



2019 COMPRESSOR FOR RAC&CAC  
家用、商用空调压缩机

产品手册 PRODUCT MANUAL

创新科技 卓越智造  
CREATIVE TECH MADE IN WISDOM



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# 企业简介 | Company Profile

## 企业概况 Company Introduction

珠海凌达压缩机有限公司始建于1985年，是家集研发、生产、销售、服务于一体的空调压缩机专业生产企业，同时也是我国家用空调压缩机业内较早且少有具有规模化、专业化的民族企业。2004年成为珠海格力电器股份有限公司全资控股子公司。公司致力于打造引领压缩机行业的绿色环保高新技术企业，目前拥有五大生产基地，三个办事处，公司现有员工10000余人，其中技术管理人员1300余人，专职从事研发人员有600余人，压缩机年产能达6000万台。

Founded in 1985, Zhuhai Landa Compressor Co., Ltd is an enterprise specialized in R&D, production, sales and services of air conditioner compressor, and also a large-scale and professional domestic air conditioner compressor manufacturer. In 2004, Landa became a subsidiary wholly owned by Gree Electric Appliances Inc. of Zhuhai.

Landa is committed to creating a high tech and green energy enterprise leading in the compressor industry. Nowadays, the company has 5 production bases, 3 offices and over 10,000 employees, including 1300 technical managers and more than 600 engineers, with annual capacity up to 60 million units.



## Development Milestone

### 发展历程

#### 1985年 凌达始建于1985年

##### 1985 Landa was founded in 1985

凌达是我国较早引入全封闭回转压缩机技术，也是我国少有的具有规模化、专业化的空调压缩机生产企业。

Landa is not only one of the first companies to introduce fully-hermetic rotary compressor technology, but also a large-scale and domestic AC compressor manufacturer.

#### 1986年 国内第一台Supearl滑片式回转压缩机诞生

##### 1986 The first domestic Supearl sliding-vane rotary compressor was born

1986年凌达投产国内第一台Supearl滑片式回转压缩机，生产设备全部由美国惠而浦(Whirlpool)公司引进。

In 1986, Landa started the production of Supearl sliding-vane rotary compressor with the equipment introduced from Whirlpool.

#### 1994年 国内第一代滚动转子式压缩机批量诞生

##### 1994 The first rolling rotary compressor was produced in batches

1992年从 Rotorex引进具有国际先进水平的滚动转子式压缩机技术。从美国、日本引进先进的机加工设备与精密检测仪器。

In 1992, Landa introduced the rolling rotary compressor technology with international level from Rotorex, and advanced processing equipment and precision testing instruments from U.S. and Japan.

#### 2004年 由格力电器股份有限公司全资控股

##### 2004 Wholly-owned by Gree Electric Appliances, Inc. of Zhuhai

珠海格力电器股份有限公司正式全资控股珠海凌达压缩机有限公司，同年公司导入格力卓越绩效管理模式，全面提升管理及研发水平。

In 2004, Landa was wholly owned by Zhuhai Gree Electric Appliances Inc., and brought in Gree's Excellent Performance Mode to improve management and R&D level in the same year.

#### 2010年 首家将R290产品推向市场的企业

##### 2010 The first enterprise marketing R290 products

2010年9月R290工质空调器及其压缩机取得了全球第一张VDE认证证书，2011年，新型环保冷媒R290产品凭借其节能环保等先进技术入选国家火炬计划

R290 refrigerant air conditioner and R290 compressor obtained the world's first VDE Certificate in September 2010.

In 2011, the new R290 project was listed in National Torch Plan.

#### 2013年 四大生产基地投产，产能得到飞跃式提升

##### 2013 4 production bases put into production with higher output

暨龙山一、二期竣工投产后，合肥、郑州、重庆、武汉四大生产基地也相继建成投产，产能从600万台飞跃至3800万台。

The bases went into production in succession after the completion of the 1st and 2nd stage construction of Longshan factory with the rocketing production capacity from 6 million to 38 million units.

#### 2016年 涡旋压缩机分厂建成投产

##### 2016 Scroll compressor factory put into operation.

2016年，凌达涡旋分厂建成投产。

2016 Landa Scroll Branch Plant was built and put into production.

#### 2018年 产能突破6000万台

##### 2018 Annual capacity reaches 60 million units

为了适应市场需求，凌达通过对产线的优化和增加柔性生产线的方式，将公司产能提升至6000万台。

In order to meet the market demands, Landa optimized the production line and added flexible manufacturing system to increase the capacity to 60 million units.





## Company Honors 企业荣誉

凌达已成为行业一线品牌，多项设计获得国际技术专利，其中三缸双级变容压缩技术属国际首创，拥有完全自主知识产权。

As the industry leader, many designs of Landa have been awarded as international patents. Especially, the three-cylinder two-stage variable displacement compression technology is original in the world, with complete independent intellectual properties.

在不断追求卓越的道路上，珠海凌达也得到社会各级政府及协会的认可，获得了包括“国家知识产权示范企业”、“全国质量奖（鼓励奖）”、“全国质量标杆”、“中国轻工百强”“广东省政府质量奖”、“广东省重点企业技术中心”、“广东省工程技术研究中心”、“广东省知识产权示范企业”、“广东省名牌产品”、“珠海市市长质量奖”等多项荣誉。

On the way to pursue excellence, Zhuhai Landa has obtained numerous honors with the recognition of the governments and associations, such as National Intellectual Property Demonstration Enterprise, Honorable Mention of National Quality Award, National Quality Benchmarking Enterprise, Top 100 Enterprises in National Light Industry, Guangdong Governmental Quality Award, Guangdong Key Enterprise Technical Center, Guangdong Engineering Technology Center, Guangdong Intellectual Property Demonstration Enterprise, Guangdong Famous Brand, Zhuhai Mayor Quality Award, etc.





## Leading Technology 领先技术

截至2018年12月31日，公司已向国家知识产权局提交并获受理的专利申请 1658余项,其中发明专利599项,实用新型1054项，外观5项。已获得授权的发明专利183项、实用新型669项、外观5项。

As of December 31, 2018, Landa has submitted more than 1,658 patent applications to the State Intellectual Property Office, including 599 invention patents, 1,054 utility model patents and 5 appearance patents, among which there are 183 invention patents, 669 utility model patents and 5 appearance patents have been authorized.

凌达作为行业领军企业，目前拥有双级喷液（冷冻冷藏）技术、无稀土磁阻变频技术、双级增焓技术、三缸双级变容技术等多项国际领先技术。

Landa has enjoyed a top name in the compressor industry with a number of advanced technologies, including two-stage liquid-injection (freezing& refrigeration) technology, rare earth-free reluctance inverter technology, two-stage enthalpy-increasing technology and three-cylinder two-stage variable displacement technology, etc.



## Quality Management 质量管理



凌达以质量第一为导向进行全员、全过程、全方位的质量管理。提炼出具有凌达特色的“三无”管理方针：零故障、零售后、零下线。

Take quality first as the guide, with all staff participation, whole process control and all-round development mode as the quality policy, Landa has extracted the “three-zero” management targets: zero down-line, zero failure and zero after-sales.

- 1) 零故障：关注市场客户故障，快速响应并分析推进内部改善，同步也关注与压缩机关联的空调故障原因，拉近市场距离，积极、及时、主动发现分析解决故障点直至“零”故障。

Zero failure: Respond quickly to the failures to promote the internal improvements, meanwhile, dig into the causes of AC failures associated with the compressor, shorten the market distance, actively and timely to find and analyze the fault points until achieve zero failure.

- 2) 零售后：强调技术研发、强调思维创新，提出创新的售后管控方式，加大检测技术创新的研发和投入，提高出厂检验能力，达成“零售后”。

Zero after-sales: Combine the technical R&D with innovative thinking, propose innovative after-sales control methods, increase technical input, to improve the delivery inspection and achieve "zero after-sales".

- 3) 零下线：细化质量异常等级，建立异常处理责任等级对应制度，重点关注一二级异常事故，关键岗位建立“零缺陷”制度，深化细化基础管理，逐步减少一二级事故，零化三四级事故，直至实现“零”下线。

Zero down-line: Refine the abnormal grades, build the corresponding system for exceptional handling, and focus on level I & II accident. Meanwhile, set up a non-defect system and deepen the basic management to gradually reduce level I & II accidents while eliminate level III & IV.





## 产品介绍

# Product Introduction

凌达目前已有产品系列从P到H共十三个系列，涵盖定频、直流变频、不同电源、不同工质、双转子、涡旋式等高效节能环保产品800余个型号。产品涵盖家用空调、商用空调、冷冻冷藏、干衣机、除湿机、微型制冷、车载空调、采暖设备等应用领域；多种冷媒可选，包括R22，R410A，R134a，R404，R32，R290，R600a等，为客户提供多样化的选择。

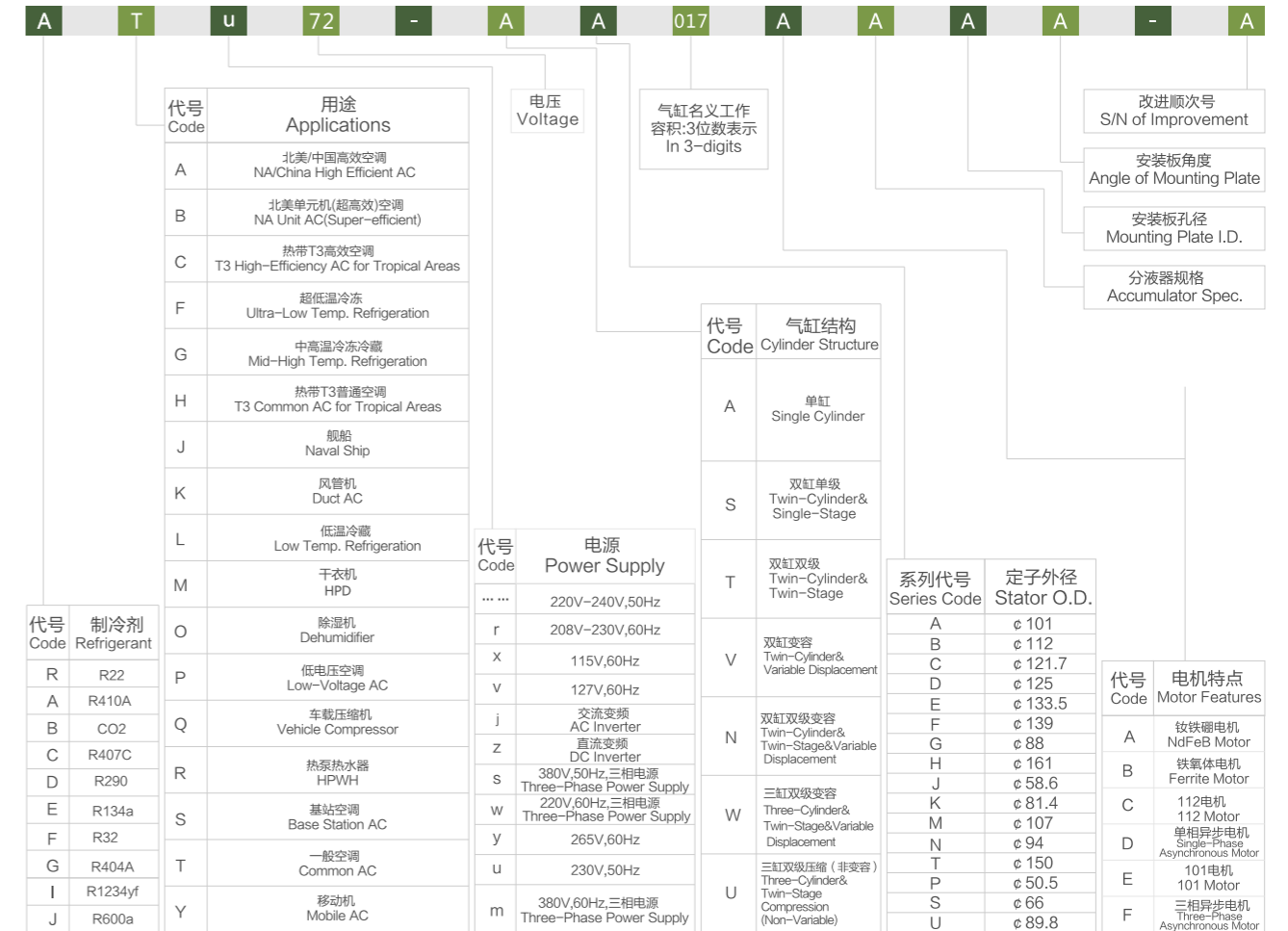
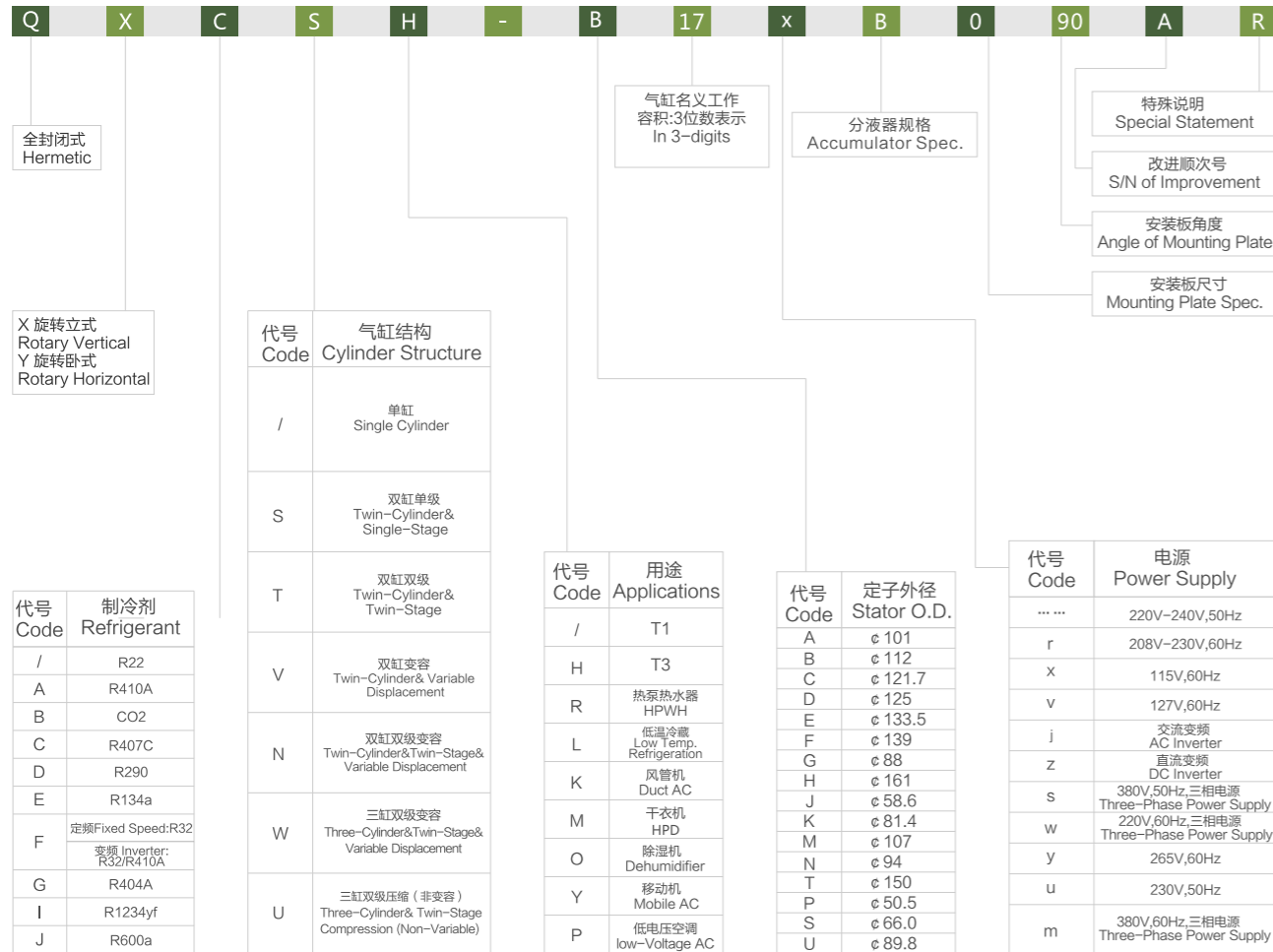
为满足市场需要，我司依靠省级企业技术中心平台、结合国内外创新资源、致力于更高效的定频、变频压缩机和涡旋定变频压缩机等高端机的拓展研发。

So far, Landa products cover 13 series, range from Series P to Series H with more than 800 models including fixed speed, DC inverter, different power supplies, different refrigerants, twin cylinder, and scroll types. The products are applicable to RAC, CAC, freezing& refrigeration, HPD, dehumidifier, micro-refrigeration, VAC and heating equipment, etc. Refrigerants are available in various types, including R22, R410A, R134a, R404, R32, R290, R600a, etc., to provide customers with diversified sources.

In order to meet the market demands, Landa relies on provincial enterprise technical center, combining domestic and foreign innovative resources to R&D the high-end products such as fixed speed and inverter compressor with higher efficiency, scroll fixed speed and inverter compressor.

# Rotary Compressor —— 旋转式压缩机

# Product Naming Rules 产品命名规则



## ► Test Conditions for Rotary Compressor 旋转式压缩机测试工况

适用工况 Applicable Working Conditions	冷凝温度°C Condensing Temp.	蒸发温度°C Evaporating Temp.	过冷度°C Supercooling Degree	吸气温度°C Suction Temp.	环境温度°C Ambient Temp.
ASHRAE/T	54.4	7.2	8.3	35	35
高性能工况 High-performance Condition	46	7.2	8.3	18.3	35
北美高能效工况 High-energy/efficiency Condition for North America	45	12	5	24	35
干衣机工况 HPD condition	70	25	9	35	35
冷冻冷藏工况 Freezing/Refrigeration Condition	54.4	-23.3	22.2	32.3	32.2
变频工况 60Hz Inverter Condition 60Hz	46	10	5	18	35



家用空调压缩机  
Compressor for RAC

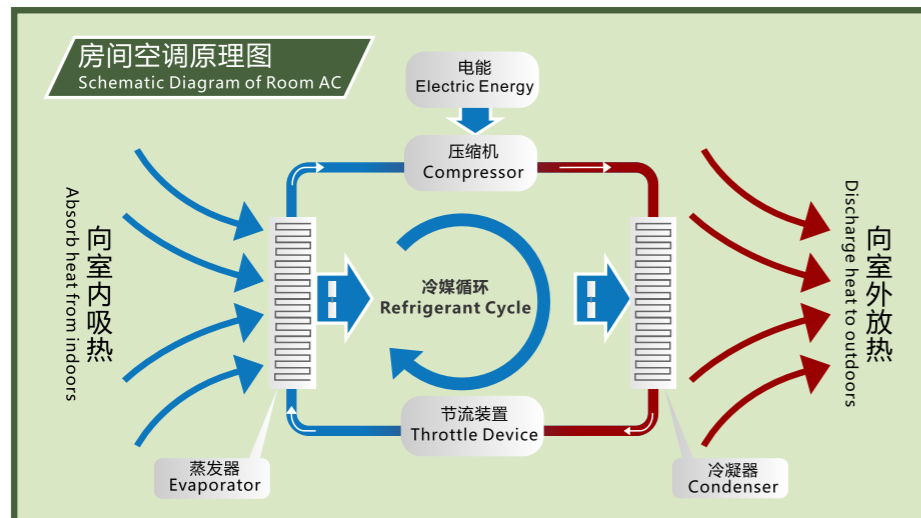




### 家用空调压缩机制冷原理 Refrigeration Principle of RAC Compressor

低温低压气态冷媒进入压缩机，通过压缩机压缩后，形成高温高压气态冷媒；然后通过冷凝器，在轴流风扇的作用下，向室外放热，形成中温高压液态冷媒；然后通过膨胀阀（或毛细管），形成中温低压气液混合冷媒；最后通过蒸发器，在风扇作用下，从室内吸热，形成低温低压气态冷媒。

Low temp. and low pressure gas refrigerant enters the compressor to form a high temp. and high pressure refrigerant after compressed by the compressor; then, through the condenser, under the action of the axial flow fan, heat is released to the outside to make a medium-temp. high-pressure liquid refrigerant; after that, forming a medium-temp. low-pressure gas-liquid mixed refrigerant through the expansion valve( or capillary); and finally, the evaporator and fan absorb heat from the room to generate a low temp. and low pressure gas refrigerant.



### 家用空调压缩机型谱 RAC Model Spectrum

定频压缩机 Fixed Speed Compressor											
产品类别 Product Category			压缩机能力范围 Capacity Range								
冷媒 Refrigerant	频率 Frequency	电压V Voltage	BTU/h	6825	13650	20480	27300	34125	40950	47750	54600
			W	2000	4000	6000	8000	10000	12000	14000	16000
R22	50Hz	220V-240V		A	B	D	SF				
		380V/3φ		M	C	F					
	60Hz	115V			B			SF		SH	
		127V		A							
	50Hz	208V-230V			B		D	F			
		220V-240V (T3)					F	SF			
	230V			B		D					
R410A	50Hz	220V-240V		A	B	D	E/F				
		135V-270V		M	C		SF				
		380V/3φ			B		F			SH	
	60Hz	115V		G	A	B					
		127V									
		208V-230V			A	B	D	SF			
50Hz	208V-230V ( T3 )			M	C						
	220V-240V (T3)			B		C	D	E/F			
	230V			C		D	E/F				
R134a	50Hz	220V-240V		G	B						
R404A	50Hz	220V-240V			A						
R32	50Hz	220V-240V		D	C		SF				
R290	50Hz	220V-240V		A	M	C	D				
R407C	50Hz	220V-240V			B			E/F			
	60Hz	380V/3φ		C		D	E/F				

变频压缩机 Inverter Compressor											
产品类别 Product Category			压缩机能力范围 Capacity Range								
冷媒 Refrigerant	频率 Frequency	电压V Voltage	BTU/h	6825	13650	20480	27300	34125	40950	47750	54600
			W	2000	4000	6000	8000	10000	12000	14000	16000
R410A	15-120Hz	DC		A/N			SD				
				B							
				M							
R32	15-120Hz	DC			SM						
				A		SB		SD			
				B							

### ① 新环保冷媒压缩机 New Eco-friendly Refrigerant Compressor

#### 产品特点 Product Features

R32压缩机产品特点 Product Features of R32 Compressor	R32明星产品 QXFS-H446s R32 Star Product QXFS-H446s
<ul style="list-style-type: none"> <li>●环保冷媒：臭氧层破坏潜能ODP=0 Eco-friendly refrigerant: ODP=0</li> <li>●低碳冷媒：GWP=675，为R410A冷媒的32% Low carbon refrigerant: GWP=675, which is 32% of R410A refrigerant</li> <li>●应用范围：压缩机广泛应用于内销、泰国、澳洲空调 Application range: Compressor is widely applied to ACs in domestic, Thailand and Australia</li> <li>●长寿命：设计寿命达10年 Long service life: Design life of 10 years</li> <li>●高效能：同系统配置由R410A压缩机改为R32压缩机，制冷量提升10%能效提升5% Energy-efficient: The same system configuration changed from R410A compressor to R32 compressor, increasing cooling capacity by 10%, and energy efficiency by 5%.</li> </ul>	<ul style="list-style-type: none"> <li>●应用范围：国内首款批量R32冷媒5匹机 Application range: China's first mass-produced R32 refrigerant 5HP ACs</li> <li>●认可度高：出货量超20万台 High recognition: Shipments exceed 200,000 units</li> <li>●低故障率：售后故障率较涡旋机低80% Low failure rate: After-sales failure rate is 80% lower than the scroll compressor that of the scroll compressor</li> <li>●专利产品：具有16项专利技术 Patented product: 16 patented technologies.</li> </ul>



R290压缩机产品特点 Product Features of R290 Compressor	R290明星产品 QXD-A121 R290 Star Product QXD-A121
<ul style="list-style-type: none"> <li>●环保冷媒：臭氧层破坏潜能ODP为零 Eco-friendly refrigerant: ODP=0</li> <li>●绿色冷媒：GWP=0.03 Green refrigerant: GWP=0.03</li> <li>●应用范围广：可应用于空调，移动机，除湿机，热泵热水器，热泵干衣机，制冷饮水机，产品保鲜柜、展示柜等 Wide application range: It can be applied to AC, mobile AC, dehumidifier, HPWH, heat pump dryer, refrigeration water dispenser, product freezer and display cabinet, etc.</li> <li>●低噪声/低振动：噪声振动比R22/R410A低 Low noise/low vibration: Noise and vibration are lower than R22/R410A</li> <li>●高可靠性：专属设计冷冻油及保护装置 High reliability: Unique design for refrigeration oil and protection device.</li> </ul>	<ul style="list-style-type: none"> <li>●应用范围：除湿机，制冷饮水机 Application range: Dehumidifier, refrigeration water dispenser</li> <li>●认可度高：出货量超10万台 High recognition: Shipments exceed 100,000 units</li> <li>●高效能：小型化高效能，适用于紧凑系统 Energy-efficient: Miniaturized and energy efficient design for compact systems</li> <li>●低噪声/低振动：超静音无察觉运行 Low noise/low vibration: Ultra-quiet operation</li> <li>●政府支持：联合国多边基金支持项目 Government support: UN Multilateral Fund Support Project.</li> </ul>



### 压缩机型谱 Compressor Spectrum

新环保冷媒 New Eco-friendly Refrigerant											
产品类别 Product Category		压缩机能力范围 Capacity Range									
冷媒 Refrigerant	电源 Power Supply	BTU/h	2730	10492	18254	26017	33779	41541	49303	57066	64828
		W	800	3075	5350	7625	9900	12175	14450	16725	19000
R32	220-240V/50Hz	[Bar chart showing capacity range for R32 at 220-240V/50Hz]									
	380V/50Hz	[Bar chart showing capacity range for R32 at 380V/50Hz]									
R290	115V/60Hz	[Bar chart showing capacity range for R290 at 115V/60Hz]									
	220-240V/50Hz	[Bar chart showing capacity range for R290 at 220-240V/50Hz]									

### 新环保冷媒R32 (NewEco-friendly Refrigerant R32)

R32 T1 [1φ]220-240V 50Hz							
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)	电容 Capacitor (μF)
A	QXF-A040	4.0	3712	1088	293	3.71	15μF/450V
	QXF-A053	5.3	5060	1483	399	3.72	25μF/450V
	QXF-A058	5.8	5323	1560	420	3.71	20μF/450V
	QXF-A066	6.6	6398	1875	491	3.82	20μF/450V
	QXF-A071	7.1	7029	2060	560	3.68	25μF/450V
M	QXF-M082	8.2	7909	2318	580	4.00	25μF/450V
	QXF-M086	8.6	8308	2435	608	4.00	25μF/450V
	QXF-M088	8.8	8632	2530	645	3.92	25μF/450V
	QXF-M091	9.1	8871	2600	666	3.90	25μF/450V
	QXF-B092	9.2	8939	2620	647	4.05	25μF/450V
B	QXF-B098	9.8	9622	2820	696	4.05	30μF/450V
	QXF-B102	10.2	9997	2930	718	4.08	30μF/450V
	QXF-B117	11.7	11447	3355	822	4.08	30μF/450V
	QXF-B120	12.0	11686	3425	835	4.10	30μF/450V
	QXF-B129	12.9	12624	3700	911	4.06	30μF/450V
	QXF-B133	13.3	13034	3820	936	4.08	30μF/450V

R32 T1 [1φ]220-240V 50Hz							
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)	电容 Capacitor (μF)
C	QXF-C150	15.0	14740	4320	1041	4.15	30μF/450V
D	QXF-D175	17.5	17231	5050	1208	4.18	45μF/450V
	QXF-D184	18.4	18118	5310	1270	4.18	45μF/450V
	QXF-D193	19.3	19005	5570	1333	4.18	50μF/450V
E	QXF-E193	19.3	19175	5620	1338	4.20	45μF/450V
	QXF-E20	20.0	19755	5790	1385	4.18	55μF/450V
	QXF-E21	21.0	20643	6050	1476	4.10	55μF/450V
	QXF-E22	22.0	21649	6345	1548	4.10	60μF/450V
	QXF-E232	23.2	22808	6685	1630	4.10	60μF/450V
	QXF-E24	24.0	23594	6915	1666	4.15	60μF/450V
	QXF-E27	27.0	26560	7784	1876	4.15	60μF/450V
SE	QXFS-E270	27.0	26272	7700	1878	4.10	60μF/450V
	QXFS-E280	28.0	27228	7980	1945	4.10	60μF/450V
SF	QXFS-F265	26.5	26494	7765	1880	4.13	50μF/450V
	QXFS-F275	27.5	27264	7991	1935	4.13	50μF/450V
	QXFS-F325	32.5	32073	9400	2350	4.00	60μF/450V
	QXFS-F356	35.6	34973	10250	2615	3.92	60μF/450V

测试工况(Test Conditions):高性能工况 (High-performance Condition)

R32 T1 [3φ]380V 50Hz							
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)	电容 Capacitor (μF)
SF	QXFS-F265s	26.5	26443	7750	1824	4.25	/
	QXFS-F286s	28.6	28320	8300	1975	4.20	/
	QXFS-F41s	41.0	40944	12000	2965	4.05	/
	QXFS-F275s	27.5	27441	8042	1892	4.25	/
SH	QXFS-H446s	44.8	44800	13140	3110	4.23	/
	QXFS-H49s	49.0	49800	14600	3520	4.15	/
	QXFS-H59s	59.0	59700	17500	4220	4.15	/

测试工况(Test Conditions):高性能工况 (High-performance Condition)

R32 T1 [1φ]115V 60Hz							
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)	电容 Capacitor (μF)
A	QXF-A044x	4.4	5135	1505	385	3.91	35μF/250V
	QXF-A053x	5.3	6261	1835	469	3.91	45μF/250V
	QXF-A066x	6.6	7882	2310	570	4.05	50μF/250V
	QXF-A068x	6.9	8155	2390	585	4.09	50μF/250V
	QXF-A083x	8.3	9792	2870	705	4.07	55μF/250V
M	QXF-M098x	9.8	11823	3465	862	4.02	60μF/250V

测试工况(Test Conditions):高性能工况 (High-performance Condition)

新环保冷媒R290 (New Eco-friendly Refrigerant R290)

R290 T1 [1φ]220-240V 50Hz							
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)	电容 Capacitor (μF)
A	QXD-A088	8.8	4625	1355	430	3.15	15μF/450V
B	QXD-M142	14.2	7628	2235	665	3.36	25μF/450V
	QXD-B139※	13.9	7338	2150	630	3.41	25μF/450V
	QXD-B160※	16.0	8259	2420	710	3.41	25μF/450V
	QXD-B172	17.2	8972	2620	770	3.40	25μF/450V
	QXD-B184	18.4	9761	2860	830	3.44	30μF/450V
C	QXD-B222	22.1	11263	3300	985	3.35	30μF/450V
	QXD-C238	23.8	12287	3650	1070	3.41	35μF/450V

测试工况(Test Conditions):ASHRAE/T

备注：型号带“※”,代表开发中 (Remark: Model with “※” is under development.)



② 通用压缩机  
General-Purpose Compressor

通用变频R410A (General Inverter R410A)

R410A DC INV						
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)
N	ATz-AN088ACBA	8.8	10776	3160	771	4.10
	ATz-AN095ACBA	9.5	11628	3410	832	4.10
	ATz-AN095ACBA*A	9.5	11628	3410	802	4.25
	ATz-AN108AHBA	10.8	13333	3910	954	4.10
	ATz-AN108AHBA*A	10.8	13333	3910	920	4.25
	ATz-SN150AXBA	15.0	18261	5355	1245	4.30
A	ATz-AA098AHBA	9.8	11959	3505	845	4.15
	ATz-AA098AHBA*A	9.8	12300	3605	820	4.40
	ATz-AA108AHBA	10.8	13273	3890	955	4.07
	ATz-AA108AHBA*A	10.8	13348	3912	890	4.40
SM	ATz-SM141AHBA	14.1	17094	5010	1205	4.16
	ATz-SM151AXBA	15.1	18357	5380	1295	4.15
	ATz-SM151AXBA*A	15.1	18725	5488	1245	4.41
SB	ATz-SB238ANAA	23.8	29616	8680	2042	4.25
SD	ATz-SD237AHAF	23.7	29667	8700	2037	4.27
SF	ATz-SF420ANAB	42.0	52514	15400	3540	4.35

测试工况(Test Conditions):变频工况60 Hz (Inverter Condition 60Hz)

通用变频R32 (General Inverter R32)

R32 DC INV						
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)
N	FTz-AN066ACBA	6.6	8525	2500	585	4.27
	FTz-AN075ACBA	7.5	9684	2840	665	4.27
	FTz-AN088ACBA	8.8	11355	3330	775	4.30
	FTz-AN095ACBA	9.5	12276	3600	835	4.30
	FTz-AN095ACBA*A	9.5	12583	3690	830	4.45
	FTz-AN108AHBA	10.8	13811	4050	945	4.29
	FTz-AN108AHBA*A	10.8	14271	4185	940	4.45
	FTz-SN150AXBA	15.0	19505	5720	1300	4.40
	A	FTz-AA098AHBA	9.8	12696	3720	865
FTz-AA098AHBA*A		9.8	13123	3845	845	4.55
FTz-AA108AHBA		10.8	14083	4130	960	4.30
M	FTz-AA108AHBA*A	10.8	14522	4255	935	4.55
	FTz-SM151AXBA	15.1	19710	5780	1320	4.38
SB	FTz-SM151AXBA*A	15.1	20017	5870	1290	4.55
	FTz-SB238ANAA	23.8	33248	9750	2143	4.55
SF	FTz-SF420ANAB	42.0	55583	16300	3567	4.57

测试工况(Test Conditions):变频工况60Hz (Inverter Condition 60Hz)

备注：型号带“\*A”，代表高效机型 (Remark: Model with “\*A” represents high-efficiency compressor.)

通用定频R410A-220V 50HZ (General Fixed Speed R410A-220V 50HZ)

R410A T1 [1φ]220-240V 50Hz							
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)	电容 Capacitor (μF)
A	QXA-A058	5.8	4640	1360	490	2.78	20μF/450V
	QXA-A066	6.6	5357	1570	580	2.71	20μF/450V
	QXA-A069	7.0	5637	1652	592	2.79	20μF/450V
	QXA-A071	7.1	5664	1660	615	2.70	25μF/450V
	QXA-A081	8.1	6653	1950	685	2.85	40μF/450V
	QXA-A083	8.3	6619	1940	710	2.73	35μF/450V
	QXA-A088	8.8	7233	2120	740	2.86	35μF/450V
M	QXA-M082	8.2	6797	1992	685	2.91	25μF/450V
	QXA-M086	8.6	7046	2065	705	2.93	25μF/450V
	QXA-M088	8.8	7199	2110	727	2.90	25μF/450V
	QXA-M091	9.1	7684	2252	768	2.93	25μF/450V
	QXA-M094	9.4	7745	2270	773	2.94	25μF/450V
	QXA-M096	9.6	7909	2318	788	2.94	25μF/450V
	QXA-M098	9.8	8257	2420	850	2.85	30μF/450V
B	QXA-B092	9.2	7657	2244	736	3.05	30μF/450V
	QXA-B098	9.8	8052	2360	774	3.05	25μF/450V
	QXA-B098(J)	9.8	8052	2360	787	3.00	30μF/450V
	QXA-B102	10.2	8527	2499	819	3.05	25μF/450V
	QXA-B104	10.4	8632	2530	830	3.05	30μF/450V
	QXA-B104(J)	10.4	8632	2530	843	3.00	30μF/450V
	QXA-B106	10.6	8666	2540	828	3.07	25μF/450V
	QXA-B109	11.0	9014	2642	870	3.04	30μF/450V
	QXA-B109(J)	11.0	9014	2642	881	3.00	30μF/450V
	QXA-B120	12.0	10023	2938	963	3.05	35μF/450V
	QXA-B120(J)	12.0	10023	2938	979	3.00	35μF/450V
	QXA-B125	12.5	10298	3020	990	3.05	35μF/450V
	QXA-B125(J)	12.5	10298	3020	1007	3.00	35μF/450V
	QXA-B129	12.9	10673	3130	1026	3.05	35μF/450V
	QXA-B129(J)	12.9	10673	3130	1043	3.00	40μF/450V
	QXA-B133	13.3	10912	3200	1053	3.04	35μF/450V
	QXA-B136	13.6	10912	3264	1070	3.05	35μF/450V
	QXA-B136(J)	13.6	10912	3264	1088	3.00	40μF/450V
	QXA-B139	13.9	11601	3400	1122	3.03	35μF/450V
	QXA-B15	15.0	12078	3540	1200	2.95	35μF/450V

测试工况(Test Conditions):ASHRAE/T

R410A T1 [1φ]220-240V 50Hz							
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)	电容 Capacitor (μF)
C	QXA-C139	13.9	11694	3427	1113	3.08	35μF/450V
	QXA-C145	14.5	12355	3621	1168	3.10	35μF/450V
	QXA-C160	15.9	13121	3845	1240	3.10	40μF/450V
	QXA-C165	16.5	13399	3927	1271	3.09	45μF/450V
	QXA-D16	16.0	13239	3880	1272	3.05	40μF/450V
D	QXA-D184	18.4	15218	4460	1439	3.10	50μF/450V
	QXA-D19	19.0	15695	4600	1484	3.10	50μF/450V
	QXA-D193	19.3	15968	4680	1519	3.08	45μF/450V
	QXA-D20	20.0	16548	4850	1590	3.05	50μF/450V
	QXA-D205	20.5	16958	4970	1630	3.05	50μF/450V
	QXA-D21	21.0	17367	5090	1658	3.07	50μF/450V
QXA-D22 ※	22.0	18220	5340	1745	3.06	50μF/450V	
E	QXA-E193	19.3	16566	4855	1556	3.12	40μF/450V
	QXA-E20	20.0	17105	5013	1607	3.12	55μF/450V
	QXA-E21	21.0	17915	5251	1683	3.12	55μF/450V
	QXA-E22	22.0	18630	5460	1761	3.10	55μF/450V
	QXA-E232	23.2	19924	5840	1878	3.11	60μF/450V
	QXA-E24	24.0	20742	6079	1955	3.11	60μF/450V
	QXA-E25	25.0	21591	6328	2035	3.11	60μF/450V
QXA-E27	27.0	22758	6670	2152	3.10	60μF/450V	
SE	QXAS-E270	27.5	23202	6800	2230	3.05	60μF/450V
	QXAS-E280	28.0	24055	7050	2310	3.05	60μF/450V
SF	QXAS-F275	27.5	23596	6916	2254	3.07	50μF/450V
	QXAS-F286	28.6	24348	7136	2340	3.05	50μF/450V
	QXAS-F304	30.5	25806	7563	2508	3.02	50μF/450V
	QXAS-F325	32.5	27842	8160	2706	3.02	50μF/450V
	QXAS-F356	35.6	30765	9017	2939	3.07	60μF/450V

测试工况(Test Conditions):ASHRAE/T

备注：型号带“※”,代表开发中 (Remark: Model with “※” is under development.)

通用  
General-Purpose

通用  
General-Purpose

通用定频R410A 208V 60Hz (General Fixed Speed R410A-208V 60HZ)

R410A T1 [1φ]208-230V 60Hz							
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)	电容 Capacitor (μF)
A	QXA-A062r	6.2	6159	1805	616	2.93	15μF/450V
	QXA-A066r	6.6	6510	1908	651	2.93	15μF/450V
	QXA-A069r	6.9	6858	2010	686	2.93	20μF/450V
	QXA-A078r	7.8	7711	2260	770	2.94	20μF/450V
	QXA-A081r	8.1	8052	2360	805	2.93	20μF/450V
M	QXA-M082r	8.2	8155	2390	815	2.93	25μF/450V
	QXA-M088r	8.8	8782	2574	880	2.93	25μF/450V
B	QXA-B102r	10.2	10225	2997	974	3.08	30μF/450V
	QXA-B106r	10.6	10580	3101	1007	3.08	25μF/450V
	QXA-B109r	10.9	10893	3193	1037	3.08	25μF/450V
	QXA-B112r	11.2	11174	3275	1074	3.05	30μF/450V
	QXA-B115r	11.5	11659	3417	1121	3.05	30μF/450V
	QXA-B117r	11.7	11624	3407	1117	3.05	35μF/450V
	QXA-B120r	12.0	11955	3504	1149	3.05	35μF/450V
	QXA-B136r	13.6	14023	4110	1348	3.05	35μF/450V
C	QXA-C139r	13.9	14269	4182	1358	3.08	35μF/450V
	QXA-C150r	15.0	14774	4330	1397	3.10	40μF/450V
	QXA-C155r	15.5	15559	4560	1471	3.10	40μF/450V
	QXA-C160r	15.9	16061	4707	1519	3.10	30μF/450V
	QXA-C165r	16.5	16844	4937	1603	3.08	30μF/450V

测试工况(Test Conditions):ASHRAE/T

R410A T1 [1φ]208-230V 60Hz							
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)	电容 Capacitor (μF)
D	QXA-D17r	17.0	17285	5066	1634	3.10	35μF/450V
	QXA-D184r	18.4	18715	5485	1769	3.10	35μF/450V
	QXA-D19r	19.0	19633	5754	1856	3.10	40μF/450V
	QXA-D20r	20.0	20336	5960	1954	3.05	35μF/450V
	QXA-E21r	21.0	21752	6375	2043	3.12	60μF/450V
E	QXA-E22r	22.0	22796	6681	2141	3.12	60μF/450V
	QXA-E232r	23.2	24536	7191	2305	3.12	60μF/450V
	QXA-E24r	24.0	25197	7385	2367	3.12	55μF/450V
	QXA-E25r	25.0	25545	7487	2400	3.12	55μF/450V
SE	QXAS-E265r	26.5	26955	7900	2590	3.05	60μF/450V
	QXAS-E275r	27.5	27978	8200	2689	3.05	60μF/450V
SF	QXAS-F275r	27.5	28490	8350	2694	3.10	60μF/450V
	QXAS-F295r	29.5	31253	9160	3058	3.00	45μF/450V
	QXAS-F304r	30.4	32053	9394	3131	3.00	50μF/450V
	QXAS-F325r	32.5	34120	10000	3333	3.00	70μF/450V
	QXAS-F356r	35.6	37805	11080	3756	2.95	50μF/450V

测试工况(Test Conditions):ASHRAE/T

通用  
General-Purpose

通用  
General-Purpose

通用定频R410A-115V (General Fixed Speed R410A-115V)

R410A T1 [1φ]115V 60Hz								
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)	电容 Capacitor (μF)	测试工况 Test Conditions
A	QXA-A046x	4.6	5783	1695	368	4.61	35μF/250V	北美高 能效工况 High-energy /efficiency Condition for North America
	QXA-A050x	5.1	6517	1910	414	4.61	45μF/250V	
	QXA-A052x	5.2	6551	1920	417	4.60	35μF/250V	
	QXA-A066x	6.6	8496	2490	532	4.68	50μF/250V	
	QXA-A068x	6.8	8823	2586	550	4.70	50μF/250V	
	QXA-A071x	7.1	7029	2060	702	2.93	50μF/250V	
	QXA-A083x	8.3	8189	2400	830	2.89	55μF/250V	
M	QXA-A086x	8.6	8564	2510	860	2.92	55μF/250V	ASHRAE/T
	QXA-M102x	10.2	10304	3020	1020	2.96	60μF/250V	
B	QXA-B098x	9.8	9710	2846	933	3.05	45μF/250V	
	QXA-B102x	10.2	10202	2990	971	3.08	55μF/250V	
	QXA-B104x	10.4	10390	3045	989	3.08	60μF/250V	
	QXA-B106x	10.6	10615	3111	1004	3.10	60μF/250V	
	QXA-B109x	10.9	10935	3205	1041	3.08	60μF/250V	
	QXA-B112x	11.2	11243	3295	1080	3.05	60μF/250V	
	QXA-B115x	11.5	11533	3380	1108	3.05	60μF/250V	
	QXA-B117x	11.7	11737	3440	1124	3.06	60μF/250V	
	QXA-B120x	12.0	11942	3500	1136	3.08	60μF/250V	

通用定频R22-220V 50HZ (General Fixed Speed R22-220V 50HZ)

R22 T1 [1φ]220-240V 50Hz								
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)	电容 Capacitor (μF)	测试工况 Test Conditions
A	QX-A086	8.6	4845	1420	502	2.83	35μF/450V	ASHRAE/T
	QX-A104	10.4	5969	1749	601	2.91	25μF/450V	
M	QX-M142	14.2	9082	2638	629	4.19	25μF/450V	高性能工况 High-performance Condition
	QX-M155	15.5	9889	2890	703	4.11	25μF/450V	
B	QX-M165	16.5	10277	3080	735	4.19	25μF/450V	
	QX-B139	13.9	8974	2630	619	4.25	30μF/450V	
	QX-B150	15.0	9622	2820	664	4.25	30μF/450V	
	QX-B155	15.5	9997	2930	681	4.30	30μF/450V	
	QX-B160	16.0	10407	3050	718	4.25	25μF/450V	
	QX-B172	17.2	9884	2897	920	3.15	35μF/450V	
C	QX-B184	18.4	10510	3080	978	3.15	35μF/450V	ASHRAE/T
	QX-B193	19.3	12283	3600	837	4.30	30μF/450V	
	QX-B202	20.2	12949	3795	883	4.30	30μF/450V	高性能工况 High-performance Condition
	QX-B206	20.6	13204	3870	900	4.30	30μF/450V	
	QX-B210	21.0	13477	3950	908	4.35	30μF/450V	
	QX-B212	21.3	13750	4030	937	4.30	40μF/450V	
	QX-B217	21.7	12454	4080	949	4.30	35μF/450V	
	QX-B222	22.1	12761	4160	967	4.30	35μF/450V	
D	QX-C229	22.9	13364	3917	1205	3.25	35μF/450V	ASHRAE/T
	QX-C238	23.8	13817	4049	1246	3.25	35μF/450V	
E	QX-D28	28.0	18152	5320	1209	4.40	50μF/450V	高性能工况 High-performance Condition
	QX-D287	28.7	18612	5455	1240	4.40	50μF/450V	
	QX-D305	30.7	20091	5888	1338	4.40	50μF/450V	
F	QX-F325	32.5	19350	5671	1746	3.25	50μF/450V	ASHRAE/T
	QX-34	33.7	20185	5916	1810	3.27	55μF/450V	
	QX-F36	35.6	21325	6250	1923	3.25	55μF/450V	
	QX-37	36.8	22100	6477	1991	3.25	60μF/450V	
SF	QXS-F40A	40.0	26464	7756	1825	4.25	50μF/450V	高性能工况 High-performance Condition
	QXS-F41A	41.0	27125	7950	1870	4.25	50μF/450V	
	QXS-F42A	42.0	27787	8144	1916	4.25	50μF/450V	
	QXS-F428A	42.8	28320	8300	1953	4.25	50μF/450V	ASHRAE/T
	QXS-F438A	43.8	25829	7570	2366	3.20	50μF/450V	
	QXS-F475	47.5	28319.6	8300	2677	3.10	60μF/450V	
	QXS-F49	49.0	29513.8	8650	2883	3.00	70μF/450V	

通用  
General-Purpose

通用  
General-Purpose



通用定频R22-60Hz (General Fixed Speed R22-60HZ)

R22 T1 [1φ]208-230V 60Hz							
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)	电容 Capacitor (μF)
A	QX-A098r	9.8	6752	1979	649	3.05	25μF/450V
B	QX-B14r	13.3	9397	2754	854	3.22	25μF/450V
	QX-B15r	15.0	10650	3121	968	3.22	25μF/450V
	QX-B172r	17.2	12181	3570	1097	3.26	30μF/450V
	QX-B18r	17.5	12355	3621	1132	3.20	30μF/450V
D	QX-D253r	25.3	17888	5243	1616	3.24	35μF/450V
	QX-D267r	26.7	19072	5590	1717	3.26	35μF/450V
	QX-D273r	27.3	19803	5804	1775	3.27	45μF/450V
F	QX-F286r	28.6	20472	6000	1846	3.25	50μF/450V
	QX-F305r	30.6	22691	6650	1992	3.34	45μF/450V
	QX-F325r	32.5	24061	7052	2112	3.34	50μF/450V
	QX-F34r	33.7	25058	7344	2200	3.34	50μF/450V

测试工况(Test Conditions):ASHRAE/T

R22 T1 [1φ]115V 60Hz							
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)	电容 Capacitor (μF)
B	QX-B17x	16.4	11624	3407	1082	3.15	50μF/450V
	QX-B172x	17.2	12198	3575	1131	3.16	55μF/450V

测试工况(Test Conditions):ASHRAE/T

R22 T1 [1φ]127V 60Hz							
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)	电容 Capacitor (μF)
A	QX-A075v	7.5	5151	1510	518	2.91	40μF/250V
	QX-A098v	9.8	6873	2015	692	2.91	40μF/250V
B	QX-B141v	14.1	9919	2907	923	3.15	35μF/250V

测试工况(Test Conditions):ASHRAE/T

R22 T1 [3φ]380V 50Hz							
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)	电容 Capacitor (μF)
F	QX-F34s	33.7	19687	5770	1792	3.22	/
SF	QXS-F41s	41.0	23815	6980	2148	3.25	/
	QXS-F42s	42.0	24396	7150	2200	3.25	/
	QXS-F438s	43.8	25590	7500	2336	3.21	/
	QXS-F475s	47.5	27654	8105	2525	3.21	/
	QXS-F49s	49.0	28524	8360	2604	3.21	/

测试工况(Test Conditions):ASHRAE/T

备注：型号带“※”，代表开发中 (Remark: Model with “※” is under development.)

通用  
General-Purpose

通用  
General-Purpose

### ③ T3中东向压缩机 T3 Compressor for Middle East Market

#### 产品优势 Product Advantages

**(A) 高可靠性设计:** 可在高压比、高压差环境下可靠运行, 完美匹配热带沙漠气候地区, 在环境温度54°、室内环境温度29°的较高蒸发温度下能长期可靠运行。

High reliable design: It can run reliably under high pressure ratio & high pressure difference environment, perfectly adapt to the tropical desert climate region, as well as achieve long-time stable operation under the ambient temp. of 54 ° and indoor ambient temp. of 29 °.

**(B) 高能效设计:** 成功应用于中东地区2015年新能效标准的空调系统中, 满足分体空调能效T1工况可达3.37, T3工况下2.43;

Energy-efficient design: It has been successfully applied to AC Systems under 2015 New Energy Efficiency Standard in the Middle East, the COP of Split ACs can reach 3.37 and 2.43 respectively under T1 and T3 working conditions.

#### 压缩机型谱 Compressor Spectrum

T3中东向压缩机 T3 Compressor for Middle East Market										
产品类别 Product Category		压缩机能力范围 Capacity Range								
冷媒 Refrigerant	电压/频率 Voltage/Frequency	BTU/h	6824	10236	13648	17060	20472	23884	27296	30708
		W	2000	3000	4000	5000	6000	7000	8000	9000
R410A	220-240V/50Hz									
	208-230V/60Hz									
R22	220-240V/50Hz									
R32	220-240V/50Hz									

#### 压缩机产品规格 Compressor Spec.

R410A T3 [1φ]220-240V 50Hz							
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)	电容 Capacitor (μF)
B	QXAH-B136	13.6	11464	3360	1091	3.08	40μF/450V
C	QXAH-C136	13.6	11450	3356	1083	3.10	35μF/450V
D	QXAH-D184	18.4	15218	4460	1439	3.10	45μF/450V
	QXAH-D19	19.0	15866	4650	1510	3.08	45μF/450V
E	QXAH-E193	19.3	16275	4770	1539	3.10	45μF/450V
	QXAH-E21	21.0	17913	5250	1694	3.10	55μF/450V
	QXAH-E232	23.2	19448	5700	1839	3.10	60μF/450V
	QXAH-E25	25.0	21496	6300	2066	3.05	60μF/450V
SF	QXASH-F295	29.5	24839	7280	2459	2.96	50μF/450V

测试工况(Test Conditions):ASHRAE/T

R410A T3 [1φ]208-230V 60Hz							
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)	电容 Capacitor (μF)
B	QXAH-B102r	10.2	10185	2985	963	3.10	25μF/450V
	QXAH-B106r	10.6	10611	3110	1003	3.10	30μF/450V
C	QXAH-C145r	14.5	14603	4280	1381	3.10	35μF/450V
	QXAH-C150r	15.0	15115	4430	1420	3.12	35μF/450V
	QXAH-C160r	16.0	16173	4740	1529	3.10	35μF/450V
D	QXAH-D17r	17.0	17333	5080	1639	3.10	40μF/450V
	QXAH-D175r	17.5	17845	5230	1687	3.10	40μF/450V
	QXAH-D184r	18.4	18630	5460	1761	3.10	45μF/450V
	QXAH-D193r	19.3	19585	5740	1840	3.12	50μF/450V
E	QXAH-E205r	20.5	21334	6253	1985	3.15	60μF/450V
	QXAH-E215r	21.5	22102	6478	2056	3.15	60μF/450V
	QXAH-E232r	23.2	23850	6990	2219	3.15	60μF/450V
	QXAH-E24r	24.0	24908	7300	2317	3.15	60μF/450V
SF	QXAH-E25r	25.0	25931	7600	2413	3.15	60μF/450V
	QXASH-F275r	27.5	28490	8350	2738	3.05	60μF/450V
	QXASH-F286r	28.6	29630	8684	2847	3.05	60μF/450V

测试工况(Test Conditions):ASHRAE/T

R22 T3 [1φ]220-240V 50Hz							
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)	电容 Capacitor (μF)
C	QXH-C222	22.2	12912	3784	1242	3.05	30μF/450V
D	QXH-D305	30.7	17913	5250	1694	3.10	50μF/450V
F	QXH-F34	33.7	20533	6018	1855	3.24	50μF/450V
	QXH-F36	35.6	20934	6135	1979	3.10	55μF/450V
SF	QXSH-F42A	42.0	25249	7400	2388	3.10	60μF/450V
	QXSH-F438A	43.8	26272	7700	2536	3.04	60μF/450V
	QXSH-F475	47.5	28661	8400	2800	3.00	60μF/450V
	QXSH-F49	49.0	29791	8731	2960	2.95	70μF/450V

测试工况(Test Conditions):ASHRAE/T

R32 T3 [1φ]220-240V 50Hz							
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)	电容 Capacitor (μF)
B	QXFH-B092	9.2	9110	2670	659	4.05	35μF/450V
	QXFH-B117	11.7	11771	3450	854	4.04	35μF/450V
E	QXFH-E193	19.3	19201	5627	1373	4.10	45μF/450V
	QXFH-E22	22.0	21919	6424	1567	4.10	45μF/450V

测试工况(Test Conditions):高性能工况 (High-performance Condition)

#### ④ 印度向压缩机 Compressor for India Market

##### 产品优势 Product Advantages

Ⓐ 高可靠性：可长期稳定运行在平均温度40°C的环境下；

High reliability: Long-term stable operation in an average temp. of 40 ° C;

Ⓑ 高效环保：环保R410A产品成功应用于印度五星能效标准的产品中；

Efficient and eco-friendly: The eco-friendly R410A product is complied with five-star energy-efficiency standard of India;

Ⓒ 较强的过负荷能力：适应电压不稳区域

Strong overload capacity: Adapt to unstable voltage region.

##### 压缩机型谱 Compressor Spectrum

印度向压缩机 Compressor for India Market						
产品类别 Product Category		压缩机能力范围 Capacity Range				
冷媒 Refrigerant	电压/频率 Voltage/Frequency	BTU/h	10236	13648	17060	20472
		W	3000	4000	5000	6000
R22	230V/50Hz		[Bar chart showing capacity range for R22]			
R410A	230V/50Hz		[Bar chart showing capacity range for R410A]			

印度向压缩机产品规格 Spec. of Compressor for India Market

R22 T1 [1φ]230V 50Hz								
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)	电容 Capacitor (μF)	测试工况 Test Conditions
B	QX-B193u	19.3	11089	3250	1016	3.20	30μF/250V	ASHRAE/T
D	QX-D28u	28.7	18152	5320	1209	4.40	45μF/450V	高性能工况 High-performance Condition
	QX-D287u	28.7	18595	5450	1239	4.40	45μF/450V	
F	QX-F34u	33.7	20011	5865	1810	3.24	45μF/450V	ASHRAE/T
	QX-F36u	35.6	23270	6195	1912	3.24	45μF/450V	

R410A T1 [1φ]230V 50Hz								
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)	电容 Capacitor (μF)	测试工况 Test Conditions
B	QXA-B129u	12.9	10673	3150	1016	3.10	35μF/450V	ASHRAE/T
D	QXA-D184u	18.4	15286	4480	1436	3.12	50μF/450V	
	QXA-D193u	19.3	16016	4694	1514	3.10	45μF/450V	
E	QXA-E193u	19.3	16566	4855	1527	3.18	40μF/450V	
	QXA-E22u	22.0	18630	5460	1733	3.15	60μF/450V	
	QXA-E232u	23.2	19924	5840	1854	3.15	60μF/450V	
	QXA-E25u	25.0	21666	6350	2062	3.08	60μF/450V	

⑤ 宽电压压缩机 Wide Voltage Compressor

产品优势 Product Advantages

- Ⓐ 运行电压范围宽广：在135V-270V之间稳定运行  
Wide voltage range: Stable operation between 135V-270V
- Ⓑ 高效节能 High energy efficiency
- Ⓒ 稳定可靠 Stable& Reliable
- Ⓓ 多重安全保护 Multiple security protection
- Ⓔ 覆盖主流冷量、冷媒 Covering main cooling capacity and refrigerant

宽电压压缩机型谱 Wide Voltage Compressor Spectrum

宽电压 Wide Voltage Compressor							
产品类别 Product Category		压缩机能力范围 Capacity Range					
冷媒 Refrigerant	电压/频率 Voltage/Frequency	BTU/h	6824	10236	13648	17060	20472
		W	2000	3000	4000	5000	6000
R410A	135-270V/50Hz						



宽电压压缩机产品规格 Wide Voltage Compressor Spec.

R410A T1 [1φ]160-253V 50Hz							
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)	电容 Capacitor (μF)
B	QXA-B102	10.2	8462	2480	870	2.85	35μF/450V
	QXA-B133	13.3	11328	3320	1207	2.75	45μF/450V
C	QXA-C129	12.9	10858	3182	1117	2.85	40μF/450V
D	QXA-D20	20.0	17060	5000	1786	2.80	45μF/450V
F	QXA-F193	19.3	16636	4876	1686	2.89	60μF/450V
	QXA-F22	22.0	19002	5569	1906	2.92	60μF/450V

测试工况(Test Conditions):ASHRAE/T



商用空调压缩机  
Compressor for CAC

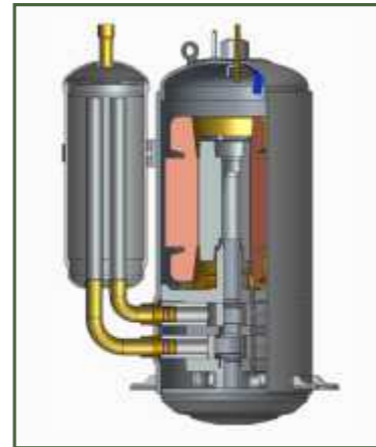


① 轻商用转子压缩机  
Rotary Compressor for Light CAC

产品优势 Product Advantages

替代涡旋压缩机的首选产品  
The first choice for replacing Scroll Compressor

- ⊕ 高温保护装置  
High temp. protection device
- ⊕ 高分子耐高温绝缘材料  
Polymer& High-temp. insulation material
- ⊕ 新绑线材料避免高温析  
Adopting new binding material to avoid high temp. precipitation
- ⊕ 高效电机减少发热量  
High-Efficiency motor reduces heat output
- ⊕ 泵体、电机镂空散热设计  
Hollow heat dissipation design for pump body and motor
- ⊕ 椭球形上、下盖结构，减少90%应力  
Ellipsoidal structure, reducing stress by 90%
- ⊕ 5.0厚度的SS400材料，抗拉强度达510Mpa  
5.0 thickness of SS400 material with tensile strength up to 510 Mpa
- ⊕ 无损通过20万以上4.3MPa油脉冲试验  
Non-destructive passing through 200,000 4.3MPa oil pulse test



压缩机型谱 Compressor Spectrum

轻商用 Compressor for Light CAC								
产品类别 Product Category		压缩机能力范围 Capacity Range						
冷媒 Refrigerant	电压/频率 Voltage/Frequency	BTU/h	17060	27296	37532	47768	58004	71652
		W	6000	8000	11000	14000	17000	20000
R22	380V/50Hz & 440V/60Hz							
R32	380V/50Hz & 440V/60Hz							
R410A	380V/50Hz & 440V/60Hz							
	220V/60Hz							
	DC							

压缩机产品规格 Compressor Spec.

R22 T1 [3φ]380V 50Hz							
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power ( W )	COP (W/W)	频率 Frequency
SH	QXS-H72s	72.0	44400	13000	4060	3.20	50
	QXS-H80s	80.0	49100	14400	4500	3.20	50
	QXS-H84s	83.6	51200	15000	4690	3.20	50
	QXS-H94s※	94.0	57700	16900	5280	3.20	50

测试工况(Test Conditions):ASHRAE/T

备注：型号带“※”，代表开发中 (Remark: Model with "※" is under development.)  
SH系列适用于440V 60HZ电源要求。(SH series can meet 440V 60HZ power requirement.)

轻商用转子压缩机产品规格 Spec. of Rotary Compressor for Light CAC

R32 [3φ]380V 50Hz						
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)
SF	QXFS-F265s	26.5	26443	7750	1824	4.25
	QXFS-F275s	27.5	27439	8042	1892	4.25
	QXFS-F286s	28.6	28600	8370	2020	4.15
	QXFS-F41s	41.0	40944	12000	2965	4.05
SH	QXFS-H446s	44.8	44800	13140	3110	4.23
	QXFS-H49s	49.0	49800	14600	3520	4.15
	QXFS-H53s	53.0	53600	15700	3780	4.15
	QXFS-H59s	59.0	59700	17500	4220	4.15
	QXFS-H64s※	64.0	64800	19000	4580	4.15
	QXFS-H72s※	72.0	73000	21400	5160	4.15

测试工况(Test Conditions):高性能工况 (High-performance Condition)

R410A [3φ]380V 50Hz						
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)
SF	QXAS-F275s	27.5	22963	6730	2171	3.10
	QXAS-F286s	28.6	23884	7000	2260	3.10
	QXAS-F304s	30.5	25283	7410	2390	3.10
	QXAS-F356s	35.6	30026	8800	2875	3.06
	QXAS-F41s	41.0	35144	10300	3366	3.06
SH	QXAS-H446s	44.6	38600	11300	3630	3.11
	QXAS-H49s	49.0	43000	12600	4040	3.12
	QXAS-H53s	53.0	46400	13600	4390	3.10
	QXAS-H59s	59.0	51900	15200	4900	3.10
	QXAS-H64s	64.0	56000	16400	5290	3.10
	QXAS-H72s	72.0	63100	18500	5970	3.10
QXAS-H84s※	84.0	73700	21600	6970	3.10	

测试工况(Test Conditions):ASHRAE/T

备注：型号带“※”，代表开发中 (Remark: Model with "※" is under development.)  
SH系列适用于440V 60Hz电源要求。(SH series can meet 440V 60Hz power requirement.)

R410A [3φ]220V 60Hz						
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)
SF	QXAS-F325w	32.5	34035	9975	3375	2.96
	QXAS-F356w	35.6	36679	10750	3580	3.00
SH	QXAS-H446w	44.6	48100	14100	4610	3.06
	QXAS-H49w	49.0	52900	15500	5070	3.06
	QXAS-H53w	53.0	57000	16700	5460	3.06
QXAS-H59w※	59.0	63500	18600	6080	3.06	

测试工况(Test Conditions):高性能工况 (High-performance Condition)

DC INV 变频压缩机 ( Inverter Compressor )						
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)
SH	ATz-SH72※	72.0	66200	19400	6260	3.10
	ATz-SH84※	84.0	77500	22700	7320	3.10

测试工况(Test Conditions):ASHRAE/T60Hz

备注：型号带“※”，代表开发中 (Remark: Model with "※" is under development.)  
SH系列适用于440V 60Hz电源要求。(SH series can meet 440V 60Hz power requirement.)

② 风管机用压缩机  
Duct AC Compressor

压缩机型谱 Compressor Spectrum

风管机 Duct AC Compressor									
产品类别 Product Category		压缩机能力范围 Capacity Range							
冷媒 Refrigerant	电压/频率 Voltage/Frequency	BTU/h	10236	13648	17060	20472	23884	27296	30708
		W	3000	4000	5000	6000	7000	8000	9000
R22	220-240V/50Hz								

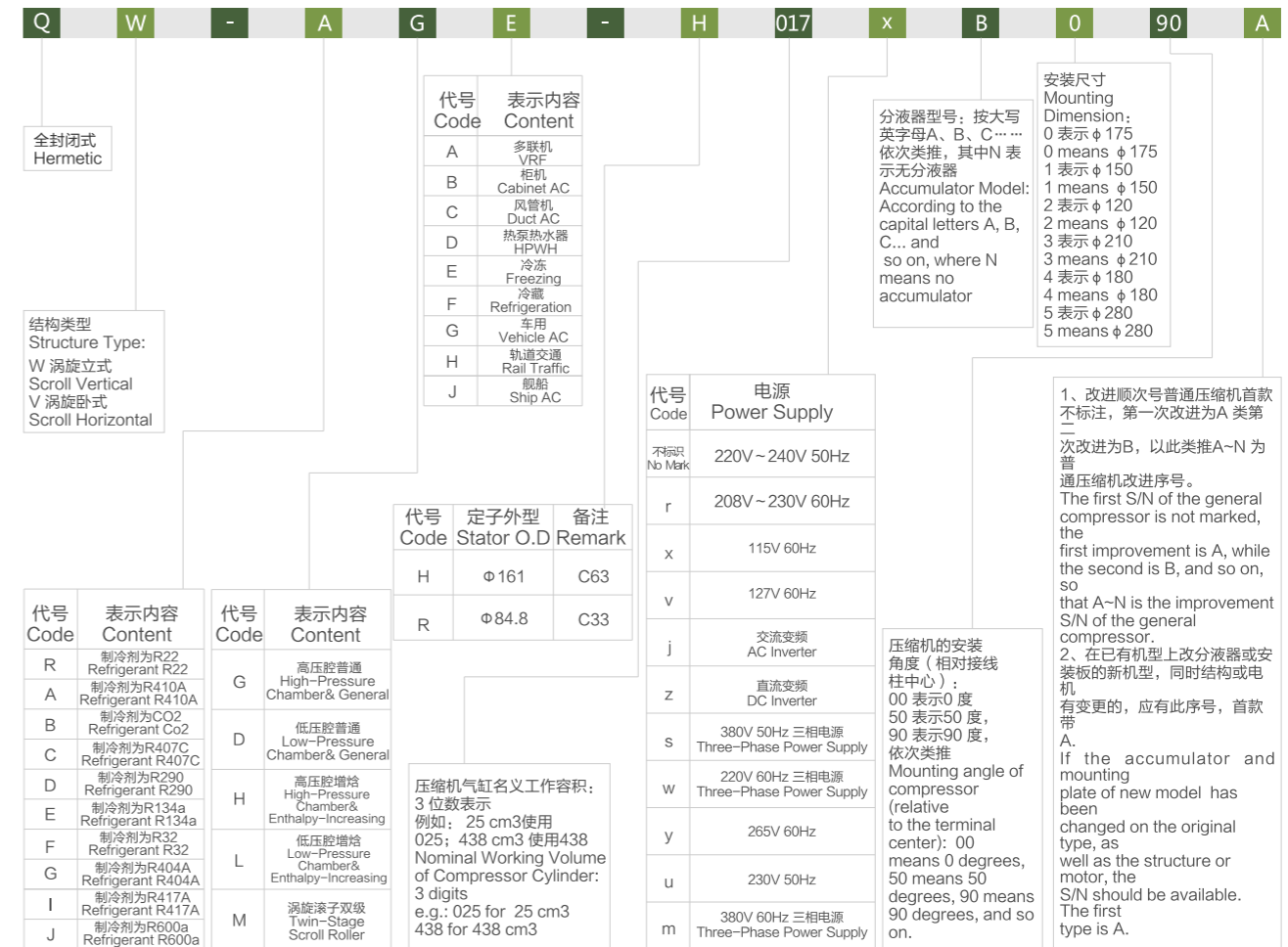
压缩机产品规格 Compressor Spec.

R22 T1 [1φ]220-240V 50Hz							
系列 Series	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power ( W )	COP ( W/W )	电容 Capacitor ( μF )
C	QXK-C238	23.8	13469.5	3950	1290	3.06	35μF/450V
F	QXK-F34	34.0	19437.0	5700	1840	3.10	50μF/450V
SF	QXSK-F475	47.5	28473.5	8350	2730	3.06	60μF/450V
	QXSK-F49	49.0	29735.2	8720	2800	3.11	60μF/450V

测试工况(Test Conditions):ASHRAE/T

Scroll Compressor  
涡旋式压缩机

产品命名规则 Product Naming Rules





涡旋式压缩机产品规格 Spec. of Scroll Compressor

涡旋式压缩机 Scroll Compressor							
系列 Series	冷媒 Refrigerant	压缩机型号 Model	排量 Displ.(cc)	冷量 Capacity ( Btu/h )	制冷量 Refrigerating Capacity ( W )	功率 Power (W)	COP (W/W)
H	R410A	QW-AGA-H072z	72	80523	23600	7500	3.13
		QW-AGA-H080z (宽频运行) Wide-frequency Operation	80	88712	26000	8300	3.13
		QV-AGG-H072z	72	78476	23000	7650	3.00
测试工况(Test Conditions):变频60Hz (Inverter condition 60 Hz)							

## Standard Packing Of Compressor 压缩机标准包装

依据运输要求，分为出口包装和内销包装，分别见右图：  
Packings can be divided into export packing and domestic sales packing according to transport requirements, see the right figure:

系列代号 Series Code	托盘规格 Pallet Spec. L(mm)xW(mm)	层数 Layer No.	每层数量 Qty. per Layer	每箱数量 Qty. per Box (Unit 台)	每箱高度 Height per Box H(mm)			每箱毛重(kg) Gross Weight per Box		
P	459x314	2	8	16	347	~	-	17	~	-
P	1170x990	2	7	224	512	~	-	315	~	-
K	1170x990	3	56	168	919	~	-	621	~	50
G	1170x990	3	42	126	933	~	993	674	~	680
N	1170x990	2	30	60	833	~	844	458	~	479
A	1170x990	2	30	60	774	~	834	500	~	638
M	1170x990	2	30	60	887	~	905	614	~	758
B-L支脚 B-L Foot	1170x990	2	25	50	909	~	987	620	~	720
B-150mm底板 B-150mm Mounting Plate	1170x990	2	30	60	899	~	927	749	~	857
C	1170x990	2	25	50	885	~	956	755	~	835
D	1170x990	2	20	40	932	~	999	730	~	754
	1170x990	1	20	20	544	~	578	390	~	402
E	1170x990	2	20	40	997	~	1035	802	~	898
	1170x990	1	20	20	577	~	596	426	~	474
F	1170x990	2	20	40	975	~	1137	850	~	1090
	1170x990	1	20	20	566	~	646	450	~	570
H	1170x990	1	16	16	682	~	735	586	~	658

注：1) 不含卧式机型，增焓机型等。 [Remark: 1) Horizontal model& Enthalpy-increasing model are not included.]

依据运输降低物流成本的需求，部分系列、型号装放数量增加，如下表：  
The loading& unloading qty. of some series and models are increased based on the reduced logistics cost, as shown in the following table:

系列代号 Series Code	托盘规格 Pallet Spec. L(mm)xW(mm)	层数 Layer No.	每层数量 Qty. per Layer	每箱数量 Qty. per Box (Unit 台)	每箱高度 Height per Box H(mm)			每箱毛重(kg) Gross Weight per Box		
B-150mm底板 B-150mm Mounting Plate	1150x1100	3	56	168	1019	~	-	882	~	-
G-150mm底板 G-150mm Mounting Plate	1150x1100	3	42	126	999	~	-	791	~	-
N	1150x1100	2	36	72	853	~	381	550	~	-
A	1150x1100	2	36	72	751	~	841	518	~	756
M	1150x1100	2	30	72	827	~	911	727	~	900
B-175mm底脚 B-175mm Foot	1150x1100	2	30	60	837	~	974	614	~	854
B-150mmL支脚 (50°及30°、非球形上盖) B-150mmL Foot(50°and 30° Non-Spherical Upper Cover)	1150x1100	2	30	60	837	~	974	614	~	854
B-150mm底脚 (不含以上两种) B-150mm Foot(Neitherof the above is included)	1150x1100	2	36	72	837	~	974	734	~	1015
C	1150x1100	2	30	60	816	~	949	896	~	992
D-L支脚球形上盖 (30°/50°) D-L Foot with Spherical Upper Cover ( 30°/50°)	1150x1100	2	25	50	937	~	1003	725	~	935
D-其余( 支承圈包装 ) D-Others (Packing of Supporting Ring)	1150x1100	2	30	60	937	~	1003	725	~	935
E	1150x1100	2	25	50	998	~	1039	990	~	1110
F	1150x1100	2	24	48	960	~	1145	1010	~	1298

注：1) 不含卧式机型，增焓机型等。[Remark: 1) Horizontal model& Enthalpy-increasing model are not included.]

内销包装  
Domestic  
Sales Packing



出口包装  
Export  
Packing



## 技术服务 | Technical Service



多元化高效精品压缩机产品  
Diversified and high quality compressors



共同开发  
Joint development



性能、噪音、应力等整体式解决方案以及系统技术解决方案  
Overall solutions for performance, noise, stress, and system technology



快速反应的生产供货服务  
Rapid supply& delivery service



创新科技 卓越智造 共创舒适新生活  
Creative Tech Made In Wisdom Create a Comfort New Life