Test Condition: GX

系列	代表机型	排量	制冷量	功率	能效比	电容	压缩机高度	排气管内径	回气管内径	备注	
SK	ASK44E1VAJ	4.4	1480	5050	378	3.92	35/250	230	8.1	9.8	
	ASK53E1VAZ	5.3	1825	6227	465	3.92	35/250	230	8.1	9.8	
SN	ASN45E2VAJ3	4.5	1510	5152	360	4.20	35/250	238	8.1	9.8	
	ASN52E2VAZ3	5.2	1745	5954	420	4.15	40/250	240	8.1	9.8	
	ASN68E2VAZB1	6.8	2290	7813	555	4.12	50/250	250	8.1	9.8	
	ASN71E1VBZ	7.1	2445	8342	596	4.10	45/250	245	8.1	9.8	
	ASN81E1VBZB1	8.0	2720	9281	660	4.12	50/250	250	8.1	9.8	
	ASN83E1VBZ1	8.3	2845	9707	690	4.12	50/250	245	8.1	9.8	
	ASN86E1VBZ	8.6	2990	10202	730	4.10	50/250	247	8.1	9.8	
	ASN89E1VBZ	8.9	3095	10560	774	4.00	50/250	247	8.1	9.8	
	ASN89E11UDD	8.9	2735	9332	905	3.02	50/250	250	8.1	9.8	ASH
	SM	ASM100E11VEZ	9.9	3425	11686	800	4.28	70/250	290	8.1	12.9
ASM103E12VEZ		10.3	3525	12027	835	4.22	70/250	290	8.1	12.9	
ASM106E2VEZ		10.6	3700	12624	865	4.28	70/250	297	8.1	12.9	
ASM113E1UDZ		11.3	3340	11396	1095	3.05	60/250	292	8.1	9.8	ASH
ASM127E1VET		12.7	4485	15303	1048	4.28	70/250	290	8.1	12.9	
ASM130E1VET		13.0	4535	15473	1075	4.22	70/250	292	8.1	12.9	

1 $\phi$ -60Hz-127V

测试条件: GX Test Condition: GX

系列	代表机型	排量	制冷量	功率	能效比	电容	压缩机高度	排气管内径	回气管内径	备注
SN	ASN86F1VBZ1	8.6	2985	10185	762	3.92	45/250	245	8.1	9.8
	ASN89F1VBZ1	8.9	3115	10628	820	3.80	50/250	245	8.1	9.8

1 $\phi$ -60Hz-127V

测试条件: ASH Test Condition: ASH

系列	代表机型	排量	制冷量	功率	能效比	电容	压缩机高度	排气管内径	回气管内径	备注
SN	ASN76F1UBZB1	7.6	2295	7831	735	3.12	45/250	245	8.1	9.8
SM	ASM113F1UDRC	11.3	3420	11669	1120	3.05	60/250	270	8.1	9.8

1 $\phi$ -60Hz-265V

测试条件: GX Test Condition: GX

系列	代表机型	排量	制冷量	功率	能效比	电容	压缩机高度	排气管内径	回气管内径	备注
SN	ASN76U1VDZ1	7.6	2610	8905	650	4.02	15/250	250	8.1	9.8

备注: 带▲的产品为正在开发的产品  
Remarks: "▲" are being developed

## R22定速空调压缩机

R22 AIR-CONDITIONER COMPRESSOR

系列 Series	代表机型 Typical Model	排量 Displ. (cc)	制冷量 Cooling Capacity (W)   (Btu/h)	功率 Power (W)	能效比 COP (W/W)	电容 Capacitor ( $\mu$ F/V)	压缩机高度 Compressor Height (mm)	排气管内径 Discharge Pipe ID (mm)	回气管内径 Suction Pipe ID (mm)	备注 Remark
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### R22

1 $\phi$ -60Hz-208~230V

测试条件: ASH Test Condition: ASH

系列	代表机型	排量	制冷量	功率	能效比	电容	压缩机高度	排气管内径	回气管内径	备注	
SN	HSN76N1UZJ1	7.6	1645	5613	530	3.10	15/370	240	8.1	9.8	
SM	HSM130N12UEZ	13.0	2750	9383	846	3.25	30/370	292	8.1	12.9	
	HSM165N11UEZ	16.5	3500	11942	1060	3.30	40/370	292	8.1	12.9	
	HSM170N2UFZ	16.9	3540	12078	1115	3.17	40/370	292	8.1	12.9	
M2	PH210M2A-3FT	20.9	4610	15729	1365	3.38	45/370	292	8.2	12.9	
	PH250M2A-3FTU2	24.8	5285	18032	1625	3.25	40/370	292	8.2	12.9	
	PH260M2AS-3KUU1	26.1	5625	19193	1815	3.10	40/370	333	9.8	12.9	
G2	PH300G2C-3KU	29.8	6465	22059	1900	3.40	55/400	310	9.8	12.9	
	PH310G2C-3KUU	30.8	6780	23133	2085	3.25	55/400	310	9.8	12.9	
	PH340G2C-3MUU	33.8	7400	25249	2275	3.25	55/400	310	9.8	16.2	
	PH360G2C-3KUU1	36.0	7775	26528	2550	3.05	55/400	310	9.8	12.9	
SG	PH370G2C-3MUU1	37.0	8110	27671	2655	3.05	55/400	310	9.8	16.2	
	HSG300N1UKU	29.8	6465	22059	1875	3.45	40/400	310	9.8	12.9	▲
	HSG310N1UKU	30.9	6780	23133	1965	3.45	40/400	310	9.8	12.9	▲
	HSG330N1UMU	33.1	7260	24771	2105	3.45	40/400	310	9.8	16.2	▲
	HSG340N1UMU	34.1	7450	25419	2160	3.45	40/400	310	9.8	16.2	▲
	HSG360N1UKU	35.9	7790	26579	2280	3.42	40/400	324	9.8	12.9	▲
	HSG370N1UMU	37.0	8100	27637	2370	3.42	40/400	324	9.8	16.2	▲

测试条件: GX Test Condition: GX

系列	代表机型	排量	制冷量	功率	能效比	电容	压缩机高度	排气管内径	回气管内径	备注
SN	HSN98N2VBZ1	9.8	2305	7865	560	4.12	20/370	250	8.1	9.8
SN	HSN102N1VDZ	10.2	2415	8240	575	4.20	15/370	255	8.1	9.8
SM	HSM145N2VDT	14.6	3480	11874	830	4.19	35/370	292	8.1	9.8

备注: 带▲的产品为正在开发的产品  
Remarks: "▲" are being developed









## 除湿用压缩机

DEHUMIDIFIER COMPRESSOR

系列 Series	代表机型 Typical Model	排量 Displ. (cc)	制冷量 Cooling Capacity (W)   (Btu/h)	功率 Power (W)	能效比 COP (W/W)	电容 Capacitor ( $\mu$ F/V)	压缩机高度 Compressor Height (mm)	排气管内径 Discharge Pipe ID (mm)	回气管内径 Suction Pipe ID (mm)	备注 Remark
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### R410A

1 $\phi$ -60Hz-115V

测试条件: GX Test Condition:GX

SK	ASK31E12VZZX	3.1	1025	3497	295	3.47	25/250	220	6.53	9.8	
	ASK44E12VZDX	4.4	1475	5033	415	3.55	35/250	220	6.53	9.8	
	ASK49E11VZZX	4.9	1655	5647	430	3.85	35/250	240	6.53	9.8	
	ASK57E11VZZX	5.7	1965	6705	515	3.82	40/250	240	6.53	9.8	
	ASK68E11VZZX	6.8	2330	7950	605	3.85	45/250	240	6.53	9.8	
SN	ASN84E12VBDB1	8.3	2820	9622	685	4.12	50/250	250	8.1	9.8	
	ASN86E11VBD1	8.6	2970	10134	725	4.10	50/250	248	8.1	9.8	

测试条件: ASH Test Condition: ASH

SK	ASK34E14UZDX	3.4	990	3378	380	2.61	25/250	210	6.53	9.8	
SN	ASN71E11UZDX1	7.1	2140	7302	708	3.02	45/250	242	8.1	9.8	
	ASN71E11UZDT1	7.1	2140	7302	708	3.02	45/250	242	6.53	9.8	

### R410A

1 $\phi$ -50Hz-220V

测试条件: GX Test Condition: GX

SK	ASK37V13VZDX	3.7	1015	3463	310	3.28	15/370	220	6.53	9.8	
	ASK40V13VZDX	4.0	1090	3719	319	3.42	15/370	220	6.53	9.8	
	ASK46V13VZDX	4.6	1272	4340	359	3.54	15/370	220	6.53	9.8	

测试条件: ASH Test Condition: ASH

SK	ASK60V1UZZX	6.0	1485	5067	555	2.68	25/370	235	6.53	9.8	
SN	ASN76V13UZDX1	7.6	1910	6517	655	2.92	20/370	242	6.53	9.8	
	ASN86V1UZDA1	8.6	2190	7472	750	2.92	25/370	252	8.1	9.8	
	ASN89V1UZDA1	8.9	2270	7745	778	2.92	25/370	252	8.1	9.8	

### R410A

1 $\phi$ -60Hz-230V

测试条件: ASH Test Condition: ASH

SK	ASK31N12UZZX	3.1	860	2934	355	2.42	15/370	220	6.53	9.8	
	ASK37N12UZZX	3.7	1045	3566	405	2.58	15/370	220	6.53	9.8	

### R410A

单缸变频 DC Inverter Single Cylinder

测试条件: SEER60 Test Condition:SEER60

SK	ASK89D53UEDF	8.9	2670	9110	688	3.88	-	257	6.53	9.8	弯管
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### R134a

1 $\phi$ -50Hz-220V 1 $\phi$ -60Hz-115V

测试条件: ASH Test Condition: ASH

SK	JSK64V16UZH	6.4	735	2508	288	2.55	15/370	183	6.53	6.53	
	JSK64E16UZH	6.4	930	3173	372	2.50	30/250	180	6.53	6.53	

## 制冷量测试条件

REFRIGERATING CAPACITY TEST CONDITION

机种系列 Compressor Series	定速机种 Fixed-Frequency			直流变频 DC Inverter
测定电源 Test Power Source				专用变频器,60rps时 Inverter Driving at 60rps
测试条件 Test Condition	ARI	GX	ASH	SEER60
冷凝温度 Condensing Temp. °C	54.4	46.0	54.4	42.3
过冷液温度 Liquid Temp. °C	46.1	41.0	46.1	34.3
蒸发温度 Evaporating Temp. °C	7.2	10.0	7.2	2.7
吸气温度 Suction Temp. °C	18.3	18.0	35.0	12.8
环境温度 Ambient Temp. °C	35.0	35.0	35.0	35.0
排气温度 Discharge Temp. °C			85.0	
备注 Remarks	■	●	◆	输入功率包含 变频器功率 Includ. Inverter Power
	● 对应高效产品 For higher efficiency products ◆ 强制空冷 Forced Air Cooling			




# 压缩机标准包装

COMPRESSOR STANDARD PACKAGE

依据运输要求，分为出口包装和内销包装，分别见右图：  
We have export and domestic package types, see the right pictures.

20英尺集装箱=20箱  
20-foot container=20Boxes



箱体尺寸 Package Dimensions		1	2	3	4	5	6	7	8	9	10	11	12	13	14	
出口(内销) Export (Domestic)	L(m)	1.144(1.100)	1.144(1.100)	1.144(1.100)	1.144(1.100)	1.144(1.100)	1.144(1.122)	1.144(1.122)	1.144(1.122)	1.144(1.122)	1.144(1.122)	1.144(1.122)	1.144(1.122)	1.144(1.122)	1.144(1.122)	
	W(m)	1.108(1.100)	1.108(1.100)	1.108(1.100)	1.108(1.100)	1.108(1.100)	1.108(1.086)	1.108(1.086)	1.108(1.086)	1.108(1.086)	1.108(1.086)	1.108(1.086)	1.108(1.086)	1.108(1.086)	1.108(1.086)	
	H(m)	0.794-1.052	0.758-0.798	0.947-1.034	0.762-0.85	0.834-0.854	0.977-1.031	0.834-0.852	0.748-0.838	0.746-0.796	0.8-0.848	0.748-0.852	0.76-0.988	0.736-1.05	0.83-0.977	
压缩机数量/箱(Kg) Qty/Gr.Wt./Box	30-108 SK	120/737-863														
	76-150 SN		80/717-817													
	45-108 SN			120/929-1169												
	89-215 SM(φ150)				80/700-1084											
	103-220 SM(φ176)					60/642-822										
	55-108 G0C						120/995-1145									
	125-215 G1(φ150)							80/839-1079								
	130-195 G1(φ176)								60/757-823							
	82-180 X1(φ150)									80/789-1047						
	108-180 X1(φ176)										60/727-799					
	79-130 M1(φ150)											80/695-1015				
	108-130 M1C												60/556-733			
	110-210 S1(φ150)													80/751-847		
	130-340 X2/M2														60/846-1152	
	251-530 X3															48/905-1270
	180-440 G2															48/852-1068

注：重量一栏为包装机种的毛重区间，以上数据仅供参考。（单位：千克）  
Note: Gr. Wt.--- The range of Gross Weight is the weight when packing models, the above data could only be used as a reference. Unit:kg.  
本资料中数据如有变更，恕不通知。  
Data can be subject to change without notice.

# 压缩机标准附件

COMPRESSOR ACCESSORIES

标准附件 Accessories	内保护器定速机种 Internal OLP Fixed-frequency Model	外保护器定速机种 External OLP Fixed-frequency Model	对应变频机种 AC /DC Inverter Model	
			需感温器 Needing thermal sensor	不需感温器 No thermal sensor
端子罩 Terminal Cover				
				
				
端子垫片 Terminal Packing				
				
				
端子螺母 Terminal Nut				
端子螺母垫片 Terminal Nut Washer				
外置保护器 External OLP				
感温器 Thermal Sensor				
橡胶垫 Rubber Cushion (3 Purchase)				
				