



Diligence Elaboration Gratification

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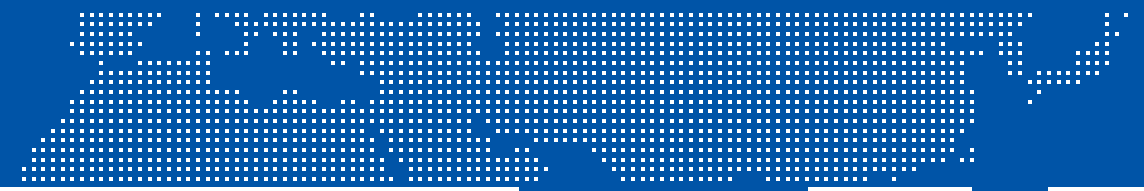
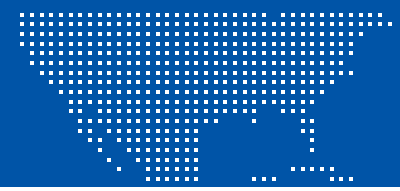


Home / Commercial Air Conditioning Compressor

2018 TECHNICAL CATALOGUE
家用、商用空调压缩机



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企业简介

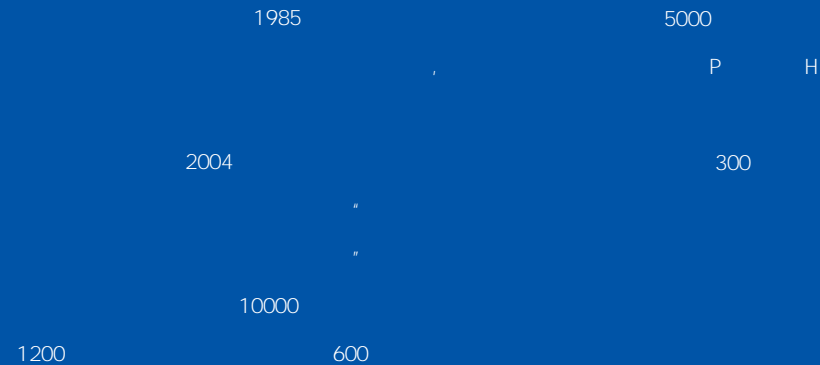
Brief Introduction

LAMDA

凌达占全球压缩机市场的25%
Lamda has 25% global market share in compressor



25%



Zhuhai Lamda Compressor Co., Ltd., established in 1985, is a professional air conditioner compressor manufacturer specialized in research, production, sales and services, and a unique, large-scale and domestic air-conditioner compressor manufacturer. In 2004, Landa became a subsidiary wholly owned by Zhuhai Gree Electric Appliances Inc. With the target of "improving human living environment and leading people to a nice future", the company commits herself to be an environment-friendly, new and high tech enterprise. The company has more than 10,000 employees, including 1,200 technical and management personnel and more than 600 engineers with annual capacity of 50 million units.

The products cover 13 series, which ranges from series P to series H with more than 300 models including fixed speed, inverter, different power source, different refrigerant, twin cylinder and scroll types featuring high efficiency and environment-friendly functions applicable for air conditioners. To adapt to fierce market competition, based on provincial enterprise technical centre, combined with innovative sources local and abroad, through self-development and cooperation with academic organizations, the company commits herself to high end product development, such as fixed speed compressors with higher efficiency, inverter and scroll compressors.

Research and Development Testing Center

公司依托广东省重点企业技术中心平台建有先进设施规模的测试中心，居行业前列。装备有制冷性能、声功率测试、振动应变试验、可靠性测试、焓差测试、电机效率测试等和压缩机科研相关的全部测试设备。涵盖了力学、电学等诸多领域，对产品质量进行严格监控。

Based on Important Enterprise Technical Centre of Guangdong Provincial, Landa set up advanced testing centre which is leading the industry. The testing devices needed for compressor development are all equipped, including cooling performance testing, sound power testing, vibration strain testing, reliability testing, enthalpy testing, motor efficiency testing etc. The testing covers dynamics and electrics so to inflict strict quality control to the products.

R290

Laboratory

公司在中国政府和联合国开发计划署指导下，由全球环境基金资助建立的R290环保冷媒防爆试验室处于行业领先水平，具有性能测试、噪音测试、可靠性测试测试功能。

Under the instructions of Chinese government and Development Planning Program of UN, the R290 explosion-proof laboratory with leading level in the industry funded by Global Environment Fund is set up. The performance testing, noise testing and reliability testing can be done in the lab.



Innovative Research and Development Testing Center

为确保质量检验的准确性，对产品质量进行严格监控。公司引进国外自动化尖端检测仪器组建压缩机整机测试室，主要检测设备有压缩机制冷量测试台、加速寿命台、起动耐久性试验台、压缩机电机堵转试验台、压缩机内部水分含量测试台、压缩机内部杂质试验台、压缩机高低温试验台、定子铁芯磁性测试装置、压缩机液击试验装置、电气安全检测装置。其中寿命试验台、空调含油量测试台、堵转试验台为公司拥有自主知识产权的自制产品。

Strict quality controls are done to the products to ensure the precise quality inspection. Compressor test room is equipped with top leveled automatic testing instrument from abroad. The main equipments include compressor cooling capacity tester, accelerated life tester, start up and durability tester, locked rotor tester, compressor moisture tester, compressor impurity tester, compressor high and low temperature tester, stator core magnetism tester, compressor liquid slugging tester and electrical safety tester. In which life tester, air conditioner oil content tester and locked rotor tester are made by Landa with self-owned intellectual property.



一切 · 从用心开始

Everything begins from diligence

● 1985年

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。

Lamda is not only one of the first companies who introduced hermetic rotary compressor technology, but also a large-scale and domestic air-conditioner compressor manufacturer.

● 1986年

Supearl

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, Lamda started the production of Supearl sliding vane rotary compressor with the equipment introduced from Whirlpool.

● 1994年

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, Lamda introduced the rotary compressor technology with international level from Rotorex and advanced machining equipment and precision detecting instruments from U.S. and Japan.

● 2004年

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。

Lamda was wholly owned by Zhuhai Gree Electric Appliances Inc. and brought in Excellent Performance Mode to improve management and R&D level in the same year.

● 2008年

R290

凌达是国内首家承接中国环境保护部开展R290共性技术研究的压缩机厂家。

Lamda was the first compressor manufacturer to undertake the technical research work of R290 compressor sponsored by the Ministry of Environment Protection.

● 2013年

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 first and second stage construction of Longshan factory with the rocketing production capacity from 6 million to 38 million units.

● 2016年

2016年，龙山工业区凌达涡旋分厂建成投产。

In 2016, Lamda scroll compressor workshop was completed and put into operation in Longshan Industrial Park.

● 2017年

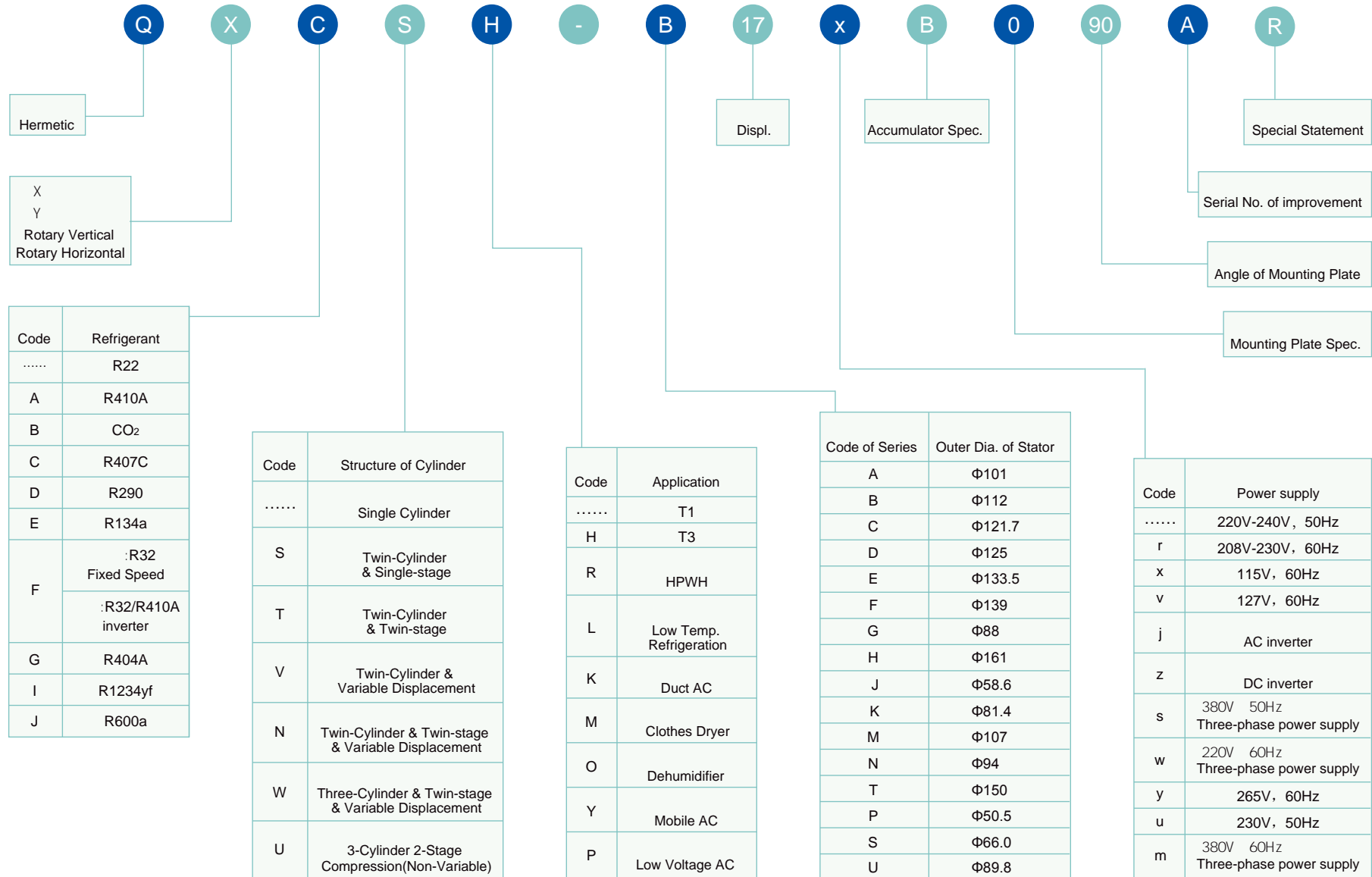
5000

为了适应市场需求，公司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5000万台。

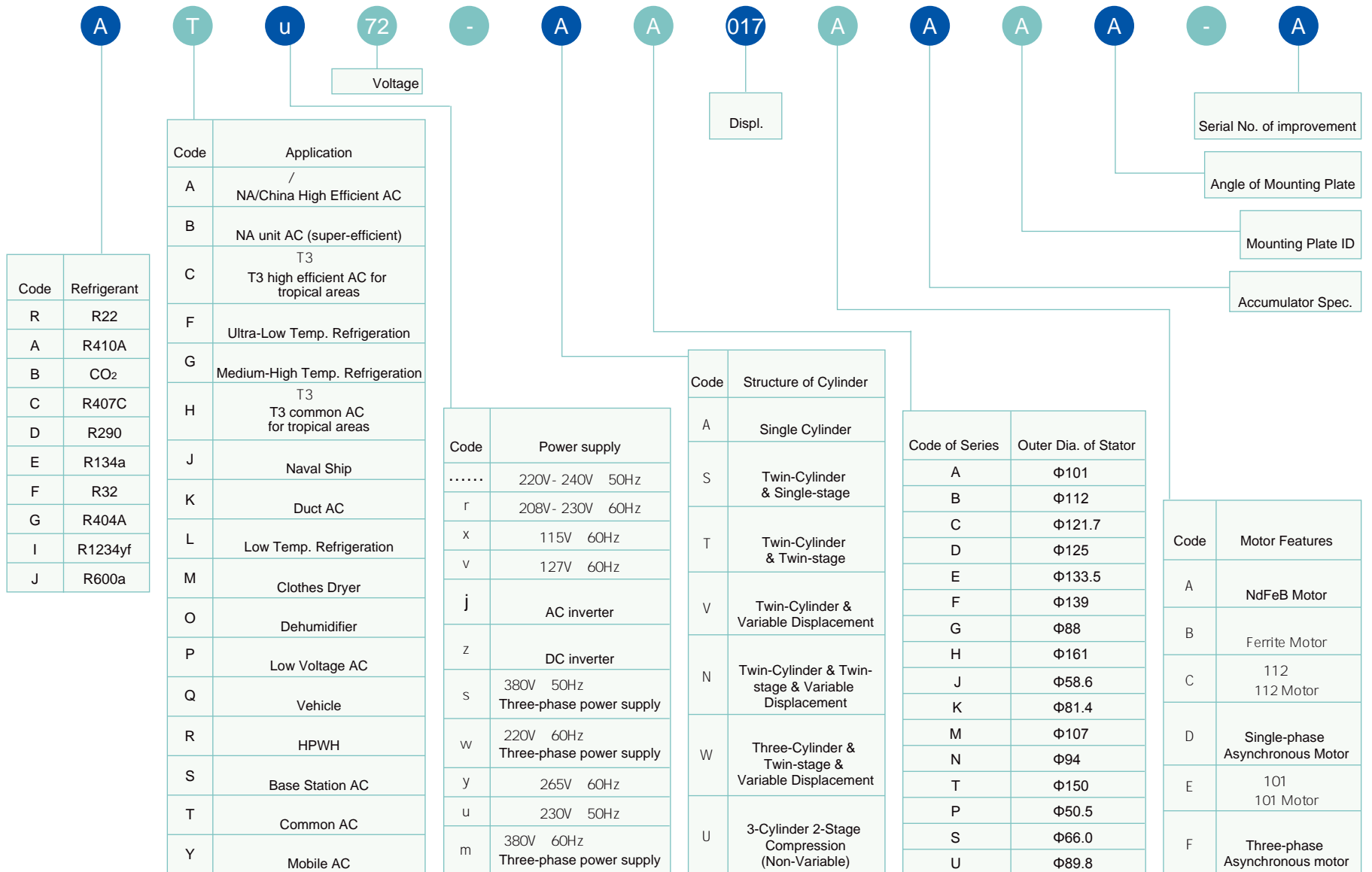
The company improved production lines by the application of Flexible Manufacturing System to meet the market; meanwhile, the production capacity reached up to 50 million units.

	45	12	5	24	35
60Hz Inverter Condition 60Hz	46	10	5	18	35

命名方式一 Naming Rule I



命名方式二 Naming Rule II



Product Category		Capacity Distribution								
Refrigerant	V Voltage	BTU/h	6824	13648	20480	27300	34125	40950	47750	54600
		W	2000	4000	6000	8000	10000	12000	14000	16000
R410A	DC									
R32	DC									

R410A DC INV

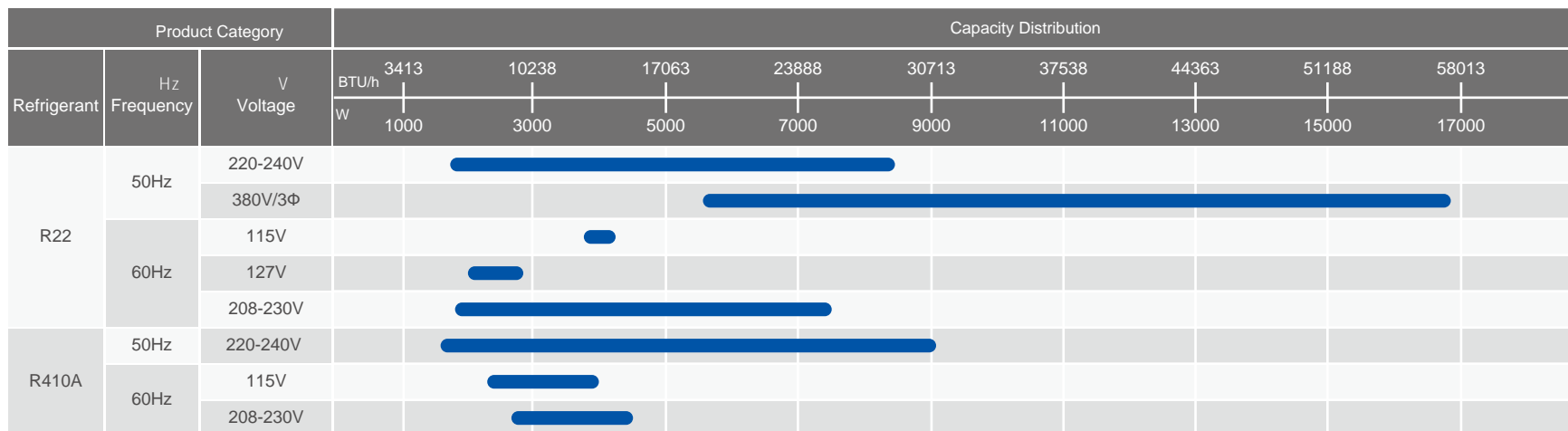
Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Operating frequency range (Hz)	Test conditions
G	ATz-AG089ACBA	8.9	11117	3260	805	4.05	\	60Hz Inverter Condition 60Hz
N	ATz-AN088ACBA	8.8	10776	3160	771	4.10	\	60Hz Inverter Condition 60Hz
	ATz-AN095ACBA	9.5	11628	3410	832	4.10	\	60Hz Inverter Condition 60Hz
	ATz-AN095ACBA-A	9.5	11628	3410	802	4.25	\	60Hz Inverter Condition 60Hz
	ATz-AN108AHBA	10.8	13333	3910	954	4.10	\	60Hz Inverter Condition 60Hz
	ATz-AN108AHBA-A	10.8	13333	3910	920	4.25	\	60Hz Inverter Condition 60Hz
A	ATz-AA098AHBA	9.8	12078	3540	870	4.07	\	60Hz Inverter Condition 60Hz
	ATz-AA108AHBA	10.8	13273	3890	955	4.07	\	60Hz Inverter Condition 60Hz
	ATz-AA108AHBA-A	10.8	13348	3912	890	4.40	\	60Hz Inverter Condition 60Hz
SM	ATz-SM141AHBA	14.1	17094	5010	1205	4.16	\	60Hz Inverter Condition 60Hz
	ATz-SM151AXBA	15.1	18357	5380	1295	4.15	\	60Hz Inverter Condition 60Hz
	ATz-SM151AXBA-A	15.1	18725	5488	1245	4.41	\	60Hz Inverter Condition 60Hz

R410A DC INV

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Operating frequency range (Hz)	Test conditions
SB	ATz-SB238ANAA	23.8	29616	8680	2042	4.25	\	60Hz Inverter Condition 60Hz
SD	ATz-SD237AHAF	23.7	29667	8700	2037	4.27	\	60Hz Inverter Condition 60Hz
SF	ATz-SF420ANAB	42.0	52514	15400	3540	4.35	\	60Hz Inverter Condition 60Hz

R32 DC INV

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Operating frequency range (Hz)	Test conditions
G	FTz-AG073ACBA	7.3	9378	2750	655	4.20	\	60Hz Inverter Condition 60Hz
N	FTz-AN066ACBA	6.6	8525	2500	585	4.27	\	60Hz Inverter Condition 60Hz
	FTz-AN075ACBA	7.5	9684	2840	665	4.27	\	60Hz Inverter Condition 60Hz
	FTz-AN088ACBA	8.8	11355	3330	775	4.30	\	60Hz Inverter Condition 60Hz
	FTz-AN095ACBA	9.5	12276	3600	835	4.30	\	60Hz Inverter Condition 60Hz
	FTz-AN108AHBA	10.8	13811	4050	945	4.29	\	60Hz Inverter Condition 60Hz
	A	FTz-AA108AHBA	10.8	12992	3810	878	4.34	\
M	FTz-SM151AXBA	15.1	19949	5850	1285	4.55	\	60Hz Inverter Condition 60Hz
SB	FTz-SB238ANAA	23.8	33248	9750	2143	4.55	\	60Hz Inverter Condition 60Hz
SF	FTz-SF420ANAB	42.0	55583	16300	3567	4.57	\	60Hz Inverter Condition 60Hz



R410A T1 [1φ]220-240V 50Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
A	QXA-A058	5.8	4640	1360	490	2.78	20μF/450V	ASHRAE/T
	QXA-A066	6.6	5357	1570	580	2.71	20μF/450V	ASHRAE/T
	QXA-A069	7.0	5637	1652	592	2.79	20μF/450V	ASHRAE/T
	QXA-A071	7.1	5664	1660	615	2.70	25μF/450V	ASHRAE/T
	QXA-A081	8.1	6653	1950	685	2.85	40μF/450V	ASHRAE/T
	QXA-A083	8.3	6619	1940	710	2.73	35μF/450V	ASHRAE/T
	QXA-A088	8.8	7233	2120	740	2.86	35μF/450V	ASHRAE/T

R410A T1 [1φ]220-240V 50Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
M	QXA-M082	8.2	6797	1992	685	2.91	25μF/450V	ASHRAE/T
	QXA-M086	8.6	7046	2065	705	2.93	25μF/450V	ASHRAE/T
	QXA-M088	8.8	7199	2110	727	2.90	25μF/450V	ASHRAE/T
	QXA-M091	9.1	7684	2252	768	2.93	25μF/450V	ASHRAE/T
	QXA-M094	9.4	7745	2270	773	2.94	25μF/450V	ASHRAE/T
	QXA-M096	9.6	7909	2318	788	2.94	25μF/450V	ASHRAE/T
	QXA-M098	9.8	8257	2420	850	2.85	30μF/450V	ASHRAE/T
B	QXA-B092	9.2	7657	2244	736	3.05	30μF/450V	ASHRAE/T
	QXA-B098	9.8	8052	2360	774	3.05	25μF/450V	ASHRAE/T
	QXA-B102	10.2	8527	2499	819	3.05	25μF/450V	ASHRAE/T
	QXA-B104	10.4	8632	2530	830	3.05	30μF/450V	ASHRAE/T
	QXA-B106	10.6	8666	2540	828	3.07	25μF/450V	ASHRAE/T
	QXA-B109	11.0	9014	2642	870	3.04	30μF/450V	ASHRAE/T
	QXA-B120	12.0	10023	2938	963	3.05	35μF/450V	ASHRAE/T
	QXA-B125	12.5	10298	3020	990	3.05	35μF/450V	ASHRAE/T
	QXA-B129	12.9	10673	3130	1026	3.05	35μF/450V	ASHRAE/T
	QXA-B133	13.3	10912	3200	1053	3.04	35μF/450V	ASHRAE/T
	QXA-B136	13.6	10912	3264	1070	3.05	35μF/450V	ASHRAE/T
	QXA-B139	13.9	11601	3400	1122	3.03	35μF/450V	ASHRAE/T
	QXA-B15	15.0	12078	3540	1200	2.95	35μF/450V	ASHRAE/T

R410A T1 [1φ]220-240V 50Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
C	QXA-C139	13.9	11694	3427	1113	3.08	35μF/450V	ASHRAE/T
	QXA-C145	14.5	12355	3621	1168	3.10	35μF/450V	ASHRAE/T
	QXA-C160	15.9	13121	3845	1240	3.10	40μF/450V	ASHRAE/T
	QXA-C165	16.5	13399	3927	1271	3.09	45μF/450V	ASHRAE/T
D	QXA-D16	16.0	13239	3880	1272	3.05	40μF/450V	ASHRAE/T
	QXA-D184	18.4	15218	4460	1439	3.10	50μF/450V	ASHRAE/T
	QXA-D19	19.0	15695	4600	1484	3.10	50μF/450V	ASHRAE/T
	QXA-D193	19.3	15968	4680	1519	3.08	45μF/450V	ASHRAE/T
	QXA-D20	20.0	16548	4850	1590	3.05	50μF/450V	ASHRAE/T
	QXA-D205	20.5	16958	4970	1630	3.05	50μF/450V	ASHRAE/T
	QXA-D21	21.0	17367	5090	1658	3.07	50μF/450V	ASHRAE/T
	QXA-D22 ※	22.0	18220	5340	1745	3.06	50μF/450V	ASHRAE/T
E	QXA-E193	19.3	16566	4855	1556	3.12	40μF/450V	ASHRAE/T
	QXA-E20	20.0	17105	5013	1607	3.12	55μF/450V	ASHRAE/T
	QXA-E21	21.0	17915	5251	1683	3.12	55μF/450V	ASHRAE/T
	QXA-E22	22.0	18630	5460	1761	3.10	55μF/450V	ASHRAE/T
	QXA-E232	23.2	19924	5840	1878	3.11	60μF/450V	ASHRAE/T
	QXA-E24	24.0	20742	6079	1955	3.11	60μF/450V	ASHRAE/T
	QXA-E25	25.0	21591	6328	2035	3.11	60μF/450V	ASHRAE/T
	QXA-E27	27.0	22758	6670	2152	3.10	60μF/450V	ASHRAE/T

Note: A model with "※" shows that a compressor of such model is under development.

R410A T1 [1φ]220-240V 50Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
SE	QXAS-E270	27.5	23202	6800	2230	3.05	60μF/450V	ASHRAE/T
	QXAS-E280	28.0	24055	7050	2310	3.05	60μF/450V	ASHRAE/T
SF	QXAS-F275	27.5	23596	6916	2254	3.07	50μF/450V	ASHRAE/T
	QXAS-F286	28.6	24348	7136	2340	3.05	50μF/450V	ASHRAE/T
	QXAS-F304	30.5	25806	7563	2508	3.02	50μF/450V	ASHRAE/T
	QXAS-F325	32.5	27842	8160	2706	3.02	50μF/450V	ASHRAE/T
	QXAS-F356	35.6	30765	9017	2939	3.07	60μF/450V	ASHRAE/T

R410A T1 [1φ]208-230V 60Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
A	QXA-A062r	6.2	6159	1805	616	2.93	15μF/450V	ASHRAE/T
	QXA-A066r	6.6	6510	1908	651	2.93	15μF/450V	ASHRAE/T
	QXA-A069r	6.9	6858	2010	686	2.93	20μF/450V	ASHRAE/T
	QXA-A078r	7.8	7711	2260	770	2.94	20μF/450V	ASHRAE/T
	QXA-A081r	8.1	8052	2360	805	2.93	20μF/450V	ASHRAE/T
M	QXA-M082r	8.2	8155	2390	815	2.93	25μF/450V	ASHRAE/T
	QXA-M088r	8.8	8782	2574	880	2.93	25μF/450V	ASHRAE/T

R410A T1 [1φ]208-230V 60Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
B	QXA-B102r	10.2	10225	2997	974	3.08	30μF/450V	ASHRAE/T
	QXA-B106r	10.6	10580	3101	1007	3.08	25μF/450V	ASHRAE/T
	QXA-B109r	10.9	10893	3193	1037	3.08	25μF/450V	ASHRAE/T
	QXA-B112r	11.2	11174	3275	1074	3.05	30μF/450V	ASHRAE/T
	QXA-B115r	11.5	11659	3417	1121	3.05	30μF/450V	ASHRAE/T
	QXA-B117r	11.7	11624	3407	1117	3.05	35μF/450V	ASHRAE/T
	QXA-B120r	12.0	11955	3504	1149	3.05	35μF/450V	ASHRAE/T
C	QXA-B136r	13.6	14023	4110	1348	3.05	35μF/450V	ASHRAE/T
	QXA-C139r	13.9	14269	4182	1358	3.08	35μF/450V	ASHRAE/T
	QXA-C150r	15.0	14774	4330	1397	3.10	40μF/450V	ASHRAE/T
	QXA-C155r	15.5	15559	4560	1471	3.10	40μF/450V	ASHRAE/T
	QXA-C160r	15.9	16061	4707	1519	3.10	30μF/450V	ASHRAE/T
D	QXA-C165r	16.5	16844	4937	1603	3.08	30μF/450V	ASHRAE/T
	QXA-D17r	17.0	17285	5066	1634	3.10	35μF/450V	ASHRAE/T
	QXA-D184r	18.4	18715	5485	1769	3.10	35μF/450V	ASHRAE/T
	QXA-D19r	19.0	19633	5754	1856	3.10	40μF/450V	ASHRAE/T
E	QXA-D20r	20.0	20336	5960	1954	3.05	35μF/450V	ASHRAE/T
	QXA-E21r	21.0	21752	6375	2043	3.12	60μF/450V	ASHRAE/T
	QXA-E22r	22.0	22796	6681	2141	3.12	60μF/450V	ASHRAE/T
	QXA-E232r	23.2	24536	7191	2305	3.12	60μF/450V	ASHRAE/T
	QXA-E24r	24.0	25197	7385	2367	3.12	55μF/450V	ASHRAE/T
SE	QXA-E25r	25.0	25545	7487	2400	3.12	55μF/450V	ASHRAE/T
	QXAS-E265r	26.5	26955	7900	2590	3.05	60μF/450V	ASHRAE/T
	QXAS-E275r	27.5	27978	8200	2689	3.05	60μF/450V	ASHRAE/T

R410A T1 [1φ]208-230V 60Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
SF	QXAS-F275r	27.5	28490	8350	2694	3.10	60μF/450V	ASHRAE/T
	QXAS-F295r	29.5	31253	9160	3058	3.00	45μF/450V	ASHRAE/T
	QXAS-F304r	30.4	32053	9394	3131	3.00	50μF/450V	ASHRAE/T
	QXAS-F325r	32.5	34120	10000	3333	3.00	70μF/450V	ASHRAE/T
	QXAS-F356r	35.6	37805	11080	3756	2.95	50μF/450V	ASHRAE/T

R410A T1 [1φ]115V 60Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
A	QXA-A046x	4.6	5783	1695	368	4.61	35μF/250V	Hi-energy/efficiency Condition for North America
	QXA-A050x	5.1	6517	1910	414	4.61	45μF/250V	Hi-energy/efficiency Condition for North America
	QXA-A052x	5.2	6551	1920	417	4.60	35μF/250V	Hi-energy/efficiency Condition for North America
	QXA-A066x	6.6	8496	2490	532	4.68	50μF/250V	Hi-energy/efficiency Condition for North America
	QXA-A068x	6.8	8823	2586	550	4.70	50μF/250V	Hi-energy/efficiency Condition for North America
	QXA-A071x	7.1	7029	2060	702	2.93	50μF/250V	ASHRAE/T
	QXA-A083x	8.3	8189	2400	830	2.89	55μF/250V	ASHRAE/T
	QXA-A086x	8.6	8564	2510	860	2.92	55μF/250V	ASHRAE/T
M	QXA-M102x	10.2	10304	3020	1020	2.96	60μF/250V	ASHRAE/T

R410A T1 [1φ]115V 60Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
B	QXA-B098x	9.8	9710	2846	933	3.05	45μF/250V	ASHRAE/T
	QXA-B102x	10.2	10202	2990	971	3.08	55μF/250V	ASHRAE/T
	QXA-B104x	10.4	10390	3045	989	3.08	60μF/250V	ASHRAE/T
	QXA-B106x	10.6	10615	3111	1004	3.10	60μF/250V	ASHRAE/T
	QXA-B109x	10.9	10935	3205	1041	3.08	60μF/250V	ASHRAE/T
	QXA-B112x	11.2	11243	3295	1080	3.05	60μF/250V	ASHRAE/T
	QXA-B115x	11.5	11533	3380	1108	3.05	60μF/250V	ASHRAE/T
	QXA-B117x	11.7	11737	3440	1124	3.06	60μF/250V	ASHRAE/T
	QXA-B120x	12.0	11942	3500	1136	3.08	60μF/250V	ASHRAE/T

R22 T1 [1φ]220-240V 50Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	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	ASHRAE/T
M	QX-M142	14.2	9082	2638	629	4.19	25μF/450V	hi-performance Condition
	QX-M155	15.5	9889	2890	703	4.11	25μF/450V	hi-performance Condition
	QX-M165	16.5	10277	3080	735	4.19	25μF/450V	hi-performance Condition

R22 T1 [1φ]220-240V 50Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
B	QX-B139	13.9	8974	2630	619	4.25	30μF/450V	hi-performance Condition
	QX-B150	15.0	9622	2820	664	4.25	30μF/450V	hi-performance Condition
	QX-B155	15.5	9997	2930	681	4.30	30μF/450V	hi-performance Condition
	QX-B160	16.0	10407	3050	718	4.25	25μF/450V	hi-performance Condition
	QX-B172	17.2	9884	2897	920	3.15	35μF/450V	ASHRAE/T
	QX-B184	18.4	10510	3080	978	3.15	35μF/450V	ASHRAE/T
	QX-B193	19.3	12283	3600	837	4.30	30μF/450V	hi-performance Condition
	QX-B202	20.2	12949	3795	883	4.30	30μF/450V	hi-performance Condition
	QX-B206	20.6	13204	3870	900	4.30	30μF/450V	hi-performance Condition
	QX-B210	21.0	13477	3950	908	4.35	30μF/450V	hi-performance Condition
	QX-B212	21.3	13750	4030	937	4.30	40μF/450V	hi-performance Condition
	QX-B217	21.7	12454	4080	949	4.30	35μF/450V	hi-performance Condition
	QX-B222	22.1	12761	4160	967	4.30	35μF/450V	hi-performance Condition
C	QX-C229	22.9	13364	3917	1205	3.25	35μF/450V	ASHRAE/T
	QX-C238	23.8	13817	4049	1246	3.25	35μF/450V	ASHRAE/T
D	QX-D28	28.0	18152	5320	1209	4.40	50μF/450V	hi-performance Condition
	QX-D287	28.7	18612	5455	1240	4.40	50μF/450V	hi-performance Condition
	QX-D305	30.7	20091	5888	1338	4.40	50μF/450V	hi-performance Condition
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	ASHRAE/T
	QX-F36	35.6	21325	6250	1923	3.25	55μF/450V	ASHRAE/T
	QX-37	36.8	22100	6477	1991	3.25	60μF/450V	ASHRAE/T

R22 T1 [1φ]220-240V 50Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
SF	QXS-F40A	40.0	26464	7756	1825	4.25	50μF/450V	hi-performance Condition
	QXS-F41A	41.0	27125	7950	1870	4.25	50μF/450V	hi-performance Condition
	QXS-F42A	42.0	27787	8144	1916	4.25	50μF/450V	hi-performance Condition
	QXS-F428A	42.8	28320	8300	1953	4.25	50μF/450V	hi-performance Condition
	QXS-F438A	43.8	25829	7570	2366	3.20	50μF/450V	ASHRAE/T
	QXS-F475	47.5	28319.6	8300	2677	3.10	60μF/450V	ASHRAE/T
	QXS-F49	49.0	29513.8	8650	2883	3.00	70μF/450V	ASHRAE/T

R22 T1 [1φ]208-230V 60Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
A	QX-A098r	9.8	6752	1979	649	3.05	25μF/450V	ASHRAE/T
B	QX-B14r	13.3	9397	2754	854	3.22	25μF/450V	ASHRAE/T
	QX-B15r	15.0	10650	3121	968	3.22	25μF/450V	ASHRAE/T
	QX-B172r	17.2	12181	3570	1097	3.26	30μF/450V	ASHRAE/T
	QX-B18r	17.5	12355	3621	1132	3.20	30μF/450V	ASHRAE/T
D	QX-D253r	25.3	17888	5243	1616	3.24	35μF/450V	ASHRAE/T
	QX-D267r	26.7	19072	5590	1717	3.26	35μF/450V	ASHRAE/T
	QX-D273r	27.3	19803	5804	1775	3.27	45μF/450V	ASHRAE/T
F	QX-F286r	28.6	20472	6000	1846	3.25	50μF/450V	ASHRAE/T
	QX-F305r	30.6	22691	6650	1992	3.34	45μF/450V	ASHRAE/T
	QX-F325r	32.5	24061	7052	2112	3.34	50μF/450V	ASHRAE/T
	QX-F34r	33.7	25058	7344	2200	3.34	50μF/450V	ASHRAE/T

R22 T1 [1φ]115V 60Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
B	QX-B17x	16.4	11624	3407	1082	3.15	50μF/250V	ASHRAE/T
	QX-B172x	17.2	12198	3575	1131	3.16	55μF/250V	ASHRAE/T

R22 T1 [1φ]127V 60Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
A	QX-A075v	7.5	5151	1510	518	2.91	40μF/250V	ASHRAE/T
	QX-A098v	9.8	6873	2015	692	2.91	40μF/250V	ASHRAE/T
B	QX-B141v	14.1	9919	2907	923	3.15	35μF/250V	ASHRAE/T

R22 T1 [3φ]380V 50Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
F	QX-F34s	33.7	19687	5770	1792	3.22	/	ASHRAE/T
SF	QXS-F41s	41.0	23815	6980	2148	3.25	/	ASHRAE/T
	QXS-F42s	42.0	24396	7150	2200	3.25	/	ASHRAE/T
	QXS-F438s	43.8	25590	7500	2336	3.21	/	ASHRAE/T
	QXS-F475s	47.5	27654	8105	2525	3.21	/	ASHRAE/T
	QXS-F49s	49.0	28524	8360	2604	3.21	/	ASHRAE/T
SH	QXS-H72s	72.0	44400	13000	4060	3.20	/	ASHRAE/T
	QXS-H80s	80.0	49100	14400	4500	3.20	/	ASHRAE/T
	QXS-H84s	83.6	51200	15000	4690	3.20	/	ASHRAE/T
	QXS-H94s※	94.0	57700	16900	5280	3.20	/	ASHRAE/T

Note: A model with "※" shows that a compressor of such model is under development.

Product Category			Capacity Distribution								
Refrigerant	Hz Frequency	V Voltage	BTU/h	6824	10236	13648	17060	20472	23884	27296	30708
			W	2000	3000	4000	5000	6000	7000	8000	9000
R410A	50Hz	220-240V									
	60Hz	208-230V									
R22	50Hz	220-240V									
R32	50Hz	220-240V									

R410A T3 [1φ]220-240V 50Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
B	QXAH-B136	13.6	11464	3360	1091	3.08	40μF/450V	ASHRAE/T
C	QXAH-C136	13.6	11450	3356	1083	3.10	35μF/450V	ASHRAE/T
D	QXAH-D184	18.4	15218	4460	1439	3.10	45μF/450V	ASHRAE/T
	QXAH-D19	19.0	15866	4650	1510	3.08	45μF/450V	ASHRAE/T
E	QXAH-E193	19.3	16275	4770	1539	3.10	45μF/450V	ASHRAE/T
	QXAH-E21	21.0	17913	5250	1694	3.10	55μF/450V	ASHRAE/T
	QXAH-E232	23.2	19448	5700	1839	3.10	60μF/450V	ASHRAE/T
	QXAH-E25	25.0	21496	6300	2066	3.05	60μF/450V	ASHRAE/T
SF	QXASH-F295	29.5	24839	7280	2459	2.96	50μF/450V	ASHRAE/T

R410A T3 [1φ]208-230V 60Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
B	QXAH-B102r	10.2	10185	2985	963	3.10	25μF/450V	ASHRAE/T
	QXAH-B106r	10.6	10611	3110	1003	3.10	30μF/450V	ASHRAE/T

R410A T3 [1φ]208-230V 60Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
C	QXAH-C145r	14.5	14603	4280	1381	3.10	35μF/450V	ASHRAE/T
	QXAH-C150r	15.0	15115	4430	1420	3.12	35μF/450V	ASHRAE/T
	QXAH-C160r	15.9	16173	4740	1529	3.10	35μF/450V	ASHRAE/T
D	QXAH-D17r	17.0	17333	5080	1639	3.10	40μF/450V	ASHRAE/T
	QXAH-D175r	17.5	17845	5230	1687	3.10	40μF/450V	ASHRAE/T
	QXAH-D184r	18.4	18630	5460	1761	3.10	45μF/450V	ASHRAE/T
	QXAH-D193r	19.3	19585	5740	1840	3.12	50μF/450V	ASHRAE/T
E	QXAH-E205r	20.5	21334	6253	1985	3.15	60μF/450V	ASHRAE/T
	QXAH-E215r	21.5	22102	6478	2056	3.15	60μF/450V	ASHRAE/T
	QXAH-E232r	23.2	23850	6990	2219	3.15	60μF/450V	ASHRAE/T
	QXAH-E24r	24.0	24908	7300	2317	3.15	60μF/450V	ASHRAE/T
	QXAH-E25r	25.0	25931	7600	2413	3.15	60μF/450V	ASHRAE/T
SF	QXASH-F275r	27.5	28490	8350	2738	3.05	60μF/450V	ASHRAE/T
	QXASH-F286r	28.6	29630	8684	2847	3.05	60μF/450V	ASHRAE/T

R22 T3 [1φ]220-240V 50Hz

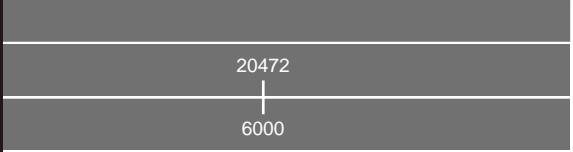
Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
C	QXH-C222	22.2	12912	3784	1242	3.05	30μF/450V	ASHRAE/T
D	QXH-D305	30.7	17913	5250	1694	3.10	50μF/450V	ASHRAE/T
F	QXH-F34	33.7	20533	6018	1855	3.24	50μF/450V	ASHRAE/T
	QXH-F36	35.6	20934	6135	1979	3.10	55μF/450V	ASHRAE/T

R22 T3 [1φ]220-240V 50Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
SF	QXSH-F42A	42.0	25249	7400	2388	3.10	60μF/450V	ASHRAE/T
	QXSH-F438A	43.8	26272	7700	2536	3.04	60μF/450V	ASHRAE/T
	QXSH-F475	47.5	28661	8400	2800	3.00	60μF/450V	ASHRAE/T
	QXSH-F49	49.0	29791	8731	2960	2.95	70μF/450V	ASHRAE/T

R32 T3 [1φ]220-240V 50Hz

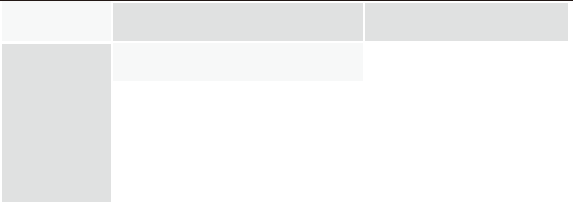
Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
B	QXFH-B092	9.2	9110	2670	659	4.05	35μF/450V	hi-performance Condition
	QXFH-B117	11.7	11771	3450	854	4.04	35μF/450V	hi-performance Condition
E	QXFH-E193	19.3	19201	5627	1373	4.10	45μF/450V	hi-performance Condition
	QXFH-E22	22.0	21919	6424	1567	4.10	45μF/450V	hi-performance Condition



COP (W/W)	Capacitor (μF)	Test conditions
3.20	30μF/450V	ASHRAE/T
4.40	45μF/450V	hi-performance Condition
4.40	45μF/450V	hi-performance Condition
3.24	45μF/450V	ASHRAE/T
3.24	45μF/450V	ASHRAE/T

COP (W/W)	Capacitor (μF)	Test conditions
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Product Category			Capacity Distribution				
Refrigerant	Hz Frequency	V Voltage	BTU/h	10236	13648	17060	20472
			6824	3000	4000	5000	6000
			2000				
R410A	50Hz	135-270V					

R410A T1 [1φ]135-270V 50Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
B	QXA-B102	10.2	8462	2480	870	2.85	35μF/450V	ASHRAE/T
	QXA-B133	13.3	11328	3320	1207	2.75	45μF/450V	ASHRAE/T
C	QXA-C129	12.9	10858	3182	1117	2.85	40μF/450V	ASHRAE/T
D	QXA-D20	20.0	17060	5000	1786	2.80	45μF/450V	ASHRAE/T
F	QXA-F193	19.3	16636	4876	1686	2.89	60μF/450V	ASHRAE/T
	QXA-F22	22.0	19002	5569	1906	2.92	60μF/450V	ASHRAE/T

R32 T1 [1φ]220-240V 50Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
B	QXF-B092	9.2	8939	2620	647	4.05	25μF/450V	hi-performance Condition
	QXF-B098	9.8	9622	2820	696	4.05	30μF/450V	hi-performance Condition
	QXF-B102	10.2	9997	2930	718	4.08	30μF/450V	hi-performance Condition
	QXF-B117	11.7	11447	3355	822	4.08	30μF/450V	hi-performance Condition
	QXF-B120	12.0	11686	3425	835	4.10	30μF/450V	hi-performance Condition
	QXF-B129	12.9	12624	3700	911	4.06	30μF/450V	hi-performance Condition
	QXF-B133	13.3	13034	3820	936	4.08	30μF/450V	hi-performance Condition
C	QXF-C150	15.0	14740	4320	1041	4.15	30μF/450V	hi-performance Condition
D	QXF-D175	17.5	17231	5050	1208	4.18	45μF/450V	hi-performance Condition
	QXF-D184	18.4	18118	5310	1270	4.18	45μF/450V	hi-performance Condition
	QXF-D193	19.3	19005	5570	1333	4.18	50μF/450V	hi-performance Condition
E	QXF-E193	19.3	19175	5620	1338	4.20	45μF/450V	hi-performance Condition
	QXF-E20	20.0	19755	5790	1385	4.18	55μF/450V	hi-performance Condition
	QXF-E21	21.0	20643	6050	1476	4.10	55μF/450V	hi-performance Condition
	QXF-E22	22.0	21649	6345	1548	4.10	60μF/450V	hi-performance Condition
	QXF-E232	23.2	22808	6685	1630	4.10	60μF/450V	hi-performance Condition
	QXF-E24	24.0	23594	6915	1666	4.15	60μF/450V	hi-performance Condition
	QXF-E27	27.0	26560	7784	1876	4.15	60μF/450V	hi-performance Condition

R32 T1 [1φ]220-240V 50Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
SE	QXFS-E270	27.0	26272	7700	1878	4.10	60μF/450V	hi-performance Condition
	QXFS-E280	28.0	27228	7980	1945	4.10	60μF/450V	hi-performance Condition
SF	QXFS-F265	26.5	26494	7765	1880	4.13	50μF/450V	hi-performance Condition
	QXFS-F275	27.5	27494	8058	1951	4.13	50μF/450V	hi-performance Condition

R32 T1 [3φ]380V 50Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
SF	QXFS-F265s	26.5	26443	7750	1824	4.25	/	hi-performance Condition
	QXFS-F286s	28.6	28594	8380	2020	4.15	/	hi-performance Condition
	QXFS-F41s	41.0	40944	12000	2965	4.05	/	hi-performance Condition
	QXFS-F275s	27.5	27441	8042	1892	4.25	/	hi-performance Condition
SH	QXFS-H446s	44.6	44800	13140	3110	4.23	/	hi-performance Condition
	QXFS-H49s	49.0	49800	14600	3520	4.15	/	hi-performance Condition
	QXFS-H59s	59.0	59700	17500	4220	4.15	/	hi-performance Condition

R32 T1 [1φ]115V 60Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
A	QXF-A044x	4.4	5135	1505	385	3.91	35μF/250V	hi-performance Condition
	QXF-A053x	5.3	6261	1835	469	3.91	45μF/250V	hi-performance Condition
	QXF-A066x	6.6	7882	2310	570	4.05	50μF/250V	hi-performance Condition
	QXF-A068x	6.9	8155	2390	585	4.09	50μF/250V	hi-performance Condition
	QXF-A083x	8.3	9792	2870	705	4.07	55μF/250V	hi-performance Condition
M	QXF-M098x	9.8	11823	3465	862	4.02	60μF/250V	hi-performance Condition

R290 T1 [1φ]220-240V 50Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
A	QXD-A088	8.8	4625	1355	430	3.15	15μF/450V	ASHRAE/T
M	QXD-M142	14.2	7628	2235	665	3.36	25μF/450V	ASHRAE/T
B	QXD-B139※	13.9	7338	2150	630	3.41	25μF/450V	ASHRAE/T
	QXD-B160※	16.0	8259	2420	710	3.41	25μF/450V	ASHRAE/T
	QXD-B172	17.2	8972	2620	770	3.40	25μF/450V	ASHRAE/T
	QXD-B184	18.4	9761	2860	830	3.44	30μF/450V	ASHRAE/T
	QXD-B222	22.1	11263	3300	985	3.35	30μF/450V	ASHRAE/T
C	QXD-C238	23.8	12287	3650	1070	3.41	35μF/450V	ASHRAE/T

Note: A model with "※" shows that a compressor of such model is under development.

Product Category		Capacity Distribution						
Refrigerant	V/ Hz Voltage/Frequency	BTU/h	17060	27296	37532	47768	58004	71652
		W	5000	8000	11000	14000	17000	21000
R22	380V/50Hz & 440V/60Hz							
R32	380V/50Hz & 440V/60Hz							
R410A	380V/50Hz & 440V/60Hz							
	220V/60Hz							

R22 T1 [3φ]380V 50Hz/440V 60Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Frequency	Test conditions
SH	QXS-H72s	72.0	44400	13000	4060	3.20	50	ASHRAE/T
	QXS-H80s	80.0	49100	14400	4500	3.20	50	ASHRAE/T
	QXS-H84s	83.6	51200	15000	4690	3.20	50	ASHRAE/T
	QXS-H94s※	94.0	57700	16900	5280	3.20	50	ASHRAE/T

R32 T1 [3φ]380V 50Hz/440V 60Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Frequency	Test conditions
SH	QXFS-H446s	44.6	44800	13140	3110	4.23	50	hi-performance Condition
	QXFS-H49s	49.0	49800	14600	3520	4.15	50	hi-performance Condition
	QXFS-H59s	59.0	59700	17500	4220	4.15	50	hi-performance Condition

Note: A model with "※" shows that a compressor of such model is under development.

R410A T1 [3φ]380V 50Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
SF	QXAS-F275s	27.5	22963	6730	2171	3.10	/	ASHRAE/T
	QXAS-F286s	28.6	23884	7000	2260	3.10	/	ASHRAE/T
	QXAS-F304s	30.5	25283	7410	2390	3.10	/	ASHRAE/T
	QXAS-F356s	35.6	30026	8800	2875	3.06	/	ASHRAE/T
	QXAS-F41s	41.0	35144	10300	3366	3.06	/	ASHRAE/T
SH	QXAS-H446s	44.6	38600	11300	3630	3.11	/	ASHRAE/T
	QXAS-H47s	46.8	41000	12000	3850	3.12	/	ASHRAE/T
	QXAS-H49s	49.0	43000	12600	4040	3.12	/	ASHRAE/T
	QXAS-H59s	59.0	51900	15200	4900	3.10	/	ASHRAE/T
	QXAS-H64s	64.0	56000	16400	5290	3.10	/	ASHRAE/T
	QXAS-H68s	68.0	59700	17500	5650	3.10	/	ASHRAE/T
	QXAS-H72s	72.0	63100	18500	5970	3.10	/	ASHRAE/T

R410A T1 [3φ]220V 60Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
SF	QXAS-F356w	35.6	36679	10750	3580	3.00	/	ASHRAE/T
SH	QXAS-H446w	44.6	48100	14100	4610	3.06	/	ASHRAE/T
	QXAS-H49w	49.0	52900	15500	5070	3.06	/	ASHRAE/T
	QXAS-H53w	53.0	57000	16700	5460	3.06	/	ASHRAE/T
	QXAS-H59w※	59.0	63500	18600	6080	3.06	/	ASHRAE/T

Note: A model with "※" shows that a compressor of such model is under development.

Product Category		Capacity Distribution						
Refrigerant	V/ Hz Voltage/Frequency	BTU/h	10236	13648	17060	20472	23884	30708
		W	3000	4000	6000	6000	7000	9000
R22	220-240V/50Hz							

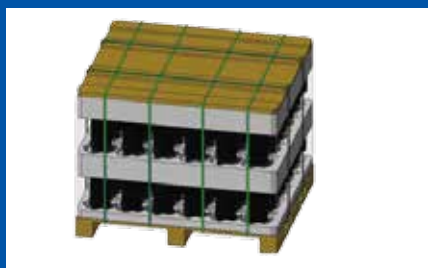
R22 T1 [1φ]220-240V 50Hz

Series	Model	Displ. CC	Capacity Btu/h	Refrigerating capacity W	Power (W)	COP (W/W)	Capacitor (μF)	Test conditions
C	QXK-C238	23.8	13470	3950	1290	3.06	35μF/450V	ASHRAE/T
F	QXK-F34	33.7	19437	5700	1840	3.10	50μF/450V	ASHRAE/T
SH	QXSK-F475	47.5	28474	8350	2730	3.06	60μF/450V	ASHRAE/T
	QXSK-F49	49.0	29735	8720	2800	3.11	60μF/450V	ASHRAE/T

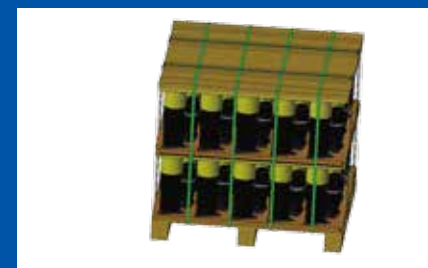
Series Code	Pallet Size	Q'ty per Box	Height per Box	Gross Weight per Box (kg)
P	1170x990	224	878--	315--
K	1170x990	168	919--	621--
G	1170x990	126	933~993	674~680
N	1170x990	60	833~844	458~479
A	1170x990	60	774~834	500~638
M	1170x990	60	887~905	614~758
B- L B-L Foot	1170x990	50	909~987	620~720
B- 150mm B-150mm mounting Plate	1170x990	60	889~927	749~857
C	1170x990	50	885~956	755~835
D	1170x990	40	932~999	730~754
	1170x990	20	544~578	390~402
E	1170x990	40	997~1035	802~898
	1170x990	20	577~596	426~474
F	1170x990	40	975~1137	850~1090
	1170x990	20	566~646	450~570
H	1170x990	16	682~735	586~658

Packings are sorted as export packing and domestic sales packing according to transport requirements, see figure at right.

Domestic Sales Packing



Export Packing



Diligence Elaboration Gratification

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ZHUHAILAMD A COMPRESSOR CO., LTD.

1 ADD: No.1Longshan Avenue,Longshan Industrial Zone, DouMen District, Zhuhai City p.c. 519110
DDD 0756-5789988 / IDD 86-0756-8570372/8570359 Email Home- Sales yh_deng@cn.gree.com / Oversea- Sales gyzpjyb@cn.gree.com