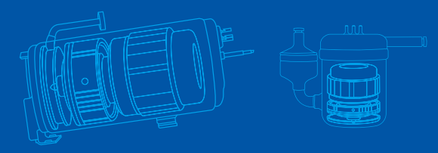
GMCC
用芯创造未来

Product Manual of GMCC Compressors in Emerging Markets

2020

新兴市场压缩机产品手册



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2019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
This manual was printed in Dec. 2019. For technical details about the latest products, please visit GMCC website: www.gmcc-welling.com

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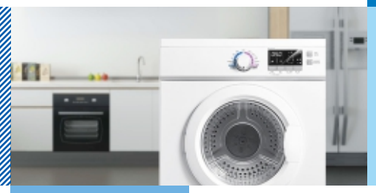


COMPANY PROFILE
公司简介

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 equitpnet, etc.

我们的体系
Market

GMCC在全球拥有五大研发试验中心，5个工厂；2019冷年产销空调压缩机7250万台、冰箱压缩机2727万台。

Five R&D centers and five 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 2019 refrigeration year.

世界知名品牌的核芯之选

A core choice for well-known brands around the world

五大研发试验中心，已获得共2700多项专利
5 R&D centers, 2700 patents

顺德 Shunde　合肥 Hefei　印度 India　欧洲 Europe　日本 Japan

5个智能工厂，400多台工业机器人
5 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
印度浦那 Pune, India

GREEN MILE
绿色里程

1995年09月
公司成立
Sep 1995, Company establishment

1996年10月
X1C、X2C系列压缩机开始投产
Oct 1996, X1C,X2C series rotary comp.

2000年10月
交流变频机种研发成功实现量产
Oct 2000, AC inverter comp.

2003年09月
R410A直流变频压缩机研发成功实现量产
Sep 2003, R410A DC inverter comp.

2004年03月
顺德容桂基地正式投产
Mar 2004, Ronggui plant went into production

2007年11月
高效G1系列产品量产成功
Nov 2007, High-efficiency G1 series comp.

2008年11月
安徽合肥制冷基地投产
Nov 2008, Hefei plant went into production

2008年12月
R410A冷媒双缸直流变频产品实现量产
Dec 2008, R410A DC inverter twin cylinder comp.

2009年12月
R134a热泵热水器专用压缩机投放市场
Dec 2009, Special comp. for HP water heater in R134a

2010年01月
卧式系列冷冻压缩机研发成功，投入市场
Jan 2010, Horizontal refrigerating comp.

2010年05月
CO_2热泵热水器专用压缩机研发成功
May 2010, Comp. for HP water heater in CO_2

2010年06月
第一亿台旋转式压缩机下线
June 2010, The 100 millionth A/C compressor roll-out

2010年10月
双缸变容压缩机研发成功投入市场
Oct 2010, Twin cylinder variable capacity comp.

2011年10月
安徽芜湖空压基地投产
Oct 2011, Wuhu plant was put into production

2011年11月
签约为联合国蒙特利尔R290压缩机示范线
Nov 2011, The UN Montreal R290 compressor demonstration line

2012年07月
第3000万台变频压缩机下线
July 2012,The 30 millionth DC inverter compressor roll-out

2013年09月
喷气增焓旋转式变频压缩机研发成功
Sep 2013, Gas-injection inverter comp.

2013年09月
第2亿台空调压缩机下线
Sep 2013, The 200 millionth A/C compressor offline

2014年
全球市场占有率达30%
In 2014, Market share up to 30%

2015年
荣获2015年度广东省政府质量奖
In 2015, Won the Guangdong Quality Award

2016年
荣获2016年度安徽省质量奖
In 2016, Won the Anhui Quality Award

2016年11月
独立压缩机研发成功并正式发布
Nov 2016, I-CCC comp.

日本研发中心成立
Japan R&D center establishment

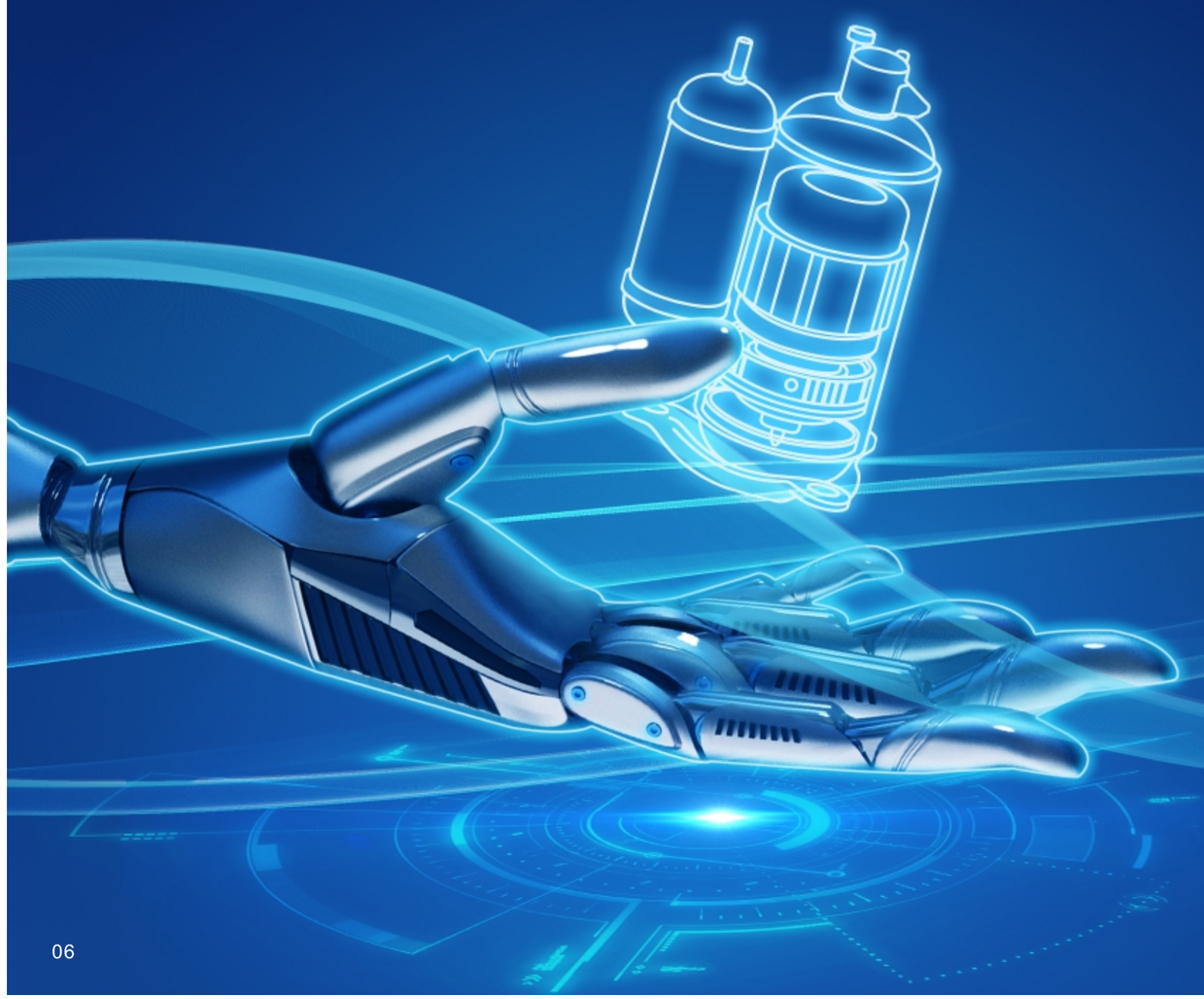
2017年05月
欧洲研发中心成立
May 2017，European R&D center establishment

2018年4月
喷气变频热泵采暖专用压缩机正式发布
Apr 2018, Heat pump heating comp. with EVI.

2018年10月
“V致能”小型变频空调压缩机研发成功并发布
Oct 2018 Miniaturized DC inverter comp.

2019年
第五亿台空调压缩机下线
The 500 millionth A/C compressor roll-out

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%.

压缩机命名规则（一）
TYPE DESIGNATION(A)

制冷剂 Refrigerant

H	R22
A	R410A
G	R407C
J	R134a
L	R417A
S	R404A
D	R290
K	R32
C	R744
B	R600a
F	R1270

应用领域 Application Field

缺省	空调用途压缩机 Compressors for air conditioning
R	热泵专用压缩机 Compressors for heat pumps
L	冷冻冷藏压缩机 Compressors for freezing and cold storage
E	采暖专用压缩机 Com pressor for heating
G	基站空调专用压缩机 Com pressor for cabinet A/C

系列名 Series

排气量 Displacement

(cm³/rev)×10

电源规格 Power

R	1ϕ-50Hz-100V/60Hz-100/110V
E	1ϕ-60Hz-115V
F	1ϕ-60Hz-127V
S	1ϕ-50Hz-230V
N	1ϕ-60Hz-208/220/230V
V	1ϕ-50Hz-220/230/240V
U	1ϕ-60Hz-265V
T	3ϕ-60Hz-230V
Y	3ϕ-50Hz-380/400/415V
Z	3ϕ-60Hz-380/400/415V
B	3ϕ- AC Inverter
D	3ϕ- DC Inverter

电机规格 Motor Specification

结构变更 Structure Change

R A S M 108 D 11 U D Z A 1

结构 Structure

S	单缸 Single cylinder
L	单缸低背压 Twin cylinder LBP
T	双缸 Twin cylinder
V	双缸变容 Twin cylinder variable volumes
H	单缸卧式 Single cylinder Horizontal
Y	独立压缩 Independent compression
Q	单缸喷气式 Single cylinder vapor injection
P	双缸喷气式 Twin cylinder vapor injection
Z	双缸卧式 Twin cylinder Horizontal
U	变频变容喷气（耦合） DC inverter & Variable volumes & EV

使用条件 Conditions of Use

U	标准型 Single cylinder
V	低负荷型（高效型） Low load type (high efficiency)
S	高负荷型一 High load type 1
T	高负荷型二 High load type 2
W	高负荷型三 High load type 3
E	高负荷型四 High load type 4
H	低电压型 Low voltage type

微小改进 Small Modification

储液器径 Accum. Diameter(mm)	A/Z	B	C	D	E	F	K	M	N
	32	44	55		64		80		89

底角 Base	B	H	W	R	Z	G	J	F	L	D	E	T	U	V	S	N	M	Y
角度 Angle	-30°	27°	57°	-27°	27°	15°	-15°	147°	93	-93°	57°	27°	57°	-27°	15°	45°	-27°	45°
径 ϕ Size	78	120		150								176					180	210

压缩机命名规则（二）
TYPE DESIGNATION(B)

电源 Power

E	定速1ϕ-100V Fixed-freq. 1ϕ-100V
P	定速1ϕ-200V Fixed-freq. 1ϕ-200V
Y	定速3ϕ-400V Fixed-freq. 3ϕ-400V
B	交流变频 AC Inverter
D	直流变频 DC Inverter

制冷剂 Refrigerant

H	R22
A	R410A
G	R407C
J	R134a
D	R290
S	R404A
K	R32

排气量 Displacement

(cm³/rev)×10

能效等级 Performance Scale

C	标准型 Standard
B	高效型 High EER
A	超高效型 Super EER

系列名 Series

特殊规格 Special Spec.

	标准机型 Standard Model
Y	排气管弯曲 Discharge Pipe Bended
S	多冷媒量机型 More Refrigerant Model
J	喷液机型 Injection Model
M	2阶变容 Two-stage Variable Capacity

P H 165 G1 C Y - 4 D Z DE 1

电源规格 Power

9	3ϕ-50Hz-380/415V
8	1ϕ-50Hz-220V
7	1ϕ-50Hz-230V
4	P: 1ϕ-50Hz-220V/240V Y: 3ϕ-50Hz-380V
3	1ϕ-60Hz-208V/230V
1	1ϕ-60Hz-115V
1*,2*,3*	Inverter

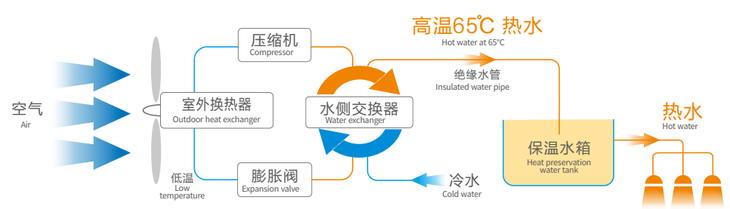
微小改进 Small Modification

设计仕样区分 Design Style Mark

储液器径 Accum. Diameter(mm)	A/Z	B	D	C	E	F	K	M
	32	44	55		64		80	

底角 Base	R	Z	G	J	F	D	E	T	U	V	S	N	M
角度 Angle	-27°	27°	15°	-15°	150°	-93°	57°	27°	57°	-27°	15°	45°	-27°
径 ϕ Size	150							176					180

热泵热水器压缩机
HEAT PUMP WATER HEATER COMPRESSOR



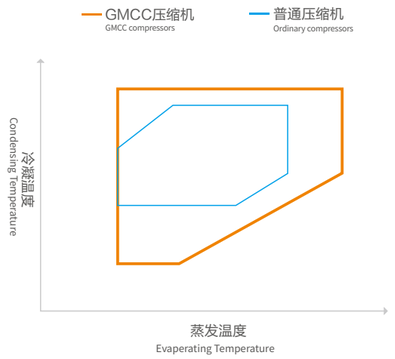
产品特点
Product features

高水温 High water temperature
出水温度一般要求65℃，冬季也能达到55° 左右;
The outlet water temperature is generally required to be up to 65℃, and can also reach approx 55℃ in winter;

高可靠 High reliability
全年运行在高冷凝温度条件下，总设计寿命长达22000小时，欧洲要求寿命更长，夏季高负荷、冬季大压比运行，可靠性要求高于空调压缩机;
Operate at high condensing temperatures throughout the year. The total design life is up to 22,000 hours, and Europe demands longer life. Operate at a high load in summer and a large pressure ratio in winter. It is required to be more reliable than air conditioning compressors;

宽范围 Wide range
压缩机夏季大流量、高负荷工况和冬季小流量、高压比工况的运行要求;
The compressors are required to be operated under the conditions of high flow and high load in summer, and under the conditions of low flow and high pressure ratio in winter;

高能效 High energy efficiency
全年运行制热效率，尤其是冬季制热性能优势明显。
The compressors have obvious advantages in terms of operating heating efficiency throughout the year, especially the heating performance in winter.



热泵热水器压缩机
HEAT PUMP WATER HEATER COMPRESSOR

代表机型 Typical model	排量 Displ. (cc)	制热量 Heating Capacity (W)	(Btu/h)	功率 Power (W)	能效比 COP (W/W)	电容 Capacitor (μF/V)	压缩机高度 Compressor Height (mm)	排气管内径 Discharge Pipe ID (mm)	回气管内径 Sucition Pipe ID (mm)	备注 Remark

定速高效 R22
Constant speed and efficient R22

1 ϕ −50Hz−220V　　测试条件：ASH　Test Condition: ASH

HSM135V11UDZ	13.3	3045	10390	710	4.20	25/370	292	8.1	9.8	
RHSM165V14UDZA	16.4	3770	12863	920	4.10	30/370	292	8.1	12.9	
HSM215V4UFTA	21.4	4830	16480	1120	4.10	40/370	300	8.1	12.9	
PH310M2CS−4KUH	31.0	7180	24498	1710	4.20	40/370	350	8.1	12.9	
PH420G2CS−4KU1	42.3	9810	33472	2390	4.10	50/400	354	9.8	12.9	

定速高效 R22
Constant speed and efficient R22

3 ϕ −50Hz−380V　　测试条件：ASH　Test Condition: ASH

YH421X3CS−4MUC	42.0	9665	32977	2275	4.25	–	370	9.8	16.2	
YH441X3CS−4MUC	43.5	10005	34137	2355	4.25	–	370	9.8	16.2	
YH460X3CS−4MUC1	45.9	10580	36099	2580	4.10	–	400	9.8	16.2	
YH480X3CS−4MUC1	47.9	11040	37668	2690	4.10	–	400	9.8	16.2	
RHTW835Y2UNY	83.5	20420	69673	4790	4.26	–	439	12.9	22.2	

定速高效 R410A
Constant speed and efficient R410A

1 ϕ −50Hz−220V　　测试条件：ASH　Test Condition: ASH

ASN71V1UDD1	7.1	2317	7906	582	3.98	20/370	250	8.1	9.8	
ASN89V1UDZ	8.9	3025	10321	765	3.95	25/370	250	8.1	9.8	
ASM106V2UDZB	10.6	3425	11686	835	4.10	25/370	280	8.1	9.8	
ASM140V1UFT	13.9	4695	16019	1220	3.85	35/370	290	8.1	12.9	
ASF195V1UFT	19.5	6500	22178	1625	4.00	50/370	310	8.1	12.9	
ASG280V1UMT	27.9	9395	32056	2320	4.05	60/400	310	9.8	16.2	
ASQ330V1UMU	33.0	11370	38794	2875	3.95	70/400	380	9.8	16.2	
ATQ420V1UMT	42.0	14095	48092	3480	4.05	80/400	405	9.8	16.2	

定速高效 R410A
Constant speed and efficient R410A

3 ϕ −50Hz−380V　　测试条件：ASH　Test Condition: ASH

ASQ280Y1UMT	28.0	9140	31186	2240	4.08	–	380	9.8	16.2	
ASQ300Y1UMV	30.0	10065	34342	2465	4.08	–	380	9.8	16.2	
ASQ330Y1UMT	33.0	10655	36355	2645	4.10	–	380	9.8	16.2	
ATQ420Y1UMT	42.0	13870	47324	3470	4.00	–	406	9.8	16.2	
ATW480Y2UNY	48.0	16275	55530	4020	4.05	–	459	12.9	22.2	
ATW550Y2UNY	55.0	18680	63736	4610	4.05	–	439	12.9	22.2	
ATW590Y2UNY	59.0	20125	68667	4975	4.05	–	459	12.9	22.2	
ATW630Y2UNY	63.0	21620	73767	5305	4.08	–	459	12.9	22.2	

热泵热水器压缩机
HEAT PUMP WATER HEATER COMPRESSOR

代表机型 Typical model	排量 Displ. (cc)	制热量 Heating Capacity (W)	(Btu/h)	功率 Power (W)	能效比 COP (W/W)	电容 Capacitor (μF/V)	压缩机高度 Compressor Height (mm)	排气管内径 Discharge Pipe ID (mm)	回气管内径 Sucition Pipe ID (mm)	备注 Remark

定速高效 R134a
Constant speed and efficient R134a

1φ-50Hz-220V 中高出水温度型 — **测试条件：ASH Test Condition: ASH**

RJSK68V11TZEW	6.8	1098	3746	293	3.75	15/370	210	6.8	9.8	
RJSK75V13TZLB	7.5	1206	4115	321	3.76	15/370	225	8.1	9.8	
RJSK89V13TZR	8.9	1463	4992	385	3.80	15/370	219	8.1	9.8	
RJSN118V1TZZA1	11.7	1910	6517	480	3.98	15/370	227	8.1	9.8	
RJSM125V1WFZ	12.5	1955	6670	495	3.95	20/370	290	8.1	12.9	
RJSM160V11WFZ	15.8	2450	8359	620	3.95	25/370	290	8.1	12.9	
PJ215G1C-4FT	21.5	3495	11925	885	3.95	30/370	294	8.1	12.9	
PJ250M2C-4FT	25.0	4000	13648	1000	4.00	35/370	292	8.1	12.9	
PJ340M2C-4KU	34.0	5331	18189	1360	3.92	40/400	348	9.8	12.9	

1φ-60Hz-240V 中高出水温度型 — **测试条件：ASH Test Condition: ASH**

RJSN86N11WEZ	8.6	1600	5459	385	4.16	15/370	243	8.1	9.8	
RJSF250N1WKT	25.0	4598	15688	1090	4.20	50/400	292	8.2	12.9	

1φ-60Hz-120V 中高出水温度型 — **测试条件：ASH Test Condition: ASH**

RJSN86E11WEZ	8.6	1605	5476	404	4.00	15/370	243	8.1	9.8	
RJSF250E1WKT	25.0	4597	15685	1105	4.16	50/400	292	8.2	12.9	

CO_2
DC 变频 DC Inverter — **测试条件 Test Condition ★**

RCSM50D55WFT	5.0	7930	27057	1580	5.00	–	284	6.53	8.1	

测试条件 Test Condition ★

蒸发温度 10°C
Evaporating temperature

吸气温度 20°C
Suction temperature

排气压力 10 Mpa
Discharge pressure

阀前温度 22 °C
Pre-valve temperature

环境温度 35°C
Ambient temperature

转速 60 Hz
Rotating speed

泳池热泵压缩机
HEAT PUMP COMPRESSOR FOR SWIMMING POOL

代表机型 Typical model	排量 Displ. (cc)	制热量 Heating Capacity (W)	(Btu/h)	功率 Power (W)	能效比 COP (W/W)	电容 Capacitor (μF/V)	压缩机高度 Compressor Height (mm)	排气管内径 Discharge Pipe ID (mm)	回气管内径 Sucition Pipe ID (mm)	备注 Remark

定速高效 R32
Constant speed and efficient R32

1φ-50Hz-220V — **测试条件：ASH Test Condition: ASH**

KSK66V1VZZ	6.6	2200	7506	590	3.70	20/370	245	8.1	9.8	
KSN71V12HDE1	7.1	2330	7950	650	3.58	25/370	250	8.1	9.8	
KSM89V11VDZ	8.9	3025	10321	810	3.75	25/370	290	8.1	9.8	
KSN93V11UDZ1	9.2	3145	10731	845	3.72	25/370	260	8.1	9.8	
KSM106V2UDZB	10.6	3580	12215	930	3.85	25/370	270	8.1	9.8	
KSM120V2UFT	12.0	4120	14057	1085	3.80	35/370	290	8.1	12.9	
KSM140V1VFT	13.9	4685	15985	1250	3.75	35/370	290	8.1	12.9	
KSF195V1VFT	19.5	7031	23990	1780	3.95	50/370	310	8.1	12.9	
KSG280V1VMT	27.9	9705	33113	2455	3.95	65/400	340	9.8	16.2	
KSQ300V1VMU	29.7	7680	26204	2695	3.85	60/400	380	9.8	16.2	
KTQ420V1VMU	42.0	10690	36474	3625	3.95	80/400	405	9.8	16.2	

定速高效 R32
Constant speed and efficient R32

3φ-50Hz-380V — **测试条件：ASH Test Condition: ASH**

KSQ280Y1VMT	28.0	9401	32076	2380	3.95	–	380	9.8	16.2	
KSQ300Y1VMU	30.0	9965	34001	2555	3.90	–	380	9.8	16.2	
KSQ330Y1VMU	33.0	10915	37242	2835	3.85	–	380	9.8	16.2	
KTQ420Y1VMU	42.0	14225	48536	3695	3.85	–	406	9.8	16.2	
KTW480Y1UNY	48.1	17050	58175	4350	3.92	–	440	12.9	22.2	
KTW550Y1UNY	55.0	19680	67148	4980	3.95	–	440	12.9	22.2	
KTW630Y1UNY	63.0	22464	76647	5760	3.90	–	440	12.9	22.2	

变频 R32
Inverter R32

DC 变频单缸 DC Inverter — **测试条件：SEER 60Hz Test Condition: SEER 60Hz**

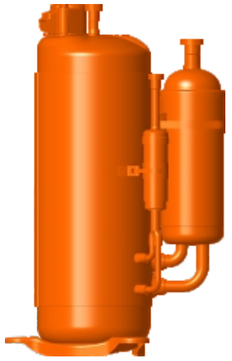
KSK66D43UEZA	6.7	2590	8837	542	4.78	–	238	8.1	9.8	
KSK75D43UEZA	7.5	2918	9956	608	4.80	–	238	8.1	9.8	
KSK89D53UEZ	8.9	3492	11915	712	4.90	–	258	8.1	9.8	
KSK103D33UEZ3	10.3	4085	13938	830	4.92	–	270	8.1	9.8	
KSN108D22UFZ	10.8	4360	14876	890	4.90	–	250	8.1	12.9	
KSN140D21UFZ	14.0	5505	18783	1135	4.85	–	260	8.1	12.9	

变频 R32
Inverter R32

DC 变频双缸 DC Inverter — **测试条件：SEER 60Hz Test Condition: SEER 60Hz**

KTN110D42UFZ	11.0	4350	14842	885	4.92	–	250	8.1	12.9	
KTN150D30UFZ	14.9	5940	20267	1250	4.75	–	280	8.1	12.9	
KTM180D57UMT	17.6	7155	24413	1540	4.65	–	300	9.8	16.2	
KTM240D43UMT	24.0	9805	33455	2065	4.75	–	300	9.8	16.2	
KTF310D43UMT	30.8	12775	43588	2765	4.65	–	335	9.8	16.2	
KTF400D64UMV	39.8	16530	56400	3520	4.70	–	365	9.8	16.2	
KTQ420D1UMU	41.5	17300	59028	3640	4.75		406	9.8	16.2	

热泵采暖压缩机
HEAT PUMP COMPRESSOR FOR HEATING



产品特点
Product features

低温无阻 Unlimited Low Temperature Start
压比可达16.3，较常规压缩机大幅提升，实现−25°C 超低温出色启动，出水温度可达60°C；
Excellent start-up at an extremely low temperature of -25°C, the compression ratio reach 16.3, outlet water at 60°C;

高效无阻 Unlimited High Efficiency
采用柔性喷气技术，智能适应系统，大幅提升低温制热效率及制热水能力；
A flexible intelligent adaptive system leads to an exceptional improvement of energy efficiency, thus an effective solution of heat loss at an extremely low temperature.

工况无阻 Unlimited Operating Conditions
实现全频段高效率喷气，运行范围宽广，适应各恶劣工况，强劲制热；
Wide operating range for various demanding conditions.

匹配无阻 Unlimited Matching
提供成熟的电控配套支持技术，为客户提供一站式的热泵采暖解决方案。
Electrically controlled supporting facilities provide a one-stop heating solution.

热泵采暖压缩机
HEAT PUMP COMPRESSOR FOR HEATING

代表机型 Typical model	排量 Displ. (cc)	制热量 Heating Capacity (W)	(Btu/h)	功率 Power (W)	能效比 COP (W/W)	电容 Capacitor (μF/V)	压缩机高度 Compressor Height (mm)	排气管内径 Discharge Pipe ID (mm)	回气管内径 Sucition Pipe ID (mm)	备注 Remark

非喷气变频 R410A
DC inverter without EVI

测试条件：SEER 60Hz Test Condition: SEER 60Hz

ASK75D43UEZA	7.5	2807	22737	582	4.82	–	238	8.1	9.8	
ASN108D22UFZ	10.8	4100	13989	840	4.88	–	252	8.1	12.9	
ASN140D30UFZ	14.0	5315	18135	1120	4.75	–	260	8.1	12.9	
EATF250D22UMT	25.1	9725	33182	2080	4.68	–	333	9.8	16.2	
EATF400D64UMV	39.8	15650	53398	3365	4.65	–	365	9.8	16.2	
ATF310D43UMT	30.8	12090	41251	2600	4.65		333	9.8	16.2	
ATQ420D1UMU	41.5	16470	56196	3510	4.70		405	9.8	16.2	
ATQ580D66UNT	58.0	23660	80728	4910	4.82		430	12.9	22.2	

喷气变频 R410A
DC inverter EVI

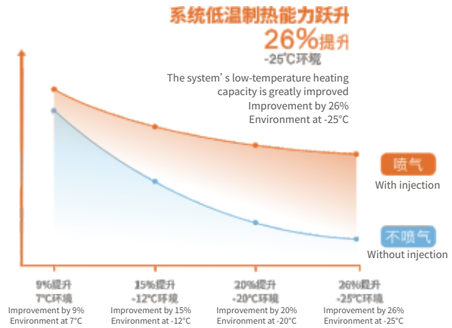
测试条件：SEER 60Hz Test Condition: SEER 60Hz

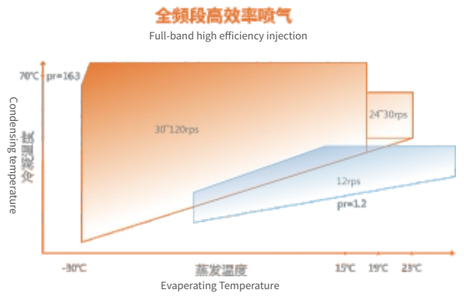
EAQN108D22UFZ	10.8	4015	13699	855	4.70	–	262	8.1	12.9	
EAPN150D30UFZ	14.9	5520	18834	1175	4.70	–	280	8.1	12.9	
EAPM240D57UMT	24.0	9030	30810	1980	4.56	–	300	9.8	16.2	
EAPF420D64UMU	41.9	16435	56076	3560	4.62	–	365	9.8	16.2	
EAPQ580D66UNT	58.0	23530	80284	4880	4.82	–	430	12.9	16.2	

定速喷气 R410A
Fix speed EVI

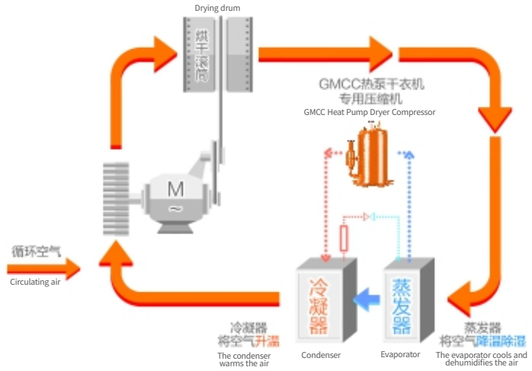
测试条件：ASH Test Condition: ASH

EAPG310V1SMT	31.0	10305	35161	2695	3.82	–	380	9.8	16.2	
EAPQ420V1SMT	42.0	10960	37396	3580	3.90	–	406	9.8	16.2	
EAPQ420Y1SMT	42.0	13795	47069	3535	3.90	–	406	9.8	16.2	
EAPQ480Y1UMU	48.0	15650	53398	3980	3.95		406	9.8	16.2	开发中





热泵干衣机压缩机
HEAT PUMP DRYER COMPRESSOR



产品特点
Product features

高能效 High energy efficiency
马达系统全新设计，大幅提高压缩机能效；优化负荷点设计，达到欧洲A++以上能效水平；较冷凝式干衣机省电40%以上；

The new design of the motor system greatly improves the energy efficiency of the compressor; optimizes the load point design to achieve the energy efficiency level above A++ in Europe; and saves more than 40% of electricity compared to condensing dryers;

高轻便 Highly portable
应用小型DC电机，高功率密度、小型化；泵体优化，机身本体高度降低21mm；可满足多款热泵干衣机安装要求；

Application of small DC motor, high power density, and miniaturization; pump body optimization, body height reduced by 21mm; and able to meet the installation requirements of a variety of heat pump dryers;

高可靠 High reliability
通过Max冷凝温度75℃负荷检测；满足热泵干衣机5000小时以上满载运行；负荷工况下，保证10年正常运转寿命。

It has passed the load detection with a Max. condensing temperature of 75°C; it satisfies the full-load operation of the heat pump dryer for more than 5,000h; under the load condition, it guarantees the normal operating life of 10 years.

热泵干衣机压缩机
HEAT PUMP DRYER COMPRESSOR

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 (μF/V)	压缩机高度 Compressor Height (mm)	排气管内径 Discharge Pipe ID (mm)	回气管内径 Sucition Pipe ID (mm)	备注 Remark

R134a
1 ϕ ~50Hz~220V/240V

测试条件：HPD Test Condition:HPD

RJSK68V11TZEW	6.8	1190	4060	390	3.05	15/370	210	6.5	9.8	
RJSK75V13TZQB	7.5	1340	4572	445	3.01	15/370	225	8.1	9.8	
RJSK82V11TZR	8.2	1465	4999	455	3.22	15/370	231	8.1	9.8	
RJSK89V13TZF	8.9	1555	5306	522	2.98	15/370	220	8.1	9.8	
RJSN68V2TZRA1	6.8	1205	4111	365	3.30	15/370	226	8.1	9.8	
RJSN68V3TZRA3	6.8	1175	4009	348	3.38	10/370	220	8.1	9.8	
RJSN82V2TZZ1	8.2	1479	5046	435	3.40	15/370	226	6.5	9.8	
RJSN82V3TZZ3	8.2	1479	5046	429	3.45	10/370	220	6.5	9.8	
RJSN118V1TZZA1	11.7	2120	7233	633	3.35	15/370	226	8.1	9.8	

R134a
1 ϕ ~60Hz~208/230V

测试条件：HPD Test Condition:HPD

RJSK75N11TZR	7.5	1662	5671	536	3.10	20/370	220	6.5	9.8	
RJSN82N1TZZ3	8.2	1730	5903	525	3.30	15/370	220	6.5	9.8	

R134a
DC

测试条件：HPD Test Condition:HPD

RJSK75D06TZE	7.5	1675	5715	438	3.82	-	195	8.1	9.8	

R290
1 ϕ ~50Hz~220V/240V

普通型 Normal type
测试条件：HPD Test Condition:HPD

RDSK68V11TZR	6.8	1375	4692	432	3.18	15/370	231	8.1	9.8	
RDSK75V11TZE	7.5	1520	5186	510	2.98	20/370	231	8.1	9.8	
RDSN65V11TZR3	6.5	1335	4555	394	3.39	15/370	234	8.1	9.8	
RDSN68V11TZR	6.8	1400	4777	428	3.27	20/370	234	8.1	9.8	
RDSN71V11TZR	7.1	1460	4982	442	3.30	20/370	234	8.1	9.8	
RDSN78V11TZR	7.8	1625	5545	488	3.33	20/370	234	8.1	9.8	
RDSN82V11TZE	8.2	1710	5835	510	3.35	20/370	234	8.1	9.8	

R290
1 ϕ ~50Hz~220V/240V

快速干衣型 Quick drying type
测试条件：HPD Test Condition:HPD

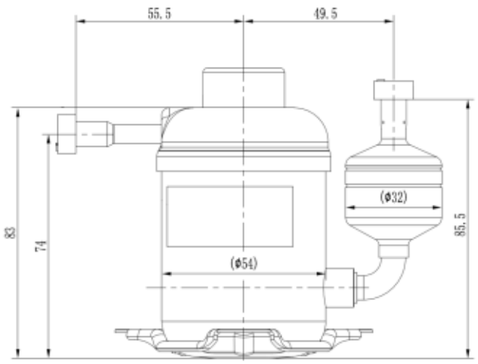
RDSK57V11EZQ	5.7	1170	3992	375	3.12	15/370	231	8.1	9.8	
RDSN68V11EZZ	6.8	1400	4777	432	3.24	20/370	234	8.1	9.8	
RDSN65V11EZZD3	6.5	1365	4657	390	3.50	15/370	234	8.1	9.8	
RDSN71V11EZZ	7.1	1460	4982	445	3.28	20/370	234	8.1	9.8	
RDSN71V11EZR3	7.1	1440	4913	427	3.37	15/370	234	8.1	9.8	
RDSN78V11EZZ	7.8	1625	5545	490	3.32	20/370	234	8.1	9.8	

R450A
1 ϕ ~50Hz~220V/240V

测试条件：HPD Test Condition:HPD

RJSK89V13TZR	8.9	1415	4828	475	2.98	15/370	220	8.1	9.8	
RJSN68V2TZRA1	6.8	1090	3719	332	3.28	15/370	226	8.1	9.8	
RJSN68V3TZRA1	6.8	1075	3668	318	3.38	10/370	220	8.1	9.8	
RJSN82V2TZRA1	8.2	1335	4555	415	3.22	15/370	226	6.5	9.8	
RJSN118V11TZZW1	11.8	2140	7302	674	3.18	15/370	228	8.1	9.8	

微型压缩机
MICRO COMPRESSOR



产品特点
Product features

无“微”不至 “Micro” is everywhere
适用领域广，精准热管理;
Wide range of applications, and precise thermal management;

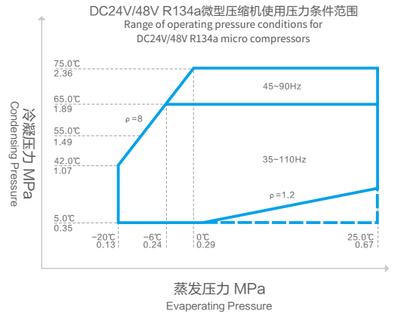
电压齐全 Complete voltage
DC12~48V电源全覆盖;
DC12~48V power supply full coverage;

小巧玲珑 Small and exquisite
极致小体积，轻重量（低至0.8kg）;
Extremely small size, and light weight (light to 0.8kg);

高效节能 Energy efficient
全新泵体搭配12槽10极电机，效率高、噪音低、运行平稳;
New pump body equipped with a 12-slot 10-pole motor for high efficiency, low noise and smooth operation;

安全可靠 Safe and reliable
累计超过15万小时可靠性评价，大电流容量一体化端子设计，壳体激光焊先进制造工艺。
Accumulated more than 150,000 hours of reliability evaluation, adopting the design of integrated terminal with high current capacity, and the advanced manufacturing process of shell laser welding.

DC24V/48V R134a微型压缩机使用压力条件范围
Range of operating pressure conditions for DC24V/48V R134a micro compressors



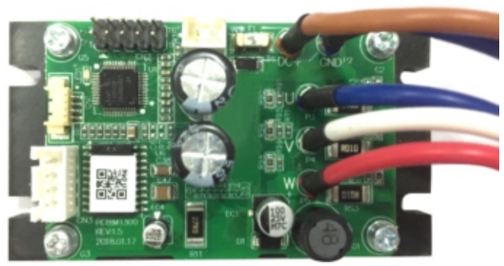
蒸发压力 MPa
Evaperating Pressure

微型压缩机
MICRO COMPRESSOR

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)	电压 Voltage	额定电流 Rated Current (A)	额定转速 Rated Speed (Hz)	频率范围 Frequency Range (Hz)	备注 Remark
R134a										
DC变频 DC Inverter										测试条件：ASH 75Hz Test Condition: ASH 75Hz
JSV07D24TZB	0.7	105	358	53	2.00	DC 24V	2.25	75	35~110	
JSV14D13TZB	1.4	220	751	91	2.42	DC 12V	7.40	75	35~80	
JSV14D24TZB	1.4	220	751	91	2.42	DC 24V	3.77	75	35~110	
JSV14D42TZB	1.4	220	751	88	2.50	DC 48V	1.82	75	35~110	
JSV20D13TZB	2.0	330	1126	150	2.20	DC 12V	12.5	75	35~80	
JSV20D24TZB	2.0	330	1126	135	2.45	DC 24V	5.62	75	35~110	
JSV20D42TZB	2.0	332	1133	125	2.66	DC 48V	2.60	75	35~110	

驱动
Driver

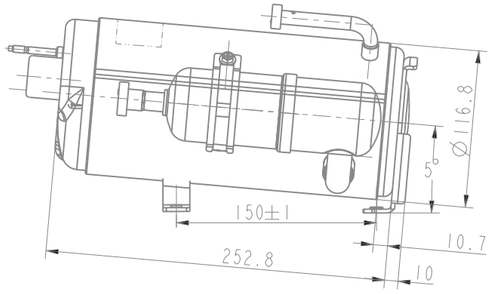
电控
Electronic control



电控
Electronic control

驱动板转接线
Driver board patch cord

卧式压缩机（用于房车、冷冻冷藏等领域）
HORIZONTAL COMPRESSOR (FOR RV AND REFRIGERATION, ETC.)



产品特点
Product features

高效节能 Energy efficient

房车空调专用卧式压缩机，制冷出色同时更低能耗；

Horizontal compressor for RV air conditioners, with excellent refrigeration and lower energy consumption;

可靠稳定 Reliable and stable

卧式压缩机专利供油技术，零部件润滑充分，保证可靠性；

Patented oil supply technology for horizontal compressors, fully lubricated parts and guaranteed reliability;

高度适应 Highly adaptive

结构优化，适用于车载、冷柜等有高度限制领域。

Structure optimization, suitable for fields with limited heights such as vehicles and freezers.

卧式压缩机（用于房车、冷冻冷藏等领域）
HORIZONTAL COMPRESSOR (FOR RV AND REFRIGERATION, ETC.)

房车空调压缩机
RV A/C Compressor

R410A 220V~240V/50Hz — 测试条件：ASH Test Condition: ASH

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 (μF/V)	压缩机高度 Compressor Height (mm)	排气管内径 Discharge Pipe ID (mm)	回气管内径 Sucition Pipe ID (mm)	备注 Remark
AHM89V11UDA	8.9	2170	7404	708	3.05	25/370	151	8.1	9.8	
AHM100V11UDA	10.0	2525	8615	805	3.13	20/370	151	8.1	9.8	
AHM113V1UDA	11.3	2781	9489	903	3.08	35/370	151	8.1	9.8	
AHM130V1UDA	13.0	3170	10816	1040	3.02	40/370	151	8.1	9.8	
AHM71V11UZC	7.1	1718	5862	580	2.94	20/370	151	8.1	9.8	
AHM100V11UZC	10.0	2340	7984	786	3.02	20/370	151	8.1	9.8	
AHM71V11UDC	7.1	1718	5862	580	2.94	25/370	151	8.1	9.8	
AHM89V11UDC	8.9	2170	7404	708	3.05	25/370	151	8.1	9.8	
AHM113V1UDC	11.3	2781	9489	903	3.08	35/370	151	8.1	9.8	
AHM130V1UDC	13.0	3170	10816	1040	3.02	40/370	151	8.1	9.8	

R410A 1φ-60Hz-115V — 测试条件：ASH Test Condition: ASH

AHM89E11UDA	8.9	2635	8991	855	3.08	70/250	151	8.1	9.8	
AHM113E1UDA	11.3	3345	11413	1125	2.97	60/250	151	8.1	9.8	
AHM130E1UDA	13.0	3850	13136	1270	3.03	70/250	151	8.1	9.8	
AHM113E1UDC	11.3	3300	11260	1120	2.95	60/250	151	8.1	9.8	

R134a 1φ-60Hz-115V — 测试条件：ASH Test Condition: ASH

JHM240E1UDC	24.0	3300	11260	1030	3.00	60/250	151	8.1	9.8	▲

冷冻冷藏领域压缩机
Refrigerated Compressor

R404A 1φ-50Hz-220/240V — 测试条件：冷冻冷藏测试工况 Test Condition:ASH ☆

PS130H1C-4WADA	13.0	840	2866	615	1.37	25/370	276.7	8.2	12.9	
PS195H1C-4WADA	19.6	1295	4419	925	1.40	30/400	285.7	8.2	12.9	

CO_2
DC — 测试条件 Test Condition △

LCSM50D55WFT	5.0	2525	8615	1493	1.69	–	284	6.53	8.1	▲

测试条件 Test Condition △

蒸发温度 -10°C
Evaporating temperature

吸气温度 0°C
Suction temperature

排气压力 9 Mpa
Discharge pressure

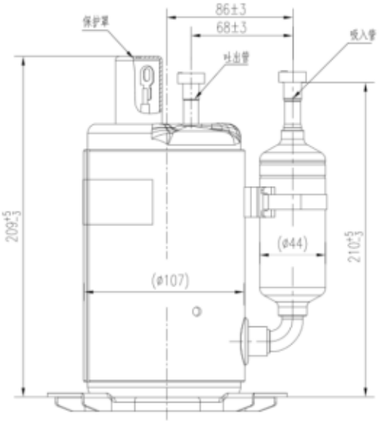
阀前温度 35 °C
Pre-valve temperature

环境温度 35°C
Ambient temperature

转速 60 rps
Rotating speed

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

卡车驻车空调压缩机
TRUCK PARKING AIR CONDITIONER COMPRESSOR



产品特点
Product features

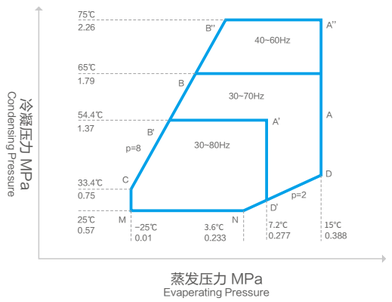
低电压 Low voltage
24V卡车驻车空调压缩机，DC24~48V电源电池适用;
24V Truck Parking Air Conditioner Compressor, applicable to DC24~48V power supplies and batteries;

高寿命 Long life
累计超过20万小时可靠性评价;
Accumulated more than 200,000 hours of reliability evaluation;

小身材 Small size
立式最大高度低至210mm，卧式最大高度120mm以内;
The maximum height of the vertical type is as low as 210mm, and the maximum height of the horizontal type is less than 120mm;

大能量 High energy
高效泵体搭配高效电机，高能效、高可靠性、低噪音
适用多种运输路况。
High-efficiency pump body equipped with high-efficiency motor, with high energy efficiency, high reliability, and low noise, which is suitable for a variety of transportation road conditions.

R134a/24V 卡车驻车空调系统运行范围
R134a/24V Operating range of R134a/24V Truck Parking Air Conditioning System



卡车驻车空调压缩机
TRUCK PARKING AIR CONDITIONER COMPRESSOR

代表机型 Typical model	排量 Displ. (cc)	制冷量 Cooling Capacity (W) I (Btu/h)		功率 Power (W)	能效比 COP (W/W)	电容 Capacitor (μF/V)	压缩机高度 Compressor Height (mm)	排气管内径 Discharge Pipe ID (mm)	回气管内径 Sucition Pipe ID (mm)	备注 Remark
R134a										
R134a 24V DC Inverter 卧式							测试条件：ASH 60Hz		Test Condition: ASH 60Hz	
JHN140D17TZC	14.0	2040	6961	628	3.25	–	140	8.1	9.8	
JZM180D17TZC	18.0	2620	8939	810	3.25	–	155	8.1	9.8	▲
R134a 24V DC Inverter 立式							测试条件：ASH 60Hz		Test Condition: ASH 60Hz	
JSN140D17TBZ	14.0	2035	6945	615	3.30	—	210	8.1	9.8	
JSN140D17TBZQ	14.0	2040	6961	628	3.25	—	210	—	—	螺纹接口

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

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								
冷媒 Refrigerant	电源 Power	kw	0.5	0.8	1.0	1.2	1.5	2.0	2.5	3.0
		kBtu/H	1.7	2.7	3.4	4.1	5.1	6.8	8.5	10.2
R134a	24V DC 变频 立式						●——○			
R134a	24V DC 变频 卧式						●——○			

● 已开发 Developed　○ 开发中 Developing

机柜空调压缩机
CABINET AIR CONDITIONER COMPRESSOR

R134a
1φ-50Hz-220V 定速机型 Constant speed model — **测试条件：ASH 75Hz Test Condition：ASH 75Hz**

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 (μF/V)	压缩机高度 Compressor Height (mm)	排气管内径 Discharge Pipe ID (mm)	回气管内径 Sucition Pipe ID (mm)	备注 Remark
JSK64V16UZH	6.4	740	2525	290	2.55	15/370	192	6.5	6.5	
RJSK68V11TZEW	6.8	925	3156	290	3.19	15/370	210	6.8	9.8	
RJSK75V13TZLB	7.5	990	3378	315	3.14	15/370	225	8.1	9.8	
RJSK89V13TZR	8.9	1090	3719	380	2.87	15/370	220	8.1	9.8	
RJSN118V1TZZA1	11.7	1430	4879	480	2.98	15/370	227	8.1	9.8	
RJSM125V1WFZ	12.5	1525	5203	500	3.05	20/370	290	8.1	12.9	
RJSM160V11WFZ	15.8	1930	6585	630	3.06	25/370	290	8.1	12.9	
PJ160G1C-4DZ	16.0	1800	6142	580	3.10	25/370	294	8.2	9.8	
PJ215G1C-4FT	21.5	2620	8939	875	2.99	30/370	294	8.1	12.9	
PJ250M2C-4FT	25.0	3050	10407	1020	2.99	35/370	292	8.1	12.9	
PJ340M2C-4KU	34.0	4150	14160	1380	3.01	40/370	348	9.8	12.9	

R134a
DC 48V — **测试条件：ASH 75Hz Test Condition: ASH 75Hz**

JSV14D42TZB	1.4	220	751	88	2.50	–	83	6.15	6.50	
JSV20D42TZB	2.0	332	1133	125	2.66	–	83	6.15	6.50	

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	ASH☆	HPWH	SEER 60
冷凝温度 Condensing Temp.℃	54.4	46.0	54.4	54.4	60.0	42.3
过冷液温度 Liquid Temp.℃	46.1	41.0	46.1	32.2	50.0	34.3
蒸发温度 Evaporating Temp.℃	7.2	10.0	7.2	-23.3	10.0	2.7
吸气温度 Suction Temp.℃	18.3	18.0	35.0	32.2	20.0	12.8
环境温度 Ambient Temp.℃	35.0	35.0	35.0	35.0	35.0	35.0
排气温度 Discharge Temp.℃			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 ☆ ASH冷冻冷藏专用测试工况 ASH refrigeration test condition ▲ 热泵热水专用机种测试工况 Testing conditions for special heat-pump water heater compressor					

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