BOYARD 博阳
浙江博阳压缩机有限公司
CHINA ZHEJIANG BOYANG
COMPRESSOR CO., LTD.

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BOYARD 博阳

诚信·执着·创新·共赢

博阳压缩机
BOYANG COMPRESSOR

样 品 室
Show Room

生产流水线
Production Line

成品仓库
Warehouse

标准化实验室
Advanced Testing Room

诚信 · 执着 · 创新 · 共赢

浙江博阳压缩机有限公司
CHINA ZHEJIANG BOYANG COMPRESSOR CO.,LTD.

About Us

- **公司愿景：制冷领域一流供应商。**
  Company vision: To be the first-class supplier in the refrigeration field.
- **公司使命：致力于制冷技术应用到更广阔的生活领域。**
  Company mission: Apply our refrigeration technology to a broader life.
- **公司核心价值观：诚信、执着、创新、共赢。**
  Company core value: Faith, persistence, innovation, win-win situation.

浙江博阳压缩机有限公司成立于2006年5月，占地面积33000平方米，建筑面积21000平方米，拥有现代化标准厂房、研发中心和先进的检测设备，已取得国家高新技术企业认定。主要从事空调压缩机、中低温制冷压缩机、冷凝机组等产品的研发、生产和销售，主导产品分别通过了CCC、CE、RoHS及REACH等认证。

为适应市场需求，公司立足科技创新，倡导绿色环保理念，注重产品研发，不断拓展压缩机的应用领域，现已成功研发了纯电动汽车、卡车、船舶空调用DC12V、DC24V、DC48V、DC72V、DC312V系列直流变频压缩机。

在激烈的市场竞争中，公司凭着产品良好的性价比和完善的售后服务体系，已与众多国内外客户建立了相互信赖的合作关系，产品远销欧盟、中东、东南亚、南非、南美等国家和地区。

Zhejiang Boyang Compressor Co., LTD was born in May, 2006. The company covers 33,000 square meters including 20,000 square meters of architectural area. We have advanced production line, testing equipment and R&D center, which was awarded “National hi-tech enterprise”. Our company concentrates on the research, development and production of Air conditioner compressor, refrigeration compressor and condensing unit. The main products have obtained CCC, CE, RoHS &REACH certification.

To meet the new requirements of refrigeration industry, towards the energy-saving and environmental development, our company has successfully developed the DC12V, DC24V, DC48V, DC72V &DC312V compressor for the Air conditioning system of electric car, truck, ship and other vehicles.

Our products are the fruits of rich experience and continuous innovation & improvement. Our powerful technical supports, advanced production line & testing equipment ensure that the products will be the first-class in the market. We have the good cooperation with many companies in the domestic and international market.

BOYARD 博阳

R22、R407C空调用立式压缩机性能参数 (Compressor performance parameters)

该系列产品现已应用到空调、除湿机和工业冷水机，油冷机等相关制冷领域。

Available for air-conditioner、dehumidifier and industrial water chillers,oil cooling unit etc.

R22、R407C空调用立式压缩机性能参数

compressor performance parameters

制冷剂	压缩机型号	额定电源	气缸容积	制冷量		输入功率	工作电流	运行电容
Refrigerant	Model	POWER SUPPLY	Cylinder Volume cm^3	Nominal Capacity W	Btu/h	Input POWER(W)	WORK CURRENT (A)	RUN CAPACITOR (μF/450V)
R22 立式 VERTICAL	QXR-10E 2FN1	220V~50Hz	9.6	1680	5712	580	2.7	20
	QXR-13E 2FN1	220V~50Hz	13.5	2120	7208	730	3.5	25
	QXR-16E 2FN2	220V~50Hz	16.4	2730	9282	915	4.2	25
	QXR-19E 4DN1	220V~50Hz	19.2	3210	10914	1100	5.1	30
	QXR-21E 4DN3	220V~50Hz	21.3	3620	12308	1210	5.6	30
	QXR-23E 4DN1	220V~50Hz	23.5	3920	13328	1300	6.1	35
	QXR-25E 4DN2	220V~50Hz	25.4	4220	14348	1410	6.6	35
	QXR-30E 4DN2	220V~50Hz	30.7	5200	17680	1750	8.3	50
	QXR-33E 4DS1	220V~50Hz	33.6	5640	19176	1925	9.1	50
	QXR-36E 5DS1	220V~50Hz	35.7	6060	20604	2060	9.8	50
	QXR-41E 6BT1	220V~50Hz	41.2	7060	24004	2360	11.2	50
	QXR-44E 6BT1	220V~50Hz	44.2	7620	25908	2540	12.0	50
	QXR-13Y 2FN2	220V~60Hz	13.5	2650	9010	900	4.2	20
	QXR-16Y 2FN1	220V~60Hz	16.4	3260	11084	1100	5.1	20
	QXR-19Y 4DN1	220V~60Hz	19.2	3910	13294	1300	6.0	25
	QXR-21Y 4DN2	220V~60Hz	21.3	4290	14586	1440	6.7	30
	QXR-25Y 4DN2	220V~60Hz	25.4	5060	17204	1720	8.2	30
	QXR-27Y 4DN2	220V~60Hz	26.4	5390	18326	1820	8.5	35
	QXR-33Y 5DS1	220V~60Hz	33.6	6810	23154	2320	10.6	45
	QXR-36Y 6BT1	220V~60Hz	35.7	7300	24820	2500	11.5	50
R407C	QXC-10K 2FN1	220-240V~50Hz	9.6	1580	5372	540	2.6	20
	QXC-13K 2FN1	220-240V~50Hz	13.5	2050	6970	700	3.4	25
	QXC-16K 2FN1	220-240V~50Hz	16.4	2670	9078	900	4.1	25
	QXC-19K 4DN1	220-240V~50Hz	19.2	3020	10268	1050	5.0	30
	QXC-21K 4DN1	220-240V~50Hz	21.3	3580	12172	1210	5.6	30
	QXC-23K 4DN1	220-240V~50Hz	23.5	3830	13022	1280	6.0	35
	QXC-25K 4DN1	220-240V~50Hz	25.4	4100	13940	1380	6.5	35
	QXC-30K 4DN1	220-240V~50Hz	29.2	4780	16252	1620	7.7	35
	QXC-33K 5DS1	220-240V~50Hz	33.6	5600	19040	1900	9.0	50
	QXC-36K 5DS1	220-240V~50Hz	35.7	6060	20604	2060	9.8	50
	QXC-41K 6BT1	220-240V~50Hz	41.2	6980	23732	2330	11.1	50

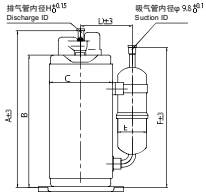
压缩机测试工况

TEST CONDITIONS:

用 途 APPLICATION	环境温度 AMBIENT TEMP.	回气温度 RETURN GAS TEMP.	冷凝温度 CONDENSING TEMP.	过冷温度 SUBCOOLING TEMP.	蒸发温度 EVAPORATING TEMP
高温 HIGH TEMP	35℃	35℃	54.4℃	46.1℃	7.2℃

R22、R407C空调用立式压缩机外形尺寸图

(Compressor external view)



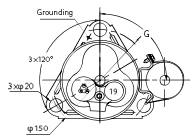
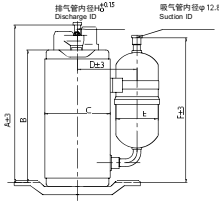


Figure 1



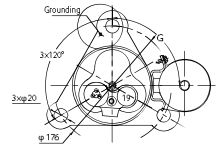


Figure 2

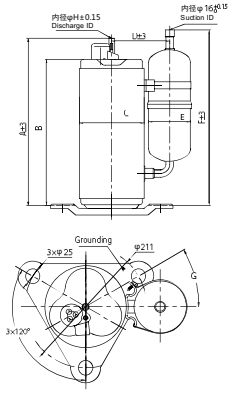
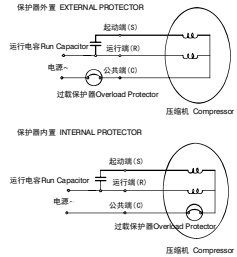


Figure 3

压缩机接线图：



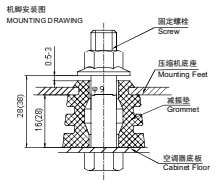


图1-3：[压缩机外形尺寸]EXTERNAL DIMENSIONS (MM)

型号Model	A	B	C	D	E	F	G	H	外形图 Dimensions
QXR-10E 2FN1	292.7	247.7	118	96	55	262.2	90°	8.1	Figure 1
QXR-13E 2FN1	292.7	247.7	118	96	55	262.2	90°	8.1	Figure 1
QXR-16E 2FN2	292.7	247.7	118	96	55	262.2	90°	8.1	Figure 1
QXR-13Y 2FN2	292.7	247.7	118	96	55	262.2	90°	8.1	Figure 1
QXR-16Y 2FN1	292.7	247.7	118	96	55	262.2	90°	8.1	Figure 1
QXC-10K 2FN1	292.7	247.7	118	96	55	262.2	90°	8.1	Figure 1
QXC-13K 2FN1	292.7	247.7	118	96	55	262.2	90°	8.1	Figure 1
QXC-16K 2FN1	292.7	247.7	118	96	55	262.2	90°	8.1	Figure 1
QXR-19E 4DN1	283	238	118	107	75	260	90°	8.1	Figure 2
QXR-19Y 4DN1	283	238	118	107	75	260	90°	8.1	Figure 2
QXC-19K 4DN1	283	238	118	107	75	260	90°	8.1	Figure 2
QXR-21E 4DN3	307.5	262.5	127.7	112	75	261.5	90°	8.1	Figure 2
QXR-23E 4DN1	307.5	262.5	127.7	112	75	261.5	90°	8.1	Figure 2
QXR-25E 4DN2	307.5	262.5	127.7	112	75	261.5	90°	8.1	Figure 2
QXR-21Y 4DN2	307.5	262.5	127.7	112	75	261.5	90°	8.1	Figure 2
QXC-21K 4DN1	307.5	262.5	127.7	112	75	261.5	90°	8.1	Figure 2
QXC-23K 4DN1	307.5	262.5	127.7	112	75	261.5	90°	8.1	Figure 2
QXC-25K 4DN1	307.5	262.5	127.7	112	75	261.5	90°	8.1	Figure 2
QXR-25Y 4DN2	307.5	262.5	127.7	112	75	261.5	90°	9.7	Figure 2
QXR-27Y 4DN2	307.5	262.5	127.7	112	75	261.5	90°	9.7	Figure 2
QXR-30E 4DN2	316.5	271.5	139.1	120	75	327.5	90°	9.7	Figure 2
QXC-30K 4DN1	316.5	271.5	139.1	120	75	327.5	90°	9.7	Figure 2
QXR-33E 4DS1	306	261.5	139.1	118	75	265	60°	9.7	Figure 3
QXR-36E 5DS1	316.5	271.5	139.1	120	80	327.5	60°	9.7	Figure 3
QXR-33Y 5DS1	316.5	271.5	139.1	120	80	327.5	60°	9.7	Figure 3
QXC-33K 5DS1	316.5	271.5	139.1	120	80	327.5	60°	9.7	Figure 3
QXC-36K 5DS1	316.5	271.5	139.1	120	80	327.5	60°	9.7	Figure 3
QXR-41E 6BT1	359.4	314.4	139.1	125	90	378.4	30°	9.7	Figure 3
QXR-44E 6BT1	359.4	314.4	139.1	125	90	378.4	30°	9.7	Figure 3
QXR-36Y 6BT1	359.4	314.4	139.1	125	90	378.4	30°	9.7	Figure 3
QXC-41K 6BT1	359.4	314.4	139.1	125	90	378.4	30°	9.7	Figure 3

BOYARD 博阳

R22、R410A、R134a空调压缩机性能参数（Compressor performance parameters）

该系列产品现已应用到空调、除湿机和工业冷水机等相关制冷领域。

Available for air-conditioner、dehumidifier and industrial water chillers,etc.

R22、R410A、R134a空调压缩机性能参数

COMPRESSOR PERFORMANCE PARAMETERS

制冷剂 Refrigerant		型 号 Model	电源规格 Power Supply	气缸容积 Cylinder Volume cm^3	制冷量 Refrigerating Capacity		输入功率 Input Power	COP值 (W/W)	电容 Capacitor
					W	Btu/h	W		ul/450VAC
1HP VERTICAL	R22	JVR075K*	220-240V/50HZ	7.5	1275	4348	405	3.15	15
		JVR092K*	220-240V/50HZ	9.2	1565	5337	495	3.15	20
		JVR132K*	220-240V/50Hz	13.2	2244	7652	712	3.15	20
		KVR149K*	220-240V/50Hz	14.9	2520	8593	800	3.15	25
		KVR164K*	220-240V/50Hz	16.4	2770	9446	880	3.15	25
		KVR192K*	220-240V/50Hz	19.2	3200	10912	1010	3.15	30
		KVR208K*	220-240V/50Hz	20.8	3535	12054	1120	3.15	30
		SVR236K*	220-240V/50Hz	23.6	3955	13487	1255	3.15	35
	R410A	KVA096K 2FN	220V-240V/50Hz	9.6	2250	7681	800	2.80	25
		SVA135K 4DN	220V-240V/50Hz	13.5	3190	10890	1120	2.85	30
	R134a	KVB096K 1FT	220V-240V/50Hz	9.6	1100	3740	370	2.95	15
		KVB135K 1FT	220V-240V/50Hz	13.5	1500	5100	490	3.06	20
		SVB254T 2DN	115V/60Hz	25.4	3500	11900	1185	2.95	50

*表示待开发　具体排量可以根据客户需求做调整和开发。

NOTE: In developing.(The displacement could be adjusted or developed as your requirement)

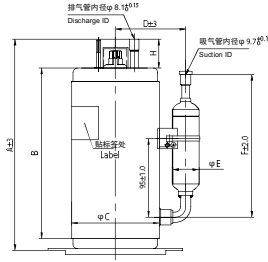
压缩机测试工况

TEST CONDITIONS:

用 途 APPLICATION.	环境温度 AMBIENT TEMP.	吸气温度 RETURN GAS TEMP.	冷凝温度 CONDENSING TEMP.	过冷温度 SUBCOOLING TEMP.	蒸发温度 EVAPORATING TEMP.
高 温 HIGH TEMP.	35℃	35℃	54.4℃	46.1℃	7.2℃

R22、R410A、R134a空调压缩机外形尺寸图

(Compressor external view)



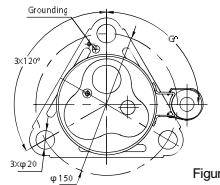
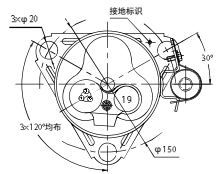


Figure 4



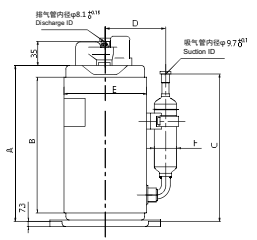
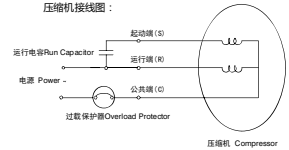


Figure 5

压缩机接线图：



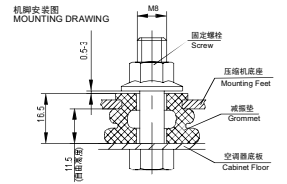


图4：[压缩机外形尺寸] EXTERNAL DIMENSIONS (MM)

型号Model	A	B	C	D	E	F	G	H
JVR132K 1EN	264	214.5	106.3	86.5	41.4	215	90	35
JVR092K 1EN	264	214.5	106.3	85	31.8	172.5	90	35
JVR075K 1EN	242	200	106.3	85	31.8	172.5	90	35
KVR149K 2FN	293	248	118	96	55	217.5	90	45
KVR164K 2FN	293	248	118	96	55	217.5	90	45
KVR192K 4DN	291	251	118	107	75	225	90	35
KVR208K 4DN	291	251	118	107	75	225	90	35
SVR236K 4DN	307.5	262.5	128	112	75	225	90	45

图5：[压缩机外形尺寸] EXTERNAL DIMENSIONS (MM)

型号Model	A	B	C	D	E	F
KVA096K 2FN	293	250	263	96	118	55
SVA135K 4DN	308	263	262	112	128	75
KVB096K 1FT	223	194	211	86	118	31.8
KVB135K 1FT	223	194	211	86	118	31.8
SVB254T 2DN	249	220	247	100	128	55

该系列产品现已应用到空调、除湿机和工业冷水机等相关制冷领域。

Available for air-conditioner、dehumidifier and industrial water chillers,etc.

R410A、R134a除湿机压缩机性能参数

COMPRESSOR PERFORMANCE PARAMETERS

制冷剂 Refrigerant		型号 Model	电源规格 Power Supply	气缸容积 Cylinder Volume cm^3	制冷量 Refrigerating Capacity W	制冷量 Refrigerating Capacity Btu/h	输入功率 Input Power W	COP值 (W/W)	电容 Capacitor uf/450VAC
卧式 VERTICAL	R410A	JVA075T	115V/60HZ	7.5	2060	7025	725	2.80	40
		JVA075K	220-240V/50HZ	7.5	1660	5661	615	2.80	20
		JVA090T	115V/60HZ	8.9	2440	8320	870	2.80	40
		JVA090K	220-240V/50HZ	8.9	1970	6718	700	2.80	20
	R134a	JVB075K*	220-240V/50HZ	7.5	870	2967	295	2.95	15
		JVB092K*	220-240V/50HZ	9.2	1060	3615	360	2.95	15
		JVB132K*	220-240V/50HZ	13.2	1530	5217	520	2.95	20
		JVB075T*	115V/60HZ	7.5	1050	3581	350	3.00	15
		JVB092T*	115V/60HZ	9.2	1250	4262	415	3.00	15
		JVB132T*	115V/60HZ	13.2	1850	6309	615	3.00	20

*表示待开发　具体排量可以根据客户需求做调整和开发。
NOTE: In developing.(The displacement could be adjusted or developed as your requirement)

压缩机测试工况

TEST CONDITIONS:

用 途 APPLICATION.	环境温度 AMBIENT TEMP.	吸气温度 RETURN GAS TEMP.	冷凝温度 CONDENSING TEMP.	过冷温度 SUBCOOLING TEMP.	蒸发温度 EVAPORATING TEMP.
高 温 HIGH TEMP.	35℃	35℃	54.4℃	46.1℃	7.2℃

R410A、R134a除湿机压缩机外形尺寸图

(Compressor external view)

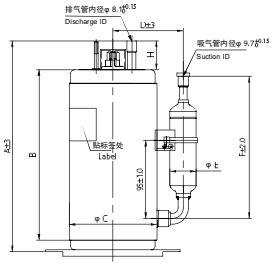
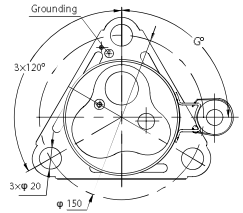
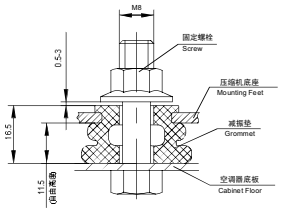


Figure 6



机脚安装图
MOUNTING DRAWING



压缩机接线图：

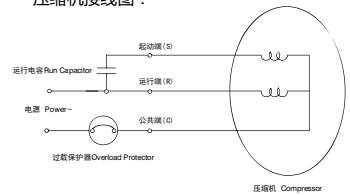


图6：[压缩机外形尺寸]EXTERNAL DIMENSIONS (MM)

型号Model	A	B	C	D	E	F	G	H
JVB132T 1EN1	264	214.5	106.3	86.5	41.4	215	90	35
JVB092T 1EN1	252	210	106.3	85	31.8	172.5	90	35
JVB075T 1EN1	227	182.5	106.3	85	31.8	172.5	90	35
JVB132K 1EN1	264	214.5	106.3	86.5	41.4	215	90	35
JVB092K 1EN1	252	210	106.3	85	31.8	172.5	90	35
JVB075K 1EN1	227	182.5	106.3	85	31.8	172.5	90	35
JVA090K 1EN1	252	210	106.3	85	31.8	172.5	90	35
JVA090T 1EN1	264	214.5	106.3	86.5	31.8	215	90	35
JVA075K 1EN1	252	210	106.3	85	31.8	172.5	90	35
JVA075T 1EN1	264	214.5	106.3	85	31.8	172.5	90	35

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R134a、R22热泵热水器，R134a干衣机用压缩机性能参数 (Compressor performance parameters)

该系列产品现已应用到空调、热泵热水器、干衣机、基站空调和工业冷水机等相关制冷领域。

Available for air-conditioner、heat pump、clothes dryer、cabinet air conditioner and industrial water chillers,etc.

热泵热水器压缩机,干衣机用压缩机性能参数
COMPRESSOR PERFORMANCE PARAMETERS

	制冷剂 Refrigerant		型号 Model	电源规格 Power Supply	气缸容积 Cylinder Volume cm^3	制冷量 Refrigerating Capacity		输入功率 Input Power	COP值 (W/W)
						W	Btu/h	W	
热泵热水器用压缩机 Heat-pump Water Heater Comp.	立式 VERTICAL	R134a	KVB149K*	220V/50HZ	14.9	2350	7990	610	3.85
			KVB164K	220V/50HZ	16.4	2400	8160	630	3.80
			KVB184K*	220V/50HZ	18.4	2900	9860	750	3.85
			KVB208K*	220V/50HZ	20.8	3300	11220	860	3.85
		R22	SVB250K*	220V/50HZ	25.0	3950	13430	1000	3.95
			TVB357K*	220V/50HZ	35.7	5300	18020	1350	3.92
			KVR149K*	220V/50HZ	14.9	3530	12002	875	4.00
			KVR164K	220V/50HZ	16.4	3710	12614	940	3.95
			KVR250K*	220V/50HZ	25.0	5750	19550	1500	3.83
			TVR357K*	220V/50HZ	35.7	8000	27200	2100	3.80
干衣机用压缩机 Clothes Dryer Comp.	立式 VERTICAL	R134a	JVB075K	220-240V/50HZ	7.5	855	2916	295	2.90
			JVB092K	220-240V/50HZ	9.2	1050	3581	365	2.90
			JVB132K	220-240V/50HZ	13.2	1500	5115	515	2.90

*表示待开发　具体排量可以根据客户需求做调整和开发。
NOTE: In developing.(The displacement could be adjusted or developed as your requirement).

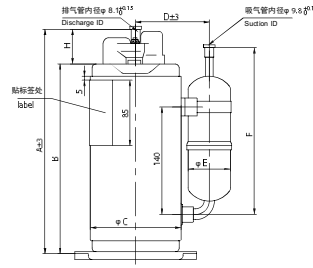
热泵热水器用压缩机测试工况
HEAT-PUMP WATER HEATER COMPRESSOR **TEST CONDITIONS**:

用途 APPLICATION.	环境温度 AMBIENT TEMP.	吸气温度 RETURN GAS TEMP.	冷凝温度 CONDENSING TEMP.	过冷温度 SUBCOOLING TEMP.	蒸发温度 EVAPORATING TEMP.
高温 HIGH TEMP.	35℃	20℃	60℃	10℃	10℃

干衣机用压缩机测试工况
CLOTHES DRYER COMPRESSORT**EST CONDITIONS**:

用途 APPLICATION.	环境温度 AMBIENT TEMP.	吸气温度 RETURN GAS TEMP.	冷凝温度 CONDENSING TEMP.	过冷温度 SUBCOOLING TEMP.	蒸发温度 EVAPORATING TEMP.
高温 HIGH TEMP.	35℃	35℃	54.4℃	46.1℃	7.2℃

R134a、R22热泵热水器，R134a干衣机用压缩机外形尺寸图
(Compressor external view)



压缩机接线图：

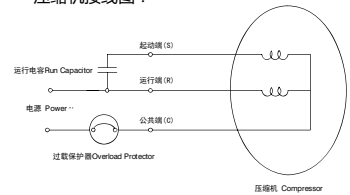
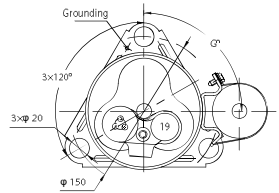


Figure 7



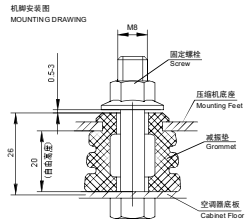


图7：[压缩机外形尺寸] EXTERNAL DIMENSIONS (MM)

型号 Model	A	B	C	D	E	F	G	H
JVB132K 1ET2	264	214.5	106.3	86.5	41.4	215	30	35
JVB092K 1ET2	252	210	106.3	85	31.8	172.5	30	35
JVB075K 1ET2	242	200	106.3	85	31.8	172.5	30	35
KVB149K 2FN	283	248	118	96	55	217.5	90	35
KVB164K 2FN	283	248	118	96	55	217.5	90	35
KVB208K 4DN	291	251	118	107	75	225	90	35
SVB250K	-	-	-	-	-	-	-	-
TVB357K	-	-	-	-	-	-	-	-
KVR149K 2FN	283	248	118	96	55	217.5	90	35
KVR164K 2FN	283	248	118	96	55	217.5	90	35
KVR250K	-	-	-	-	-	-	-	-
TVR357K	-	-	-	-	-	-	-	-

R22、R407C、R410A、R134a空调用卧式压缩机性能参数（Compressor performance parameters）

该产品具有高度低安装方便的特点，现已广泛应用于房车空调，塔吊空调等对安装空调有特殊要求的相关领域。

Low height, installing easily, And widely used for RV, caravan Vehicle air conditioner and other special relative industry.

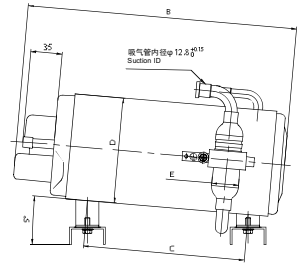
R22、R407C、R410A、R134a空调用卧式压缩机性能参数
COMPRESSOR PERFORMANCE PARAMETERS

制冷剂 Refrigerant		型 号 Model	电源规格 Power Supply	气缸容积 Cylinder Volume cm^3	制冷量 Refrigerating Capacity		输入功率 Input Power	电流 Current	电容 Capacitor
					W	Btu/h	W	A	uf/450VAC
卧式 HORIZONTAL	R22	QHR-10E 8A	220V/50Hz	9.6	1550	5270	530	2.45	20
		QHR-13E 8A	220V/50Hz	13.5	2120	7208	750	3.5	25
		QHR-16E 8A	220V/50Hz	16.4	2730	9282	950	4.5	25
		QHR-19E 8A	220V/50Hz	19.6	3210	10914	1120	5.1	30
		QHR-23E 8A	220V/50Hz	23.5	3920	13328	1360	6.3	35
		QHR-30E 9C	220V/50Hz	30.7	5200	17680	1800	8.6	50
		QHR-36E 9C	220V/50Hz	35.7	6060	20604	2090	9.8	50
	R407C	QHC-10K 8Y	220-240V/50Hz	9.6	1580	5372	540	2.6	15
		QHC-13K 8A	220-240V/50Hz	13.5	2120	7208	730	3.4	20
		QHC-16K 8A	220-240V/50Hz	16.4	2670	9078	900	4.1	25
		QHC-19K 8A	220-240V/50Hz	19.6	3120	10607	1100	5.1	30
		QHC-23K 8A	220-240V/50Hz	23.5	3830	13022	1280	6	35
		QHC-30K 9C	220-240V/50Hz	30.7	5200	17680	1800	8.6	50
		QHC-36K 9C	220-240V/50Hz	35.7	6060	20640	2090	9.8	50
	R410A	KFA096K 8A	220V-240V/50Hz	9.6	2250	7681	800	3.8	25
		SFA135K 8A	220V-240V/50Hz	13.5	3190	10890	1120	5.2	30
		SFA135T 8A	115V/60Hz	13.5	3920	13382	1350	12.2	90
	R134a	SFB236T 9A	115V/60Hz	23.6	3250	11050	1100	10	50

压缩机测试工况
TEST CONDITIONS:

用 途 APPLICATION	环境温度 AMBIENT TEMP.	吸气温度 RETURN GAS TEMP.	冷凝温度 CONDENSING TEMP.	过冷温度 SUBCOOLING TEMP.	蒸发温度 EVAPORATING TEMP.
高 温 HIGH TEMP.	35℃	35℃	54.4℃	46.1℃	7.2℃

R22、R407C、R410A、R134a空调用卧式压缩机外形尺寸图
(Compressor external view)



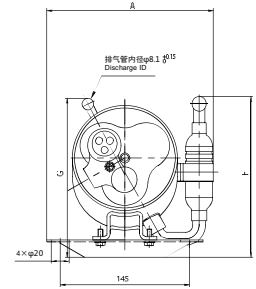
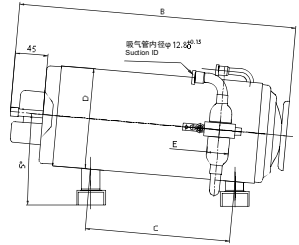


Figure 8



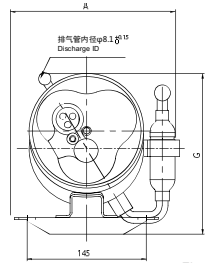


Figure 9

图8-9：[压缩机外形尺寸] EXTERNAL DIMENSIONS (MM)

型号 Model	A	B	C	D	E	F	G	外形图 Dimensions
QHR-10E 8A	187	300	180	118	30	180		Figure8
QHR-13E 8A	187	300	180	118	30	180		Figure8
QHR-16E 8A	187	300	180	118	30	180		Figure8
QHR-19E 8A	195	342	180	128	30		190	Figure8
QHR-23E 8A	195	342	180	128	30		190	Figure8
QHR-30E 9C	220	384	200	139.1	48		195	Figure9
QHR-36E 9C	220	384	200	139.1	48		195	Figure9
QHC-10K 8Y	187	300	180	118	30	180		Figure8
QHC-13K 8A	187	300	180	118	30	180		Figure8
QHC-16K 8A	187	300	180	118	30	180		Figure8
QHC-19K 8A	195	342	180	128	30		190	Figure8
QHC-23K 8A	195	342	180	128	30		190	Figure8
QHC-30K 9C	220	384	200	139.1	48		195	Figure9
QHC-36K 9C	220	384	200	139.1	48		195	Figure9
KFA096K 8A	190	302	180	118	30		165	Figure8
SFA135K 8A	195	340	180	128	30		175	Figure8
SFA135T 8A	195	340	180	128	30		175	Figure8
SFB236T 9A	216	340	180	128	48		175	Figure8

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R134a、R407c直流压缩机性能参数 (Compressor performance parameters)

DC 12V/24V/48V/72V无刷直流变频压缩机可以广泛应用于卡车、电动汽车、特种车、舰艇、热泵、太阳能空调和基站空调。具有安全、节能、环保的特性。

BLDC compressor 12V/24V/48V/72V has the character of safety. Energy-saving and environmental protection. It is widely used in air conditionting system of truck sleeper, electric-vehicle,special vehicle,vessel,heat pump、solar air conditioner and telecom-shelter etc.

R134a、R407c直流压缩机性能参数
COMPRESSOR PERFORMANCE PARAMETERS

制冷剂 Refrigerant		型 号 Model	电源规格 Power Supply	气缸容积 Cylinder Volume cm^3	制冷量 Refrigerating Capacity		输入功率 Input Power	额定转速 Rated Speed	转速变化范围 Speed Range
					W	Btu/h	W	rpm	rpm
立式VERTICAL	R134a	XB075Z12 1EN	DC12V	7.5	850	2890	340	3300	2000-3700
		XB075Z24 1EN	DC24V	7.5	850	2890	340	3300	2200-4300
		XB075Z72 1EN	DC72V	7.5	850	2890	283	3300	2500-4500
		KVB096Z24 2FN	DC24V	9.6	1200	4080	400	3300	2500-4500
		KVB096Z48 2FN	DC48V	9.6	1200	4080	400	3300	2500-4500
		KVB096Z72 2FN	DC72V	9.6	1200	4080	380	3300	2500-4500
		KVB135Z24 2FN	DC24V	13.5	1780	6076	570	3300	2500-4500
		KVB135Z48 2FN	DC48V	13.5	1780	6076	560	3300	2500-4500
		KVB135Z72 2FN	DC72V	13.5	1780	6076	550	3300	2500-4500
		SVB208Z48 4DN	DC48V	20.8	2870	9758	970	3600	2000-4200
卧式HORIZONTAL	R134a	HB075Z12 8J	DC12V	7.5	850	2890	340	3300	2000-3700
		HB075Z24 0J	DC24V	7.5	850	2890	340	3300	2200-4300
		HB075Z72 8J	DC72V	7.5	850	2890	283	3300	2500-4500
		JFB092Z24	DC24V	9.2	1250	4250	380	3300	2500-4500
		KFB096Z24 8L	DC24V	9.6	1200	4080	400	3300	2500-4500
		KFB096Z48 8L	DC48V	9.6	1200	4080	400	3300	2500-4500
		KFB096Z72 8L	DC72V	9.6	1200	4080	380	3300	2500-4500
		KFB135Z24 8L	DC24V	13.5	1780	6076	570	3300	2500-4500
		KFB135Z48 8L	DC48V	13.5	1780	6076	570	3300	2500-4500
		KFB135Z72 8J	DC72V	13.5	1780	6076	550	3300	2500-4500
		KFB135Z72 8JO1	DC72V	13.5	2500	8535	740	4500	2500-4800
		KFB164Z72 8J	DC72V	16.4	3100	10583	900	4500	2500-4800
		KFB208Z48	DC48V	20.8	2900	9860	915	3600	1800-5400
		KFB208Z72	DC72V	20.8	3625	12325	1130	4500	1800-6000
	R407c	TFC488Z*	DC	48.8	13000	44200	4200	4500	1800-6000
		TFC357J*	AC	35.7	6900	23460	2300	60HZ	30-105HZ
		TFC412J*	AC	41.2	7950	27030	2650	60HZ	30-105HZ

注：制冷量输入功率和转速变化范围为用本公司专用控制器测试结果， 允许制冷量为额定值的95% 以上， 输入功率为额定值的110%以下。
Note: The data of Cooling capacity, Input power, speed range are the testing result by adopting our special controller.

压缩机测试工况
TEST CONDITIONS:

环境温度 AMBIENT TEMP.	蒸发温度 EVAPORATING TEMP.	吸气温度 RETURN GAS TEMP.	过冷温度 SUBCOOLING TEMP.	冷凝温度 CONDENSING TEMP.	测试风速 TESTING WIND SPEED
35℃	7.2℃	35℃	46.1℃	54.4℃	2m/s

R134a、R407c直流压缩机外形尺寸图
(Compressor external view)

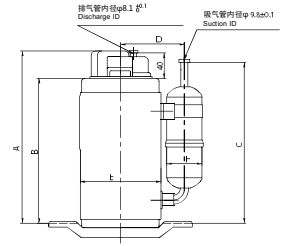


Figure 10

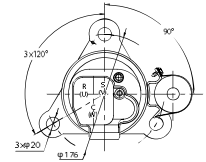


图10：[压缩机外形尺寸]EXTERNAL DIMENSIONS (MM)

型号 Model	A	B	C	D	E	F
XB075Z12 1EN	227	184.7	221.2	85	106.3	31.8
XB075Z24 1EN	227	184.7	221.2	85	106.3	31.8
XB075Z72 1EN	227	184.7	221.2	85	106.3	31.8
KVB096Z24 2FN	265.5	222.5	262.2	96	118	55
KVB096Z48 2FN	265.5	222.5	262.2	96	118	55
KVB096Z72 2FN	265.5	222.5	262.2	96	118	55
KVB135Z24 2FN	265.5	222.5	262.2	96	118	55
KVB135Z48 2FN	265.5	222.5	262.2	96	118	55
KVB135Z72 2FN	265.5	222.5	262.2	96	118	55
SVB208Z48 4DN	271.5	228.5	254	101	127.7	55

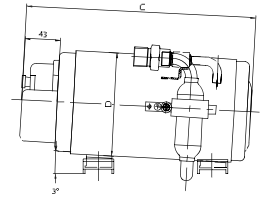


Figure 11

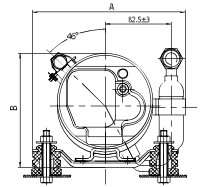
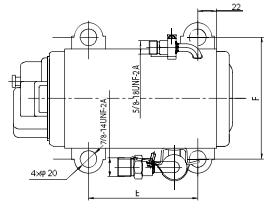


图11：[压缩机外形尺寸]EXTERNAL DIMENSIONS (MM)

型号 Model	A	B	C	D	E	F
HB075Z12 8J	174	139.6	260	106	130	129
HB075Z24 0J	169	129.5	260	106	130	129
HB075Z72 8J	174	139.6	260	106	130	129
KFB096Z24 8L	190	162	284	118	160	145
KFB096Z48 8L	190	162	284	118	160	145
KFB096Z72 8L	190	162	284	118	160	145
KFB135Z24 8L	190	162	284	118	160	145
KFB135Z48 8L	190	162	284	118	160	145
KFB135Z72 8J	190	162	284	118	160	145
KFB135Z72 8J01	190	162	284	118	130	145
KFB164Z72 8J	190	162	284	118	130	145



BOYARD 博阳

R22、R404A冷藏冷冻用中低温压缩机性能参数(Compressor performance parameters)

该产品具有重量轻、噪音低、高能效、宽电压运行范围以及排气温度低运行寿命长等特点，现已广泛应用于超市岛柜，风幕柜等商用冷藏冷冻设备。

This series of Compressor,light weight, low noise, high efficiency, low discharge temperature, long operation life and are able to work under wide voltage. It's widely used for supermarket cabinet, air curtain cabinet and other commercial refrigeration & freezing equipments.

R22、R404A冷藏冷冻用中低温压缩机性能参数
COMPRESSOR PERFORMANCE PARAMETERS

制冷剂 Refrigerant		型 号 Model	电源规格 Power Supply	气缸容积 Cylinder Volume cm^3	不同蒸发温度对应的制冷量 W Different evaporating temperature corresponding refrigerating capacity W						
					-40	-30	-23.3	-20	-15	-10	-5
立式 VERTICAL	R22	KXL096ES 4DN	220V/50Hz	9.6	224	397	560	598	737	863	1060
		QXL-13E 4DN	220V/50Hz	13.5	260	465	745	800	1050	1365	1748
		QXL-16E 4DN	220V/50Hz	16.4	385	560	920	1020	1300	1670	2150
		QXL-19E 4DN	220V/50Hz	19.2	450	650	1010	1200	1530	1960	2490
		QXL-23E 4DN	220V/50Hz	23.5	560	810	1230	1380	1820	2430	3142
		QXL-30E 4DN	220V/50Hz	30.7	730	1050	1690	2020	2430	3180	4000
		QXL-36E 4DN	220V/50Hz	35.7	850	1250	1886	2304	2860	3650	4576
		QXL-41E 5DS	220V/50Hz	41.2	980	1440	2300	2650	3300	4200	5279
	R404A	KXD096KS 4DN	220-240V/50Hz	9.6	314	470	570	723	907	1100	1328
		QXD-13K 4DN	220-240V/50Hz	13.5	430	650	845	995	1230	1506	1816
		QXD-16K 4DN	220-240V/50Hz	16.4	539	780	1046	1235	1515	1840	2210
		QXD-19K 4DN	220-240V/50Hz	19.2	630	920	1230	1450	1780	2165	2605
		QXD-23K 4DN	220-240V/50Hz	23.5	785	1130	1516	1790	2130	2645	3170
		QXD-30K 4DN	220-240V/50Hz	30.7	1023	1480	2100	2320	2832	3500	4341
		QXD-36K 4DN	220-240V/50Hz	35.7	1200	1750	2303	2720	3315	4020	4840
		QXD-41K 5DS	220-240V/50Hz	41.2	1380	2020	2650	3140	3825	4640	5600
卧式 HORIZONTAL	R22	QHL-13E 8A	220V/50Hz	13.5	260	465	745	800	1050	1365	1748
		QHL-16E 8A	220V/50Hz	16.4	385	560	924	1020	1300	1670	2150
		QHL-23E 8A	220V/50Hz	23.5	560	810	1234	1380	1820	2430	3142
		QHL-30E 9C	220V/50Hz	30.7	730	1050	1694	2020	2430	3180	4000
		QHL-36E 9C	220V/50Hz	35.7	850	1250	1886	2304	2860	3650	4576
		THR357F	380V/50HZ	35.7	850	1250	1886	2304	2860	3650	4576
		THR412F	380V/50HZ	41.2	980	1440	2300	2650	3300	4200	5279
	R404A	QHD-13K 8A	220-240V/50Hz	13.5	430	650	845	995	1230	1506	1816
		QHD-16K 8A	220-240V/50Hz	16.4	539	780	1046	1235	1515	1840	2210
		QHD-23K 8A	220-240V/50Hz	23.5	785	1130	1516	1790	2180	2645	3170
		QHD-30K 9C	220-240V/50Hz	30.7	1023	1480	2100	2320	2832	3500	4341
		QHD-36K 9C	220-240V/50Hz	35.7	1200	1750	2303	2720	3315	4020	4840
		THD357F	380V/50HZ	35.7	1200	1750	2303	2720	3315	4020	4840
		THD412F	380V/50HZ	41.2	1380	2020	2650	3140	3825	4640	5600
		KHD135YS 8A	220V/60Hz	13.5	560	845	1100	1295	1600	1950	2350
		KHD164YS 8A	220V/60Hz	16.4	710	1030	1380	1625	2000	2415	2875
		SHD236YS 8A	220V/60Hz	23.6	960	1380	1860	2195	2675	3240	3900
		THD307YS 9C	220V/60Hz	30.7	1235	1785	2350	2795	3415	4215	5100
		THD357YS 9C	220V/60Hz	35.7	1355	1980	2600	3075	3745	4545	5475

压缩机测试工况
TEST CONDITIONS:

用 途 APPLICATION	环境温度 AMBIENT TEMP.	吸气温度 RETURN GAS TEMP.	冷凝温度 CONDENSING TEMP.	过冷温度 SUBCOOLING TEMP.	试验电源 TESTING POWER SUPPLY
中低温 MEDIUM/LOW	32.2℃	32.2℃	54.4℃	32.2℃	220V – 50Hz

R22、R404A冷藏冷冻用中低温压缩机外形尺寸图
(Compressor external view)

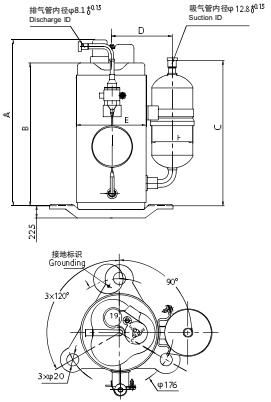


Figure 12

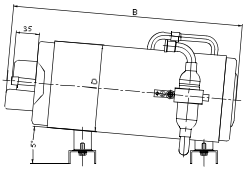


Figure 13

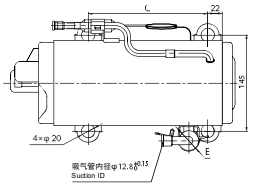


图12：[压缩机外形尺寸]EXTERNAL DIMENSIONS (MM)

型号 Model	A	B	C	D	E	F
KXL096ES 4DN	281	251	268	106.5	118	75
QXL-13E 4DN	281	251	268	106.5	118	75
QXL-16E 4DN	281	251	268	106.5	118	75
QXL-19E 4DN	281	251	268	106.5	118	75
QXL-23E 4DN	304.5	262.5	266	112	128	75
QXL-30E 4DN	316.5	271.5	278.5	117.7	139.1	75
QXL-36E 4DN	316.5	271.5	278.5	117.7	139.1	75
QXL-41E 5DS	355.5	313.5	349.5	119.7	139.1	80
KXD096ES 4DN	281	251	268	106.5	118	75
QXD-13K 4DN	281	251	268	106.5	118	75
QXD-16K 4DN	281	251	268	106.5	118	75
QXD-19K 4DN	281	251	268	106.5	118	75
QXD-23K 4DN	304.5	262.5	266	112	128	75
QXD-30K 4DN	316.5	271.5	278.5	117.7	139.1	75
QXD-36K 4DN	316.5	271.5	278.5	117.7	139.1	75
QXD-41K 5DS	355.5	313.5	349.5	119.7	139.1	80

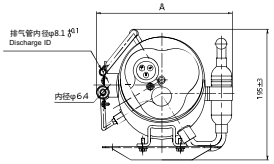


图13：[压缩机外形尺寸]EXTERNAL DIMENSIONS (MM)

型号 Model	A	B	C	D	E	工艺脚 Process base
QHL-13E 8A(QHD-13K 8A)	190	300	180	118	30	无None
QHL-16E 8A(QHD-16K 8A)	190	300	180	118	30	无None
QHL-23E 8A(QHD-23K 8A)	200	340	180	128	30	无None
QHL-30E 9C(QHD-30K 9C)	231	384	200	139.1	48	有Yes
QHL-36E 9C(QHD-36K 9C)	231	384	200	139.1	48	有Yes
KHD135YS 8A	190	300	180	118	30	无None
KHD164YS 8A	190	300	180	118	30	无None
SHD236YS 8A	200	340	180	128	30	无None
THD307YS 9C	231	384	200	139.1	48	有Yes
THD357YS 9C	231	384	200	139.1	48	有Yes

BOYARD 博阳

冷凝机组特点（Condensing unit instruction）

应用范围：

适用于冷冻冷藏柜、小型冷库、厨房冷柜、超市岛柜、展示柜、制冰机、冰淇淋机、中低温实验设备及专用设备、车用移动冷藏设备等。

Applications:

Applied to commercial freezing coldstorage showcase,kitchen equipment,refrigeration storeroom,vehicle refrigeration equipment and other refrigeration equipments.

■ 机组特点：

1、采用高能效比的旋转式压缩机及电机，省电10%以上。

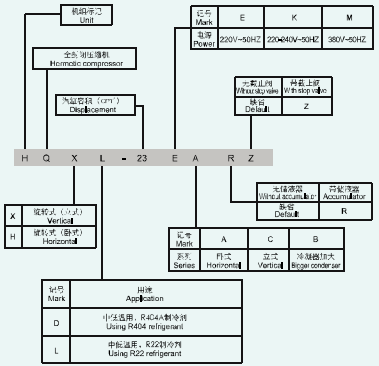
2、适用环保制冷剂R404A及过渡工质R22，可在-5℃~-40℃的蒸发温度范围内工作，同一台机组既可用于中温，又可用于低温。

3、卧式机组高度低275mm可使陈列柜获得最大的有效容积。

4、结构紧凑可直接安装于设备内部，为用户提供更大的有效空间，减少安装费用，省时省力。

5、宽电压带运转，工作电压为187V~240V。

6、采用喷液冷却装置降低电机温度，充实的功能部件与保护装置，噪音低，安全可靠。



■ Condensing untis:

1、Using high efficiency rotary compressor and motor,it can save more than 10% energy.

2、Operates with R22 and environmental -friendly refrigerant HFC 404A.Evaporating temperature is from -5℃ to -40℃, Condensing unit can work under medium temperature condition and low temperature condition as well.

3、The total height of the unit 275mm,provide more effective volume in the showcase.

4、Horizontal rotary compressor makes condensing unit more compact.

5、Voltage range is 187V~240V.

6、Compressors are able to work continuously under high-temperature condition.Liquid injection cooling technology reduces compressor temperature,Protective parts enable the unit more reliable.

注意：

1、应尽量控制冷媒充注量，最多不能超过表中值；

2、吸气管及蒸发器管径应考虑回油并再次确认流速后确定；

3、替代R12机型时管径选择应注意保证气体流速在横管内达到3.8m/s以上，在竖管内达到7.6m/s以上；

4、单侧管长应在10m以下，此时高差应在3m以下。

Note:

1、Refrigerant charge must be controlled strictly.The maximum amount is listed in the table.

2、Diameter of the suction and evaporating pipes should be decided by oil circulation and reconfirmation of gas speed.

3、The diameter of pipes must guarantee the gas speed of 3.8M/s through horizontal pipes and 7.6M/s through vertical ones.

4、The single pipe length should less than 10M,and height difference should be within 3M.

HQHL(R22)系列冷凝机组技术数据

HQHL(R22)SERIES CONDENSING UNIT PERFORMANCE PARAMETERS

机组型号 MODEL			HQHL-13EBR	HQHL-16EBR	HQHL-23EBR	HQHL-30EBR	HQHL-36EBR	HQHL-41MBR*
名义输入功率 NOMINAL INPUT（W）①			620	790	1140	1360	1600	1850
电源 POWER SUPPLY			单相SINGLE PHASE: 220V/50Hz					三相3PH 380V/50Hz
使用工质（最大加液量）REFRIGERANT MAX.(Kg)			R22(1.2)	R22(1.5)	R22(2.0)	R22(3.0)	R22(3.0)	R22(3.7)
启动电流START-UP CURRENT (A)			20	25	30	40	42	28
最大运行电流 MAX RUNING CURRENT（A）②			3.5	4.2	6.1	7.3	8.5	5.6
蒸发温度范围 AMBIENT TEMP.(℃)			-40~0					
使用环境温度范围 AMBIENT TEMP.(℃)			-7~43					
压缩机（型号）COMPRESSOR (MODEL)			QHL-13E	QHL-16E	QHL-23E	QHL-30E	QHL-36E	THR412F
冷凝器 CONDENSER	规格 STYLE		3排5环	4排5环	4排5环	4排5环	4排5环	5排5环
	风扇电机 FAN MOTOR	风扇直径*数量 DIAMETER QUANTITY(mm)	Φ230*2(10W*2)	Φ230*2(16W*2)	Φ230*2(16W*2)	Φ230*3(16W*3)	Φ230*3(16W*3)	Φ230*4(16W*4)
		风量 AIR FLOW(m³/hr)	680*2	820*2	820*2	820*3	820*3	820*4
接管PIPE (mm)	吸气口（直径）GAS INLET DIAM		Φ12.7(1/2")					Φ15.88(5/8")
	液体出口（直径）LIQUID OUTLET		Φ9.53(3/8")					
外形尺寸 OUT DIMENSION	长LENGTH(mm)		680	680	790	910	1145	1230
	宽WIDTH(mm)		485	485	520	520	520	520
	高HEIGHT(mm)		275	275	275	275	275	275
成品重量WEIGHT(kg)			31.5	32.9	39.2	50.2	52.4	59.7
制冷量 REFRIGERATION CAPACITY	蒸发温度EVAP.TEMP.(℃)		制冷量REFRIGERATION CAPACITY: W(Kcal/h) 冷凝温度CONDENSING TEMP. 45℃ 环境温度 AMBIENT TEMP. 32℃					
	-40		410(355)	505(434)	670(580)	845(730)	952(819)	1350(1160)
	-35		532(458)	650(560)	820(709)	1136(982)	1245(1071)	1684(1444)
	-30		656(563)	800(688)	1005(870)	1392(1205)	1550(1334)	2080(1785)
	-25		793(682)	969(833)	1240(1070)	1718(1483)	1978(1701)	2550(2190)
	-20		969(833)	1183(1017)	1500(1295)	2029(1752)	2406(2069)	3100(2670)
	-15		1164(1000)	1421(1223)	1810(1590)	2489(2151)	2881(2478)	3740(3210)
	-10		1416(1217)	1728(1486)	2125(1825)	2875(2469)	3342(2874)	4490(3860)
	-5		1672(1438)	2042(1756)	2440(2095)	3311(2835)	3894(3349)	5350(4600)
接线容量 WIRING CAPACITY	漏电保护器 LEAKAGE PROTECTOR	额定电流 RATED CURRENT(A)	10	10	15	20	25	25
		泄漏电流≤ LEAK CURRENT(MA)	30	30	30	30	30	30
	线径 DIAMETER (mm²)	10m以内IN10m	2.0	2.0	2.0	4.0	4.0	4.0
		20m以内IN20m	2.0	2.0	2.5	5.5	5.5	5.5
		30m以内IN30m	2.0	2.0	2.5	5.5	5.5	5.5

注：①表示名义制冷量的测试工况；②表示最大运行电流的测试工况；③ *表示待开发。

①refrigerating capacity test condition；②The biggest running current test condition；③ In developing.

测试工况：

TEST CONDITIONS:

编号	试验条件 TEST CATION	环境温度 AMBIENT TEMP.	吸气温度 RETURN GAS TEMP.	蒸发温度 EVAP. TEMP.	试验电源 TESTING POWER SUPPLY
①	名义工况 Standard test conditions	32.2℃	5℃	-23℃	220V ~ 50HZ
②	最大运行 OVERLOAD RUNNING	43℃	5℃	-23℃	220V ~ 50HZ

HQHD(R404A)系列冷凝机组技术数据

HQHD(R404A)SERIES CONDENSING UNIT PERFORMANCE PARAMETERS

机组型号 MODEL			HQHD-13KARZ	HQHD-16KARZ	HQHD-23KARZ	HQHD-30KARZ	HQHD-36KARZ	HQHD-41MARZ*
名义输入功率 NOMINAL INPUT (W)①			720	900	1280	1500	1730	1950
电源 POWER SUPPLY			单相SINGLE PHASE: 220V~240V/50Hz					三相3PH 380V/50Hz
使用工质（最大加液量）REFRIGERANT MAX.(Kg)			R404A(1.2)	R404A(1.5)	R404A(2.0)	R404A(3.0)	R404A(3.0)	R404A(3.7)
启动电流START-UP CURRENT (A)			20	27	38	42	50	30
最大运行电流 MAX RUNING CURRENT（A）②			4.0	5.0	7.0	8.5	10.0	6.7
蒸发温度范围 AMBIENT TEMP.(℃)			-40~0					
使用环境温度范围 AMBIENT TEMP.(℃)			-7~43					
压缩机（型号）COMPRESSOR (MODEL)			QHD-13E	QHD-16E	QHD-23E	QHD-30E	QHD-36E	THD412F
冷凝器 CONDENSER	规格 STYLE		4排4环	4排5环	4排5环	4排5环	4排5环	5排5环
	风扇 电机 FAN MOTOR	风扇直径*数量 DIAMETER QUANTITY(mm)	Φ230*2(10W*2)	Φ230*2(16W*2)	Φ230*2(16W*2)	Φ230*3(16W*3)	Φ230*3(16W*3)	Φ230*4(16W*4)
		风量 AIR FLOW(m³/hr)	680*2	820*2	820*2	820*3	820*3	820*4
接管PIPE (mm)	吸气口（直径）GAS INLET DIAM		Φ12.7(1/2")					Φ15.88(5/8")
	液体出口（直径）LIQUID OUTLET		Φ9.53(3/8")					
外形尺寸 OUT DIMENSION	长LENGTH(mm)		640	680	790	940	1145	1230
	宽WIDTH(mm)		485	485	520	520	520	520
	高HEIGHT(mm)		275	275	275	275	275	275
成品重量WEIGHT(kg)			34	35	41.3	50.5	52.8	59.7
制冷量 REFRIGERATION CAPACITY	蒸发温度EVAP.TEMP.(℃)		制冷量REFRIGERATION CAPACITY: W(Kcal/h) 冷凝温度CONDENSING TEMP.: 45℃ 环境温度 AMBIENT TEMP.: 32℃					
	-40		504(433)	630(542)	850(731)	1200(1032)	1250(1075)	1423(1224)
	-35		654(562)	820(705)	1104(949)	1506(1295)	1604(1379)	1828(1572)
	-30		807(694)	950(817)	1240(1066)	1803(1551)	2030(1746)	2314(1990)
	-25		975(839)	1203(1035)	1565(1346)	2200(1892)	2560(2202)	2918(2509)
	-20		1190(1023)	1430(1230)	1890(1625)	2604(2239)	3050(2623)	3480(2993)
	-15		1430(1230)	1705(1466)	2130(1832)	2950(2537)	3500(3010)	3990(3431)
	-10		1790(1539)	2050(1763)	2460(2116)	3560(3062)	4230(3638)	4822(4147)
	-5		2130(1830)	2340(2012)	2827(2431)	3911(3363)	5000(4300)	5720(4919)
接线容量 WIRING CAPACITY	漏电保护器 LEAKAGE PROTECTOR	额定电流 RATED CURRENT(A)	10	15	20	20	20	20
		漏电流≤ LEAK CURRENT(MA)	30	30	30	30	30	30
	线径 DIAMETER (mm²)	10m以内IN10m	2.0	2.0	2.0	4.0	4.0	4.0
		20m以内IN20m	2.0	2.5	2.5	6.0	6.0	6.0
		30m以内IN30m	2.0	2.5	2.5	6.0	6.0	6.0

注：①表示名义制冷量的测试工况；②表示最大运行电流的测试工况；③ *表示待开发。
①refrigerating capacity test condition; ②The biggest running current test condition; ③ In developing.

测试工况:

TEST CONDITIONS:

编号	试验条件 TEST CATION	环境温度 AMBIENT TEMP.	回气温度 RETURN GAS TEMP.	蒸发温度 EVAP. TEMP.	试验电源 TESTING POWER SUPPLY
①	名义工况 Standard test conditions	32.2℃	5℃	-23℃	220V ~ 240V/50HZ
②	最大运行 OVERLOAD RUNNING	43℃	5℃	-23℃	220V ~ 240V/50HZ

尺寸图
Dimension Drawing

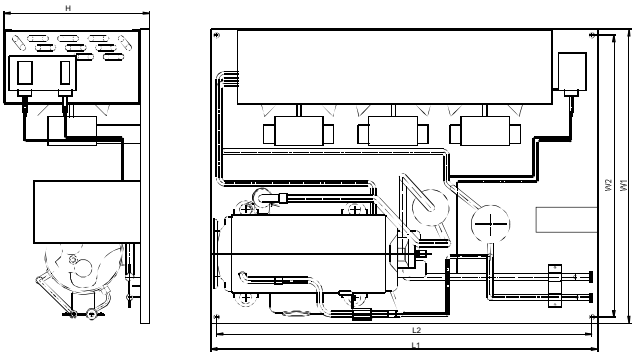


Figure 14

尺寸表
Dimension Table

Model	L1(mm)	L2(mm)	W1(mm)	W2(mm)	H(mm)
HQHL-13EBR	680	660	485	465	275±5
HQHL-16EBR	680	660	485	465	275±5
HQHL-23EBR	790	770	520	500	275±5
HQHL-30EBR	940	920	520	500	275±5
HQHL-36EBR	1145	1115	520	490	275±5
HQHL-41MBR	1230	1210	520	500	275±5
HQHD-13KARZ	640	620	485	465	275±5
HQHD-16KARZ	680	660	485	465	275±5
HQHD-23KARZ	790	770	520	500	275±5
HQHD-30KARZ	940	920	520	500	275±5
HQHD-36KARZ	1144	1124	520	500	545±5
HQHD-41MARZ	1230	1210	520	500	275±5

HQXL(R22)系列冷凝机组技术数据
HQXL(R22)CONDENSING UNIT PERFORMANCE PARAMETERS

机组型号 MODEL			HQXL-13EORZ	HQXL-16EORZ	HQXL-19EORZ	HQXL-23EORZ	HQXL-30EORZ	HQXL-36EORZ	HQXL-41EORZ
名义输出功率 NOMINAL OUTPUT (W)①			620	790	940	1140	1360	1600	1880
电源 POWER SUPPLY			单相 SINGLE PHASE: 220V-240V/50Hz						
使用工质 (最大加液量) REFRIGERANT MAX.(Kg)			R22(1.2)	R22(1.5)	R22(1.5)	R22(2.0)	R22(3.0)	R22(3.0)	R22(3.5)
启动电流START-UP CURRENT (A)			20	25	27	30	40	42	50
最大运行电流 MAX RUNING CURRENT (A) ②			3.5	4.2	5.3	6.1	7.3	8.5	10
蒸发温度范围 AMBIENT TEMP.(℃)			-40~0						
使用环境温度范围 AMBIENT TEMP.(℃)			-7~43						
压缩机 (型号) COMPRESSOR (MODEL)			QXL-13E	QXI -16F	QXL-19E	QXL-23E	QXL-30E	QXL-36E	QXL-41E
冷凝器 CONDENSER	规格 STYLE		3排6环	4排6环	4排6环	4排6环	4排9环	4排10环	5排10环
	风扇 电机 FAN MOTOR	风扇直径*数量 DIAMETER.QUANTITY(mm)	Φ300	Φ300	Φ300	Φ300	Φ350	Φ400	Φ400
		风量 AIR FLOW(m³/hr)	1300	1700	1700	1700	2660	3860	3860
接管PIPE (mm)	吸气口 (直径) GAS INLET DIAM		Φ12.7(1/2")					Φ15.88(5/8")	
	液体出口 (直径) LIQUID OUTLET		Φ9.53(3/8")						
外形尺寸 OUT DIMENSION	长LENGTH(mm)		560	560	560	600	610	655	630
	宽WIDTH(mm)		470	470	470	580	590	590	610
	高HEIGHT(mm)		355±5	355±5	365±5	365±5	485±5	515±5	545±5
成品重量WEIGHT(kg)			27.9	29	29.9	36.5	45.6	50	53.3
制冷量 REFRIGERATION CAPACITY	蒸发温度EVAP.TEMP.(℃)		制冷量REFRIGERATION CAPACITY: W(Kcal/h) 冷凝温度CONDENSING TEMP.: 45°C 环境温度 AMBIENT TEMP.: 32°C						
	-40		410(355)	505(434)	570(490)	670(580)	845(730)	952(819)	1350(1160)
	-35		532(458)	650(560)	740(630)	820(709)	1033(893)	1245(1071)	1684(1444)
	-30		656(563)	800(688)	904(777)	1005(870)	1266(1096)	1550(1334)	2080(1785)
	-25		793(682)	969(833)	1095(941)	1240(1070)	1562(1348)	1978(1701)	2550(2190)
	-20		969(833)	1183(1017)	1337(1149)	1500(1295)	1845(1593)	2406(2069)	3100(2670)
	-15		1164(1000)	1421(1223)	1605(1382)	1840(1590)	2263(1950)	2881(2478)	3740(3210)
	-10		1416(1217)	1728(1486)	1953(1679)	2125(1825)	2614(2245)	3342(2874)	4490(3860)
	-5		1672(1438)	2042(1756)	2307(1984)	2440(2095)	3010(2577)	3894(3349)	5350(4600)
接线容量 WIRING CAPACITY	漏电保护器 LEAKAGE PROTECTOR	额定电流 RATED CURRENT(A)	10	10	10	15	20	25	20
		泄漏电流≤ LEAK CURRENT(MA)	30	30	30	30	30	30	30
	线径 DIAMETER (mm²)	10m以内IN10m	2.0	2.0	2.0	2.0	4.0	4.0	4.0
		20m以内IN20m	2.0	2.0	2.0	2.5	5.5	5.5	5.5
		30m以内IN30m	2.0	2.0	2.0	2.5	5.5	5.5	5.5

注：①表示名义制冷量的测试工况；②表示最大运行电流的测试工况。
①refrigerating capacity test condition ; ②The biggest running current test condition.

测试工况:
TEST CONDITIONS:

编号	试验条件 TEST CATION	环境温度 AMBIENT TEMP.	吸气温度 RETURN GAS TEMP.	蒸发温度 EVAP. TEMP.	试验电源 TESTING POWER SUPPLY
①	名义工况 Standard test conditions	32.2℃	5℃	-23℃	220V - 50HZ
②	最大运行 OVERLOAD RUNNING	43℃	5℃	-23℃	220V - 50HZ

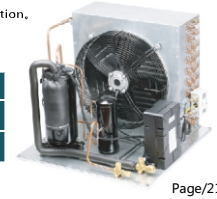
HQXD系列冷凝机组技术数据
HQXD CONDENSING UNIT PERFORMANCE PARAMETERS

机组型号 MODEL			HQXD-13KCRZ	HQXD-16KCRZ	HQXD-23KCRZ	HQXD-30KCRZ	HQXD-36KCRZ	HQXD-41KCRZ
名义输出功率 NOMINAL OUTPUT (W) ①			720	900	1280	1500	1730	2030
电源 POWER SUPPLY			单相 SINGLE PHASE: 220V-240V/50Hz					
使用工质 (最大加液量) REFRIGERANT MAX.(Kg)			R404A(1.2)	R404A(1.5)	R404A(2.0)	R404A(3.0)	R404A(3.0)	R404A(3.5)
启动电流START-UP CURRENT (A)			20	27	38	42	50	57
最大运行电流 MAX RUNING CURRENT (A) ②			4.0	5.0	7.0	8.5	10.0	11.5
蒸发温度范围 AMBIENT TEMP.(℃)			-40~0					
使用环境温度范围 AMBIENT TEMP.(℃)			-7~43					
压缩机 (型号) COMPRESSOR (MODEL)			QXD-13K	QXD-16K	QXD-23K	QXD-30K	QXD-36K	QXD-41K
冷凝器 CONDENSER	规格 STYLE		3排6环	4排6环	4排6环	4排9环	4排10环	5排10环
	风扇 电机 FAN MOTOR	风扇直径*数量 DIAMETER.QUANTITY(mm)	Φ300	Φ300	Φ300	Φ350	Φ400	Φ400
		风量 AIR FLOW(m³/hr)	1300	1700	1700	2660	3860	3860
接管PIPE (mm)	吸气口 (直径) GAS INLET DIAM		Φ12.7(1/2")					Φ15.88(5/8")
	液体出口 (直径) LIQUID OUTLET		Φ9.53(3/8")					
外形尺寸 OUT DIMENSION	长LENGTH(mm)		560	560	600	610	655	630
	宽WIDTH(mm)		470	540	580	590	590	610
	高HEIGHT(mm)		355±5	355±5	365±5	485±5	515±5	535±5
成品重量WEIGHT(kg)			27.9	33	36.5	45.6	50	53.3
制冷量 REFRIGERATION CAPACITY	蒸发温度EVAP.TEMP.(℃)		制冷量REFRIGERATION CAPACITY: W(Kcal/h) 冷凝温度CONDENSING TEMP.: 45°C 环境温度 AMBIENT TEMP.: 32°C					
	-40		504(433)	630(542)	850(731)	1200(1032)	1250(1075)	1423(1224)
	-35		654(562)	820(705)	1104(949)	1506(1295)	1604(1379)	1828(1572)
	-30		807(694)	950(817)	1240(1066)	1803(1551)	2030(1746)	2314(1990)
	-25		975(839)	1203(1035)	1565(1346)	2200(1892)	2560(2202)	2918(2509)
	-20		1190(1023)	1430(1230)	1890(1625)	2604(2239)	3050(2623)	3480(2993)
	-15		1430(1230)	1705(1466)	2130(1832)	2950(2537)	3500(3010)	3990(3431)
	-10		1790(1539)	2050(1763)	2460(2116)	3560(3062)	4230(3638)	4822(4147)
	-5		2130(1830)	2340(2012)	2827(2431)	3911(3363)	5000(4300)	5720(4919)
接线容量 WIRING CAPACITY	漏电保护器 LEAKAGE PROTECTOR	额定电流 RATED CURRENT(A)	10	15	20	20	20	20
		泄漏电流≤ LEAK CURRENT(MA)	30	30	30	30	30	30
	线径 DIAMETER (mm²)	10m以内IN10m	2.0	2.0	2.0	4.0	4.0	4.0
		20m以内IN20m	2.0	2.5	2.5	6.0	6.0	6.0
		30m以内IN30m	2.0	2.5	2.5	6.0	6.0	6.0

注：①表示名义制冷量的测试工况；②表示最大运行电流的测试工况。
①refrigerating capacity test condition ; ②The biggest running current test condition.

测试工况:
TEST CONDITIONS:

编号	试验条件 TEST CATION	环境温度 AMBIENT TEMP.	吸气温度 RETURN GAS TEMP.	蒸发温度 EVAP. TEMP.	试验电源 TESTING POWER SUPPLY
1	名义工况 Standard test conditions	32.2℃	5℃	-23℃	220V - 240V/50HZ
2	最大运行 OVERLOAD RUNNING	43℃	5℃	-23℃	220V - 240V/50HZ



尺寸图
Dimension Drawing

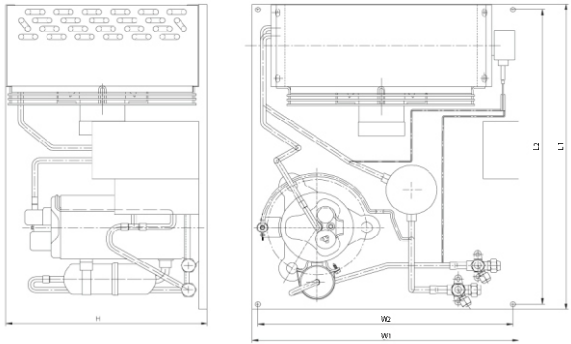


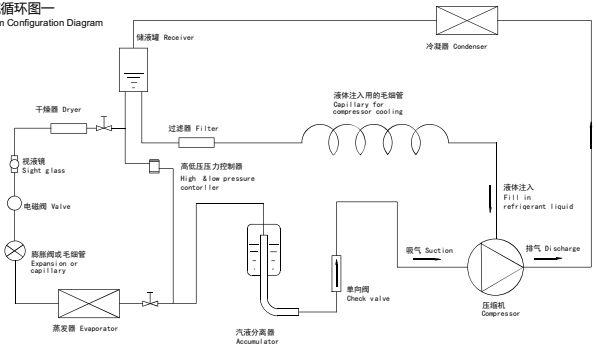
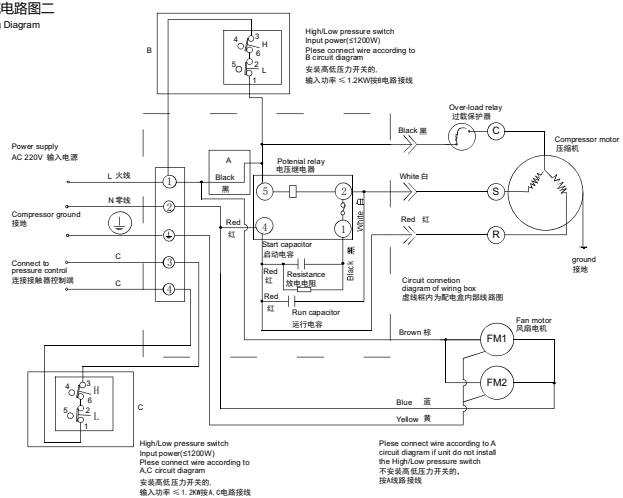
Figure 15

尺寸表
Dimension Table

Model	L1(mm)	L2(mm)	W1(mm)	W2(mm)	H(mm)
HQXL-13ECR	560	540	470	450	355±5
HQXL-16ECR	560	540	470	450	355±5
HQXL-19ECR	560	540	470	450	365±5
HQXL-23ECR	600	580	580	560	365±5
HQXL-30ECR	610	590	590	570	485±5
HQXL-36ECR	655	635	590	570	545±5
HQXL-41ECR	630	610	610	590	545±5
HQXD-13KCRZ	560	540	470	450	355±5
HQXD-16KCRZ	560	540	540	520	355±5
HQXD-23KCRZ	600	580	580	560	365±5
HQXD-30KCRZ	610	590	590	570	485±5
HQXD-36KCRZ	655	635	590	570	545±5
HQXD-41KARZ	630	610	610	590	545±5

机组系统电路图
(Units Wiring Diagram)

系统循环图一
System Configuration Diagram



系统电路图二
Wiring Diagram