

# ROTARY COMPRESSOR CATALOGUE

## 旋转式压缩机

### 产品手册

2023





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## 公司简介 Company Profile

### 公司概况 Company Introduction

三菱电机(广州)压缩机有限公司(简称MGC)是专业生产和销售高品质、高性能空调压缩机的企业。MGC成立于1994年10月,于1996年5月18日正式开业。注册资本为12,222万美元,占地面积约63,682m<sup>2</sup>,从业人员约3400人。年产能为800万台。

MGC生产从1HP到18HP的变频旋转式压缩机和8HP以上变频涡旋式压缩机,产品被广泛应用于家用空调、一拖一空调、多联机、模块机、热泵采暖、机房空调、冷冻冷柜等多个领域。

MGC采用三菱电机的创新研发与工业技术、管理和品质控制,并通过了压缩机多项认证和ISO9001~14001一体化的认证。MGC始终贯彻“品质第一”的宗旨,并深受国内外空调厂家的信赖。

Mitsubishi Electric (Guangzhou) Compressor co., LTD.(called MGC)is an enterprise which produces and sells high quality, high performance compressors for air-conditioning. MGC was established in October 1994 and started operations on May 18th 1996. Registered capital is 122.22 million USD, floor space is 63,682m<sup>2</sup>, the number of staff is about 3,400 and annual production capacity is around 8 million sets.

MGC has wide range of inverter rotary compressor line-up from 1HP to 18HP and inverter scroll compressor from 8HP,our compressors are used in many fields such as room air-conditioner, packaged air-conditioner, VRF, module chiller, ATW Heat pump, CCAC, showcase etc.

MGC inherits Mitsubishi Electric innovative development & industrial technologies, management and quality control, has obtained kinds of compressor certificates and ISO9001~14001 certificate. MGC has always adhered to our objective of “Quality First” and has won a great reputation among domestic and overseas customers.

### 环境基本理念 Principle of Environmental Protection

将“保护地球环境”作为经营的最重要的课题之一,在“与环境相和谐”的宗旨下生产、销售空调压缩机。MGC致力于高效节能、环保冷媒压缩机的研发和生产,以强化节能活动、减少CO<sub>2</sub>排放为己任,造福周边社会,实现地球的可持续发展。

MGC sets “Environmental Protection” as one of the management key issues and under the principle of “be harmonious with environment”, MGC continues our business.

MGC is continuously making efforts to develop high-efficiency, energy-saving products with environmentally friendly refrigerant, strengthen energy saving activities, reduce CO<sub>2</sub> emission and contribute to the sustainable society.

### 权威认证 Certification



\*CE含压力类PED、低电压安全类认证

## 全球据点 Global Base

MELCO Place: Tokyo, Japan  
位于:日本 东京

MEU-GER Place: Dusseldorf, G  
位于:德国 杜塞尔多夫



Mitsubishi Electric Corporation  
Headquarter  
三菱电机株式会社 总公司



Mitsubishi Electric B.V.  
German Branch



Mitsubishi Electric Corporation  
Shizuoka Works

MELSHI Established: 1954  
Place: Shizuoka, Japan  
成立于: 1954年 位于: 日本 静冈



Mitsubishi Electric Corporation  
Air-Conditioning & Refrigeration  
Systems Works

AC&R Established: 1943  
Place: Wakayama, Japan  
成立于: 1943年 位于: 日本 和歌山

## 全球营销、开发、生产据点

Global Marketing, R&D, Production Base

三菱电机压缩机生产始于1958年, 至今有65年的历史。在全球拥有4个生产据点, 年产量合计为1,400万台以上。

Mitsubishi Electric compressor production began in 1958, and has been in production for 65 years. It has 4 production bases in the world, the annual production capacity exceeds 14 million units.

## 三菱电机压缩机全球型谱

Mitsubishi Electric Compressor Global Line-up

Germany

MEUS Place: Georgia, USA  
 位于: 美国 佐治亚



Mitsubishi Electric U.S., Inc.

- 总公司
- 销售公司
- 生产据点



Mitsubishi Electric (Guangzhou) Compressor Co., Ltd.

MGC Established: 1994  
 Place: Guangzhou, China  
 成立于: 1994年 位于: 中国 广州



Siam Compressor Industry Co., Ltd

SCI Established: 1988  
 Place: Laem Chabang, Thailand  
 成立于: 1988年 位于: 泰国 林查班

		HP	1.5	2	3	4	6	8	10	12	18										
		kBtu/h	12	24	36	48	60	72	84	96	108	156									
		kW	0.1	0.5	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10	20	30	40	50	65	...	90
MELSHI 日本 Japan	定速转子(R134a) Fixed-speed Rotary	<span style="display: inline-block; width: 20%; background-color: #008000;"></span>																			
	变频转子 Inverter Rotary	<span style="display: inline-block; width: 60%; background-color: #008000;"></span>																			
MGC 中国 China	定速转子 Fixed-speed Rotary	<span style="display: inline-block; width: 70%; background-color: #800080;"></span>																			
	变频转子 Inverter Rotary	<span style="display: inline-block; width: 85%; background-color: #800080;"></span>																			
	变频涡旋 Inverter Scroll	<span style="display: inline-block; width: 40%; background-color: #800080;"></span>																			
SCI 泰国 Thailand	定速转子 Fixed-speed Rotary	<span style="display: inline-block; width: 65%; background-color: #4169E1;"></span>																			
	变频转子 Inverter Rotary	<span style="display: inline-block; width: 75%; background-color: #4169E1;"></span>																			
	定速涡旋 Fixed-speed Scroll	<span style="display: inline-block; width: 30%; background-color: #4169E1;"></span>																			
	变频涡旋 Inverter Scroll	<span style="display: inline-block; width: 90%; background-color: #4169E1;"></span>																			

# 命名规则

## Model Code Diagram

**S V B 200 F TM M C**

1 2 3 4 5 6 7 8

### 1 系列名称 Series name

类型 Type	系列名 Series name
单转子 Single	K, R
双转子 Twin	S, T, M, L

### 2 冷媒 Refrigerant

记号 Symbol	冷媒 Refrigerant
N	R410A
B	R134a
V	R32
Y	R410A, R32
J	R513A, R1234yf
P	R290
R	R454B

### 3 特殊规格 Special specifications

记号 Type	规格 Specification
B	DC 变频 DC Inverter
T	T3工况 Tropical
K	DC 变频喷气增焓 DC Inverter injection

### 4 压缩机排气量 $\text{cm}^3$ Stroke volume

### 5 电源规格 Power supply

记号 Symbol	相 Phase	定格电压 (V) Rating voltage (V)	频率 (Hz) Rating frequency (Hz)
R	1	100/100-110V	50/60
W	1	115-120V	60
S	1	200/200-200V	50/60
N	1	200/208-230V	50/60
V	1	220-240V	50
G	1	200-240/230V	50/60
Y	3	380-415/400(-460)V	50
F	-	Inverter	-

### 6 客户规格的分类号 Customer's specification code

### 7 冷冻机油记号 Refrigerant oil code

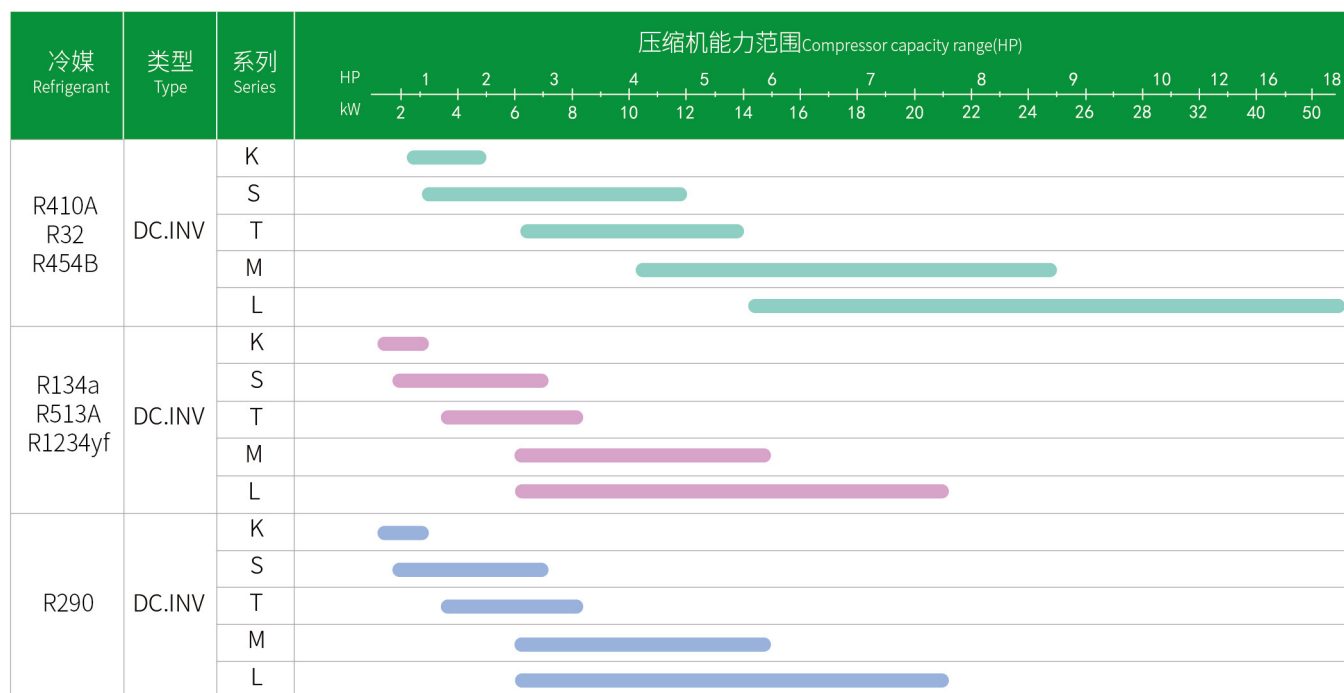
记号 Symbol	冷冻机油 Refrigerant oil
H	非相溶油 Immiscible oil
M	相溶油 Miscible oil

### 8 生产地 Production base

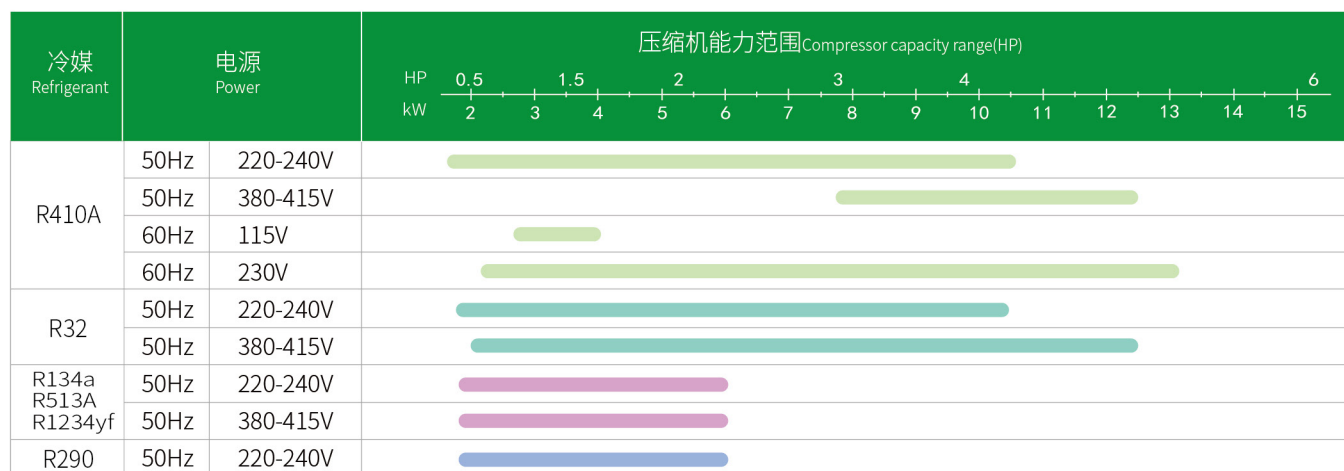
记号 Symbol	国家 Countries
C	中国 China
T	泰国 Thailand

# 机型一览表 Product Line-up

## 变频系列 Inverter Series

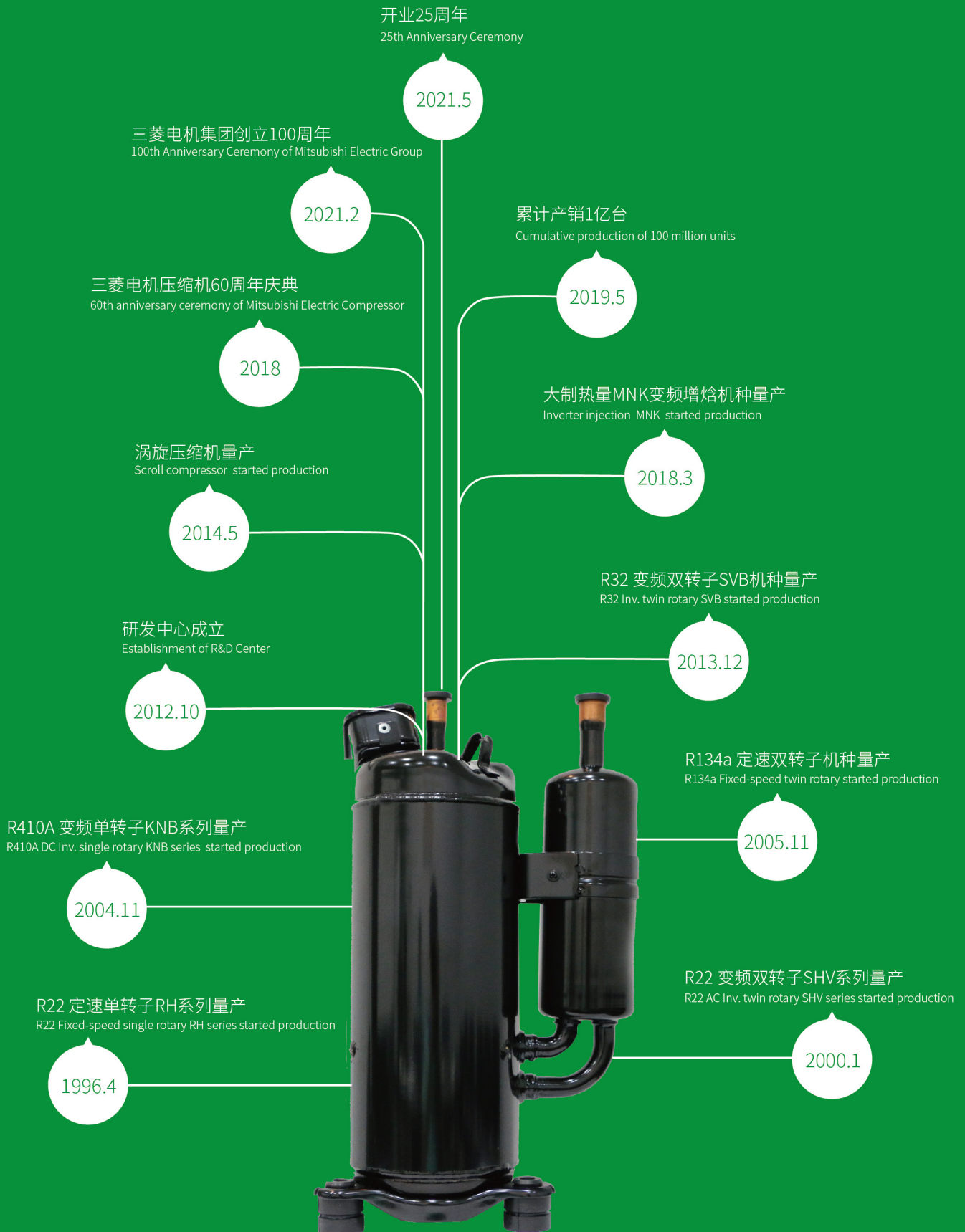


## 定速系列 Fixed-speed Series



# 产品历程

## Product History





# 全方位技术支援 Technical Support

## 01 精准快速的现场支援实力

先进的仪器配以完整的故障排查流程，点对点分析，从根源上解决问题，务求避免事故再次发生，将问题解决在开发节点上，以达成"0"售后。

### Precise and fast technical support

MGC has advanced instruments and integrated process of problem checking. We try our best to stifle problem in the cradle and avoid to happen again. Our technical team address problem in time to reach our goal -- none of after-sales problem.

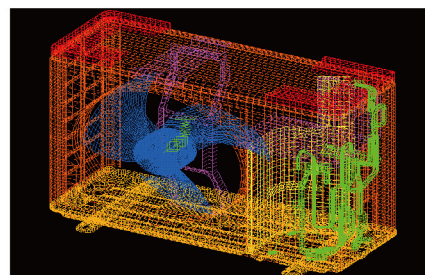
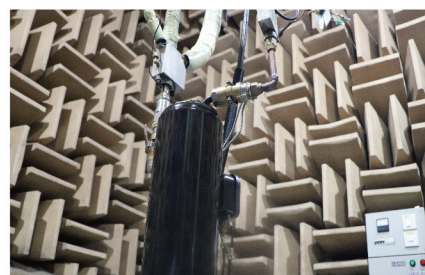


## 02 高效完备的仿真技术

具备从压缩机、配管乃至系统全方位的仿真技术应用，涵括性能、应力、振动全面模拟，能提供达成系统优化的配置建议，减轻客户开发负担，提高项目导入效率。

### Efficient and complete simulation technology

MGC equipped with integrated simulate technology for compressor, pipe and unit, which include performance, stress and vibration. So MGC can roundly help customers to reach the optimal unit and greatly improve the efficiency of product introduction.

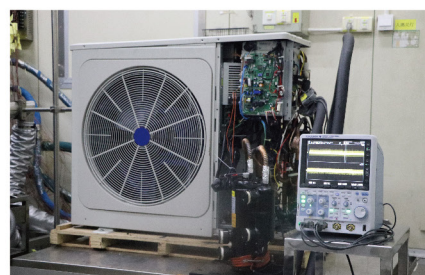


## 03 先进可靠的变频电控驱动解决方案

具备30年以上的电机驱动经验，配以三菱电机IPM及各驱动厂家长久以来的友好合作，能为客户提供先进可靠的电控驱动解决方案。

### Advanced and reliable inverter drive solution

Our experience of drive application to IPMSM has been for more than 30 years. And Mitsubishi Electric not only has its own IPM drive but also keeps a good relationship with other drive manufacturers. So we can provide reliable drive solution to customers.



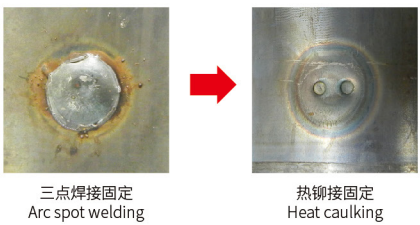
# 三菱电机革新技术 Mitsubishi Electric Innovative Technology

## 小型化技术 Down-sizing technology

### 01 热铆接 Heat Caulking

机芯部位的固定由以往的三点焊接改用热铆接方式,减少了机芯部分的倾斜,从而进一步提高了效率。

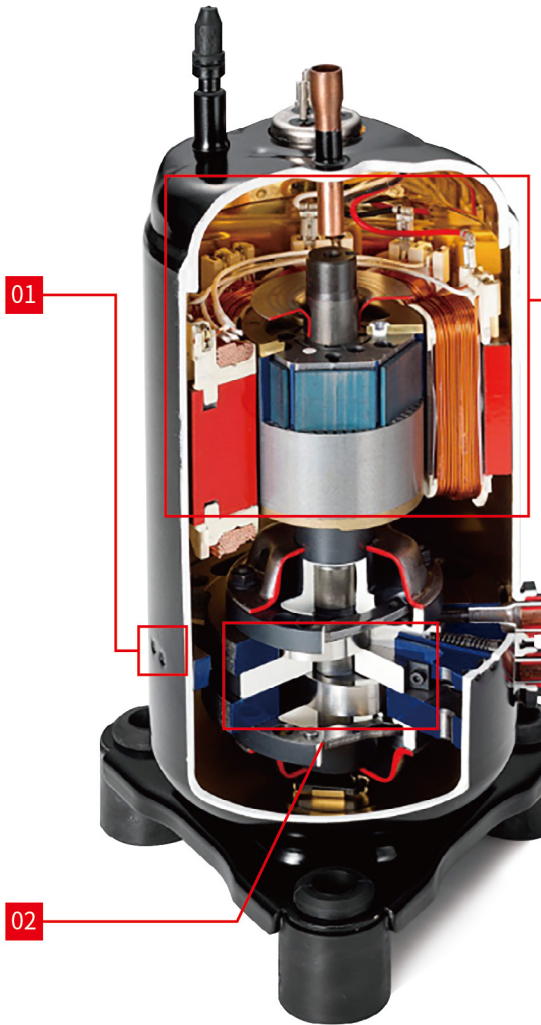
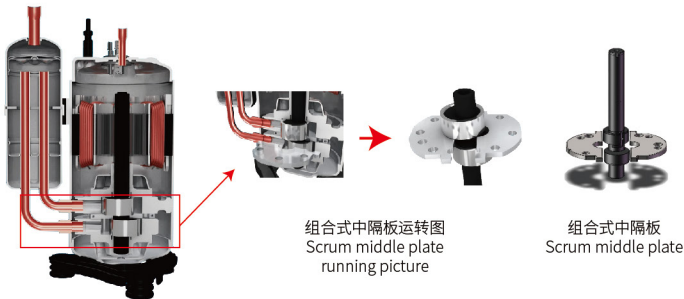
Heat caulking is utilized attaching internal parts instead of conventional arc spot-welding,contributing to minimal distortion and higher efficiency.



### 02 组合式中隔板 Scrum middle plate

该技术将汽缸中隔板分割再接合,消除了活塞与中隔板的间隙,同时实现偏心量扩大,从而达到小型、高输出功率的目的。

It eliminates the clearance between the piston and the middle plate.At the same time,the eccentricity is expanded,so as to achieve the purpose of small size and high output power.



\*部分机型采用上述技术  
Technology depend on models

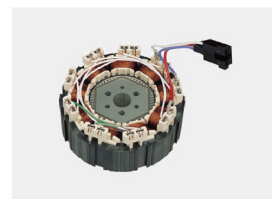


## 高性能马达技术 High-efficient motor technology

### 03 龙骨马达 Joint lap motor

三菱电机采用展开式集中卷线和稀土磁石, 独自研发了更高效率的马达。新技术大幅提高了压缩机的可靠性。

Our ultrahigh-efficiency motors were developed utilizing the Company's innovative dense winding technology and rare earth magnet, enabling them to provide significantly improved reliability.



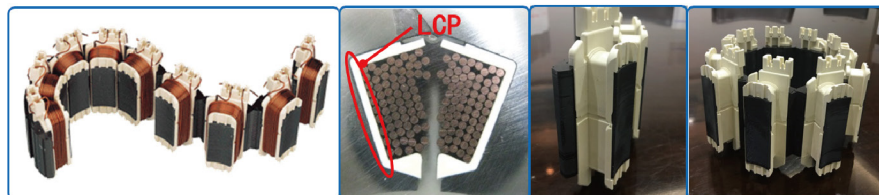
03

04

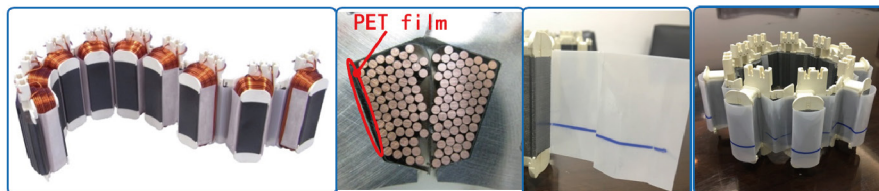
### 04 高密度集中卷 High density winding

新型绝缘材料-聚脂薄膜 (PET FILM), 该项应用提高了电磁线占槽率和马达效率。

The new motor insulator --PET FILM :wiring more to get higher density that will result in higher motor efficiency.



高密度化 ↓ High density



# 新技术&新品介绍

## Introduction of New Technology and Product

### 最新技术

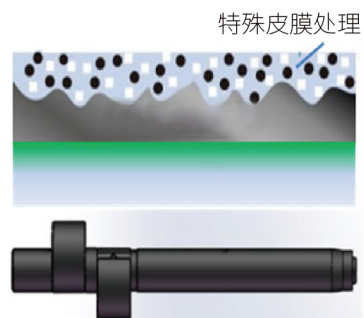
New technology

#### 01 高刚性曲轴+特殊皮膜处理

该技术在确保高信赖性前提下,保持壳体直径不变,实现小型化。

#### Special coated high rigidity crankshaft

The technology can achieve miniaturization by keeping the diameter of shell unchanged under the premise of ensuring high reliability.

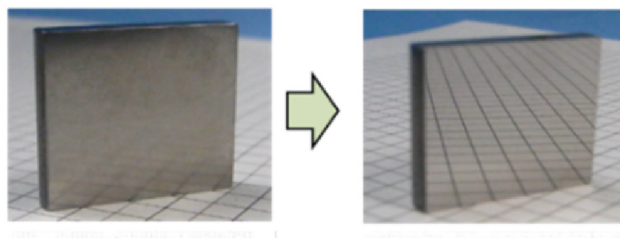


#### 02 高精度研磨技术

- 减少摩擦损耗, 提高效率
- 降低噪音发生范围, 实现更低噪音

#### Superfinished VANE side

- To reduce frictional losses and improve efficiency
- To reduce the noise range and lower the noise



#### 03 非对称滑片槽

- 减少摩擦损耗, 提高效率
- 降低噪音发生范围, 实现更低噪音

#### Asymmetrical VANE slot

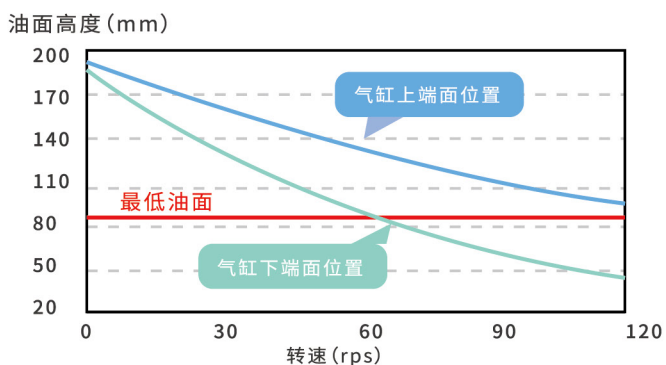
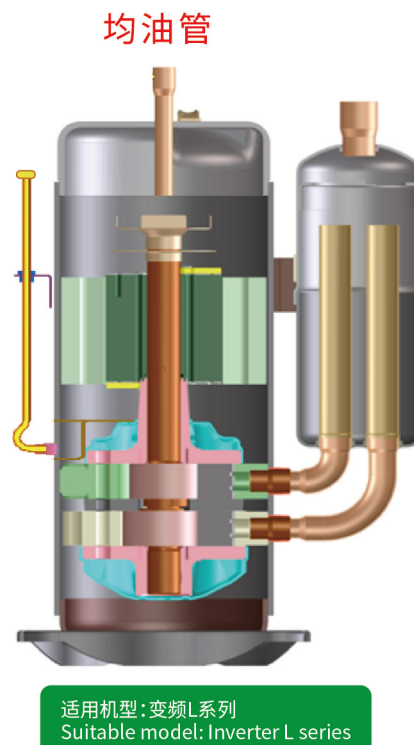
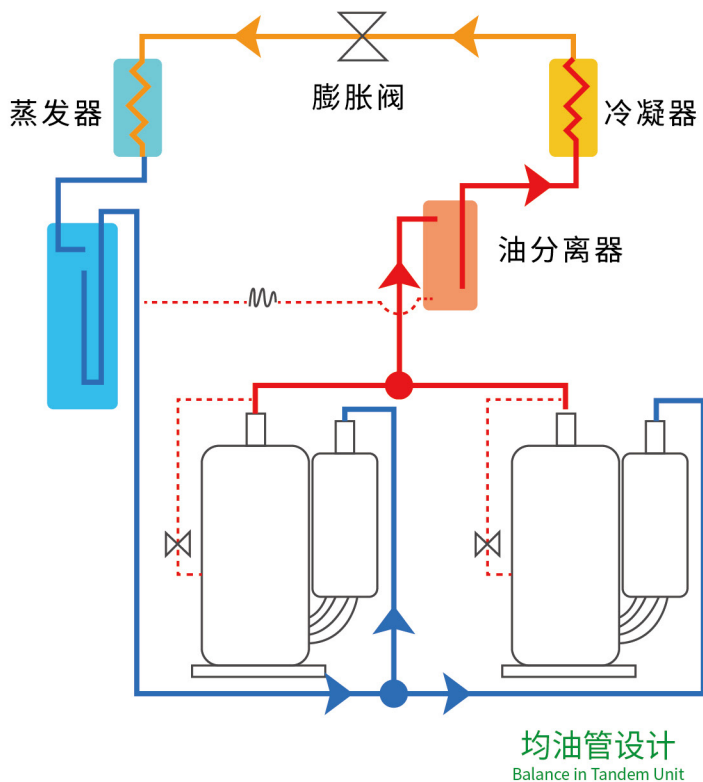
- To reduce frictional losses and improve efficiency
- To reduce the noise range and lower the noise



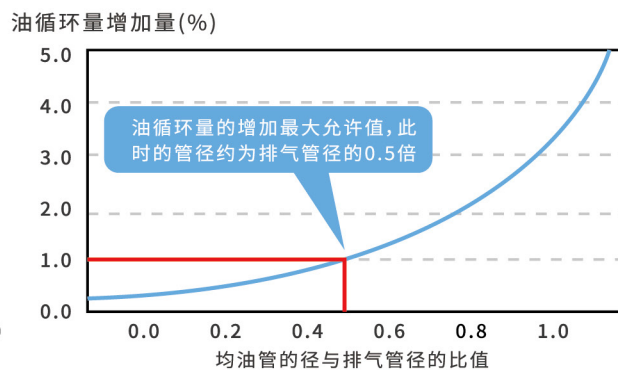
新技术代表机型

\*部分机型采用上述技术  
Technology depend on models

并联技术  
Tandem application



进油口位置与油面高度关系



油循环量增加量

在压缩机并联系统中, 采用均油管设计, 均油管进油口和出油口分别与压缩机壳体和排气管焊接连接, 实现了并联系统的油平衡, 从而有效发挥出并联系统的优势。

In the tandem unit, MGC use the special pipe connect compressor shell and discharge pipe to keep oil balance. Thereby it brings the tandem unit 's advantage into full paly.

\*部分机型采用上述技术  
Technology depend on models

# 新技术&新品介绍

## Introduction of New Technology and Product

### 双通过给喷气增焓 (EVI) 变频双转子压缩机

Dual-channel Super-charge Injection inverter twin rotary compressor

#### 01 产品特点 Product features

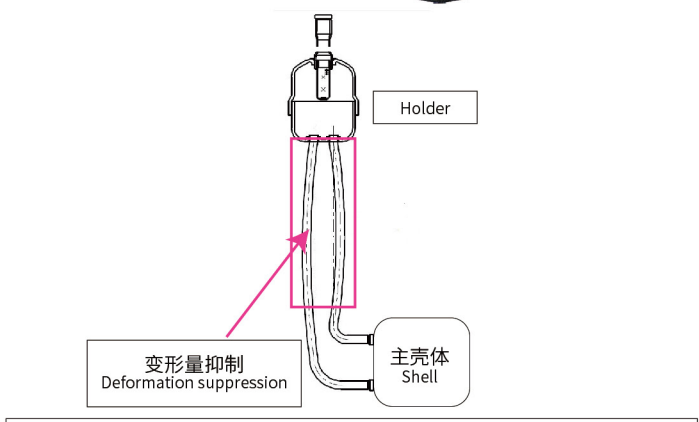
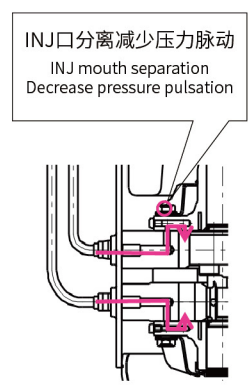
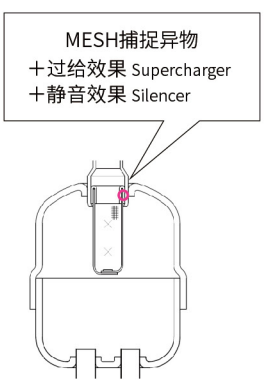
**A** 采用三菱电机革新技术——双通过给喷气增焓  
Mitsubishi Electric innovative technology — dual-channel super-charge injection

**B** 低音振、高可靠性、高效能  
Low vibration and noise, high reliability, high efficiency

**C** 应用于多联机、水机等  
Application: VRF, Chiller commercial multi-air conditioner



#### 02 消声器介绍 Muffler introduction



通过固定EVI管, 可以确保压缩机在运输和安装过程中不易因外力发生折损, 避免不良品发生。  
Fixing the EVI pipe can ensure the compressor that it is not easy to be damaged by external forces during transportation and installation, and also avoid defective products.

### LINE-UP

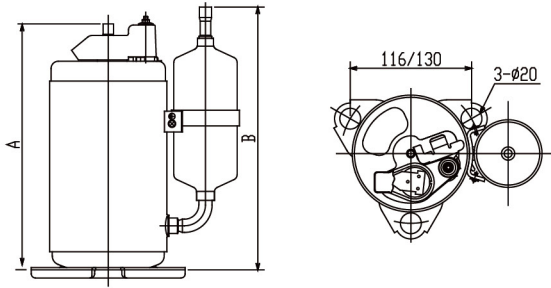
HP	4	5	6	7	8	9	10	12	14	16	18	20
kW	11.2	14	16	18	22.4	25	28	33.6	39.2	44.8	50.4	56
MNK/MVK33*	█											
MNK/MVK36*	█											
MYK42FABMC	█											
MYK53FQDMC		█										
LNK53FAAMC		█										
LNK65FAAMC/LYK65FABMC					█							
LNK80FAAMC/LYK80FABMC/LYK80FTBMC							█					

注: \*表示开发中机型 Product in development

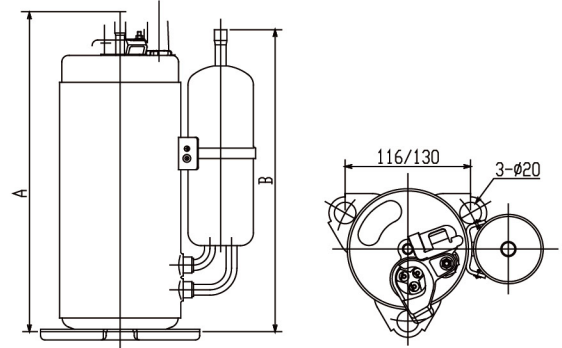
\*部分机型采用上述技术  
Technology depend on models

# 外型尺寸图

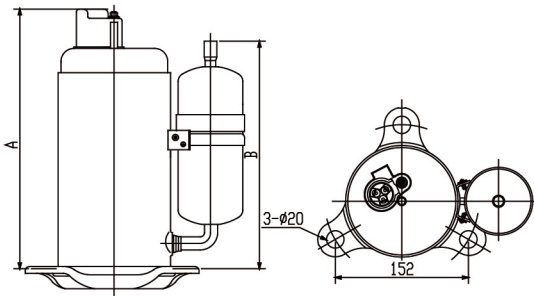
## Outline Dimension Drawing



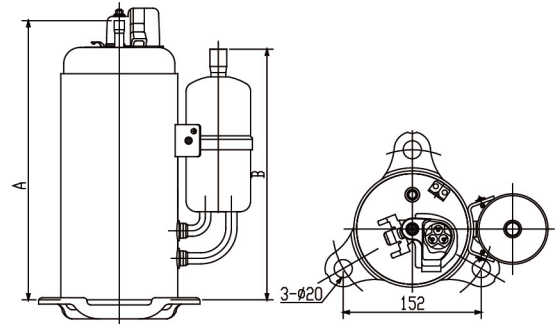
K系列 / K Series



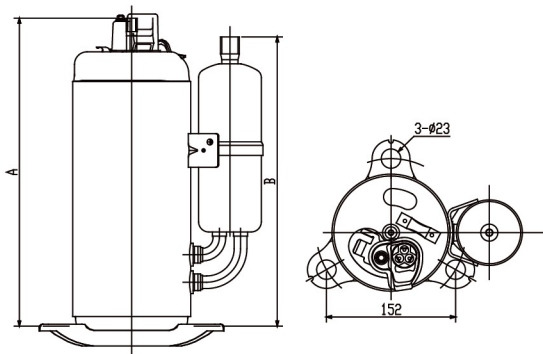
S系列 / S Series



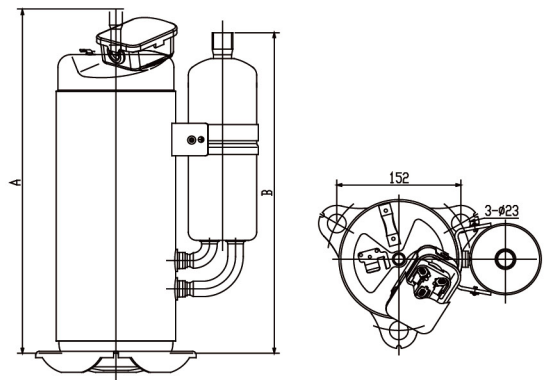
R系列 / R Series



T系列 / T Series



M系列 / M Series



L系列 / L Series

# 变频压缩机 R410A

## Inverter Compressor R410A

### R410A

系列 Series	机型 Model	排量 Displ.	制冷量 Capacity		功率 Power	能效比 COP	运转频率范围 f Range	外观尺寸 Dimension(A)	外观尺寸 Dimension(B)
		cm <sup>3</sup> /rev	W	Btu/h	W	W/W	rps	mm	mm
K	KNB065FVZMC	6.5	2,020	6,892	610	3.31	15-115	213.0	234.5
	KNB073FCKMC	7.3	2,250	7,677	690	3.26	15-115	213.0	234.5
	KNB092FADMC	9.2	2,925	9,980	850	3.44	15-115	235.9	248.5
	KNB102FDUMC	10.2	3,275	11,174	950	3.45	15-115	236.2	252.3
	KNB120FACMC	12.0	3,545	12,096	1,120	3.17	15-115	242.2	252.3
S	SNB110FGAMC	11.0	3,400	11,601	1,000	3.40	10-130	254.2	283.0
	SVB120FCWMC	12.0	3,785	12,914	1,255	3.02	10-140	245.7	279.5
	SNB130FGAMC	13.0	4,100	13,989	1,200	3.42	10-130	254.2	283.0
	SNB140FAPMC	14.0	4,510	15,388	1,440	3.13	10-140	250.7	279.5
	SNB140FCAMC	14.0	4,380	14,945	1,300	3.37	10-120	254.2	271.5
	SNB150FGAMC	15.0	4,620	15,763	1,420	3.25	10-130	259.2	283.0
	SNB172FNQMC	17.2	5,430	18,425	1,770	3.07	10-130	255.7	279.5
	SNB172FJFMC	17.2	5,400	18,425	1,580	3.42	10-130	259.2	283.0
	SNB200FGMMC	20.0	6,220	21,223	1,840	3.38	10-120	259.2	283.0
	SNB220FBGMC	22.0	6,840	23,338	2,060	3.32	10-120	287.5	283.0
	SYB280FBAMC-L	28.0	8,560	29,207	2,895	2.96	15-120	313.9	303.1
	SYB280FDJMC-L	28.0	8,625	29,429	2,720	3.17	15-120	313.9	303.1
	SYB280FARMC	28.0	8,900	30,367	2,650	3.36	15-120	332.4	306.6
T	TNB220FFEMC	22.0	6,940	23,679	2,150	3.23	10-110	267.1	317.5
	TNB306FZTMC	30.6	9,880	33,711	3,150	3.14	10-120	294.8	273.0
	TNB306FPGMC	30.6	9,880	33,711	3,010	3.28	10-120	294.8	273.0
	TNB306FPNMC	30.6	9,880	33,711	3,010	3.28	10-120	294.8	273.0
M	MNB33FEBMC	33.8	10,830	36,952	3,260	3.32	10-120	374.0	344.0
	MNB36FAAMC	36.7	11,900	40,603	3,580	3.32	10-120	374.0	344.0
	MNB36FABMC	36.7	11,900	40,603	3,640	3.27	10-120	374.0	344.0
	MNB40FMLMC	39.2	12,430	42,411	4,030	3.08	10-120	334.3	342.0
	MNB40FEQMC	40.0	12,900	44,015	3,960	3.26	10-120	374.0	356.0
	MNK42FDMMC-L	42.1	13,000	44,356	4,280	3.04	10-120	390.0	344.0
	MNB42FCKMC	42.1	13,780	47,017	4,040	3.41	10-120	390.0	344.0
	MNB42FCDMC-L	42.1	13,780	47,017	4,060	3.39	10-120	390.0	344.0
	MNB53FQLMC	53.0	16,000	54,592	5,494	2.91	10-120	421.3	419.4
L	LNB42FSCMC	42.9	13,980	47,700	4,240	3.30	10-120	376.8	353.4
	LNB53FDKMC	53.7	16,835	57,441	5,480	3.07	10-120	421.3	407.4
	LNB53FCAMC	53.7	16,860	57,526	5,200	3.24	10-120	421.3	395.8
	LNB53FJFMC	53.7	17,200	58,686	5,220	3.30	10-120	421.3	395.8
	LNB65FAGMC	65.2	19,760	67,421	6,460	3.06	10-120	421.3	423.8
	LNB65FAEMC	65.2	20,100	68,581	6,270	3.21	10-120	421.3	423.8
	LNB80FANMC	80.6	22,335	76,207	8,420	2.65	10-130	421.3	423.8
	LNB80FAMMC	80.6	23,155	79,005	8,185	2.83	10-130	421.3	423.8

注: ①以上L系列可用于并联系统 The above L series can be used in tandem unit.  
②\*表示开发中 Product in development.



# 变频压缩机R32, R290

## Inverter Compressor R32,R290

### R32

系列 Series	机型 Model	排量 Displ.	制冷量 Capacity		功率 Power	能效比 COP	运转频率范围 f Range	外观尺寸 Dimension(A)	外观尺寸 Dimension(B)
		cm <sup>3</sup> /rev	W	Btu/h	W	W/W	rps	mm	mm
K	KVB059FTMHC	5.9	1,850	6,290	605	3.06	10-115	232.8	234.5
	KVB065FUAHC	6.5	2,030	6,902	660	3.08	10-115	237.7	234.5
	KVB073FYXMC	7.3	2,355	8,007	745	3.16	25-115	255.6	234.5
	KVB092FEEMC	9.2	2,970	10,098	945	3.14	10-115	232.7	248.8
	KVB102FEUMC	10.2	3,300	11,220	1,050	3.14	10-115	232.7	248.8
	KVB120FERMC	12.0	3,580	12,208	1,285	2.79	10-115	238.7	248.8
S	SVB110FEFMC	11.0	3,530	12,002	1,090	3.24	10-130	250.7	279.5
	SVB130FJDMC	13.0	4,100	13,940	1,300	3.15	8-130	251.0	314.8
	SVB140FETMC	14.0	4,550	15,470	1,370	3.32	10-130	259.2	271.5
	SVB140FCCMC	14.0	4,510	15,334	1,410	3.20	10-130	259.2	277.4
	SVB150FCXMC	15.0	4,800	16,320	1,520	3.16	10-130	259.2	283.0
	SVB172FNPMC	17.2	5,450	18,530	1,735	3.14	10-130	259.2	283.0
	SVB172FNQMC	17.2	5,450	18,530	1,770	3.08	10-130	259.2	277.4
	SVB200FKMMC	20.0	6,250	21,250	2,120	2.95	10-120	263.4	287.2
	SVB200FTMMC	20.0	6,400	21,760	2,100	3.05	10-120	263.4	287.2
	SVB200FTFMC	20.0	6,460	21,964	2,060	3.14	10-120	263.4	287.2
	SVB200FWNMC	20.0	6,460	21,964	2,060	3.14	10-120	263.4	287.2
	SVB200FXPMC	20.0	6,460	21,964	1,995	3.24	10-120	273.9	277.2
	SVB220FAGMC	22.0	7,100	24,140	2,230	3.18	10-120	291.7	287.2
	T	TVB220FAEMC	22.0	7,310	24,854	2,340	3.12	10-110	264.8
TVB306FHTMC		30.6	10,130	34,442	3,360	3.01	10-120	294.8	273.0
TVB306FKTMC		30.6	10,130	34,442	3,360	3.01	10-120	294.8	273.0
M	MVB33FBPMC	33.8	11,370	38,658	3,570	3.18	10-120	350.3	344.0
	MVB36FHBMCM	36.7	12,440	42,296	3,710	3.35	10-120	350.3	330.0
	MVB36FMBMCM	36.9	12,360	42,024	3,670	3.37	10-117	350.3	330.0
	MVB40FJLMC-L	39.2	13,250	45,050	4,150	3.19	10-120	350.3	330.0
	MVB42FCPMC	42.1	14,380	48,892	4,400	3.27	10-102	366.3	344.0
L	LVB53FCAMC	53.7	17,630	59,942	5,593	3.15	10-120	421.3	395.8
	LVB65FAEMC	65.2	21,100	71,740	6,700	3.15	10-120	421.3	423.8

注:①以上L系列可用于并联系统 The above L series can be used in tandem unit.

②\*表示开发中 Product in development.

### R290

系列 Series	机型 Model	排量 Displ.	制冷量 Capacity		功率 Power	能效比 COP	运转频率范围 f Range	外观尺寸 Dimension(A)	外观尺寸 Dimension(B)
		cm <sup>3</sup> /rev	W	Btu/h	W	W/W	rps	mm	mm
K	KPB130*	13.0	开发中 In development						
S	SPB172*	17.2							
	SPB200*	20.0							
	SPB280*	28.0							

# 变频压缩机 R290,R134a, R454B

## Inverter Compressor R290,R134a, R454B

### R290

系列 Series	机型 Model	排量 Displ. cm <sup>3</sup> /rev	制冷量 Capacity		功率 Power W	能效比 COP W/W	运转频率范围 f Range rps	外观尺寸 Dimension(A) mm	外观尺寸 Dimension(B) mm
			W	Btu/h					
M	MPB36*	36.7	开发中 In development						
	MPB40*	40.0							
	MPB42*	42.1							
	MPB53*	53.0							
L	LPB53*	53.7							
	LPB65*	65.2							
	LPB80*	80.6							

注:①以上L系列可用于并联系统 The above L series can be used in tandem unit.  
②\*表示开发中 Product in development.

### R134a

系列 Series	机型 Model	排量 Displ. cm <sup>3</sup> /rev	制冷量 Capacity		功率 Power W	能效比 COP W/W	运转频率范围 f Range rps	外观尺寸 Dimension(A) mm	外观尺寸 Dimension(B) mm
			W	Btu/h					
K	KBB102FEKMC	10.2	1,505	5,117	415	3.63	30-60	228.4	248.5
S	SBB140FAAMC	14.0	1,990	6,766	590	3.37	15-60	269.2	269.1
	SBB172FABMC	17.2	2,600	8,840	710	3.66	15-115	260.7	279.5
	SBB220FDEMC	22.0	3,315	11,271	920	3.60	10-120	245.2	269.0
T	TBB306FFPGMC	30.6	4,630	15,742	1,340	3.46	10-120	294.8	273.0
M	MBB42FFDMC	42.1	6,400	21,760	1,830	3.50	10-120	366.3	344.0
L	LBB53FTAMC	53.7	8,210	27,914	2,260	3.63	10-120	421.3	395.8
	LBB65FAEMC	65.2	9,970	33,898	2,740	3.64	10-120	421.3	423.8
	LBB65FAJMC	65.2	9,970	33,898	2,740	3.64	10-120	421.3	423.8

注:①以上L系列可用于并联系统 The above L series can be used in tandem unit.  
②\*表示开发中 Product in development.

### R454B

系列 Series	机型 Model	排量 Displ. cm <sup>3</sup> /rev	制冷量 Capacity		功率 Power W	能效比 COP W/W	运转频率范围 f Range rps	外观尺寸 Dimension(A) mm	外观尺寸 Dimension(B) mm
			W	Btu/h					
K	KRB073*	7.3	开发中 In development						
S	SRB092*	9.2							
	SRB140*	14.0							
	SRB200*	20.0							
	SRB220*	22.0							
	SRB280*	28.0							
M	MRB36*	36.9							
	MRB42*	42.1							
	MRB53*	53.0							
L	LRB80*	80.6							

注:①以上L系列可用于并联系统 The above L series can be used in tandem unit.  
②\*表示开发中 Product in development.

# 定速压缩机 R410A

## Fixed-speed Compressor R410A

### R410A 220V-240V 50Hz

系列 Series	机型 Model	排量 Displ.	制冷量 Capacity		功率 Power	能效比 COP	电容 Capacitor	外观尺寸 Dimension(A)	外观尺寸 Dimension(B)
		cm <sup>3</sup> /rev	W	Btu/h	W	W/W	μF/V	mm	mm
K	KN083VAMMC	8.3	2,010	6,858	695	2.89	25/380	268.2	234.8
	KN092VEHMC	9.2	2,260	7,711	795	2.84	25/400	263.2	234.8
	KN104VGMMC	10.4	2,520	8,598	880	2.86	25/400	264.7	239.3
R	RN125VHFMC	12.5	3,100	10,577	1,030	3.01	30/400	264.9	240.8
	RN135VHEMC	13.5	3,340	11,396	1,120	2.98	30/400	287.5	260.5
	RN145VHEMC	14.5	3,610	12,317	1,210	2.98	30/400	287.5	260.5
	RN196VHEMC	19.6	4,800	16,378	1,680	2.86	40/400	287.5	260.5
	RN199VHRMC	19.9	4,770	16,275	1,620	2.94	45/400	294.8	278.0
	RN211VHFMC	21.1	5,230	17,845	1,730	3.02	50/400	294.8	260.5
	RN222VHFMC	22.2	5,470	18,664	1,810	3.02	50/400	294.8	260.5
T	TN220VQEMC	22.0	5,380	18,357	1,840	2.92	50/400	336.1	279.8
L	LN28VBRMC	28.4	7,050	24,055	2,310	3.05	60/390	381.8	340.9
	LN30VBRMC	30.2	7,680	26,204	2,470	3.11	60/420	381.8	340.9
	LN32VBRMC	32.8	8,320	28,388	2,680	3.10	60/420	381.8	340.9
	LN38VBRMC	38.0	9,700	32,980	3,160	3.07	60/420	381.8	340.9
	LN42VBRMC	42.8	10,530	35,907	3,510	3.00	60/420	381.8	340.9

### R410A 380V 3Φ 50Hz

系列 Series	机型 Model	排量 Displ.	制冷量 Capacity		功率 Power	能效比 COP	电容 Capacitor	外观尺寸 Dimension(A)	外观尺寸 Dimension(B)
		cm <sup>3</sup> /rev	W	Btu/h	W	W/W	μF/V	mm	mm
L	LN28YQAMC	28.4	7,050	24,055	2,310	3.05	60/350	376.8	403.9
	LN32YBRMC	32.8	8,215	27,931	2,664	3.08	RDR-S400	381.8	340.9
	LN38YBRMC	38.0	9,590	32,606	3,110	3.08	RDR-S	381.8	340.9
	LN42YBRMC	42.9	10,550	35,870	3,595	2.93	RDR-S	381.8	340.9
	LN48YRPMC	48.5	12,110	41,174	3,920	3.05	RDR-S	398.8	373.4
	LN51YRMMC	51.0	12,520	42,693	4,125	3.04	RDR-S	398.8	373.4

注：\*表示开发中 Product in development

### R410A 220V-240V 50Hz (T3工况)

系列 Series	机型 Model	排量 Displ.	制冷量 Capacity		功率 Power	能效比 COP	电容 Capacitor	外观尺寸 Dimension(A)	外观尺寸 Dimension(B)
		cm <sup>3</sup> /rev	W	Btu/h	W	W/W	μF/V	mm	mm
R	RNT186VHRMC	18.6	4,650	15,810	1,540	3.02	45/400	394.8	278.0
T	TNT240VQEMC	24.0	5,890	20,026	2,040	2.89	50/400	336.1	279.8

注：\*表示开发中机型 Product in development

# 定速压缩机 R410A, R32, R134a

## Fixed-speed Compressor R410A, R32, R134a

### R410A 208V-230V 60Hz

系列 Series	机型 Model	排量 Displ.	制冷量 Capacity		功率 Power	能效比 COP	电容 Capacitor	外观尺寸 Dimension(A)	外观尺寸 Dimension(B)
		cm <sup>3</sup> /rev	W	Btu/h	W	W/W	μF/V	mm	mm
K	KN065NAMMC	6.5	1,885	6,409	650	2.90	25/350	268.2	234.8
	KN073NGFMC	7.3	2,170	7,378	745	2.91	25/350	264.7	231.3
L	LN30NQAMC	30.0	9,350	31,790	3,030	3.09	55/360	381.8	340.9
	LN32NQAMC	32.8	10,150	34,632	3,310	3.07	45/390	381.8	340.9

### R410A 115-120V 60Hz

系列 Series	机型 Model	排量 Displ.	制冷量 Capacity		功率 Power	能效比 COP	电容 Capacitor	外观尺寸 Dimension(A)	外观尺寸 Dimension(B)
		cm <sup>3</sup> /rev	W	Btu/h	W	W/W	μF/V	mm	mm
K	KN083WAMMC	8.3	2,510	8,564	840	2.99	70/200	268.2	234.8
	KN092WHAHC	9.2	2,755	9,400	950	2.90	70/220	263.2	234.8
	KN104WHBHC	10.4	3,180	10,850	1,070	2.97	70/220	264.7	239.3
	KN111WHBHC	11.1	3,340	11,396	1,190	2.81	75/240	264.7	231.3
R	RN125WHHMC	12.5	3,810	13,000	1,310	2.91	100/220	264.9	240.8
	RN135WHHMC	13.5	4,010	13,682	1,430	2.80	100/220	287.5	260.5
	RN145WHHMC	14.5	4,410	15,047	1,560	2.83	100/220	287.5	260.5

### R32 220V-240V 50Hz

系列 Series	机型 Model	排量 Displ.	制冷量 Capacity		功率 Power	能效比 COP	电容 Capacitor	外观尺寸 Dimension(A)	外观尺寸 Dimension(B)
		cm <sup>3</sup> /rev	W	Btu/h	W	W/W	μF/V	mm	mm
K	KV083VAAMC	8.3	2,140	7,276	751	2.85	30/350	263.2	234.8
	KV092VAAMC	9.2	2,320	7,888	826	2.81	25/350	234.8	234.8
R	RV193VHRMC	19.3	4,740	16,116	1,670	2.84	50/360	310.9	278.0

### R134a 220V-240V 50Hz

系列 Series	机型 Model	排量 Displ.	制冷量 Capacity		功率 Power	能效比 COP	电容 Capacitor	外观尺寸 Dimension(A)	外观尺寸 Dimension(B)
		cm <sup>3</sup> /rev	W	Btu/h	W	W/W	μF/V	mm	mm
K	KB122VPDC	12.2	1,685	5,749	560	3.01	17/400	311.9	296.3
	KB134VFNC	13.4	1,535	5,234	520	2.95	17/400	260.9	270.1
R	RB174VHRC	17.4	2,040	6,960	630	3.24	30/350	286.2	278.0
	RB247VHRHC	24.7	2,980	10,132	900	3.31	38/380	293.5	265.5
L	LB53VBAMC	53.7	6,430	21,862	1,960	3.28	65/380	381.8	392.9

注：\*表示开发中机型 Product in development

## 定速压缩机 R134a, R1234yf, R513A

### Fixed-speed Compressor R134a, R1234yf, R513A

#### R134a 220V-240V 50Hz / 230V 60Hz

系列 Series	机型 Model	排量 Displ.	制冷量 Capacity		功率 Power	能效比 COP	电容 Capacitor	外观尺寸 Dimension(A)	外观尺寸 Dimension(B)
		cm <sup>3</sup> /rev	W	Btu/h	W	W/W	μF/V	mm	mm
R	RB154GHAC	15.4	1,850/2,200	6,312/7,506	660/800	2.80/2.75	25/400	241.3	240.8
	RB174GHAC	17.4	2,040/2,420	6,960/8,257	700/850	2.91/2.85	25/400	241.3	240.8
	RB233GRDC	23.3	2,780/3,380	9,485/11,532	850/1,070	3.27/3.16	30/400	286.2	258.0
	RB247GHAC	24.7	2,880/3,520	9,827/12,010	1,030/1,300	2.80/2.71	35/420	276.2	260.5
T	TB33GDEMC	33.8	3,965/4,895	13,528/16,702	1,285/1,635	3.09/2.99	50/400	334.8	320.3
	TB36GDEC	36.5	4,330/5,290	14,765/18,038	1,490/1,750	2.90/3.02	50/400	334.8	320.3
L	LB53GBAMC	53.7	6,400/7,700	22,178/26,272	2,250/2,610	2.84/2.95	60/430	381.8	392.9

#### R134a 115V 60Hz

系列 Series	机型 Model	排量 Displ.	制冷量 Capacity		功率 Power	能效比 COP	电容 Capacitor	外观尺寸 Dimension(A)	外观尺寸 Dimension(B)
		cm <sup>3</sup> /rev	W	Btu/h	W	W/W	μF/V	mm	mm
K	KB122WPDC	12.2	1,685	5,749	580	2.91	55/220	311.9	296.3

#### R134a 380V/460V 50Hz 3Φ

系列 Series	机型 Model	排量 Displ.	制冷量 Capacity		功率 Power	能效比 COP	电容 Capacitor	外观尺寸 Dimension(A)	外观尺寸 Dimension(B)
		cm <sup>3</sup> /rev	W	Btu/h	W	W/W	μF/V	mm	mm
K	KB122YFPC	12.2	1,370/1,670	4,674/5,698	450/555	3.04/3.01	-	289.4	272.0
R	RB174YDKC	17.4	2,060/2,470	7,028/8,428	660/805	3.12/3.07	-	241.3	240.8
	RB233YABC	23.3	2,710/3,300	9,246/11,260	900/1,120	3.01/2.95	-	286.2	258.0
T	TB33YLLMC	33.8	4,000/4,900	13,648/16,718	1,200/1,500	3.33/3.27	-	334.8	320.3

#### R1234yf/R513A 220-240V/ 380-400V 50Hz

系列 Series	机型 Model	排量 Displ.	制冷量 Capacity		功率 Power	能效比 COP	电容 Capacitor	外观尺寸 Dimension(A)	外观尺寸 Dimension(B)
		cm <sup>3</sup> /rev	W	Btu/h	W	W/W	μF/V	mm	mm
K	KJ065*	6.5	720	2,455	250	2.88	-	268.2	234.8
	KJ092*	9.2	1,020	3,480	355	2.87	-	263.2	234.8
	KJ122VFPC	12.2	1,420	4,840	500	2.84	-	264.4	272.0
	KJ134*	13.4	1,560	5,320	550	2.84	-	287.5	152.0
R	RJ174GHAC	17.4	2,080	7,070	700	2.97	-	241.3	240.8
	RJ233GAAC	23.3	2,790	9,490	900	3.10	-	286.2	258.0
	RJ233YABC	23.3	2,785	9,469	930	2.99	-	286.2	258.0
	RJ247Y*	24.7	2,870	9,790	910	3.15	-	286.2	258.0

注：\*表示开发中机型 Product in development

## 测试条件 Test Condition

	冷凝温度 (°C) Condensing Temp.	蒸发温度 (°C) Evaporating Temp.	S.C/S.H	环境温度 (°C) Ambient Temp.	吸气温度 (°C) Suction Temp.	液体温度 (°C) Liquid Temp.
ASRE-T 测试条件 ASRE-T condition	54.4	7.2	8.3/27.8	35	35	46.1
N2-CCAC 测试条件 N2-CCAC condition	45.6	10.6	9.6/7.1	35	17.7	36
ARI 测试条件 ARI condition	54.4	7.2	8.3/11.1	35	18.3	46.1

备注: 以上压力均为表压 The above pressure is gauge pressure.

## 附属件 Accessory



凸缘螺母  
Flange nut



端子盖  
Terminal cover



衬垫  
Packing



橡胶垫  
Rubber washer



支架  
Holder



橡胶座  
Rubber mount



# 热泵热水器 & 泳池用

## Heat Pump Heater and Pool



### 产品特点 Product features

#### 01 出水温度高

采用R410A冷媒变频驱动技术,快速制热,出水温度可达到65°C,极寒天气下出水温度仍可保证55°C。

#### High outlet water temperature

With using R410A refrigerant inverter drive technology, it can rapidly heat. The water temperature can reach 65°C. Even in very cold weather, it can still ensure 55°C.

#### 02 高可靠、高信赖性

全年运行在高冷凝温度条件下,总设计寿命长达20年,夏季高负荷、冬季大压比运行,可靠性高。

#### High reliability

It operates at high condensation temperature all year round, with a total design life of up to 20 years, high load in summer and high pressure ratio in winter, with high reliability.

#### 03 高效能

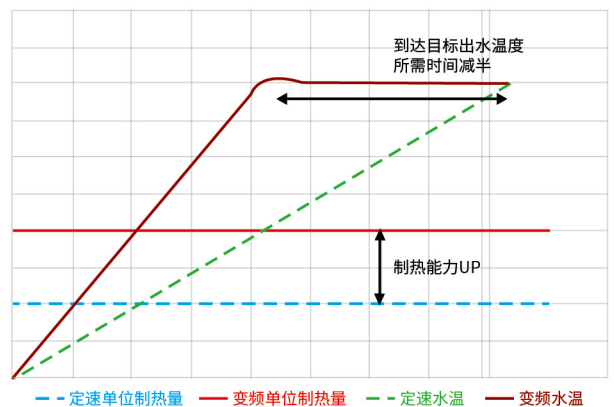
全年稳定运行制热效率,特别是冬季制热性能优势明显。

#### High efficiency

Heating performance is stable in the whole year, especially in winter heating performance is efficient.

### 变频与定速应用对比 Inverter VS Fixed-speed

对比条件:在同等排量下



### 变频优势 Inverter superiority

- 制热温度更高,更高效
- 制热所需时间 ↓ 50%, 更省电、更节能
- Higher heat temperature and more efficient
- Heat required time ↓ 50%, more power saving and energy saving

## LINE-UP

类型	产品系列	HP	1	2	3	4	5	6	8	10	12	14	16	18	...	24	
Type	Series	kW	2.5	5.0	7.2	11	14	16	22	28	34	39	45	50	...	65	
定速 Fixed-speed	S/T/M/L		Rotary														
变频 Inverter	K/S/T/M/L/E/H		Rotary														Scroll

备:图示为非并联方式。并联方式下的能力倍增。If using the tandem technology, the capacity can be enlarged



# 商用大型水机 & 采暖用 Chiller and Heat Pump for Commercial



## 产品特点 Product features

### 01 变频产品容量范围广

应用于5HP-16HP商用水机及采暖产品。

Used in commercial chiller and commercial heat pump from 5HP to 16HP.

### 02 出水温度高

压缩比可达16;采用双通过给喷气增焓技术,在-37°C蒸发温度下,可提升25%的制热能力。

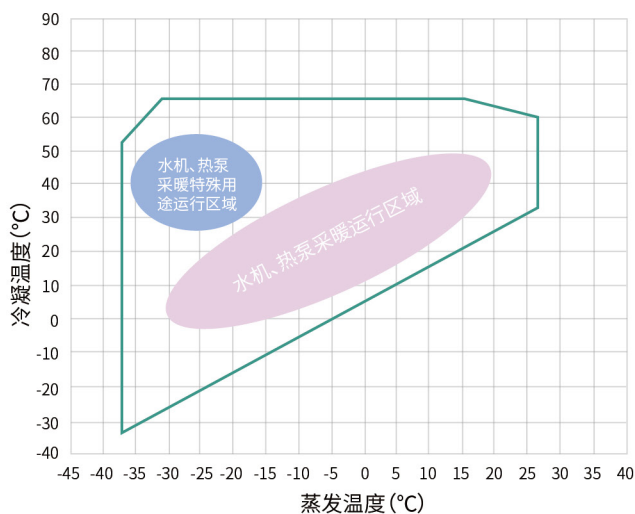
#### High outlet temperature

The compressor ratio can be up to 16. With dual-channel super-charge injection technology, at the evaporation temperature of -37°C, the heating capacity can be increased by 25%.

### 03 高效率、高信赖性

High efficiency and reliability

## 运行范围图 Operating range



备:图示为非并联方式。并联方式下的能力倍增。If using the tandem technology, the capacity can be enlarged

# CCAC & 基站应用

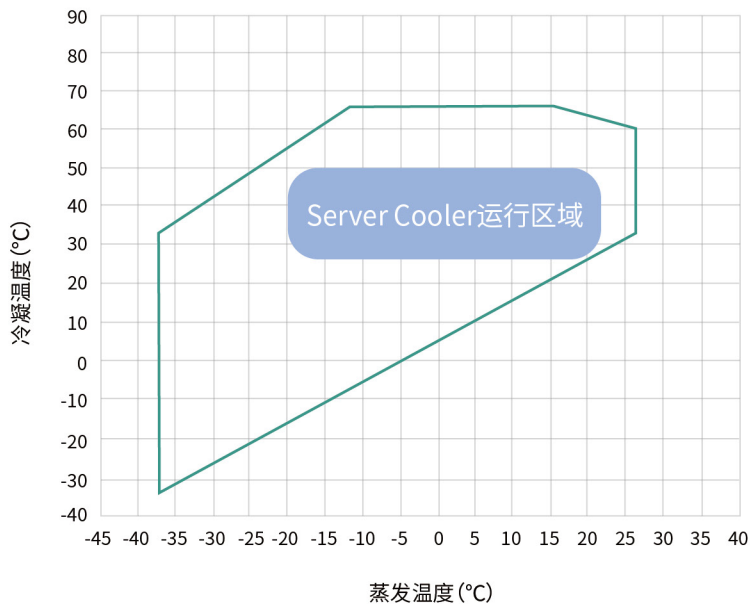
## CCAC and Base Station Application



### 产品特点 Product features

- 01 高效率、高可靠性、运行稳定**  
High efficiency, high reliability, stable operation
- 02 过压缩损耗低、高效节能**  
设计使用寿命长达20年  
**Low over-compression, energy saving**  
With a total design life of up to 20 years
- 03 低振动、低噪音**  
Low vibration and noise

### 运行范围 Operating range



### LINE-UP

HP	1	2	3	4	5	6	7	8	9	10	12	14	...	24
kW	2.5	5.0	7.2	11.2	14	16	18	22.4	25	28	33.6	39.2	...	65

#### 机房空调用 CCAC

S系列	[Green bar from HP 1 to 4]													
T系列	[Teal bar from HP 3 to 6]													
M系列	[Blue bar from HP 5 to 9]													
L系列	[Purple bar from HP 10 to 14]													
Scroll系列	[Yellow bar from HP 8 to 24]													

#### 基站用 Base station

S系列	[Green bar from HP 1 to 4]													
T系列	[Teal bar from HP 3 to 6]													
M系列	[Blue bar from HP 5 to 9]													

#### 48V产品

匹数/机型	kW	1.5	2.5	3	4	5
SBB140FAAMC			●			

● 量产中 In production

# 冷冻冷藏应用 Refrigeration



## 产品特点 Product features

### 01 变频产品丰富, 运行范围广

变频旋转式产品可应用于1.5HP到10HP陈列柜、冷库。  
变频涡旋式产品可应用于4-10HP陈列柜、冷库及其并联产品。

#### Wide inverter product and lager stroke volume

Inverter rotary products can be used from 1.5HP to 10HP in showcase and cold room.  
Inverter scroll products can be used from 4HP to 10HP showcase and cold room and parallel unit.

### 02 有带喷气增焓机型

旋转式及涡旋式都有带喷气增焓机型, 采用三菱电机独有的增焓技术, 在低温环境下, 能将最大能力提高25%, 适用于中低温型冷冻冷藏产品。

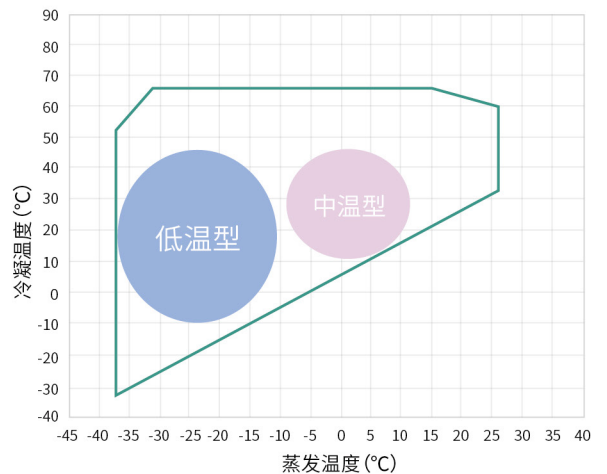
#### Injection model

With dual-channel super-charge injection technology, our injection rotary and scroll can operate the heating capacity to be increased by 25%, and be applied in medium and low temperature refrigeration products.

### 03 高可靠性、节能高效

High reliability and energy-saving

## 运行范围 Operating range



## LINE-UP

HP	1	2	3	4	5	6	7	8	9	10	12	14	...	24
kW	2.5	5.0	7.2	11.2	14	16	18	22.4	25	28	33.6	39.2	...	65

### 中温型

S系列	[Bar chart showing operating range for S series]													
T系列	[Bar chart showing operating range for T series]													
M系列	[Bar chart showing operating range for M series]													
L系列	[Bar chart showing operating range for L series]													
Scroll系列	[Bar chart showing operating range for Scroll series]													

### 低温型

M系列	[Bar chart showing operating range for M series]													
Scroll系列	[Bar chart showing operating range for Scroll series]													



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