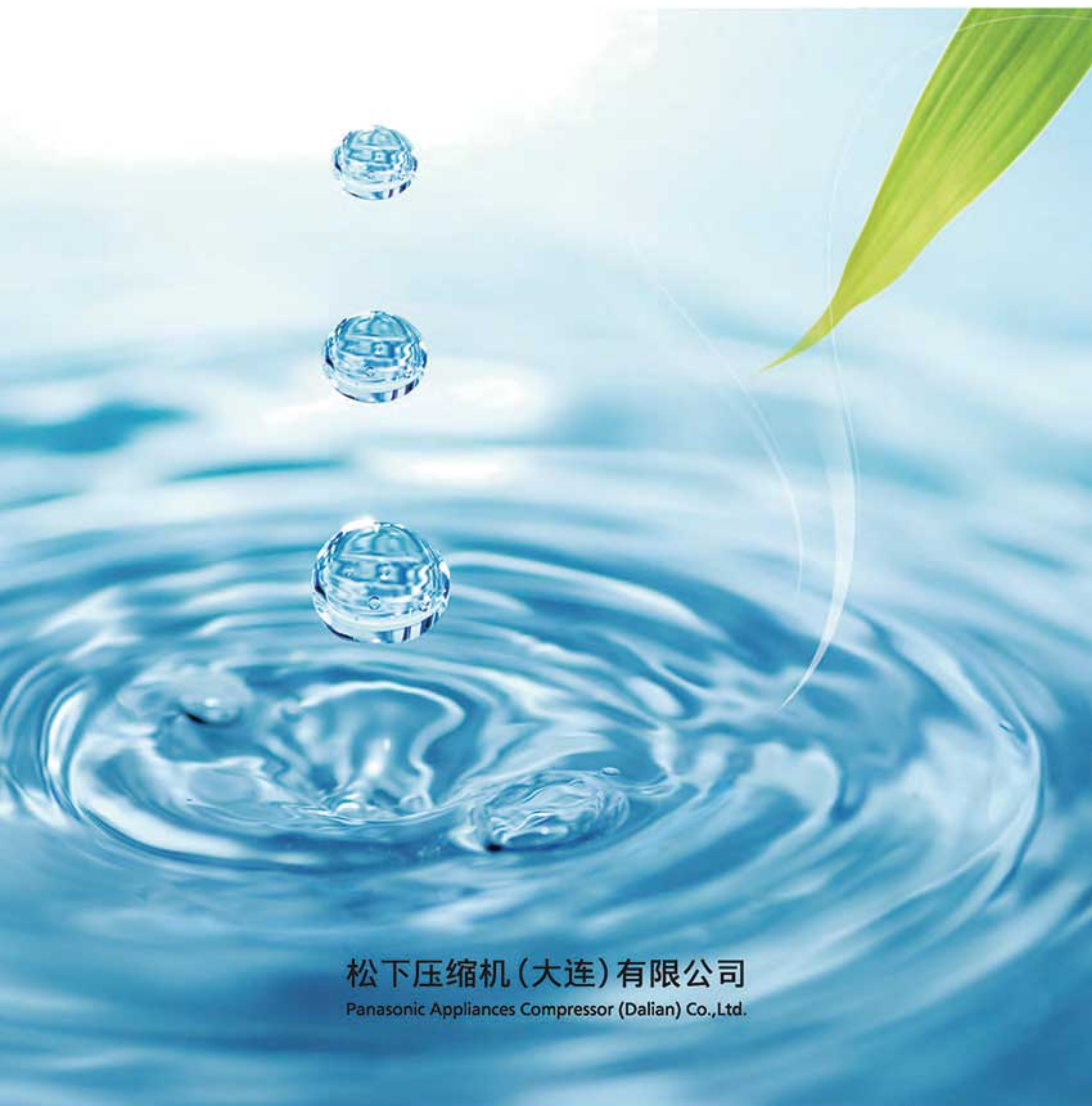


Panasonic

涡旋压缩机

Scroll Compressor



松下压缩机(大连)有限公司

Panasonic Appliances Compressor (Dalian) Co., Ltd.

➔ 公司简介 Profile



⊕ 第一工厂 The First Plant



⊕ 第二工厂 The Second Plant



⊕ 研发中心 R&D Center

公司名称: 松下压缩机(大连)有限公司
(原: 大连三洋压缩机有限公司)

Company Name: Panasonic Appliances Compressor (Dalian) Co., Ltd.

投资总额: 95亿日元

Total Investment Amount: USD 93.75 Million

占地面积: 11.65万平方米

Occupied Area: 116,500 square meters

建筑面积: 7.1万平方米

Building Areas: 71,000 square meters

员工人数: 2500人

Employees: 2500

公司签约日: 1994年8月18日

Date of Signing the Contract: Aug. 18, 1994

公司成立日: 1994年9月15日

Date of Getting Business Certificate: Sep. 15, 1994

公司开业日: 1995年10月18日 (第一工厂)

Date of Opening Ceremony: Oct. 18, 1995 (The First Plant)

1998年10月18日 (第二工厂)

Oct. 18, 1998 (The Second Plant)



→ 公司荣誉 Certificates Award

1997年10月荣获先进技术确认证书；
1997年11月通过ISO9002质量管理体系认证；
1998年3月通过ISO14001国际环境管理体系认证；
1998年9月荣获高新技术企业认定证书；
1998年10月荣获“AAA”级资信等级证书；
1999年3月通过CCEE中国电工产品安全认证；
2000年5月通过欧洲“TUV”产品认证；
2000年12月参与制定《活塞式单级制冷压缩机》及《全封闭涡旋式制冷压缩机》国家标准；
2002年9月通过“CCC”产品认证；
2002年10月通过ISO9001 2000版质量管理体系认证；
2003年8月通过日本“强度试验适用承认书”(NO. 15强23)；
2003年10月通过美国“UL”产品认证；
2004年6月通过“VDE”产品认证；
2004年10月通过“CE”产品认证；
2005年9月通过OHSAS18001职业健康安全管理体系认证；
2006年8月通过CRAA产品认证；
2007年12月通过泰国TIS认证；
2009年12月通过韩国KC认证；
2011年3月通过CB认证；
2013年9月获得巴西INMETRO认证。

Certificate of "Advanced Technology" in October 1997.
ISO 9002 Quality Management System in November 1997.
ISO 14001 international environment management system certificate in March 1998.
Certificate of "High-Tech Enterprise" in September 1998.
"AAA" level reputation certificate in October 1998.
Certificate of Conformity for Electrical Equipment in March 1999(CCEE).
"TUV" product certificate in May 2000.
And was conferred with the honor of Dalian Advanced Technology Corporation.
Besides, several national compressor standards were drawn out by us, thus
We win high prize in compressor industry both domestically and abroad.
Certificate for China Compulsory Product Certification in September 2002(CCC).
ISO 9001 Quality Management System (2000) in October 2002.
Approval of Japanese "Intensity Test Certificate" in August 2003(No.15 Intensity 23)
"UL" product certificate in October 2003.
"VDE" product certificate in June 2004.
"CE" product certificate in October 2004.
OHSAS18001:1999 Certificate in September 2005.
"CRAA" product certificate in August 2006.
"TIS" product certificate in December 2007.
Korean "KC" product certificate in December 2009.
"CB" product certificate in March 2011.
"INMETRO" Product Certificate In September 2013.



→ 公司产品 Products

2~20HP 活塞式半封闭压缩机

3.5~15HP 涡旋式压缩机

0.5~10HP CO₂ 转子式压缩机

1~20HP 冷凝机组

2~45HP 压缩机组

60~125HP 大并联中央机组

50~500HP 螺杆机组

低温沉浸式速冻机组

2~20HP Semi-Hermetic Compressor

3.5~15HP Scroll Compressor

0.5~10HP CO₂ Rotary Compressor

1~20HP Condensing Unit

2~45HP Compressor Unit

60~125HP Tandem Central Compressor Unit

50~500HP Screw Compressor Unit

Immersion Quick-freezing Unit



→ 产品特点 Products Features

1. 噪声低，对环境温度的适应性强；

2. 机组占地面积小，节省空间，节约能量；

3. 机组出厂时配齐各种配套部件，安装简捷；

4. 制冷剂为 R22、R404A、R407C、R410A、R134a。

Low sound and high adaptability to the ambient temperature.

Less space occupation in saving place and energy.

Simple installation with full-provided accessories before factory shipment.

Refrigerant R22、R404A、R407C、R410A、R134a.

■户式中央空调的核心

THE HEART OF RESIDENTIAL & LIGHT COMMERCIAL AIR CONDITIONING

并联系列 Tandem Series

能力范围由 7HP~30HP

可靠 & 简单的均油设计

低噪声 & 低振动

紧凑型 & 轻量设计

使用制冷剂: R22/R407C/R410A/R134a

支持各种不同的电源制式

Range from 7HP to 30HP

Reliable & Simple Design of Oil Balance

Low Sound Level & Low Vibration

Compact & Light Weight

Refrigerant R22/R407C/R410A/R134a

Support a wide variety of Power Source



C-SC 系列 Series



C-SB 系列 Series

■ C-SB 系列 (3.5~7HP) 分体商用柜式空调的核心

THE HEART OF RESIDENTIAL & LIGHT COMMERCIAL AIR CONDITIONING (C-SB Series 3.5~7HP)

高低压隔板

采用低噪声浮动阀

PPS 树脂制密封圈

直接断电电机保护

采用高性能的 PTFE 含浸轴承

High & low pressure baffle

Low sound float valve

Tip seal made of PPS resin

Direct power breakdown for motor protection

PTFE bearing:bronze with Teflon.



制冷剂 Refrigerant

HCFC22/HFC407C/HFC134a/HFC410A

电源 Power Source

代号 CODE	相 Phase	50Hz	60Hz
B3	3	200V	200-220V
B5	1	220-240V	-
	3	220-240V	-
B6	1	-	208-230V
	3	-	208-230V
B8	3	380-415V	440-460V
B9	3	-	380V

C-SB



C-SB SCROLL(3.5-7HP)



■ C-SB 系列 (空调用 3.5~7HP)

MODEL C-SB (3.5HP TO 7HP FOR AIR CONDITIONING)

采用低噪声浮动阀
LOW NOISE FLOAT VALVE

噪音级别 Noise Level: 55dB(A)
*ARI条件 condition 50Hz, 离测试点 away from test points: 1m

排气管
DISCHARGE TUBE

定涡旋
FIXED SCROLL

动涡旋
ORBIT SCROLL

吸气管
SUCTION TUBE

直接断电电机保护
DIRECT BREAK OF ELECTRICITY
FOR MOTOR PROTECTING

因电源故障时的压缩机保护
Protecting compressor from influence of power
source breakdown

主轴
CRANK SHAFT

电动机
MOTOR

冷冻机油 Refrigeration Oil

Mineral Oil (R22)
FV-68S (R407C/R134a/R410A)

高低压隔板
HIGH & LOW PRESSURE BAFFLE

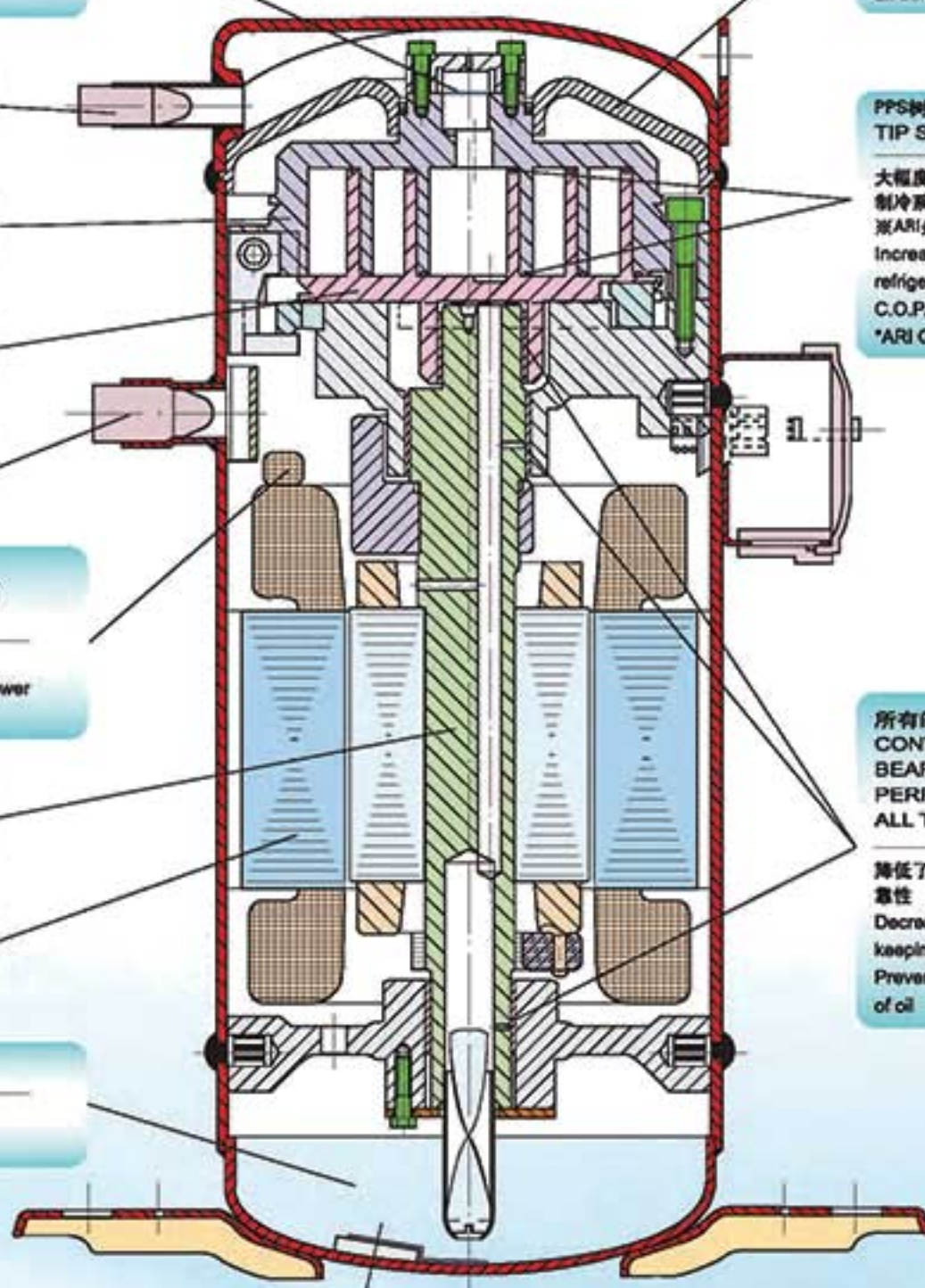
降低了定涡旋的应变及形成内部排气消音器
Decreasing the gradient of fixed scroll and forming
an inner discharge muffle

PPS树脂制Tip Seal
TIP SEAL MADE OF PPS RESIN

大幅度提高压缩机油体的密封性能
制冷系数C.O.P.: 3.5
*ARI条件50Hz, 5HP
Increasing greatly the sealing performance of
refrigerant inside of the compressor
C.O.P.: 3.5
*ARI Condition 50Hz, 5HP

所有的轴部均采用高性能的PTFE含浸轴承
CONTAINING AND IMMERSING
BEARING OF PTFE WITH HIGH
PERFORMANCE ARE APPLIED WITH
ALL THE AXLES

降低了摩擦, 提高了耐磨性能确保了缺油时的可靠性
Decreasing the friction and increasing the ability of
keeping from wearing and tearing.
Preventing from ensuring the reliability even lack
of oil



使用工质 Refrigerant R22/R407C/R134a/R410A

■ C-SC 系列 (8~15HP) 户式中央空调的核心

THE HEART OF RESIDENTIAL & LIGHT COMMERCIAL AIR CONDITIONING (C-SC Series 8~15HP)

高可靠性

主副轴承采用高性能滚动轴承

直接断电内部保护器，可靠保护电机

吸气口内装有滤网，更可靠保护压缩机

High reliability

High-performance rolling bearing is applied in the main frame and the bearing plate.

Direct power breakdown for motor protection.

The using of strainer in the suction inlet ensures the safety of compressor.



制冷剂 Refrigerant

HCFC22/HFC407C/HFC134a/HFC410A

电源 Power Source

代号 CODE	相 Phase	50Hz	60Hz
B3	3	200V	200-220V
B5	3	220-240V	-
B6	3	-	208-230V
B8	3	380-415V	440-460V
B9	3	-	380V

C-SC

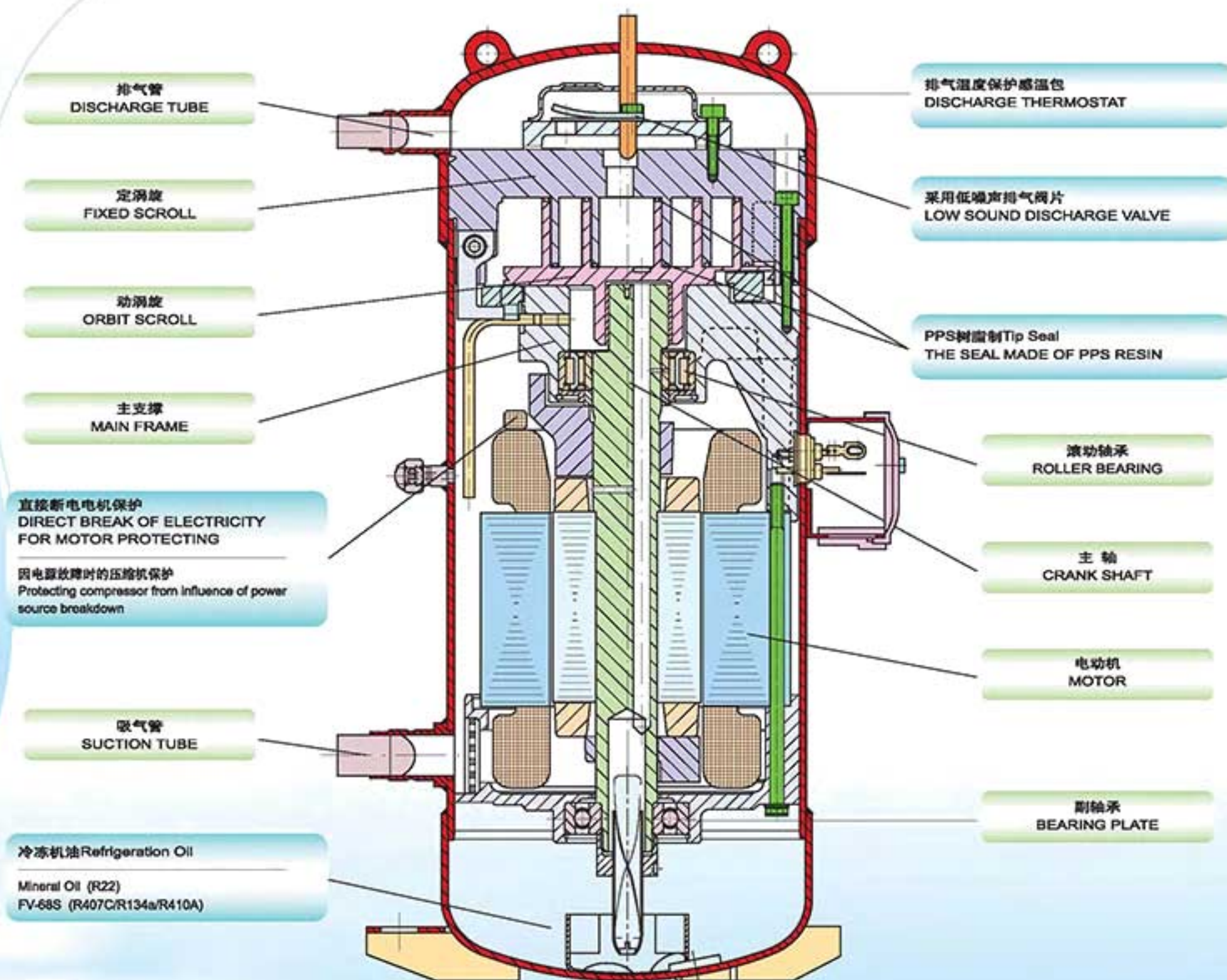


C-SC SCROLL(8-15HP)



■ C-SC 系列 (户式中央空调用 8~15HP)

MODEL C-SC (8HP TO 15HP FOR AIR CONDITIONING)



使用工质 Refrigerant R22/R407C/R134a/R410A ■

■ C-SD 系列 (5-10HP) 高压壳体系列

C-SD Series (5-10HP) HIGH PRESSURE HOUSING SERIES

节能高效, 全年能效效率 (SEER, APF) 出色;
负荷输出可平滑调节, 并且不同转速下能效均较高;
空调并联 (多联) 和均油设计容易, 机组结构简单;
空调快速冷热运转、高输出功率、机组小型化设计。

Saving energy with high efficiency, Annual Performance factor (APF) on a outstanding status;

Smooth capacity output, Energy efficiency keeps at high level under different rotation speed;

Easily connection and oil balance design on tandem and multi A/C system applications;

Quickly to achieve desired cooling and heating effect with high output capacity and compact units design.

C-SD



制冷剂 Refrigerant
HFC410A

C-SD SCROLL (5-10HP)

电机样式

*DC 无刷电机 集中卷线

*极数: 4 极

Motor Type:

*DC brushless motor,
Concentrated winding

*Pole: 4

*磁铁: 稀土类磁铁

*转数: 1800~5400m⁻¹

*Magnet: Lanthanum magnet

*Rotation Speed: 1800~5400m⁻¹



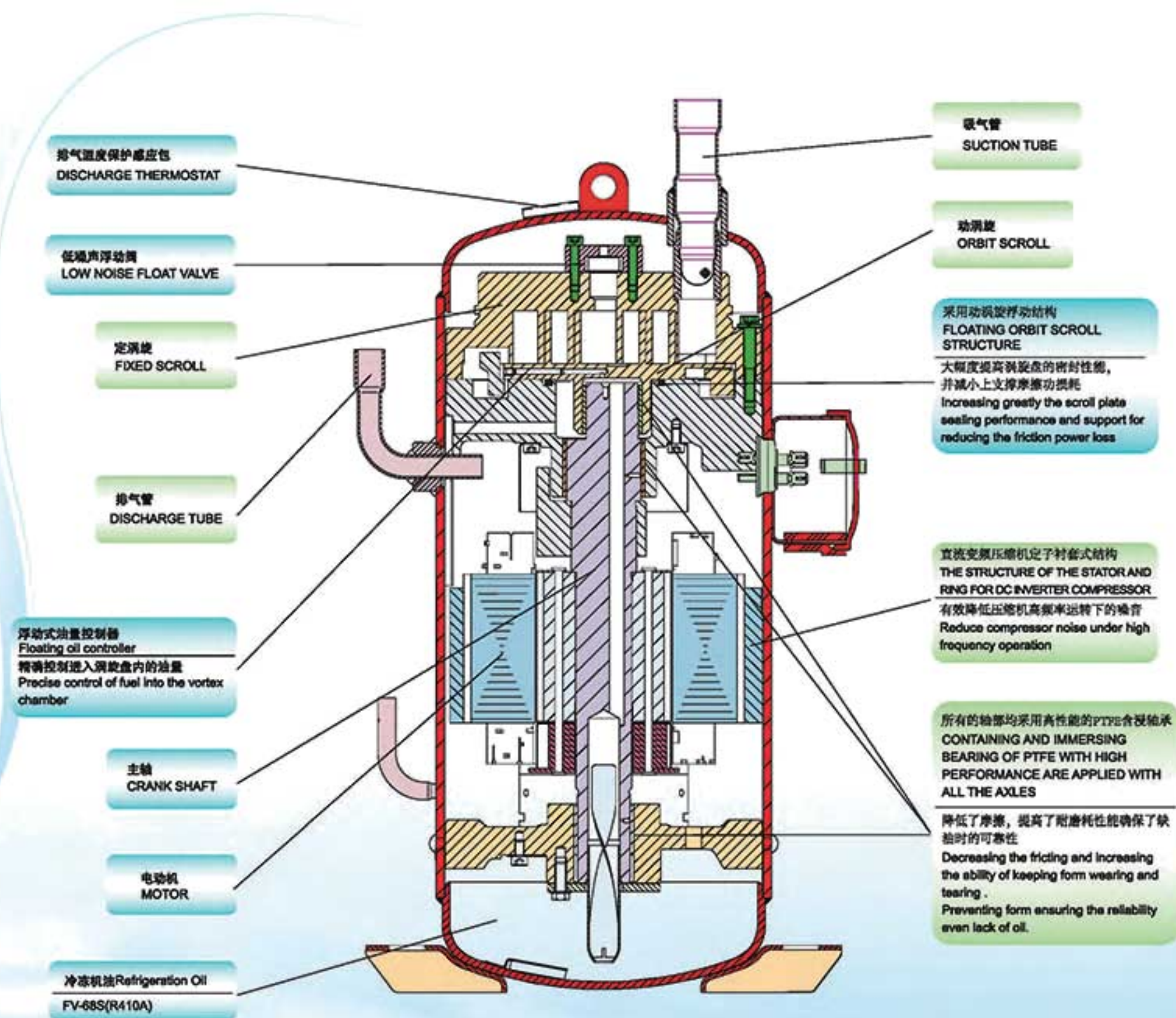
转子 Rotor



定子和转子 Stator and rotor

■ D 系列 (户式中央空调用 5~10HP)

MODEL D (5HP TO 10HP FOR AIR CONDITIONING)



使用工质 Refrigerant R410A ■

■ R22 机型使用标准・使用极限 APPLICATION STANDARD & LIMIT (R22)

为正确使用立式涡旋压缩机，对其使用标准、使用极限作如下规定 The following requirements apply to Vertical type Hermetic Scroll Compressors:
使用标准值 Standard: 适用于常用条件下（日本 JIS B8616，与 JIS B8616 相关标准、过载、低温条件下的商品运转条件）的运转。Applicable to ordinary conditions in Japan JIS B8616 or equivalent conditions, such as standard rating conditions, maximum operating conditions, low temperature conditions, etc. 使用极限值 Limit: 适用于过渡条件下（启动时、除霜时等）的短时间运转。Applicable to transitional brief periods, such as start-up and beginning of defrost mode.

序号 No.	项目 Item	使用标准值 Standard	使用极限值 Limit	备注 Note
1	制冷剂 Refrigerant	R22(符合日本 JIS K1517 标准) R22 (Meet the standard of Japan JIS K1517)		
2	蒸发温度范围 Evaporating Temp.	-15~+12℃ / [5~54°F] 0.20~0.62MPa(G)/[29~90psig]	-25~+15℃ / [-13~59°F] 0.10~0.69MPa(G)/[14.5~100psig]	压力指吸气压力 Compressor Suction Pressure
3	冷凝温度范围 Condensing Temp.	+30~+65℃ / [86~149°F] 1.09~2.60MPa(G)/[158~377psig]	+68℃ / [155°F] 2.78MPa(G)/[403psig]	压力指排气压力 Compressor Discharge Pressure
4	压缩比 Compression Ratio	2~6	10	
5	电动机绕组温度 Winding Temp.	115℃ / [240°F] 以下 Max.	125℃ / [257°F]	
6	压缩机外壳底部温度 Shell Bottom Temp.	上限: 90℃ / [194°F] 以下 Upper Limit:90℃ / [194°F] Max. 下限: 蒸发压力相对应饱和温度 +12K/[21°F] 以上 Lower Limit:Evaporating Temp.+12K/[21°F] Min.		运转时 When compressor is running
		下限: 环境温度 +11K/[20°F] 以上 Lower Limit:Ambient Temp.+11K/[20°F] Min.		停机时 When compressor shuts off
7	排气温度 Discharge Gas Temp.	115℃ / [240°F] 以下 Max	C-SB:130℃ / [266°F] 以下 Max	距压缩机出口 10cm 以内位置的排气管温度 Within 100mm(4in) of the discharge fitting.
			C-SC:135℃ / [275°F] 以下 Max	压缩机上盖中部的铜管内排气温度保护器的检测温度 Inside of the well pipe on the top of compressor
8	吸气温度 Suction Gas Temp.	吸气过热度在 5K/[10°F] 以上 Superheat:5K/[10°F]Min.	应无由于液体吸入而引起的冲刷音（不增加电流及振动） No excessive noise.	距压缩机吸气口 300mm 以内，应同时满足 5, 6, 7 和 14 项的要求。 It should meet the requirement of item 5,6,7 and 14 within 300mm of the suction fitting.
9	运转时供电电压 Running Voltage	额定电压 ± 10% Within ± 10% of the rated voltage.		运转时压缩机接线柱电压 Voltage at compressor terminals.
10	启动时供电电压 Starting Voltage	三相机: 额定电压 85% 以上 Three Phase Models:85% of the rated voltage min.		指在启动电流升高，电压下降时的压缩机接线柱电压 Dropped voltage at compressor terminals.
		单相机: 额定电压 90% 以上 Single Phase Models:90% of the rated voltage min.		
11	启停周期 On/Off Period	运转时间: 至少应使油回到指定油位所需的时间 ON period:Until the oil level returns to the center of the lower bearing. 停止时间: 至少应使高低压达到平衡所需的时间 OFF Period:Until balance of high and low pressure is obtained.		1 周期: 10 分钟 停止时间: 以 3 分钟左右为标准 For at least 7 minutes-ON/3 minutes-OFF is recommendable
12	制冷剂注入量 Refrigerant Charge	油 / 制冷剂重量比推荐为 0.35 以上 Oil/Refrigerant(wt.) ≥ 0.35		油比重: 0.92 Specific gravity of the Oil:0.92
13	启停频度 Life Time	20 万个周期 200,000 cycles		
14	压缩机内最低油面 Minimum Oil Level	C-SB: 保持压缩机内下轴承的中心以上 Center of the lower bearing.	C-SB: 不低于压缩机下轴承的下端面 Bottom of the lower bearing.	
		C-SC: 规定封入量的 70% 以上 No less than 70% of the initial oil charge.		
15	异常升压 / 降压 Abnormal Pressure Rise/Drop	压力上升: 3.0MPa(G)/[435psig] 以下 Pressure Rise: 3.0MPa(G)/[435psig] Max.		高压开关设定值 By high pressure switch
		压力下降: 0.03MPa(G)/[4.4psig] 以上 Pressure Drop: 0.03MPa(G)/[4.35psig] Min.		低压开关设定值 By low pressure switch
16	水份 System Moisture Level	200ppm 以下 Max		
17	不凝性气体 System Uncondensable Gas Level	1%（容积比）以下 1 Vol.% Max. 残留氧气要求在 0.1%（容积比）以下 Residual Oxygen 0.1 Vol.% Max.		抽真空 24 小时以后绝对压力应在 1.01 kPa 以下 24 hrs. after vacuuming:1.01kPa Max.
18	倾斜角度 Tilt	5° 以内 5°Deg.Max.		

■ 超出以上极限范围的运转必须得到我公司的认可。Operation beyond the above limits must be approved by our company.

(G): 表压 Gauge Pressure

■ R410A 机型使用标准・使用极限 APPLICATION STANDARD & LIMIT (R410A)

为正确使用立式涡旋压缩机，对其使用标准、使用极限作如下规定 The following requirements apply to Vertical type Hermetic Scroll Compressors:
使用标准值 Standard: 适用于常用条件下（日本 JIS B8616，与 JIS B8616 相关标准、过载、低温条件下的商品运转条件）的运转。Applicable to ordinary conditions in Japan JIS B8616 or equivalent conditions, such as standard rating conditions, maximum operating conditions, low temperature conditions, etc. 使用极限值 Limit: 适用于过渡条件下（启动时、除霜时等）的短时间运转。Applicable to transitional brief periods, such as start-up and beginning of defrost mode.

序号 No.	项目 Item	使用标准值 Standard	使用极限值 Limit	备注 Note
1	制冷剂 Refrigerant	R410A		
2	蒸发温度范围 Evaporating Temp.	-15~+12℃ / [5~54°F] 0.38~1.05MPa(G)/[55~152psig]	-25~+15℃ / [-13~59°F] 0.23~1.15MPa(G)/[33~167psig]	压力指吸气压力 Compressor Suction Pressure
3	冷凝温度范围 Condensing Temp.	+30~+60℃ / [86~140°F] 1.78~3.75MPa(G)/[258~544psig]	+65℃ / [149°F] 4.18MPa(G)/[606psig]	压力指排气压力 Compressor Discharge Pressure
4	压缩比 Compression Ratio	2~6	8	
5	电动机绕组温度 Winding Temp.	115℃ / [240°F] 以下 Max	125℃ / [257°F]	
6	压缩机外壳底部温度 Shell Bottom Temp.	上限: 90℃ / [194°F] 以下 Upper Limit:90℃ / [194°F] Max. 下限: 蒸发压力相对应饱和温度 +12K/[21°F] 以上 Lower Limit:Evaporating Temp.+12K/[21°F] Min.		运转时 When compressor is running
		下限: 环境温度 +11K/[20°F] 以上 Lower Limit:Ambient Temp.+11K/[20°F] Min.		停机时 When compressor shuts off
7	排气温度 Discharge Gas Temp.	115℃ / [240°F] 以下 Max	C-SB:130℃ / [266°F] 以下 Max	距压缩机出口 10cm 以内位置的排气管温度 Within 100mm(4in) of the discharge fitting.
			C-SC:135℃ / [275°F] 以下 Max	压缩机上盖中部的铜管内排气温度保护器的检测温度 Inside of the well pipe on the top of compressor
8	吸气温度 Suction Gas Temp.	吸气过热度在 5K/[10°F] 以上 Superheat:5K/[10°F]Min.	应无由于液体吸入而引起的冲刷音（不增加电流及振动） No excessive noise.	距压缩机吸气口 300mm 以内，应同时满足 5,6,7 和 14 项的要求。 It should meet the requirement of item 5,6,7 and 14 within 300mm of the suction fitting.
9	运转时供电电压 Running Voltage	额定电压 ± 10% Within ± 10% of the rated voltage.		运转时压缩机接线柱电压 Voltage at compressor terminals.
10	启动时供电电压 Starting voltage	三相机: 额定电压 85% 以上 Three Phase Models:85% of the rated voltage min.		指在启动电流升高，电压下降时的压缩机接线柱电压 Dropped voltage at compressor terminals.
		单相机: 额定电压 90% 以上 Single Phase Models:90% of the rated voltage min.		
11	启停周期 On/Off Period	运转时间: 至少应使油回到指定油位所需的时间 ON Period:Until the oil level returns to the center of the lower bearing. 停止时间: 至少应使高低压达到平衡所需的时间 OFF Period:Until balance of high and low pressure is obtained.		1 周期: 10 分钟 停止时间: 以 3 分钟左右为标准 For at least 7 minutes-ON/3 minutes-OFF is recommendable
12	制冷剂注入量 Refrigerant Charge	油 / 制冷剂重量比推荐为 0.35 以上 Oil/Refrigerant(wt.) ≥ 0.35		油比重: 0.94 Specific gravity of the Oil:0.94
13	启停频度 Life Time	20 万个周期 200,000 cycles		
14	压缩机内最低油面 Minimum Oil Level	C-SB: 保持油面在油杯中部以上 Center of the lower bearing. C-SB: 不低于压缩机下轴承的下端面 Bottom of the lower bearing.		
		C-SC: 规定封入量的 70% 以上 No less than 70% of the initial oil charge.		
15	异常升压 / 降压 Abnormal Pressure Rise/Drop	压力上升: 4.15MPa(G)/[602psig] 以下 Pressure Rise: 4.15MPa(G)/[602psig] Max.		高压开关设定值 By high pressure switch
		压力下降: 0.15MPa(G)/[22psig] 以上 Pressure Drop: 0.15MPa(G)/[22psig] Min.		低压开关设定值 By low pressure switch
16	水份 System Moisture Level	200ppm 以下 Max		
17	不凝性气体 System Uncondensable Gas Level	1%（容积比）以下 1 Vol.% Max. 残留氧气要求在 0.1%（容积比）以下 Residual Oxygen 0.1 Vol.% Max.		抽真空 24 小时以后绝对压力应在 1.01 kPa 以下 24 hrs. after vacuuming:1.01kPa Max.
18	倾斜角度 Tilt	5° 以内 5°Deg.Max.		

■ 超出以上极限范围的运转必须得到我公司的认可。Operation beyond the above limits must be approved by our company.

(G): 表压 Gauge Pressure

■ R134a 机型使用标准・使用极限 APPLICATION STANDARD & LIMIT (R134a)

为正确使用立式涡旋压缩机，对其使用标准、使用极限作如下规定 The following requirements apply to Vertical type Hermetic Scroll Compressors:
使用标准值 Standard: 适用于常用条件下（日本 JIS B8616，与 JIS B8616 相关标准、过载、低温条件下的商品运转条件）的运转。Applicable to ordinary conditions in Japan JIS B8616 or equivalent conditions, such as standard rating conditions, maximum operating conditions, low temperature conditions, etc. 使用极限值 Limit: 适用于过渡条件下（启动时、除霜时等）的短时间运转。Applicable to transitional brief periods, such as start-up and beginning of defrost mode.

序号 No.	项目 Item	使用标准值 Standard	使用极限值 Limit	备注 Note
1	制冷剂 Refrigerant	R134a		
2	蒸发温度范围 Evaporating Temp.	-12~+12℃ / [10~54°F] 0.09~0.34MPa(G) / [13~49psig]	-15~+15℃ / [5~59°F] 0.06~0.39MPa(G) / [9~57psig]	压力指吸气压力 Compressor Suction Pressure
3	冷凝温度范围 Condensing Temp.	+30~+70℃ / [86~158°F] 0.67~2.02MPa(G) / [97~293psig]	+75℃ / [167°F] 2.26MPa(G) / [328psig]	压力指排气压力 Compressor Discharge Pressure
4	压缩比 Compression Ratio	2~6	10	
5	电动机绕组温度 Winding Temp.	115℃ / [240°F] 以下 Max	125℃ / [257°F]	
6	压缩机外壳底部温度 Shell Bottom Temp.	上限: 90℃ / [194°F] 以下 Upper Limit: 90℃ / [194°F] Max. 下限: 蒸发压力相对应饱和温度 +12K / [21°F] 以上 Lower Limit: Evaporating Temp. +12K / [21°F] Min.		运转时 When compressor is running
		下限: 环境温度 +11K / [20°F] 以上 Lower Limit: Ambient Temp. +11K / [20°F] Min.		停机时 When compressor shuts off
7	排气温度 Discharge Gas Temp.	115℃ / [240°F] 以下 Max	C-SB: 115℃ / [240°F] 以下 Max	距压缩机出口 10cm 以内位置的排气管温度 Within 100mm (4in) of the discharge fitting.
			C-SC: 115℃ / [240°F] 以下 Max	压缩机上盖中部的铜管内排气温度保护器的检测温度 Inside of the well pipe on the top of compressor
8	吸气温度 Suction Gas Temp.	吸气过热度在 5K / [10°F] 以上 Superheat: 5K / [10°F] Min.	应无由于液体吸入而引起的冲刷音（不增加电流及振动） No excessive noise.	距压缩机吸气口 300mm 以内，应同时满足 5, 6, 7 和 14 项的要求。 It should meet the requirement of item 5, 6, 7 and 14 within 300mm of the suction fitting.
9	运转时供电电压 Running Voltage	额定电压 ± 10% Within ± 10% of the rated voltage.		运转时压缩机接线柱电压 Voltage at compressor terminals.
10	启动时供电电压 Starting voltage	三相机: 额定电压 85% 以上 Three Phase Models: 85% of the rated voltage min. 单相机: 额定电压 90% 以上 Single Phase Models: 90% of the rated voltage min.		指在启动电流升高，电压下降时的压缩机接线柱电压 Dropped voltage at compressor terminals.
		运转时间: 至少应使油回到指定油位所需的时间 ON Period: Until the oil level returns to the center of the lower bearing. 停止时间: 至少应使高低压达到平衡所需的时间 OFF Period: Until balance of high and low pressure is obtained.		1 周期: 10 分钟 停止时间: 以 3 分钟左右为标准 For at least 7 minutes-ON/3 minutes-OFF is recommendable
12	制冷剂注入量 Refrigerant Charge	油 / 制冷剂重量比推荐为 0.35 以上 Oil/Refrigerant(wt.) ≥ 0.35		油比重: 0.94 Specific gravity of the Oil: 0.94
13	启停频度 Life Time	20 万个周期 200,000 cycles		
14	压缩机内最低油面 Minimum Oil Level	C-SB: 保持油液液面在下轴承的中部以上 Center of the lower bearing.	C-SB: 不低于压缩机下轴承的下端面 Bottom of the lower bearing.	
		C-SC: 规定封入量的 70% 以上 No less than 70% of the initial oil charge.		
15	异常升压 / 降压 Abnormal Pressure Rise/Drop	压力上升: 2.40MPa(G) / [348psig] 以下 Pressure Rise: 2.40MPa(G) / [348psig] Max.		高压开关设定值 By high pressure switch
		压力下降: 0.03MPa(G) / [4.35psig] 以上 Pressure Drop: 0.03MPa(G) / [4.35psig] Min.		低压开关设定值 By low pressure switch
16	水份 System Moisture Level	200ppm 以下 Max		
17	不凝性气体 System Uncondensable Gas Level	1% (容积比) 以下 1 Vol.% Max. 残留氧气要求在 0.1% (容积比) 以下 Residual Oxygen 0.1 Vol.% Max.		抽真空 24 小时以后绝对压力应在 1.01 kPa 以下 24 hrs. after vacuuming: 1.01 kPa Max.
18	倾斜角度 Tilt	5° 以内 5° Deg. Max.		

■ 超出以上极限范围的运转必须得到我公司的认可。Operation beyond the above limits must be approved by our company.

(G): 表压 Gauge Pressure

■ R22 低温机型使用标准・使用极限 APPLICATION STANDARD & LIMIT (R22)

为正确使用立式低温涡旋压缩机，对其使用标准、使用极限作如下规定 The following requirements apply to Vertical type Hermetic Scroll Compressors:
使用标准值 Standard: 适用于常用条件下（标准、过载、低温条件下的商品运转条件）的运转。Applicable to ordinary conditions equivalent conditions, such as standard rating conditions, maximum operating conditions, low temperature conditions, etc.

使用极限值 Limit: 适用于过渡条件下（启动时、除霜时等）的短时间运转。Applicable to transitional brief periods, such as start-up and beginning of defrost mode.

序号 No.	项目 Item	使用标准值 Standard	使用极限值 Limit	备注 Note
1	制冷剂 Refrigerant	R22 (符合日本 JIS K1517 标准) R22 (Meet the standard of Japan JIS K1517)		
2	蒸发温度范围 Evaporating Temp.	-40~-5℃ (0.004~0.320MPa(G))		压力指吸气压力 Compressor Suction Pressure
3	冷凝温度范围 Condensing Temp.	+30~+55℃ (1.09~2.08MPa(G))	+63℃ (2.49MPa(G))	确保温度膨胀阀前后的差压在 0.8MPa (G) 以上 To ensure pressure difference between expansion valve's inlet and outlet over 0.8 MPa(G).
4	压缩比 Compression Ratio	24 以下 Max		
5	电动机绕组温度 Winding Temp.	90℃以下 Max	110℃	
6	压缩机外壳底部温度 Shell Bottom Temp.	上限: 90℃以下 Upper Limit: 90℃ Max. 下限: 比与蒸发压力相对饱和温度高 12℃以上 (运转时) Lower Limit: Evaporating Temp.+12℃ Min. (When comp. is running) 下限: 比环境温度高 11℃以上 (停机时) Lower Limit: Ambient Temp.+11℃ Min. (When comp. shuts off)		安装曲轴箱加热器 To install crankcase heater.
7	排气温度 Discharge Gas Temp.	115℃以下 Max	125℃	上盖盲管内检测温度 To detect the temperature inside of well pipe.
		排气热传感器的设定值为, 128℃ ON, 75℃ OFF Discharge Thermostat Setting: 128℃ ON, 75℃ OFF.		
8	吸气温度 Suction Gas Temp.	18℃以下 Max 吸气过热度在 5K 以上 Superheat: 5K Min.	应无由于液体吸入而引起的冲刷音 (不增加电流及振动) No excessive noise.	压缩机入口 30cm 以内位置的吸气管温度。能够满足 5,6,7,14 项的要求。 It should meet the requirement of item 5,6,7 and 14 within 300mm of the suction fitting.
9	运转时供电电压 Running Voltage	额定电压 ± 10% Within ± 10% of the rated voltage.		运转时压缩机接线柱电压 Voltage at compressor terminals.
10	启动时供电电压 Starting voltage	额定电压 85% 以上 Three Phase Models: 85% of the rated voltage min.		指在启动电流升高, 电压下降时的压缩机接线柱电压 Dropped voltage at compressor terminals.
11	启停周期 On/Off Period	运转时间: 至少应使油回到指定油位所需的时间 ON Period: Until the oil level returns to the center of the lower bearing. 停止时间: 至少应使高低压达到平衡所需的时间 OFF Period: Until balance of high and low pressure is obtained.		1 周期: 10 分钟 停止时间: 以 3 分钟左右为标准 For at least 7 minutes-ON/3 minutes-OFF is recommendable
12	制冷剂注入量 Refrigerant Charge	制冷剂充入量应尽量少 To minimum the charged refrigerant. 膨胀阀前不应产生闪发气体 No flash gas in front of expansion valve.		通过商品的冷却、温度、压力等适当调节 Properly adjust according to the commodities cooling, temperature, pressure, etc...
13	启停频度 Life Time	20 万个周期 200,000 cycles		
14	压缩机内油面 Minimum Oil Level	运转时, 保持视油镜的 [LOW] 水平 Keep oil level above "LOW" grade when in operation		
15	异常升压 / 降压 Abnormal Pressure Rise/Drop	压力上升: 2.55MPa(G) 以下 Pressure Rise: 2.55MPa(G) Max. 压力下降: -0.02MPa(G) 以上 Pressure Drop: -0.02MPa(G) Min.		高压开关设定值 By high pressure switch 低压开关设定值 By low pressure switch
16	水份 System Moisture Level	制冷回路中水份要求在 200ppm 以下 Keep the moisture in refrigeration loop below 200ppm. 使用干燥时推荐右侧部件 If drier in need, right part in recommendation.		干砂芯: SANYO 产 D-S 类型 Dry sand core D-S Type from SANYO.
17	不凝性气体 System Uncondensable Gas Level	制冷回路中不凝性气体要求在 1% (容积比) 以下 1 Vol.% Max. 残留氧气要求在 0.1% (容积比) 以下 Residual Oxygen 0.1 Vol.% Max.		抽真空 24 小时以后绝对压力应在 1.01 kPa 以下 24 hrs. after vacuuming: 1.01kPa Max.
18	倾斜角度 Tilt	压缩机倾斜最大 5° 以内 5° Deg. Max.		

■ 超出以上极限范围的运转必须得到我公司的认可。Operation beyond the above limits must be approved by our company.

(G): 表压 Gauge Pressure

■ DC-INV R410A 机型使用标准 Application Standard & Limit (R410A DC Inverter)

为正确使用直流变频涡旋压缩机，对其使用标准、使用极限作如下规定：The following requirements apply to DC Inverter driven vertical type hermetic scroll compressors: 使用标准值：适用于常用条件下（日本 JIS B8616、与 JIS B8616 相关的标准、过载、低温条件下的商品运转条件）的运转。Standard: Applicable to ordinary conditions in Japan JIS B8616 or standards relative to JIS B8616, such as standard rating conditions, maximum operating conditions, low temperature conditions, etc.

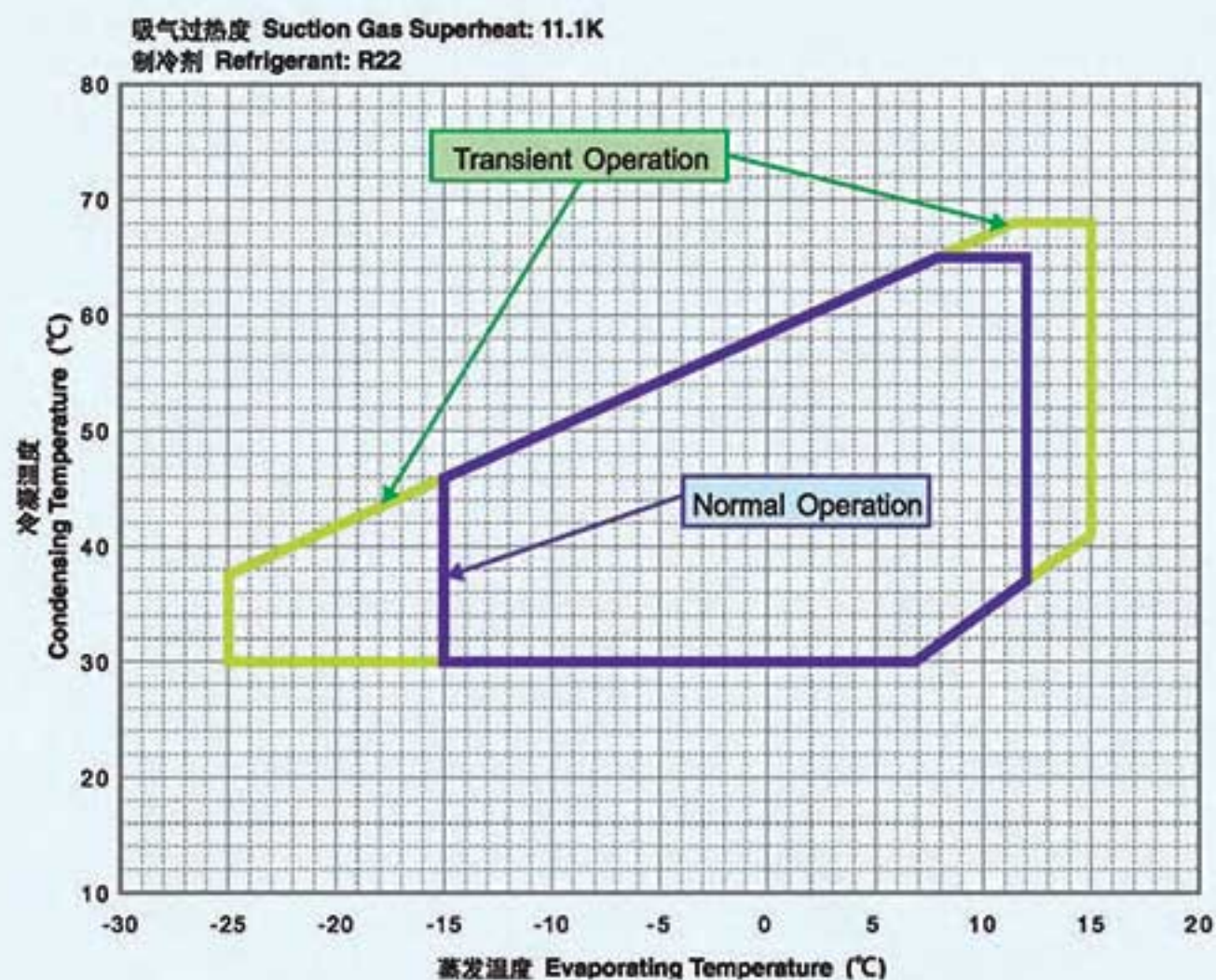
序号 No.	项目 Item	使用标准值 Standard	备注 Note
1	制冷剂 Refrigerant	R410A	
2	蒸发温度 Evaporating Temp.	-15 ~ +13℃ 0.38 ~ 1.08MPa (G)	(压力指吸气压力) (Comp. suction pressure)
3	冷凝温度 Condensing Temp.	65℃以下 Max. ~ 4.1MPa (G)	(压缩机排气压力) (Comp. discharge pressure)
4	压缩比 Compression Ratio	2~8 (起动、除霜等除外) 2~8 (not apply to start, defrost conditions)	
5	电动机绕组温度 Winding Temp.	120℃以下 Max.	
6	压缩机外壳底部温度 Shell Bottom Temp.	100℃以下 Max. 冷凝温度 +0.5K 以上 Condensing Temp.+0.5K Min. (comp. running)	
7	排气温度 Discharge Gas Temp.	115℃以下 Max.	压缩机排气管后 10cm 位置温度或者上 盖盲孔管内温度 10cm within discharge port or inside of the well pipe on top case
8	吸气温度 Suction Gas Temp.	吸气过热度在 5K 以上 Superheat: 5K Min.	压缩机入口 30cm 以内位置的吸气管温度。 Within 30cm of the suction fitting.
9	变频器输入电压 (运转时) Input Voltage to Inverter (running)	额定电压 ± 20% Rated Voltage ± 20%	运转时变频器输出电压 Output Voltage of DC Inverter (running)
10	变频器输入电压 (启动时) Input Voltage to Inverter (starting)	三相: 额定电压 85% 以上 Three Phase Models: 85% of the rated voltage min.	指在启动电流升高, 电压下降时的变频器 电压 Dropped voltage to inverter
11	启停周期 On/Off Period	运转时间: 至少应使油回到指定油位所需的时间 On Period: Until the oil level returns to the specified level 停止时间: 至少应使高低压达到平衡所需的时间 Off Period: Until balance of high and low pressure is obtained	1 周期: 10 分钟以上 停止: 3 分钟以上; 运转: 5 分钟以上 'One cycle: 10 mins. For at least 5 minutes -on/3 minutes-off is recommendable.
12	制冷剂注入量 Refrigerant Charge	制冷剂充入量应尽量少 (油 / 制冷剂重量比推荐为 0.35 以上) oil/refrigerant(wt.) ≥ 0.35	油比重: 0.94 Specific gravity of the Oil: 0.94
13	启停频度 Life Time	20 万个周期 200,000 cycle	
14	压缩机内油面 Minimum Oil Level	不低于压缩机下轴承的下端面 'Not less than center of the lower bearing	
15	异常升压 / 降压 Abnormal Pressure Rise/Drop	压力上升: 4.15MPa (G) 以下 Pressure Rise: 4.15MPa(G)Max. 压力下降: 0.15MPa (G) 以上 Pressure Drop: 0.15MPa(G) Min.	高压开关设定值 By high pressure switch 低压开关设定值 By low pressure switch
16	水份 System Moisture Level	制冷回路中水份要求在 200ppm 以下 200ppm Max. 使用干燥时推荐右侧部件	推荐品: 干燥器 SANYO 产 D-S 型式
17	不凝性气体 System Uncondensable Gas Level	制冷回路中不凝性气体要求在 1% (容积比) 以下 1 Vol.% Max. 残留氧气要求在 0.1% (容积比) 以下 Residual Oxygen 0.1 Vol.% Max.	抽真空 24 小时以后绝对压力应在 1.01 kPa 以下 24 hrs. after vacuuming: 1.01kPa Max.
18	倾斜角度 Tilt	压缩机倾斜最大 5° 以内 5° Deg.Max.	

■ 超出以上极限范围的运转必须得到我公司的认可。Operation beyond the above limits must be approved by our company.

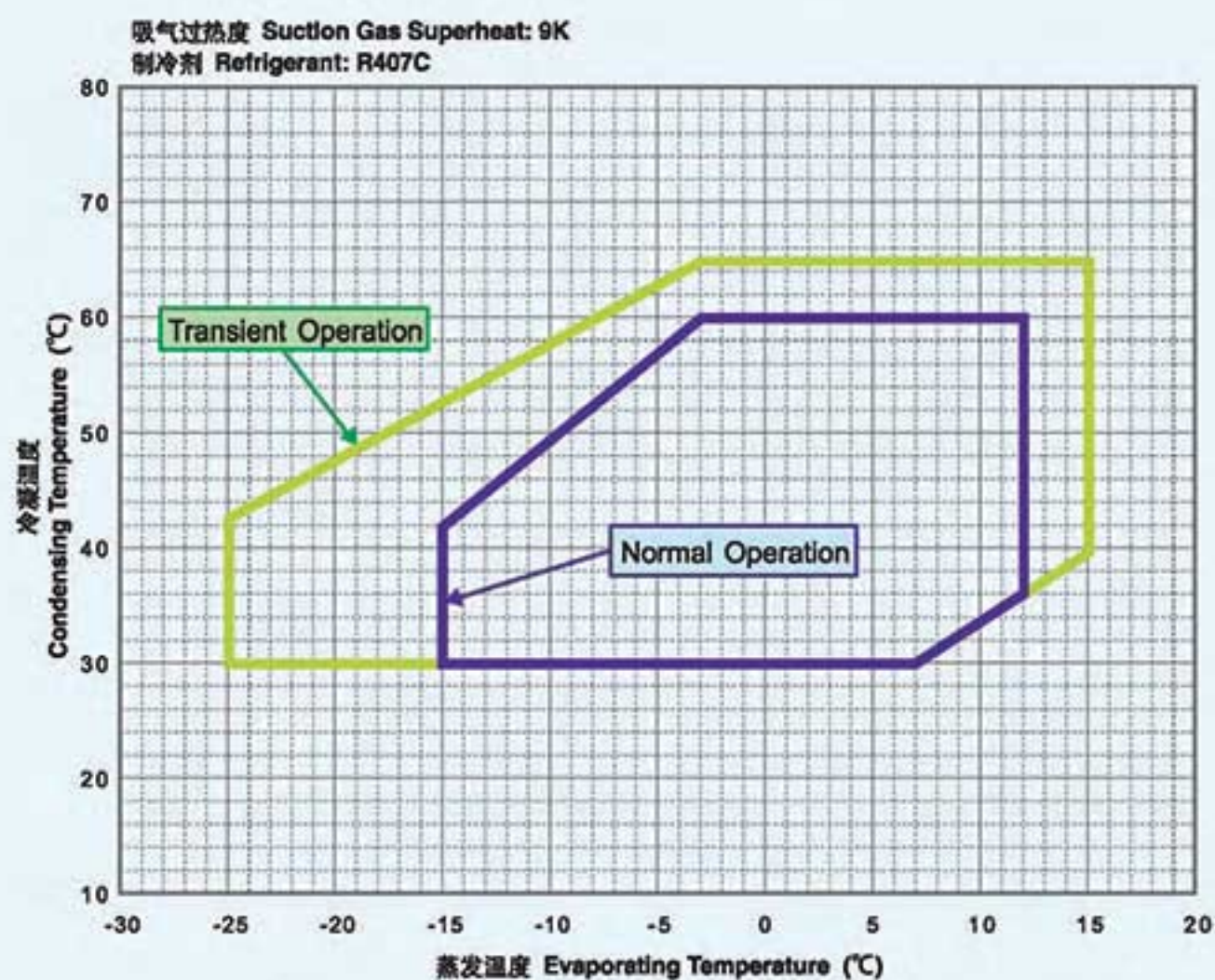
(G): 表压 Gauge Pressure

■ 运转范围 Operating Envelope (for Air Conditioning)

R22

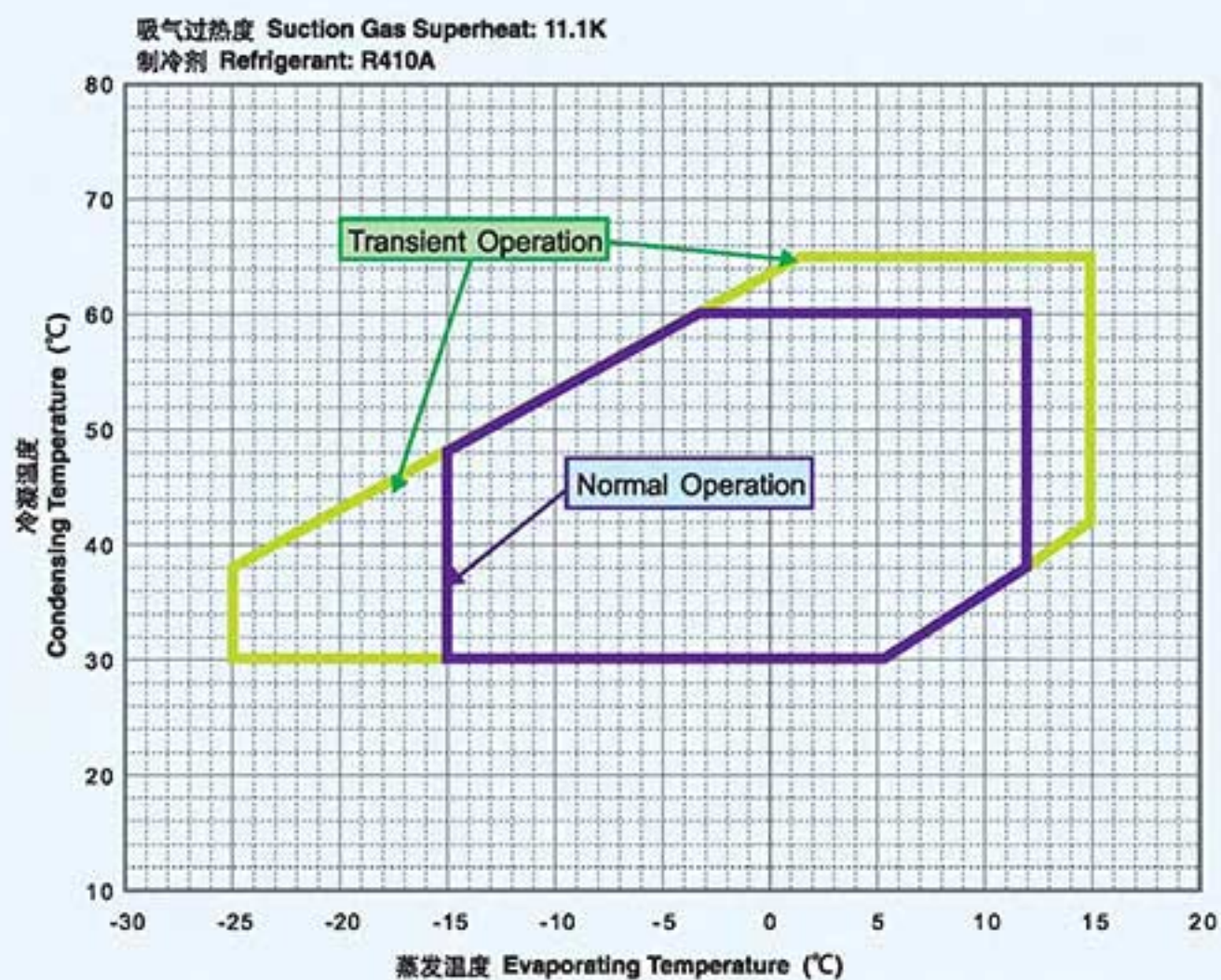


R407C



■ 运转范围 Operating Envelope (for Air Conditioning)

R410A

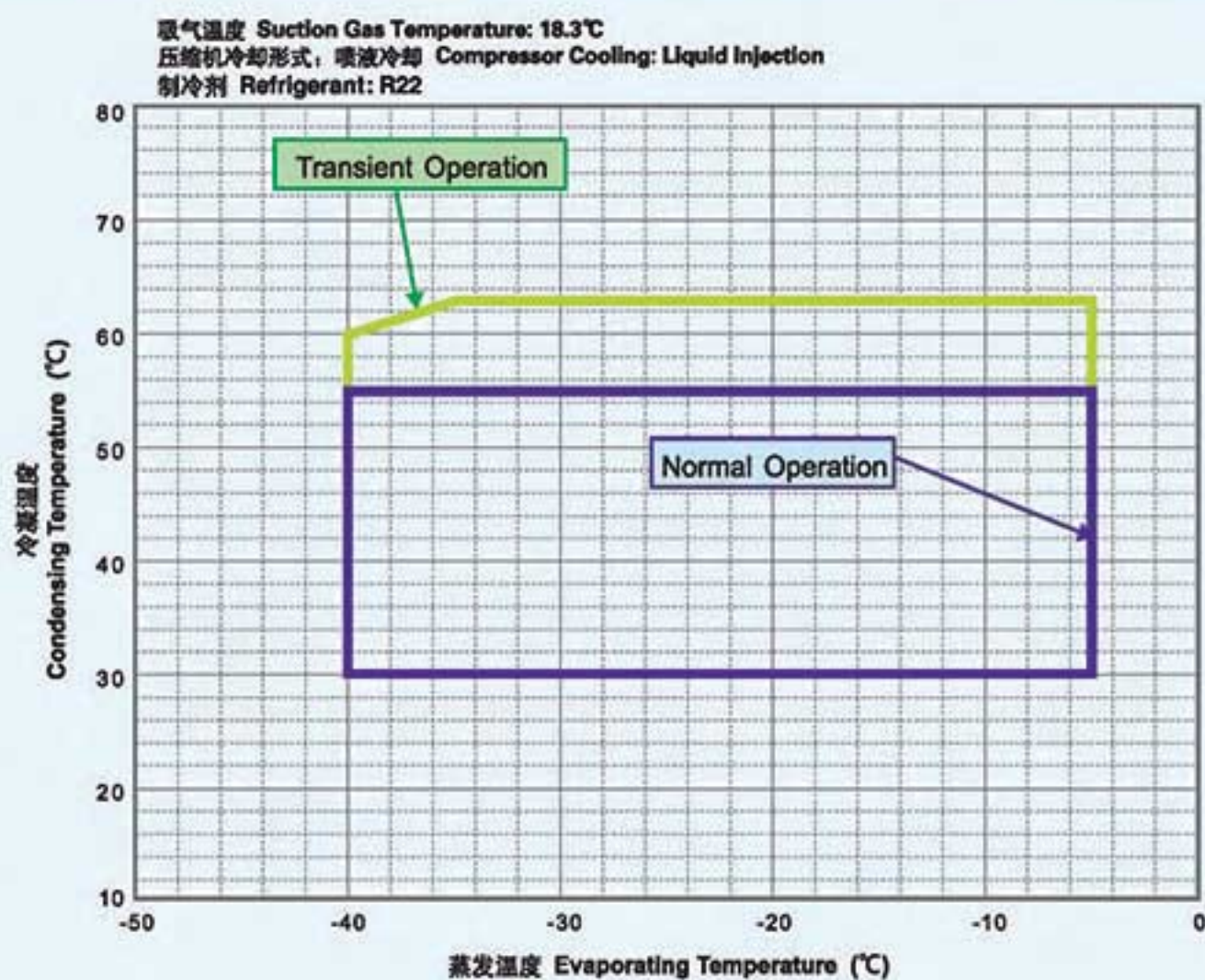


R134a

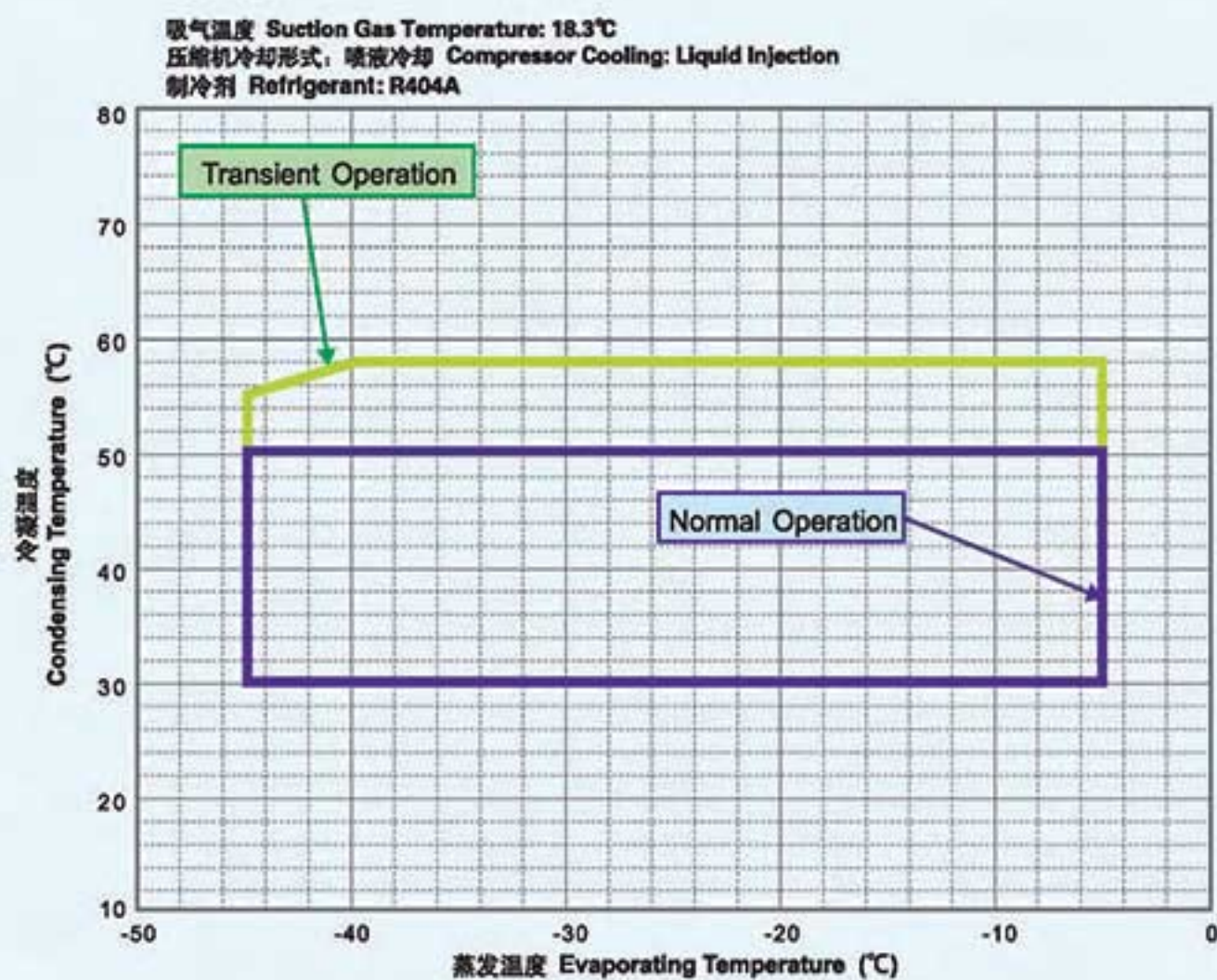


■ 运转范围 Operating Envelope(for Refrigeration)

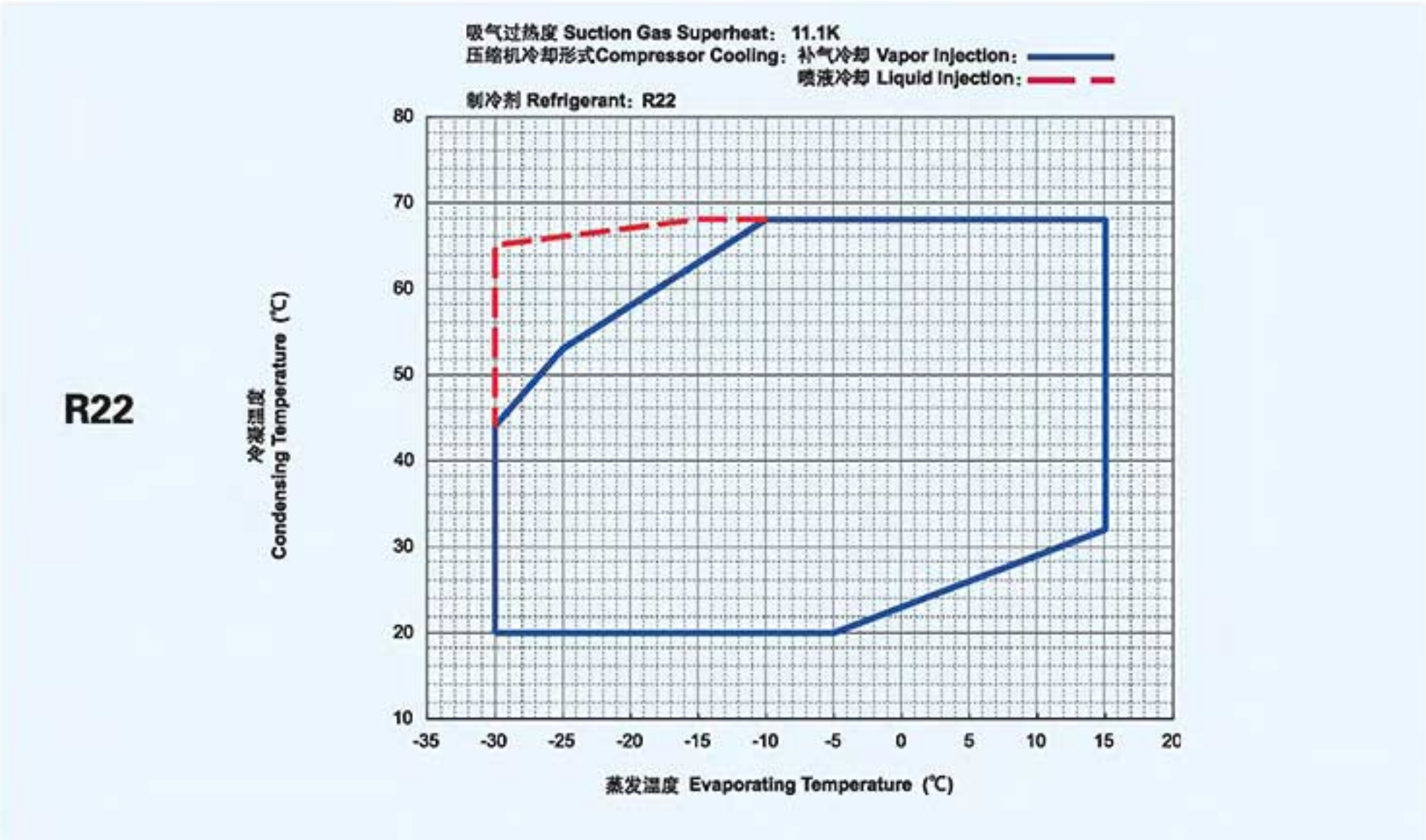
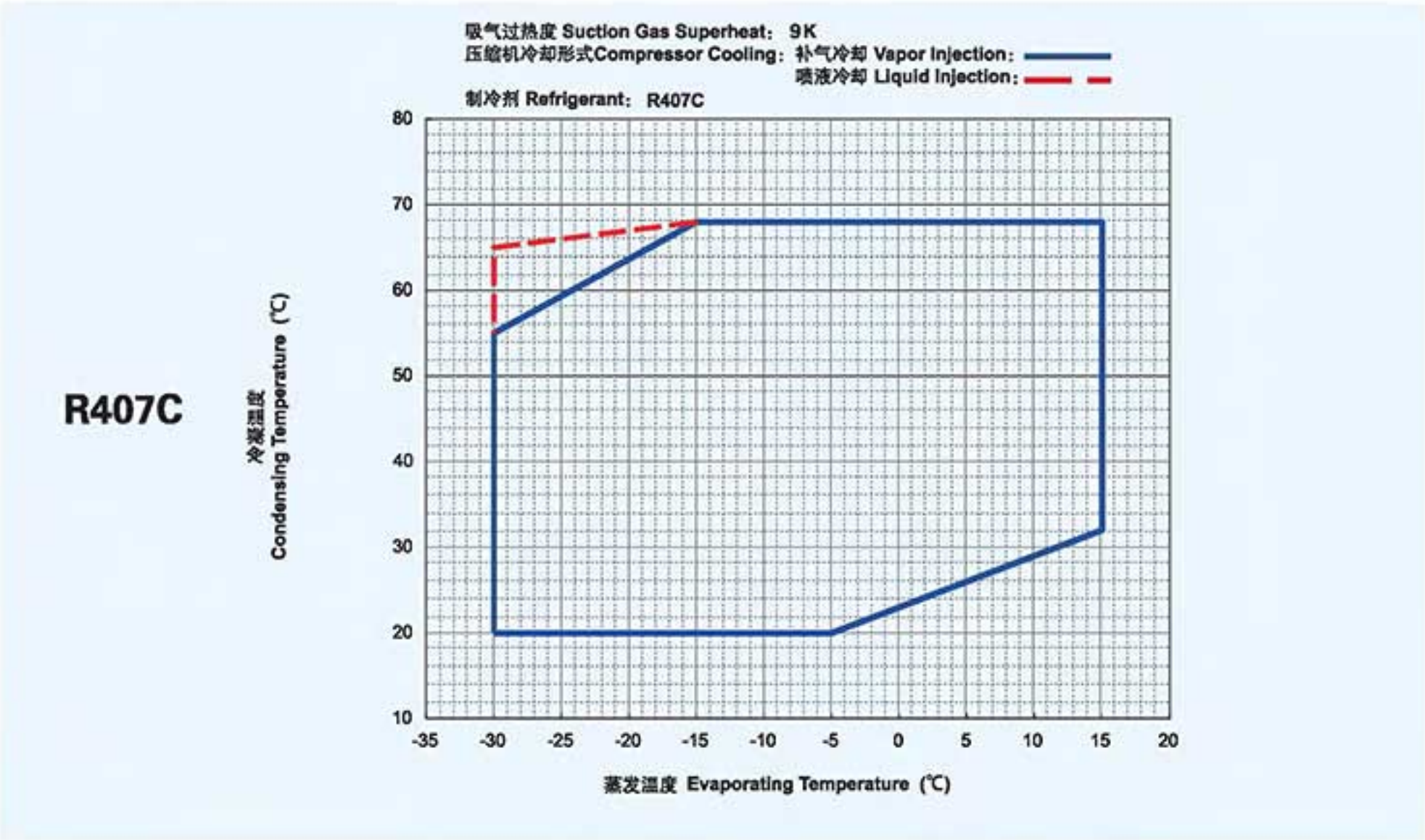
R22



R404A



■ 运转范围 Operating Envelope (for Heat Pump)



■ B,C 系列空调应用涡旋压缩机

C-SB, C-SC Series Scroll Compressor for Air Conditioning

■ R22-B8 (50Hz 380-415V / 60Hz 440-460V)

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	50Hz				60Hz				外观图代号 Outline Graph Code
	HP	cm³/rev				制冷量	Capacity	COP		制冷量	Capacity	COP		
						kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	
3	3.5	51.8	C-SB263H8B	809 831 88	-	9.15	31.2	3.10	10.6	11.2	38.2	3.20	10.9	B
			C-SB263H8C	809 832 88	-	9.15	31.2	3.10	10.6	11.2	38.2	3.20	10.9	A
		55.7	C-SB263H8A	809 830 88	-	9.60	32.8	3.10	10.6	11.8	40.3	3.19	10.9	B
	4	66.8	C-SB303H8A	809 840 88	-	11.8	40.3	3.23	11.0	14.4	49.2	3.27	11.2	A
			C-SB303H8G	809 846 88	-	11.8	40.3	3.23	11.0	14.4	49.2	3.27	11.2	At
	4.5	77.4	C-SB353H8A	809 842 88	-	13.5	46.1	3.18	10.9	16.7	57.0	3.28	11.2	A
			C-SB353H8G	809 847 88	-	13.5	46.1	3.18	10.9	16.7	57.0	3.28	11.2	At
	5	83.2	C-SB373H8A	809 850 88	-	14.5	49.5	3.19	10.9	17.9	61.1	3.23	11.0	A
			C-SB373H8G	809 856 88	-	14.5	49.5	3.19	10.9	17.9	61.1	3.23	11.0	At
		85.5	C-SB373H8F	809 855 88	-	15.0	51.2	3.19	10.9	18.4	62.8	3.20	10.9	A
	5.5	90.6	C-SBR195H38A	-	-	16.0	54.6	3.20	10.9	19.4	66.2	3.23	11.0	A
	6	100.0	C-SB453H8A	809 860 88	-	17.7	60.4	3.26	11.1	21.5	73.4	3.24	11.1	A
			C-SB453H8G	809 866 88	-	17.7	60.4	3.26	11.1	21.5	73.4	3.24	11.1	At
	7	110.2	C-SBR235H38A	-	-	19.2	65.6	3.20	10.9	23.2	79.2	3.27	11.2	A
			C-SBR235H38B	-	-	19.2	65.6	3.20	10.9	23.2	79.2	3.27	11.2	At
	8	131.9	C-SC583H8H	809 284 88	-	23.6	80.6	3.30	11.3	28.5	97.3	3.26	11.1	D
			C-SC583H8K	809 286 88	-	23.6	80.6	3.30	11.3	28.5	97.3	3.26	11.1	Dt
		137.0	C-SC603H8H	809 281 88	-	24.5	83.6	3.31	11.3	29.6	101.1	3.29	11.2	D
			C-SC603H8K	809 283 88	-	24.5	83.6	3.31	11.3	29.6	101.1	3.29	11.2	Dt
	9	148.8	C-SC673H8H	809 291 88	-	26.5	90.5	3.29	11.2	32.0	109.3	3.27	11.2	D
			C-SC673H8K	809 293 88	-	26.5	90.5	3.29	11.2	32.0	109.3	3.27	11.2	Dt
	10	171.2	C-SC753H8H	809 201 88	-	30.6	104.5	3.38	11.5	36.9	126.0	3.32	11.3	E
			C-SC753H8K	809 203 88	-	30.6	104.5	3.38	11.5	36.9	126.0	3.32	11.3	Et
			C-SC753H8T	809 205 88	-	30.6	104.5	3.38	11.5	36.9	126.0	3.32	11.3	Ht
	12	199.1	C-SC863H8H	809 224 88	-	35.2	120.2	3.32	11.3	-	-	-	-	E
			C-SC903H8H	809 221 88	-	36.1	123.3	3.31	11.3	-	-	-	-	E
		205.4	C-SC903H8K	809 223 88	-	36.1	123.3	3.31	11.3	-	-	-	-	Et
			C-SC903H8T	809 225 88	-	36.1	123.3	3.31	11.3	-	-	-	-	Ht

■ R22-B8 (50Hz 380-415V / 60Hz 440-460V)

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	50Hz				60Hz				外观图代号 Outline Graph Code
	HP	cm ³ /rev				制冷量 kW	Capacity kBTU/h	COP		制冷量 kW	Capacity kBTU/h	COP		
								W/W	BTU/Wh			W/W	BTU/Wh	
3	3.5	55.7	C-SBX120H38A	-	-	10.0	34.1	3.35	11.4	12.0	41.0	3.38	11.5	A
	4	66.8	C-SBX145H38A	-	-	12.0	41.0	3.40	11.6	14.6	49.8	3.42	11.7	A
	4.3	70.9	C-SBX150H38A	-	-	12.8	43.7	3.40	11.6	15.5	52.9	3.42	11.7	A
		70.5	C-SBX150H38C	-	-	12.8	43.7	3.50	11.9	15.6	53.3	3.50	11.9	A
	4.4	73.2	C-SBX160H38A	-	-	13.1	44.7	3.40	11.6	15.8	53.9	3.42	11.7	A
	4.5	76.0	C-SBX165H38A	809 745 88	-	13.5	46.1	3.33	11.4	16.3	55.7	3.33	11.4	A
			C-SBX165H38B	809 746 88	-	13.5	46.1	3.33	11.4	16.3	55.7	3.33	11.4	At
			C-SBX165H38C	-	-	13.6	46.4	3.32	11.3	16.5	56.3	3.33	11.4	A
	5	81.0	C-SBX180H38A	809 750 88	-	14.3	48.8	3.33	11.4	17.3	59.1	3.33	11.4	A
			C-SBX180H38B	809 751 88	-	14.3	48.8	3.33	11.4	17.3	59.1	3.33	11.4	At
		83.7	C-SBX180H38C	809 753 88	-	14.7	50.2	3.30	11.3	17.8	60.8	3.30	11.3	A
			C-SBX180H38D	809 754 88	-	14.7	50.2	3.30	11.3	17.8	60.8	3.30	11.3	At
	5.5	90.6	C-SBX195H38A	-	-	16.3	55.7	3.33	11.4	19.8	67.6	3.38	11.5	A
	6	100.0	C-SBX215H38P	-	-	17.7	60.4	3.33	11.4	21.5	73.4	3.33	11.4	A
	12	194.9	C-SCX435H38B	-	-	36.1	123.2	3.47	11.8	42.1	143.8	3.45	11.8	M

■ B,C 系列空调应用涡旋压缩机

C-SB, C-SC Series Scroll Compressor for Air Conditioning

■ R22-B8 (50Hz 380-415V / 60Hz 440-460V)

EVI Models

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	50Hz Cooling				50Hz Heating				外观图代号 Outline Graph Code
	HP	cm³/rev				制冷量 Capacity		COP		制热量 Capacity		COP		
						kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	
3	3.5	55.7	C-SBR120H38Q	-	-	10.0	34.1	3.21	11.0	10.3	35.2	3.33	11.4	-
	4	66.8	C-SBR145H38Q	-	-	11.9	40.6	3.25	11.1	12.0	41.0	3.33	11.4	-
	5	83.2	C-SBR180H38Q	-	-	14.8	50.5	3.33	11.4	14.8	50.5	3.36	11.5	-
	6	96.2	C-SBR205H38Q	-	-	17.0	58.0	3.22	11.0	16.7	57.0	3.37	11.5	-
	8	137.0	C-SCR295H38Q	-	-	24.5	83.6	3.31	11.3	24.5	83.6	3.36	11.5	-
	10	171.2	C-SCR370H38Q	-	-	30.6	104.5	3.38	11.5	29.6	101.1	3.36	11.5	-
	12	205.4	C-SCR435H38Q	-	-	36.0	122.9	3.30	11.3	35.5	121.2	3.37	11.5	-

■ R22-B5 (50Hz 220-240V)

EVI Models

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	50Hz Cooling				50Hz Heating				外观图代号 Outline Graph Code
						制冷量 Capacity		COP		制热量 Capacity		COP		
						kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	
1	3.5	55.7	C-SBR120H15Q	-	PSC	10.6	36.2	3.02	10.3	10.8	36.9	3.21	11.0	-
	4	66.8	C-SBR145H15Q	-	PSC	12.4	42.3	3.15	10.8	12.1	41.3	3.32	11.3	-

■ R22-B5 (50Hz 220-240V)

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	50Hz				外观图代号 Outline Graph Code
						制冷量 Capacity		COP		
	HP	cm³/rev				kW	kBTU/h	W/W	BTU/Wh	
1	3.5	51.8	C-SBR110H15A	-	PSC	9.10	31.1	2.94	10.0	A
		55.7	C-SBR120H15A	-	PSC	9.70	33.1	2.98	10.2	A
	4	66.8	C-SBR145H15A	-	PSC	11.7	39.9	3.12	10.7	A
	4.5	77.4	C-SBR165H15A	-	PSC	13.7	46.8	3.08	10.5	A
	5	83.2	C-SBR180H15A	-	PSC	14.7	50.2	3.16	10.8	A
	5.8	93.1	C-SBR200H15H	-	PSC	16.4	56.0	3.12	10.7	J
3	4	66.8	C-SB303H5A	809 840 85	-	11.7	39.9	3.16	10.8	A
	5	83.2	C-SB373H5A	809 850 85	-	14.7	50.2	3.16	10.8	A
	6	100.0	C-SB453H5A	809 860 85	-	17.8	60.8	3.24	11.1	A
	8	137.0	C-SC603H5H	809 281 85	-	24.2	82.6	3.29	11.2	D
	10	171.2	C-SC753H5H	809 201 85	-	30.6	104.5	3.36	11.5	E
	12	205.4	C-SC903H5H	809 221 85	-	36.0	122.9	3.30	11.3	E

■ R22-B5 (50Hz 220-240V)

T3 Models

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	50Hz				外观图代号 Outline Graph Code
						制冷量 Capacity		COP		
						kW	kBTU/h	W/W	BTU/Wh	
1	3.5	55.7	C-SBR120H15P	-	PSC	9.70	33.1	2.98	10.2	A
	4	66.8	C-SBR145H15P	-	PSC	11.8	40.3	3.19	10.9	A
	4.5	77.4	C-SBR165H15P	-	CSR	13.7	46.8	3.08	10.5	Designing

■ B,C 系列空调应用涡旋压缩机

C-SB, C-SC Series Scroll Compressor for Air Conditioning

■ R22-B5 (50Hz 220-240V)

Hi-COP Models

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	50Hz				外观图代号 Outline Graph Code
						制冷量 Capacity		COP		
						kW	kBTU/h	W/W	BTU/Wh	
1	3.5	60.4	C-SBX135H15A	-	CSR	11.0	37.6	3.33	11.4	A
	4	66.8	C-SBX145H15A	-	CSR	12.0	41.0	3.33	11.3	A

■ R22-B6 (60Hz 208-230V)

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	60Hz				外观图代号 Outline Graph Code
						制冷量 Capacity		COP		
						kW	kBTU/h	W/W	BTU/Wh	
1	3.5	55.7	C-SBR120H16A	-	PSC	12.1	41.3	3.23	11.0	A
	4	66.8	C-SBR145H16A	-	PSC	14.5	49.5	3.26	11.1	As
	4.5	77.4	C-SBR165H16A	-	PSC	16.8	57.4	3.20	10.9	As
	5	83.2	C-SBR180H16A	-	PSC	18.0	61.5	3.13	10.7	As
3	3.5	51.8	C-SB263H6C	809 832 86	-	11.1	37.9	3.13	10.7	A
		55.7	C-SB263H6B	809 831 86	-	11.9	40.6	3.22	11.0	A
	4	66.8	C-SB303H6A	809 840 86	-	14.4	49.2	3.27	11.2	As
			C-SB303H6B	809 841 86	-	14.4	49.2	3.27	11.2	A
			C-SB303H6G	809 846 86	-	14.4	49.2	3.27	11.2	At
	4.5	77.4	C-SB353H6B	809 843 86	-	16.8	57.4	3.29	11.2	A
			C-SB353H6C	809 844 86	-	16.8	57.4	3.29	11.2	A
	5	83.2	C-SB373H6A	809 850 86	-	18.1	61.8	3.32	11.3	As
			C-SB373H6B	809 851 86	-	18.1	61.8	3.32	11.3	A
			C-SB373H6G	809 856 86	-	18.1	61.8	3.32	11.3	At
	6	100.0	C-SB453H6A	809 860 86	-	21.3	72.7	3.25	11.1	As
			C-SB453H6B	809 861 86	-	21.3	72.7	3.25	11.1	A
			C-SB453H6G	809 866 86	-	21.3	72.7	3.25	11.1	At
	7	110.2	C-SBR235H36A	-	-	23.3	79.6	3.28	11.2	As
	8	131.9	C-SC583H6H	809 284 86	-	27.9	95.3	3.19	10.9	D
		137.0	C-SC603H6H	809 281 86	-	29.6	101.1	3.31	11.3	D
			C-SC603H6K	809 283 86	-	29.6	101.1	3.31	11.3	Dt
	9	148.8	C-SC673H6H	809 291 86	-	32.3	110.3	3.38	11.5	E
	10	171.2	C-SC753H6H	809 201 86	-	37.0	126.3	3.36	11.5	E
			C-SC753H6K	809 203 86	-	37.0	126.3	3.36	11.5	Et
	12	205.4	C-SC903H6H	809 221 86	-	43.2	147.5	3.15	10.8	E
			C-SC903H6K	809 222 86	-	44.1	150.5	3.22	11.0	E

■ R22-B6 (60Hz 208-230V)

T3 Models

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	60Hz				外观图代号 Outline Graph Code
						制冷量 Capacity		COP		
						kW	kBTU/h	W/W	BTU/Wh	
1	3.5	55.7	C-SBR120H16P	-	CSR	11.9	40.6	3.09	10.5	A
	4	66.8	C-SBR145H16P	-	CSR	14.4	49.2	3.20	10.9	A
	4.5	77.4	C-SBR165H16P	-	CSR	16.8	57.4	3.20	10.9	As
	5	83.2	C-SBR180H16N	-	CSR	18.1	61.8	3.12	10.7	-

■ B,C 系列空调应用涡旋压缩机

C-SB, C-SC Series Scroll Compressor for Air Conditioning

■ R22-B9 (60Hz 380V)

相 Phase	额定功率 Out Put HP	排气量 Displacement cm³/rev	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting	60Hz				外观图代号 Outline Graph Code
						制冷量 Capacity		COP		
						kW	kBTU/h	W/W	BTU/Wh	
3	3.5	51.8	C-SB263H9B	809 831 89	-	10.9	37.2	3.03	10.3	B
			C-SB263H9C	809 832 89	-	10.9	37.2	3.03	10.3	A
		55.7	C-SB263H9A	809 830 89	-	11.8	40.3	2.98	10.2	A
	4	66.8	C-SB303H9A	809 840 89	-	14.2	48.5	3.23	11.0	A
			C-SB303H9G	809 846 89	-	14.2	48.5	3.23	11.0	At
	4.5	77.4	C-SB353H9A	809 842 89	-	16.6	56.7	3.25	11.1	A
	5	83.2	C-SB373H9A	809 850 89	-	17.8	60.8	3.24	11.1	A
			C-SB373H9G	809 856 89	-	17.8	60.8	3.24	11.1	At
	6	100.0	C-SB453H9A	809 860 89	-	21.2	72.4	3.24	11.1	A
			C-SB453H9G	809 866 89	-	21.2	72.4	3.24	11.1	At
	7	110.2	C-SBR235H39A	-	-	23.4	79.9	3.30	11.3	A
			C-SBR235H39B	-	-	23.4	79.9	3.30	11.3	At
	8	137.0	C-SC603H9H	809 281 89	-	29.6	101.1	3.29	11.2	D
			C-SC603H9K	809 283 89	-	29.6	101.1	3.29	11.2	Dt
	10	171.2	C-SC753H9H	809 201 89	-	37.3	127.3	3.36	11.5	E
			C-SC753H9K	809 203 89	-	37.3	127.3	3.36	11.5	Et
	12	205.4	C-SC903H9H	809 221 89	-	44.4	151.6	3.31	11.3	E

■ R407C - B8 (50Hz 380-415V / 60Hz 440-460V)

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	50Hz				60Hz				外观图代号 Outline Graph Code
						制冷量 Capacity		COP		制冷量 Capacity		COP		
						kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	
3	3.5	55.7	C-SBN263H8A	809 930 88	-	9.60	32.8	2.87	9.8	11.8	40.3	2.87	9.8	B
	4	66.8	C-SBN303H8A	809 940 88	-	11.6	39.6	3.05	10.4	14.6	49.8	3.17	10.8	A
			C-SBN303H8G	809 946 88	-	11.6	39.6	3.05	10.4	14.6	49.8	3.17	10.8	At
	4.5	77.4	C-SBN353H8A	809 942 88	-	13.4	45.8	2.91	9.9	16.5	56.3	2.95	10.1	A
			C-SBN353H8G	809 944 88	-	13.4	45.8	2.91	9.9	16.5	56.3	2.95	10.1	At
	5	83.2	C-SBN373H8A	809 950 88	-	14.5	49.5	2.93	10.0	17.8	60.8	2.99	10.2	A
			C-SBN373H8G	809 956 88	-	14.5	49.5	2.93	10.0	17.8	60.8	2.99	10.2	At
	6	100.0	C-SBN453H8A	809 960 88	-	17.6	60.1	3.03	10.3	21.3	72.7	3.04	10.4	A
			C-SBN453H8G	809 966 88	-	17.6	60.1	3.03	10.3	21.3	72.7	3.04	10.4	At
	7	110.2	C-SBS235H38A	-	-	19.5	66.6	3.10	10.6	23.4	79.9	3.10	10.6	A
			C-SBS235H38B	-	-	19.5	66.6	3.10	10.6	23.4	79.9	3.10	10.6	At
	8	131.9	C-SCN583H8H	809 184 88	-	23.6	80.6	3.13	10.7	28.0	95.6	3.03	10.3	D
			C-SCN583H8K	809 186 88	-	23.6	80.6	3.13	10.7	28.0	95.6	3.03	10.3	Dt
			C-SCN583H8T	809 187 88	-	23.6	80.6	3.13	10.7	28.0	95.6	3.03	10.3	Gt
		137.0	C-SCN603H8H	809 181 88	-	24.5	83.6	3.16	10.8	29.1	99.4	3.08	10.5	D
			C-SCN603H8K	809 183 88	-	24.5	83.6	3.16	10.8	29.1	99.4	3.08	10.5	Dt
			C-SCN603H8T	809 185 88	-	24.5	83.6	3.16	10.8	29.1	99.4	3.08	10.5	Gt
	9	148.8	C-SCN673H8H	809 191 88	-	26.5	90.5	3.12	10.7	32.0	109.3	3.06	10.4	D
			C-SCN673H8K	809 193 88	-	26.5	90.5	3.12	10.7	32.0	109.3	3.06	10.4	Dt
	10	171.2	C-SCN753H8H	809 101 88	-	29.9	102.1	3.20	10.9	35.9	122.6	3.12	10.7	E
			C-SCN753H8K	809 103 88	-	29.9	102.1	3.20	10.9	35.9	122.6	3.12	10.7	Et
			C-SCN753H8T	809 105 88	-	29.9	102.1	3.20	10.9	35.9	122.6	3.12	10.7	Ht
	12	205.4	C-SCN903H8H	809 121 88	-	34.9	119.2	3.09	10.5	-	-	-	-	E
			C-SCN903H8K	809 123 88	-	34.9	119.2	3.09	10.5	-	-	-	-	Et
			C-SCN903H8T	809 125 88	-	34.9	119.2	3.09	10.5	-	-	-	-	Ht

■ B,C 系列空调应用涡旋压缩机

C-SB, C-SC Series Scroll Compressor for Air Conditioning

■ R407C – B8 (50Hz 380–415V / 60Hz 440–460V)

Hi-COP Models

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	50Hz				60Hz				外观图代号 Outline Graph Code
						制冷量 Capacity		COP		制热量 Capacity		COP		
						kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	
3	3.5	55.7	C-SBS120H38A	-	-	10.0	34.1	3.13	10.7	12.0	41.0	3.16	10.8	A
	4	66.8	C-SBS145H38A	-	-	12.0	41.0	3.16	10.8	14.4	49.2	3.18	10.9	A
	4.3	70.5	C-SBS150H38C	-	-	12.8	43.7	3.16	10.8	15.5	52.9	3.18	10.9	A
	4.4	73.2	C-SBS160H38A	-	-	13.0	44.4	3.13	10.7	15.7	53.6	3.16	10.8	A
	4.5	76.0	C-SBS165H38C	-	-	13.6	46.4	3.08	10.5	16.4	56.0	3.10	10.6	A
	5	83.7	C-SBS180H38C	-	-	14.7	50.2	3.08	10.5	17.6	60.1	3.10	10.6	A
	5.5	90.6	C-SBS195H38A	-	-	16.2	55.3	3.10	10.6	19.5	66.6	3.13	10.7	A

■ R407C – B8 (50Hz 380–415V / 60Hz 440–460V)

EVI Models

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	50Hz Cooling				50Hz Heating				外观图代号 Outline Graph Code
						制冷量 Capacity		COP		制热量 Capacity		COP		
						kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	
3	3.5	55.7	C-SBS120H38Q	-	-	10.1	34.5	3.00	10.2	10.5	35.8	3.18	10.9	-
	4	66.8	C-SBS145H38Q	-	-	12.1	41.3	3.10	10.6	12.2	41.7	3.20	10.9	-
	5	83.2	C-SBS180H38Q	-	-	15.3	52.2	3.14	10.7	15.0	51.2	3.20	10.9	-
	6	96.2	C-SBS205H38Q	-	-	17.5	59.7	3.02	10.3	16.9	57.7	3.18	10.9	-
	8	137.0	C-SCS295H38Q	-	-	24.5	83.6	3.16	10.8	24.6	84.0	3.22	11.0	-
	10	171.2	C-SCS370H38Q	-	-	29.9	102.1	3.20	10.9	30.7	104.8	3.25	11.1	-
	12	205.4	C-SCS435H38Q	-	-	35.2	120.2	3.15	10.8	35.0	119.5	3.21	11.0	-

■ R407C–B5 (50Hz 220–240V)

EVI Models

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	50Hz Cooling				50Hz Heating				外观图代号 Outline Graph Code
						制冷量 Capacity		COP		制热量 Capacity		COP		
						kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	
1	3.5	55.7	C-SBS120H15Q	-	PSC	10.0	34.1	2.80	9.6	9.8	33.5	2.94	10.0	-
	4	66.8	C-SBS145H15Q	-	PSC	12.5	42.7	3.00	10.2	12.3	42.0	3.13	10.7	-

■ R407C–B9 (60Hz 380V)

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	60Hz				外观图代号 Outline Graph Code
						制冷量 Capacity		COP		
						kW	kBTU/h	W/W	BTU/Wh	
3	3.5	51.8	C-SBN263H9C	808 932 89	-	11.0	37.6	2.75	9.4	A
		55.7	C-SBN263H9A	809 930 89	-	11.7	39.9	2.85	9.7	A
	4	66.8	C-SBN303H9A	809 940 89	-	14.2	48.5	3.05	10.4	A
	4.5	77.4	C-SBN353H9A	809 942 89	-	16.5	56.3	2.97	10.1	A
	5	83.2	C-SBN373H9A	809 950 89	-	18.0	61.5	3.05	10.4	A
	6	100.0	C-SBN453H9A	809 960 89	-	21.0	71.7	2.98	10.2	A

■ R407C–B6 (60Hz 208–230V)

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	60Hz				外观图代号 Outline Graph Code
						制冷量 Capacity		COP		
						kW	kBTU/h	W/W	BTU/Wh	
3	3.5	51.8	C-SBN263H6C	809 932 86	-	11.1	37.9	2.81	9.6	A
		55.7	C-SBN263H6B	809 931 86	-	12.0	41.0	2.85	9.7	A
	4	66.8	C-SBN303H6A	809 940 86	-	14.4	49.2	3.06	10.4	A
	4.5	77.4	C-SBN353H6B	809 943 86	-	16.8	57.4	3.00	10.2	A
	5	83.2	C-SBN373H6A	809 950 86	-	18.0	61.5	3.08	10.5	A
	6	100.0	C-SBN453H6A	809 960 86	-	21.5	73.4	3.05	10.4	A

■ B,C 系列空调应用涡旋压缩机

C-SB, C-SC Series Scroll Compressor for Air Conditioning

■ R407C – B8 (50Hz 380–415V / 60Hz 440–460V)

T3 Models

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	50Hz				60Hz				外观图代号 Outline Graph Code
						制冷量 Capacity		COP		制冷量 Capacity		COP		
	HP	cm³/rev				kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	
3	4.5	77.4	C-SBS165H38P	-	-	13.4	45.8	2.91	9.9	16.5	56.3	2.95	10.1	A
	6	100.0	C-SBS215H38P	-	-	17.6	60.1	3.03	10.3	21.3	72.7	3.04	10.4	A

■ R407C-B5 (50Hz 220–240V)

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	50Hz				外观图代号 Outline Graph Code
						制冷量 Capacity		COP		
						kW	kBTU/h	W/W	BTU/Wh	
1	3.5	55.7	C-SBS120H15A	-	PSC	9.70	33.1	2.85	9.7	A
	4	66.8	C-SBS145H15A	-	PSC	11.8	40.3	2.95	10.1	A
	4.5	77.4	C-SBS165H15A	-	PSC	13.7	46.8	2.85	9.7	A
	5	83.2	C-SBS180H15A	-	PSC	14.5	49.5	2.91	9.9	A
	5.8	93.1	C-SBS200H15H	-	PSC	16.4	56.0	2.95	10.1	J
3	3.5	55.7	C-SBN263H5A	809 930 85	-	9.85	33.6	2.94	10.0	A
	4	66.8	C-SBN303H5A	809 940 85	-	11.5	39.3	2.99	10.2	A
	5	83.2	C-SBN373H5A	809 950 85	-	14.7	50.2	2.91	9.9	A
	6	100.0	C-SBN453H5A	809 960 85	-	17.7	60.4	3.00	10.2	A
	8	131.9	C-SCN583H5H	809 184 85	-	23.7	80.9	3.14	10.7	D
		137.0	C-SCN603H5H	809 181 85	-	24.2	82.6	3.14	10.7	D
	10	171.2	C-SCN753H5H	809 101 85	-	29.9	102.1	3.18	10.9	E
	12	205.4	C-SCN903H5H	809 121 85	-	34.8	118.8	3.08	10.5	E

■ R410A – B8 (50Hz 380–415V / 60Hz 440–460V)

EVI Models

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	50Hz Cooling				50Hz Heating				外观图代号 Outline Graph Code
	HP	cm³/rev				制冷量 Capacity		COP		制热量 Capacity		COP		
						kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	
3	5	55.7	C-SBP170H38Q	-	-	14.2	48.5	2.93	10.0	14.6	49.8	2.91	9.9	-
			C-SBP170H38G	-	-	14.2	48.5	2.93	10.0	14.6	49.8	2.91	9.9	-
	6	66.8	C-SBP205H38Q	-	-	16.8	57.3	2.92	10.0	17.1	58.3	2.90	9.9	-
	8	89.6	C-SCP270H38Q	-	-	22.5	76.8	2.98	10.2	23.3	79.5	2.99	10.2	-
	10	104.1	C-SCP315H38Q	-	-	26.4	90.1	3.00	10.2	27.2	92.8	2.98	10.2	-
	11	120.2	C-SCP360H38Q	-	-	29.7	101.3	2.97	10.1	30.7	104.7	2.97	10.1	-

■ R410A-B5 (50Hz 220–240V)

Hi-COP Models

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	50Hz				外观图代号 Outline Graph Code
						制冷量 Capacity		COP		
						kW	kBTU/h	W/W	BTU/Wh	
1	3.5	39.9	C-SBP120H15A	-	PSC	9.80	33.5	2.80	9.6	A
	4	46.4	C-SBP140H15A	-	PSC	11.60	39.6	2.85	9.7	A
	4.6	51.8	C-SBP160H15A	-	PSC	13.00	44.4	2.80	9.6	A

■ R410A-B6 (60Hz 208–230V)

SPA Models (condensing temp.max60℃)

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	60Hz				外观图代号 Outline Graph Code
						制冷量 Capacity		COP		
						kW	kBTU/h	W/W	BTU/W/h	
1	5	55.7	C-SBP170H16Y	-	CSR	16.9	57.7	2.83	9.7	J
	6	66.8	C-SBP205H16Y	-	CSR	20.3	69.3	2.85	9.7	J
	7	77.4	C-SBP230H16Y	-	CSR	23.3	79.6	2.85	9.7	J

■ B,C 系列空调应用涡旋压缩机

C-SB, C-SC Series Scroll Compressor for Air Conditioning

■ R410A – B8 (50Hz 380–415V / 60Hz 440–460V)

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	50Hz				60Hz				外观图代号 Outline Graph Code
						制冷量 Capacity		COP		制冷量 Capacity		COP		
						kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	
3	3	35.0	C-SBN233H8E	809 934 88	-	8.60	29.4	-	-	-	-	-	-	A
	3.5	37.5	C-SBN263H8D	809 933 88	-	8.85	30.2	2.49	8.5	11.6	39.6	2.76	9.4	A
	4	39.9	C-SBN303H8D	809 943 88	-	9.80	33.5	2.68	9.2	12.2	41.7	2.87	9.8	A
			C-SBN303H8H	809 947 88	-	9.80	33.5	2.68	9.2	12.2	41.7	2.87	9.8	At
	4.5	51.8	C-SBN353H8D	809 948 88	-	13.0	44.4	2.80	9.6	16.2	55.3	2.97	10.1	A
			C-SBN353H8H	809 949 88	-	13.0	44.4	2.80	9.6	16.2	55.3	2.97	10.1	At
	5	55.7	C-SBN373H8D	809 953 88	-	14.1	48.1	2.97	10.1	17.1	58.4	3.05	10.4	A
			C-SBN373H8H	809 957 88	-	14.1	48.1	2.97	10.1	17.1	58.4	3.05	10.4	At
	6	66.8	C-SBN453H8D	809 963 88	-	16.4	56.0	2.85	9.7	20.3	69.3	3.01	10.3	A
			C-SBN453H8H	809 967 88	-	16.4	56.0	2.85	9.7	20.3	69.3	3.01	10.3	At
	7	77.4	C-SBN523H8D	809 973 88	-	19.2	65.6	2.84	9.7	23.4	80.0	2.98	10.2	A
			C-SBN523H8H	809 977 88	-	19.2	65.6	2.84	9.7	23.4	80.0	2.98	10.2	At

■ R410A-B6 (60Hz 208–230V)

Hi-COP Models

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	60Hz				外观图代号 Outline Graph Code
						制冷量 Capacity		COP		
						kW	kBTU/h	W/W	BTU/Wh	
1	3	35.0	C-SBP105H16A	-	PSC	10.5	35.8	2.76	9.4	As
	3.5	39.9	C-SBP120H16A	-	PSC	12.1	41.3	2.81	9.6	As
	3.7	42.4	C-SBP130H16A	-	PSC	13.2	45.1	2.87	9.8	As
	4	46.4	C-SBP140H16A	-	PSC	14.3	48.8	2.90	9.9	As
	4.3	48.9	C-SBP150H16A	-	PSC	14.8	50.5	2.90	9.9	As
	4.6	51.8	C-SBP160H16A	-	PSC	15.8	53.9	2.80	9.6	As
3	3.5	39.9	C-SBP120H36A	-	-	12.2	41.7	2.80	9.6	A
			C-SBP120H36B	-	-	12.2	41.7	2.80	9.6	At
	3.7	42.4	C-SBP130H36A	-	-	13.4	45.7	2.98	10.2	A
	4	46.4	C-SBP140H36A	-	-	14.2	48.5	2.90	9.9	A
			C-SBP140H36B	-	-	14.2	48.5	2.90	9.9	At
	4.6	51.8	C-SBP160H36A	-	-	16.1	55.0	2.93	10.0	A
			C-SBP160H36B	-	-	16.1	55.0	2.93	10.0	At
	5	55.7	C-SBP170H36A	-	-	17.4	59.4	3.05	10.4	A
			C-SBP170H36B	-	-	17.4	59.4	3.05	10.4	At
	5.5	60.4	C-SBP185H36A	-	-	18.6	63.5	3.02	10.3	A
	6	66.8	C-SBP205H36A	-	-	20.5	70.0	3.05	10.4	A
			C-SBP205H36B	-	-	20.5	70.0	3.05	10.4	At
	7	77.4	C-SBP235H36A	-	-	24.0	81.9	3.00	10.2	A
			C-SBP235H36B	-	-	24.0	81.9	3.00	10.2	At
	8	89.2	C-SCP270H36A	-	-	27.5	93.8	3.10	10.6	P
			C-SCP270H36B	-	-	27.5	93.8	3.10	10.6	Pt
	10	104.1	C-SCP315H36A	-	-	32.2	109.9	3.13	10.7	N
			C-SCP315H36B	-	-	32.2	109.9	3.13	10.7	Nt
	11	120.2	C-SCP360H36A	-	-	36.6	124.9	3.13	10.7	N
			C-SCP360H36B	-	-	36.6	124.9	3.13	10.7	Nt
	12	131.9	C-SCP400H36A	-	-	40.3	137.5	3.12	10.6	N
			C-SCP400H36B	-	-	40.3	137.5	3.12	10.6	Nt
	13	148.8	C-SCP435H36B	-	-	43.5	148.4	3.10	10.6	Mt
	15	171.2	C-SCP510H36B	-	-	54.0	184.2	3.10	10.6	Designing

■ B,C 系列空调应用涡旋压缩机

C-SB, C-SC Series Scroll Compressor for Air Conditioning

■ R410A – B8 (50Hz 380–415V / 60Hz 440–460V)

Hi-COP Models

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting	50Hz				60Hz				外观图代号 Outline Graph Code
						制冷量 kW	Capacity kBTU/h	COP		制冷量 kW	Capacity kBTU/h	COP		
								W/W	BTU/Wh			W/W	BTU/Wh	
3	3.5	39.9	C-SBP120H38A	-	-	10.0	34.1	2.86	9.8	12.2	41.7	2.94	10.0	A
			C-SBP120H38B	-	-	10.0	34.1	2.86	9.8	12.2	41.7	2.94	10.0	At
	3.7	42.4	C-SBP130H38A	-	-	10.9	37.2	2.91	9.9	13.3	45.4	3.02	10.3	A
			C-SBP130H38B	-	-	10.9	37.2	2.91	9.9	13.3	45.4	3.02	10.3	At
	4	46.4	C-SBP140H38A	-	-	11.7	39.9	2.93	10.0	14.3	48.8	3.01	10.3	A
			C-SBP140H38B	-	-	11.7	39.9	2.93	10.0	14.3	48.8	3.01	10.3	At
	4.5	51.6	C-SBP160H38C	-	-	13.2	45.0	3.07	10.5	16.0	54.6	3.08	10.5	A
	4.6	51.8	C-SBP160H38A	-	-	13.2	45.1	2.87	9.8	16.2	55.3	2.98	10.2	A
			C-SBP160H38B	-	-	13.2	45.1	2.87	9.8	16.2	55.3	2.98	10.2	At
	5.5	60.4	C-SBP185H38A	-	-	15.2	51.9	2.92	10.0	18.7	63.8	3.07	10.5	A
	5	55.7	C-SBP170H38A	-	-	14.2	48.5	2.99	10.2	17.3	59.1	3.04	10.4	A
			C-SBP170H38B	-	-	14.2	48.5	2.99	10.2	17.3	59.1	3.04	10.4	At
	6	66.8	C-SBP205H38A	-	-	16.8	57.4	3.00	10.2	20.6	70.3	3.10	10.6	A
			C-SBP205H38B	-	-	16.8	57.4	3.00	10.2	20.6	70.3	3.10	10.6	At
	7	76.0	C-SBP235H38A	-	-	19.9	67.9	3.04	10.4	24.2	82.6	3.12	10.6	A
			C-SBP235H38B	-	-	19.9	67.9	3.04	13.8	24.2	82.6	3.12	10.6	At
	8	89.2	C-SCP270H38A	-	-	22.4	76.5	3.10	10.6	27.2	92.9	3.11	10.6	E
			C-SCP270H38B	-	-	22.4	76.5	3.10	10.6	27.2	92.9	3.11	10.6	Et
	10	104.1	C-SCP315H38A	-	-	26.0	88.8	3.13	10.7	31.4	107.2	3.15	10.8	E
			C-SCP315H38B	-	-	26.0	88.8	3.13	10.7	31.4	107.2	3.15	10.8	Et
	11	120.2	C-SCP360H38A	-	-	29.8	101.7	3.13	10.7	35.9	122.6	3.15	10.8	E
			C-SCP360H38B	-	-	29.8	101.7	3.13	10.7	35.9	122.6	3.15	10.8	Et
	12	127.8	C-SCP400H38A	-	-	32.2	109.9	3.10	10.6	-	-	-	-	E
			C-SCP400H38B	-	-	32.2	109.9	3.10	10.6	-	-	-	-	Et
			C-SCP400H38M	-	-	32.6	111.2	3.20	10.9	39.4	134.4	3.2	10.9	M
	13	148.8	C-SCP435H38B	-	-	37.2	127.0	3.15	10.8	44.6	152.3	3.16	10.8	Ft
	15	171.2	C-SCP510H38B	-	-	43.9	149.9	3.18	10.9	53.5	182.7	3.20	10.9	Lt

■ R410A-B9 (60Hz 380V)

相 Phase	额定功率 Out Put HP	排气量 Displacement cm³/rev	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	60Hz				外观图代号 Outline Graph Code
						制冷量 Capacity		COP		
						kW	kBTU/h	W/W	BTU/Wh	
3	3	33.7	C-SBP105H39A	-	-	10.2	34.8	2.87	9.8	A
	3.5	39.9	C-SBP120H39A	-	-	12.3	42.0	2.96	10.1	A
			C-SBP120H39B	-	-	11.8	40.3	2.80	9.6	Jt
	3.7	42.4	C-SBP130H39A	-	-	13.2	45.0	2.90	9.9	A
	4	46.4	C-SBP140H39A	-	-	14.1	48.1	2.97	10.1	A
			C-SBP140H39B	-	-	14.0	47.8	2.90	9.9	Jt
	4.6	51.8	C-SBP160H39B	-	-	15.8	53.9	2.90	9.9	Jt
	5	55.7	C-SBN373H9F	809 955 89	-	16.9	57.7	2.96	10.1	Jt
	5.5	60.4	C-SBP185H39A	-	-	18.6	63.5	3.10	10.6	A
	6	66.8	C-SBP205H39B	-	-	19.9	67.9	3.00	10.2	Jt
	7	77.4	C-SBP235H39B	-	-	23.9	81.6	3.03	10.3	Jt
	8	89.2	C-SCP270H39A	-	-	27.6	94.2	3.14	10.7	P
			C-SCP270H39B	-	-	27.6	94.2	3.14	10.7	Pt
	10	104.1	C-SCP315H39A	-	-	32.3	110.2	3.17	10.8	N
			C-SCP315H39B	-	-	32.3	110.2	3.17	10.8	Nt
	11	120.2	C-SCP360H39A	-	-	36.8	125.6	3.15	10.7	N
			C-SCP360H39B	-	-	36.8	125.6	3.15	10.7	Nt
	12	131.9	C-SCP400H39A	-	-	40.4	137.8	3.16	10.8	N
			C-SCP400H39B	-	-	40.4	137.8	3.16	10.8	Nt
	13	148.8	C-SCP435H39B	-	-	43.5	148.4	3.13	10.7	Mt
	15	171.2	C-SCP510H39B	-	-	54.0	184.2	3.15	10.7	Designing

■ D 系列空调应用涡旋压缩机（内部高压型）

C-SD Series Scroll Compressor for Air Conditioning(Internal High Pressure Design)

■ R410A-DC Inverter

Inverter Drive Models

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	电源电压 Input Power Source	启动 方式 Starting Method	90Hz				外观图代号 Outline Graph Code
						制冷量 Capacity		COP		
						kW	kBTU/h	W/W	BTU/Wh	
-	6	42.3	C-SDP205H02B	380-415V	DC INV.	21.2	72.2	3.20	10.9	St
			C-SDP205H03B	200-240V		21.2	72.2	3.20	10.9	St
	10	66.8	C-SDP330H02B	380-415V		33.2	113.2	3.20	10.9	Ut
	12	80.5	C-SDP400H02B	380-415V		40.0	136.6	3.20	10.9	-

■ R410A – B8 (50Hz 380-415V / 60Hz 440-460V)

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	50Hz				60Hz				外观图代号 Outline Graph Code
						制冷量 Capacity		COP		制冷量 Capacity		COP		
						kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh	
3	5	55.7	C-SDP180H38B	-	-	14.5	49.5	3.00	10.2	18.0	61.5	3.10	10.6	Rt
	6	66.8	C-SDP205H38B	-	-	16.9	57.7	3.00	10.2	21.2	72.3	3.10	10.6	Qt
	7	74.4	C-SDP225H38B	-	-	18.8	64.2	2.95	10.1	23.0	78.5	3.00	10.2	Qt

■ R410A – B6 (60Hz 230V)

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	60Hz				外观图代号 Outline Graph Code
						制冷量 Capacity		COP		
						kW	kBTU/h	kW	A	
3	5	55.7	C-SDP180H36B	-	-	18.0	61.5	3.10	10.6	Rt
	6	66.8	C-SDP205H36B	-	-	21.2	72.3	3.10	10.6	Qt
	7	74.4	C-SDP225H36B	-	-	23.0	78.5	3.00	10.2	Qt

■ R410A-B9 (60Hz 380V)

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	60Hz				外观图代号 Outline Graph Code
						制冷量 Capacity		COP		
						kW	kBTU/h	W/W	BTU/Wh	
3	5	55.7	C-SDP180H39B	-	-	18.0	61.5	3.10	10.6	Rt
	6	66.8	C-SDP205H39B	-	-	21.2	72.3	3.10	10.6	Qt
	7	74.4	C-SDP225H39B	-	-	23.0	78.5	3.00	10.2	Qt

■ 低温制冷应用涡旋压缩机 Scroll Compressor for Refrigeration

■ R22 for Refrigeration – B3 (50Hz 200V / 60Hz 200–220V)

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	50Hz				60Hz				外观图代号 Outline Graph Code
						制冷量 Capacity		功率 Input	电流 Current	制冷量 Capacity		功率 Input	电流 Current	
	HP	cm³/rev	kW	kBTU/h	kW	A	kW	kBTU/h	kW	A				
3	5	89.2	C-SC373L3G	809 250 63	-	6.80	23.2	4.70	16.3	8.05	27.5	5.50	17.5	-
	6	104.0	C-SC453L3G	809 260 63	-	7.95	27.1	5.20	18.0	9.35	31.9	6.10	19.3	-
	7	120.0	C-SC523L3G	809 270 63	-	9.30	31.8	6.05	21.6	10.95	37.4	7.00	22.2	-
	8	137.0	C-SC603L3G	809 280 63	-	10.40	35.5	7.00	23.5	12.30	42.0	8.25	26.0	-
	10	171.2	C-SC753L3G	809 200 63	-	13.20	45.1	8.45	28.0	15.60	53.3	10.00	31.0	-

■ R22 for Refrigeration – B8 (50Hz 380–415V / 60Hz 440–460V)

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	50Hz				60Hz				外观图代号 Outline Graph Code
						制冷量 Capacity		功率 Input	电流 Current	制冷量 Capacity		功率 Input	电流 Current	
	HP	cm³/rev	kW	kBTU/h	kW	A	kW	kBTU/h	kW	A				
3	4	66.8	C-SB303L8A	809 840 68	-	5.15	17.6	3.35	6.2	6.30	21.5	3.95	6.1	-
	5	83.2	C-SB373L8A	809 850 68	-	6.70	22.9	4.20	7.5	8.10	27.6	4.95	7.5	-
	6	96.2	C-SB453L8A	809 860 68	-	7.70	26.3	4.70	8.7	8.95	30.5	5.55	8.7	-
		104.0	C-SC453L8H	809 261 68	-	7.90	27.0	5.05	9.3	9.40	32.1	5.95	9.3	-
	7	120.0	C-SC523L8H	809 271 68	-	9.20	31.4	5.85	10.8	10.90	37.2	6.80	10.7	-
	8	137.0	C-SC603L8H	809 281 68	-	10.50	35.8	6.65	12.4	12.40	42.3	7.90	12.4	-
	10	171.2	C-SC753L8H	809 201 68	-	13.00	44.4	8.05	14.8	15.50	52.9	9.60	14.8	-

■ R22 for Refrigeration – Inverter Drive Models (AC)

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	50Hz(161V)				70Hz(190V)				外观图代号 Outline Graph Code	
	HP	cm³/rev				制冷量 Capacity		功率 Input	电流 Current	制冷量 Capacity		功率 Input	电流 Current		
						kW	kBTU/h			kW	A		kW		kBTU/h
3	8	144.1	C-SCV603L0H	809 281 60	-	13.40	45.8	7.40	29.2	18.60	63.5	10.60	35.2	-	

■ 低温制冷应用涡旋压缩机 Scroll Compressor for Refrigeration

■ R404A for Refrigeration – B3 (50Hz 200V / 60Hz 200–220V)

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	50Hz				60Hz				外观图代号 Outline Graph Code
	HP	cm³/rev				制冷量 Capacity	功率 Input	电流 Current	制冷量 Capacity	功率 Input	电流 Current			
												kW	kBTU/h	
3	5	89.2	C-SCN373L3H	809 151 63	-	6.95	23.7	5.10	19.2	8.20	28.0	5.90	19.3	-
	6	104.0	C-SCN453L3H	809 161 63	-	8.10	27.7	5.85	21.6	9.55	32.6	6.80	21.9	-
	7	120.0	C-SCN523L3H	809 171 63	-	9.25	31.6	6.50	23.6	10.90	37.2	7.55	24.2	-
	8	137.0	C-SCN603L3H	809 181 63	-	10.50	35.8	7.45	27.0	12.40	42.3	8.85	28.3	-
	10	171.2	C-SCN753L3H	809 101 63	-	13.05	44.6	9.15	32.5	15.20	51.9	10.75	34.4	-
	12.5	214.8	C-SCN953L3H	809 121 63	-	15.70	53.6	10.80	38.8	18.10	61.8	12.60	40.3	-

■ R404A for Refrigeration – B8 (50Hz 380–415V / 60Hz 440–460V)

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	50Hz				60Hz				外观图代号 Outline Graph Code
						制冷量	Capacity	功率 Input	电流 Current	制冷量	Capacity	功率 Input	电流 Current	
HP	cm³/rev					kW	kBTU/h	kW	A	kW	kBTU/h	kW	A	
3	4	66.8	C-SBN303L8A	809 940 68	-	5.30	18.1	3.90	6.90	6.45	22.0	4.65	7.00	-
	5	83.2	C-SBN373L8A	809 950 68	-	6.50	22.2	4.90	8.50	7.85	26.8	5.75	8.50	-
	6	96.2	C-SBN453L8A	809 960 68	-	7.75	26.4	5.25	9.60	9.35	31.9	6.20	9.50	-
		104.0	C-SCN453L8H	809 161 68	-	8.15	27.8	5.80	10.4	9.75	33.3	6.86	11.3	-
	7	120.0	C-SCN523L8H	809 171 68	-	9.35	31.9	6.45	11.8	11.10	37.9	7.65	11.7	-
	8	137.0	C-SCN603L8H	809 181 68	-	10.20	34.8	7.40	13.5	12.40	42.3	8.85	13.5	-
	10	171.2	C-SCN753L8H	809 101 68	-	13.30	45.4	9.00	16.3	15.70	53.6	10.70	16.4	-

■ R404A for Refrigeration – B9 (60Hz 380V)

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	60Hz				外观图代号 Outline Graph Code
						制冷量 Capacity		功率 Input	电流 Current	
						kW	kBTU/h	kW	A	
3	6	104.0	C-SCN453L9H	809 161 69	-	10.20	34.8	6.70	12.2	-
	7	120.0	C-SCN523L9H	809 171 69	-	11.60	39.6	7.55	13.5	-
	8	137.0	C-SCN603L9H	809 181 69	-	13.10	44.7	8.80	15.4	-
	10	171.2	C-SCN753L9H	809 101 69	-	16.50	56.3	10.60	18.5	-

■ R404A for Refrigeration – Inverter Drive Models (AC)

相 Phase	额定功率 Out Put	排气量 Displacement	压缩机型号 Compressor Model	压缩机代号 Compressor Code	启动 方式 Starting Method	50Hz (160V)				70Hz (192V)				外观图代号 Outline Graph Code
	HP	cm³/rev				制冷量 kW	Capacity kBTU/h	功率 Input kW	电流 Current A	制冷量 kW	Capacity kBTU/h	功率 Input kW	电流 Current A	
3	8	144.1	C-SCVN603L0H	809 181 60	-	14.30	48.8	8.15	32.6	19.30	65.9	11.80	39.0	-
	10	171.2	C-SCVN753L0H	809 101 60	-	16.80	57.4	9.50	34.7	21.80	74.4	13.60	43.8	-

■说明 Explanations

◆测试条件 Rating Condition

		R22 / R407C / R410A	
		℃	°F
冷凝温度	Condensing Temperature	54.4	130
蒸发温度	Evaporating Temperature	7.2	45
过冷度	Sub Cooling	8.3	15
过热度	Superheat	11.1	20

◆测试条件 Rating Condition for EVI

		制冷 Cooling		制热 Heating	
		℃	°F	℃	°F
冷凝温度	Condensing Temperature	54.4	130	50	122
蒸发温度	Evaporating Temperature	7.2	45	-7	19.4
过冷度	Sub Cooling	8.3	15	2	3.6
过热度	Superheat	11.1	20	11.1	20

◆测试条件 Rating Condition for Refrigeration(R22/R404A)

		定速 Fixed speed		变频 Inverter	
		℃	°F	℃	°F
冷凝温度	Condensing Temperature	50	122	50	122
蒸发温度	Evaporating Temperature	-15	5	-10	14
过冷度	Sub Cooling	0	0	0	0
吸气温度	Suction Gas Temperature	18.3	65	18.3	65

◆电源 Power Source

代号 Code	相 Phase	50Hz	60Hz
B3	3Phase	200V	200-220V
B5	1Phase	220-240V	-
	3Phase	220-240V	-
B6	1Phase	-	208-230V
	3Phase	-	208-230V
B8	3Phase	380-415V	440(-460)V
B9	3Phase	-	380V

◆外观图的下标说明 Subscripts of Outline Graph Code

下标 Subscript	备注 Explanation
t	并联机型（带均油管接口）The connection port of oil balance tube is attached
s	螺丝接线柱 Screw type power supply connection

■ 外观图 Outline Graph

R22/R407C/R410A/R134a C-SB 系列 Series

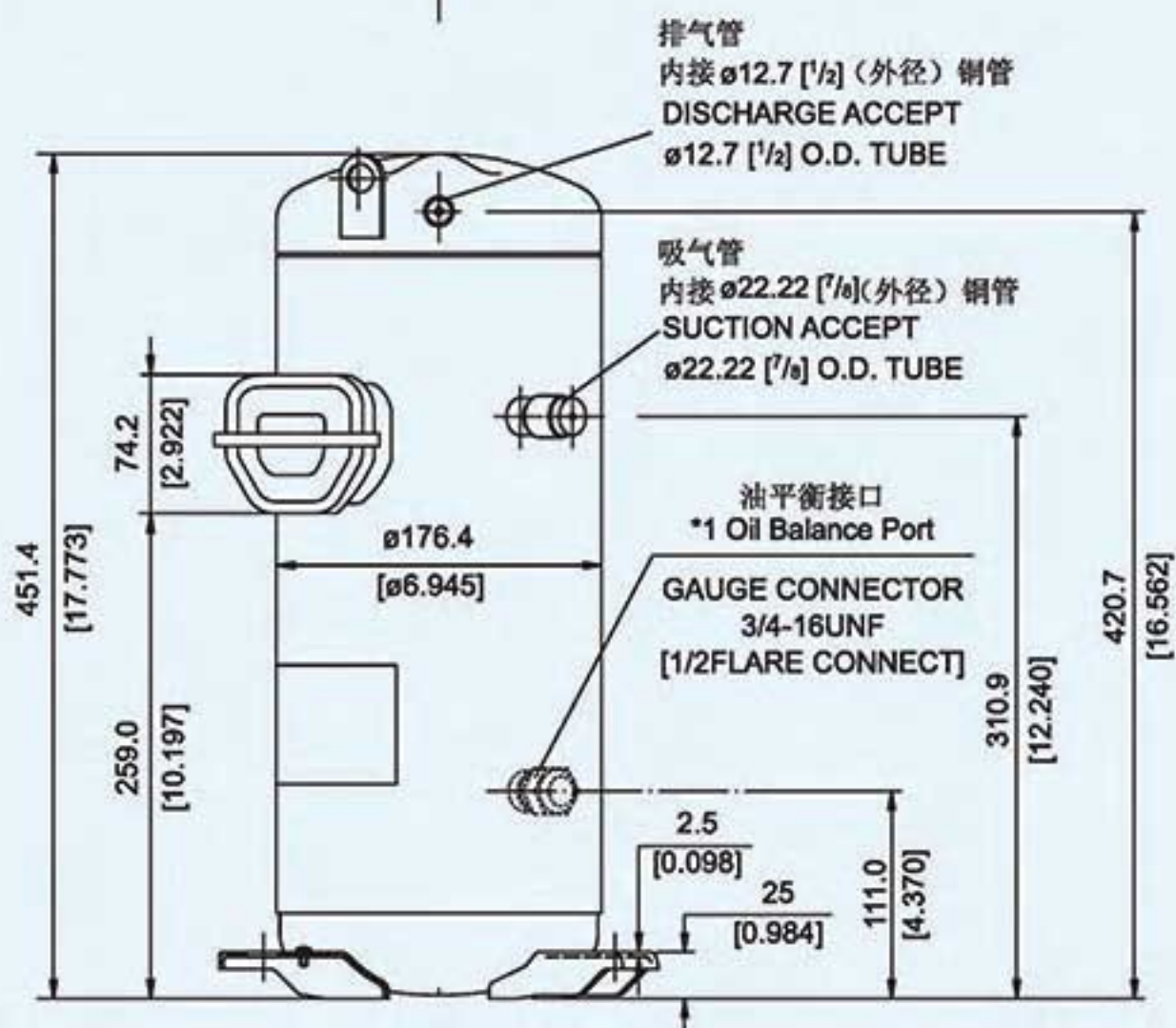
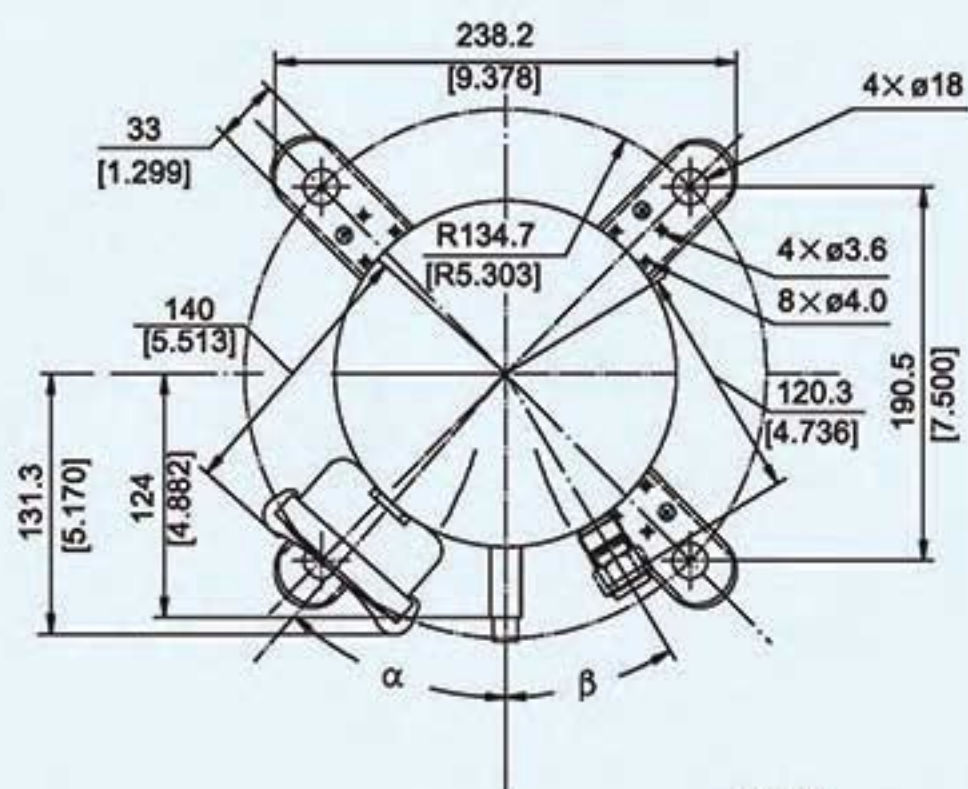
B 系列单机外观图
B Series-Single

代号 CODE	α	β
A	41.5°	31.0°
B	27.5°	45.0°

B 系列并联外观图
B Series-Tandem

代号 CODE	α	β
At	41.5°	31.0°

*1 本并联机型附带并联接口。
The connection port of oil balance tube is attached to tandem model.



■ 外观图 Outline Graph

R22/R407C/R410A/R134a C-SC 系列 Series

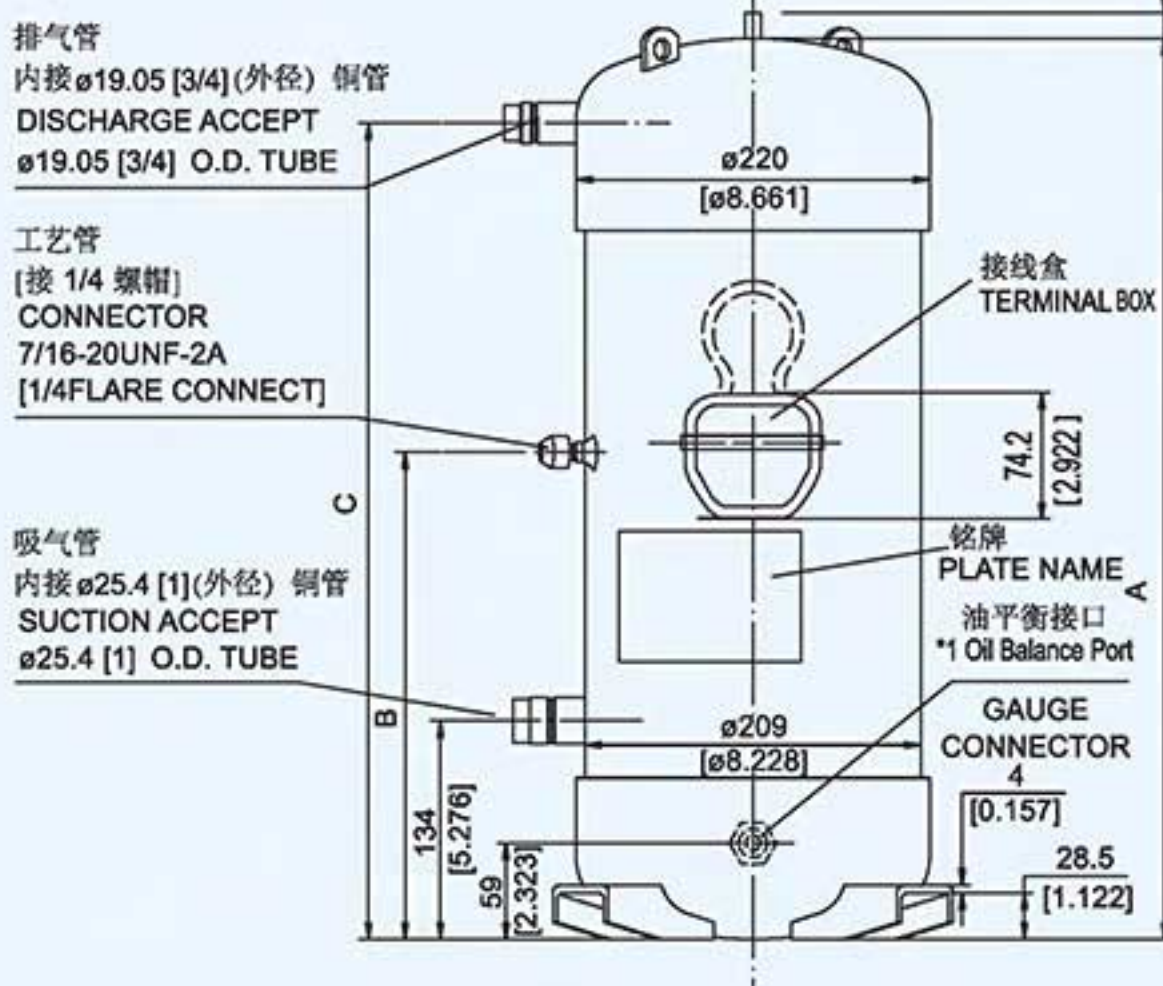
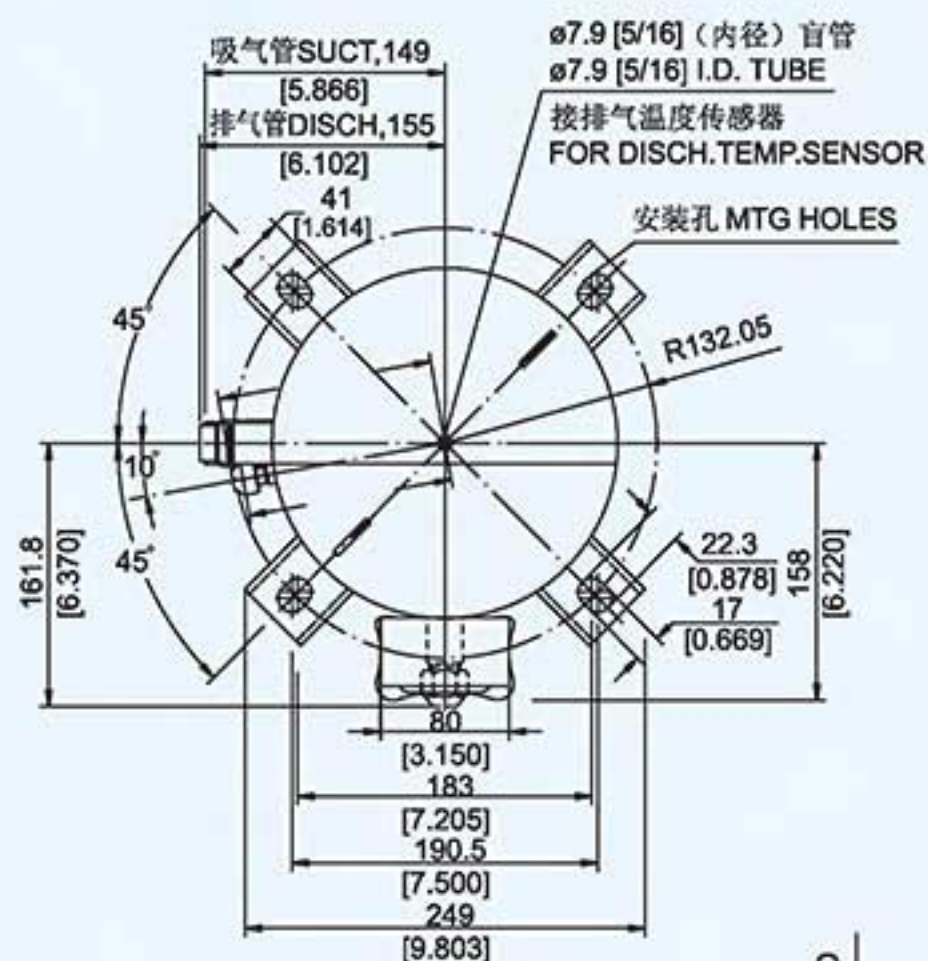
C 系列单机外观图
C Series-Single

代号 CODE	A	B	C	D
D	538 [21.18]	284 [11.18]	486 [19.13]	8 [0.31]
E	553 [21.77]	299 [11.77]	501 [19.72]	9 [0.35]

C 系列并联外观图
C Series-Tandem

代号 CODE	A	B	C	D
Dt	538 [21.18]	284 [11.18]	486 [19.13]	8 [0.31]
Et	553 [21.77]	299 [11.77]	501 [19.72]	9 [0.35]
Ft	568 [22.36]	314 [12.36]	516 [20.31]	11.8 [0.46]

*1 本并联机型附带并联接口。
The connection port of oil balance
tube is attached to tandem model.

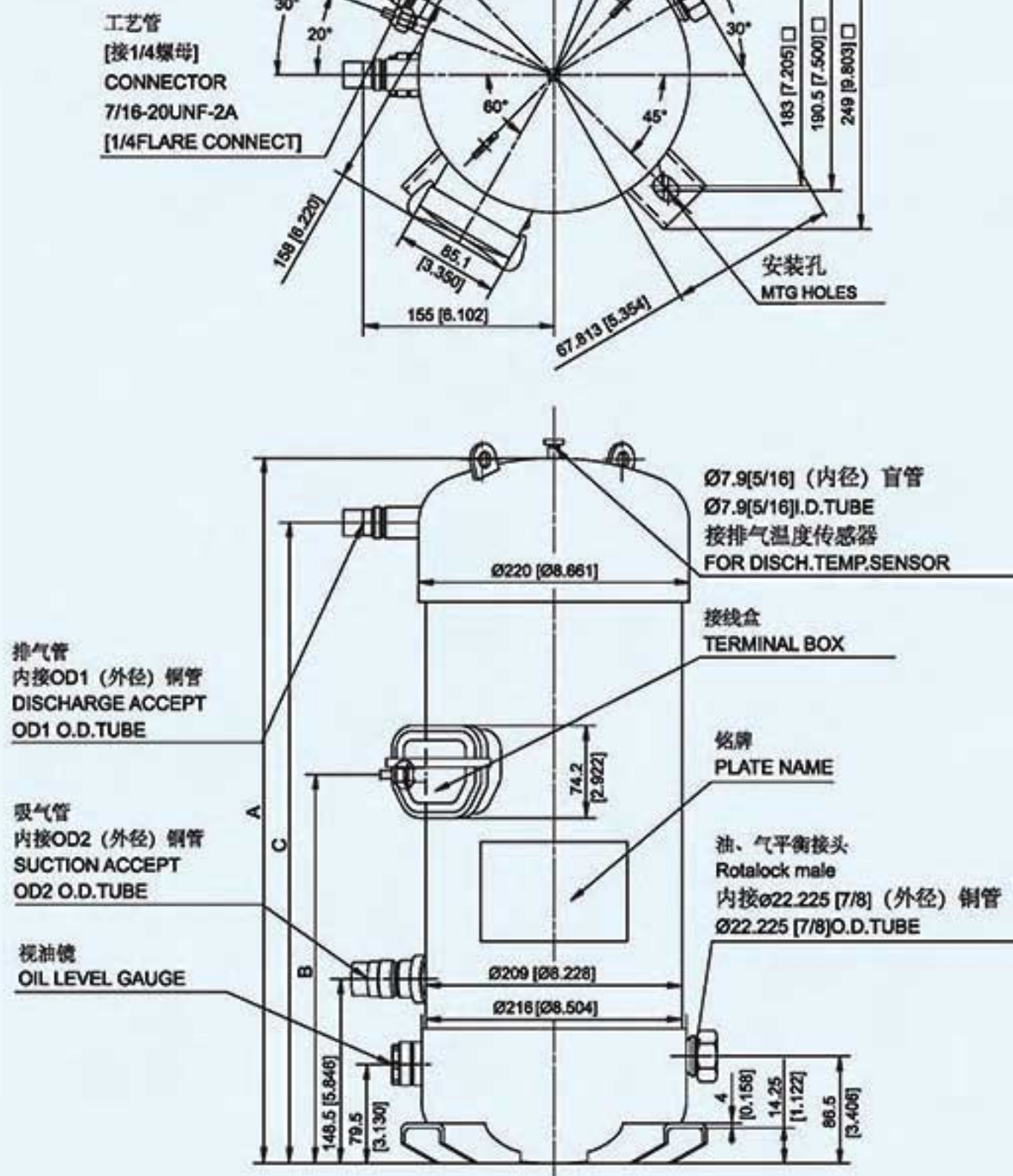


■ 外观图 Outline Graph

R22/R407C C 系列 Series

C 系列并联外观图
C Series-Tandem

代码 CODE	A	B	C	OD1	OD2
Gt	567.5 [22.34]	298.5 [11.75]	515.5 [20.30]	Ø19.05 [3/4]	Ø25.4 [1]
Ht	582.5 [22.93]	313.5 [12.34]	530.5 [20.89]	Ø22.23 [7/8]	Ø34.93 [1-3/8]



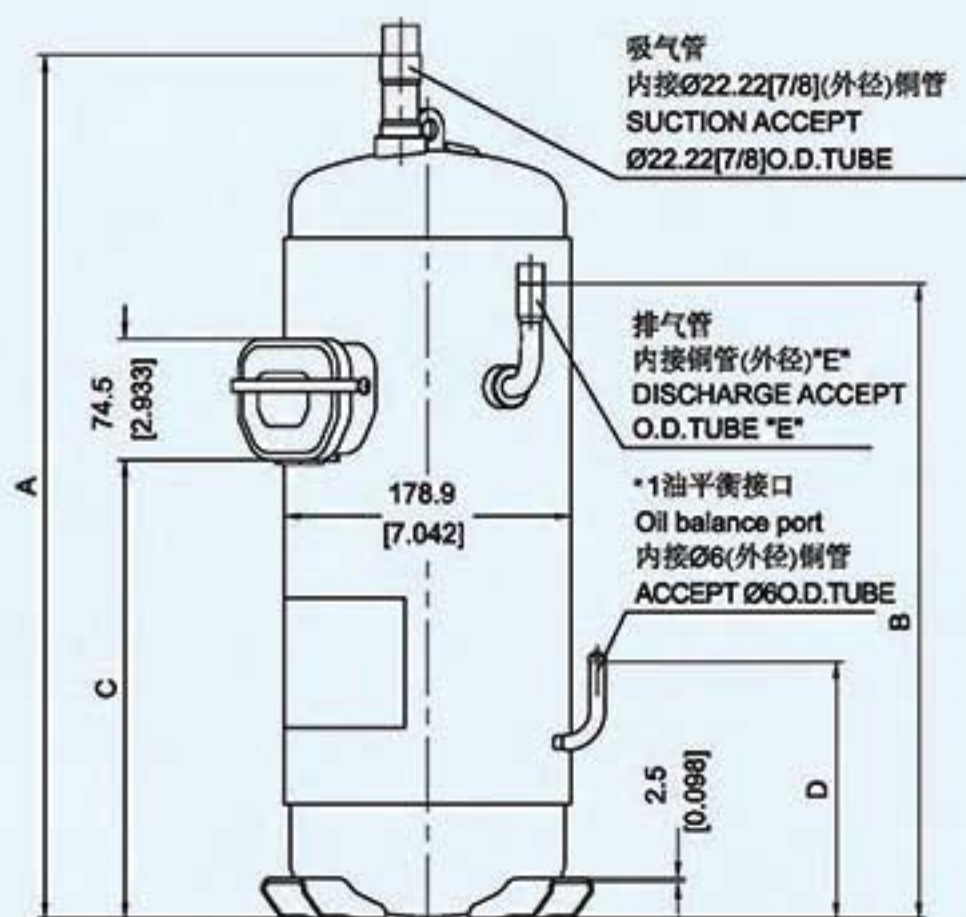
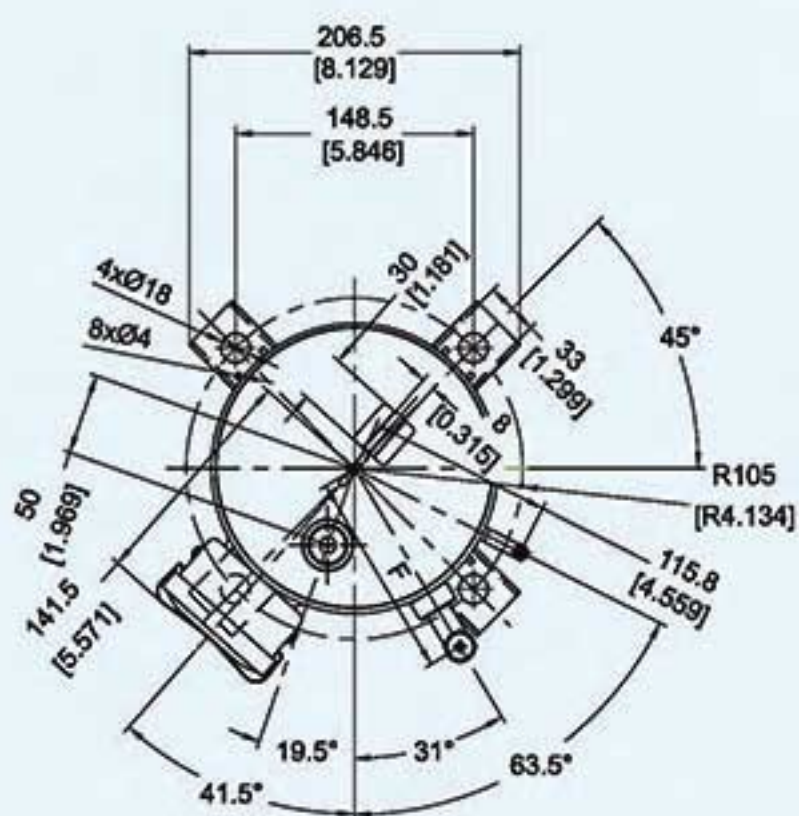
■ 外观图 Outline Graph

R410A D 系列 Series

D 系列单机外观图
D Series

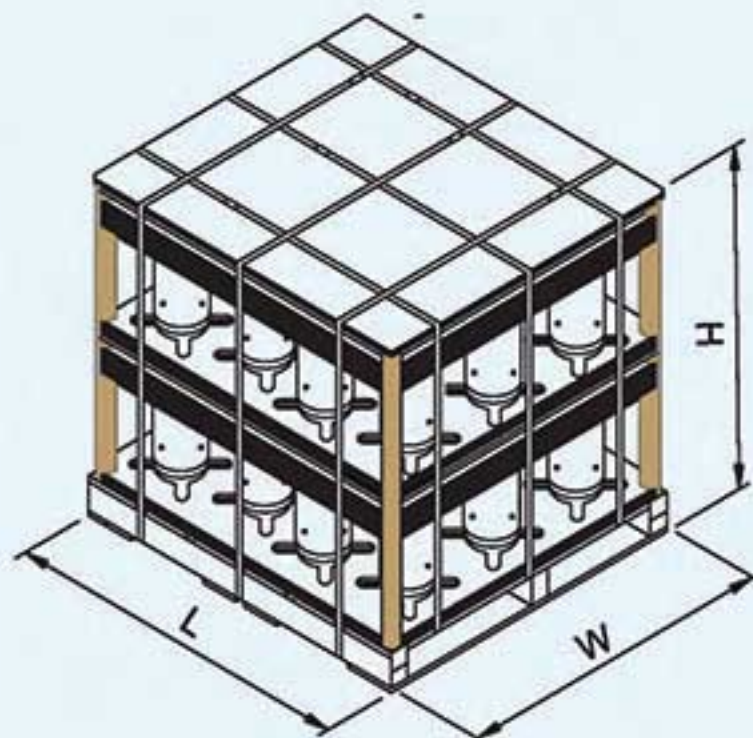
代号 CODE	A	B	C	D	E	F
Qt	531.0 [20.91]	390.4 [15.37]	282.4 [11.12]	158.4 [6.24]	Ø12.7 [1/2]	125 [4.92]
Rt	526.4 [20.72]	390.4 [15.37]	282.4 [11.12]	158.4 [6.24]	Ø12.7 [1/2]	125 [4.92]
St	478.7 [18.85]	344.7 [13.57]	237.2 [9.34]	157.7 [6.21]	Ø12.7 [1/2]	125 [4.92]
Ut	531.0 [20.91]	390.4 [15.37]	282.4 [11.12]	158.4 [6.24]	Ø15.9 [5/8]	128 [5.09]

*1 本机带附带并联接口。
The connection port of oil balance
tube is attached to this model.



■ 包装 Packing

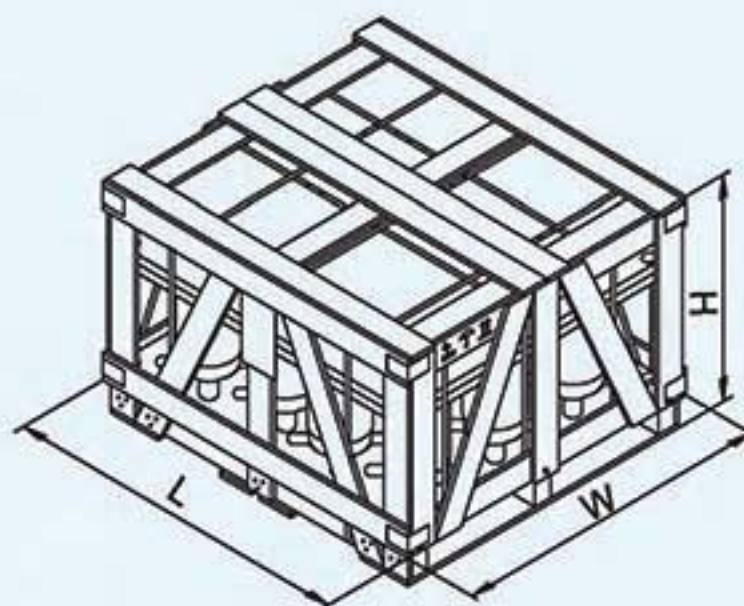
B 系列 series	标准包装 Standard Package (24 台) (24units)	尺寸 Dimension (mm)	L	1100	1100
			W	1000	1000
			H	1086	1120
			代表型号 Typical model	80985088	C-SBV180H00A
	集装箱 FCL (20")	包装箱数 Packages in total	24 台包装箱 24units Package	20	20
备注 Remark		最大 2 层运输及存贮 Two layers both for transportation and storage (at most)			



B 系列外包装图 (24 台包装)
B series Packaging Drawing (24units Package)

B 系列 series	单层包装 Small Package (12 台) (12units)	尺寸 Dimension (mm)	L	1148	1148
			W	1030	1030
			H	740	740
			代表型号 Typical model	80985068	C-SBR180H38Q
	集装箱 FCL (20")	包装箱数 Packages in total	12 台包装箱 12units Package	30	30
备注 Remark		最大 3 层运输及存贮 Three layers both for transportation and storage (at most)			

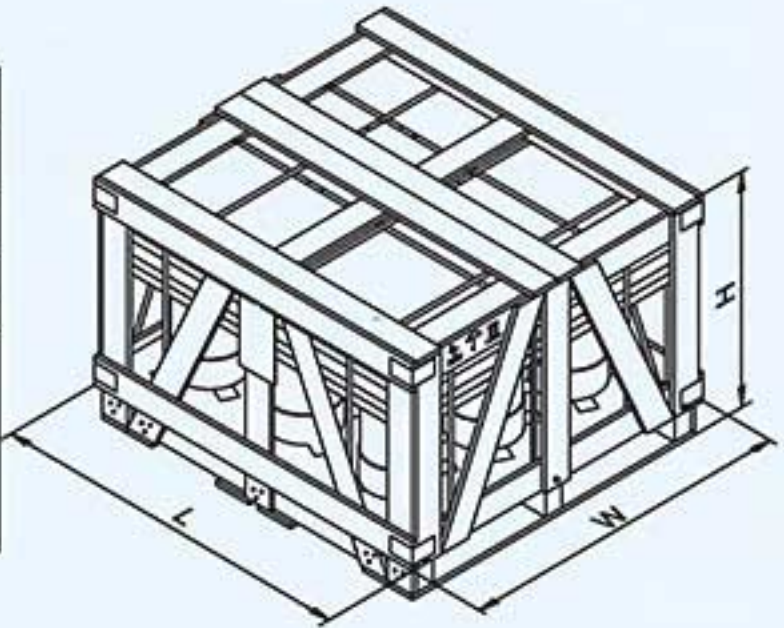
注：此包装只针对指定机型使用。
Note: This packing is only applied to specified models.



B 系列外包装图 (12 台包装)
B series Packaging Drawing (12units Package)

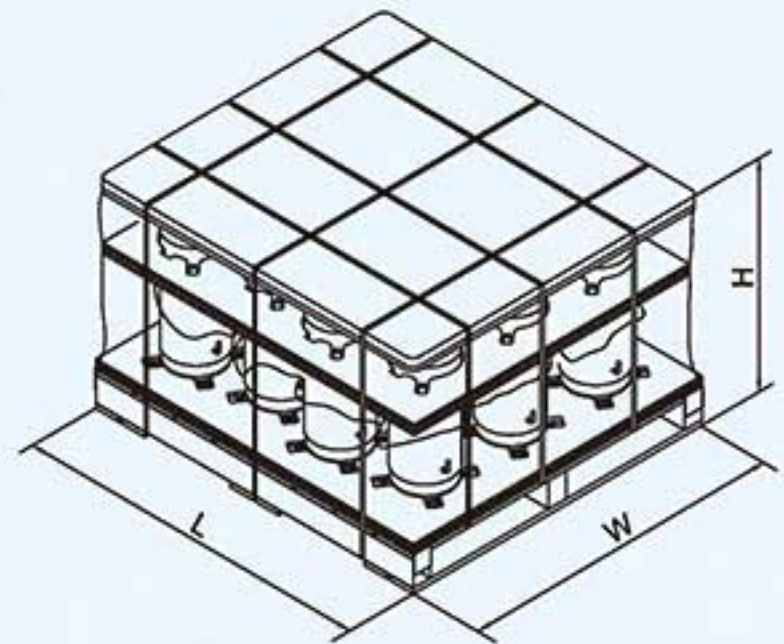
■ 包装 Packing

标准包装 Standard Package (9 台) (9units)	尺寸 Dimension (mm)	L	1160	1160	1160
		W	1060	1060	1060
		H	760	775	795
		代表型号 Typical model	C-SC903H8H	C-SCX435H38B	C-SCP510H38B
集装箱 PCL (20")	包装箱数 Packages in total	9 台包装箱 9units Package	30	30	30
备注 Remark	最大 3 层运输及存贮 Three layers both for transportation and storage (at most)				



C 系列外包装图
C series Packaging Drawing

D 系列 series	标准包装 Standard Package (12 台) (12units)	尺寸 Dimension (mm)	L	1100	1100
			W	1000	1000
			H	660	700
			代表型号 Typical model	C-SDP205H02B	C-SDP205H38B
	集装箱 FCL (20")	包装箱数 Packages in total	12 台包装箱 12units Package	30	30
	备注 Remark	最大 3 层运输及存贮 Three layers both for transportation and storage (at most)			



D 系列外包装图
D series Packaging Drawing

■ Note



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