

2026

ROTARY COMPRESSOR for

Heat-pump and other application

热泵及其他应用 迴转式压缩机 | 产品型录



创新驱动 智造未来

Innovation drives · Intelligence creates

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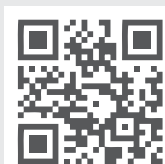
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PROFESSIONAL ROTARY COMPRESSOR MANUFACTURER



PRODUCT CATALOG

ABOUT US 关于我們

瑞智精密成立于1989年，为全球第四大回转式压缩机领导品牌，始创之际即以 " 技术独立自主、创建一流品牌、打造科技人生 " 做为公司创业的初衷与理想，全体员工均秉持着 " 以优异的品质，迈向市场竞争；以卓越的技术，永远领先业界；以完善的服务，赢得客户满意 " 的经营理念，积极地发展公司的核心技术；以 " 成为全球顶尖之压缩机关连产业链的知名供应商 " 做为企业经营方针；以 " 创造节能产业的无限可能，成为前瞻节能产品的顶尖提供者 " 定位公司愿景！

36年来我们坚持以「品质至上」的理念，提供「顾客满意」的产品和服务，如今瑞智集团已设立有台湾桃园、广东东莞、广东惠州、山东青岛、江西九江、印度、埃及等7座生产基地，拥有压缩机年产能达3,000万台、直流无刷马达年产能达750万台及AC马达1,200万，现有回转式压缩机产品已扩及直流变频空调、北美单元式空调、分离式空调、移动式空调、窗型空调、除湿机、热泵干衣机、热泵热水器、热泵洗衣机、微型变频冷气、宠物空调等领域的应用。

未来瑞智集团将持续發展全球化布局，深耕各地市场，提升整体竞争力与服务能量。

瑞智集团以 " 追求企业价值极大化、善尽爱护地球的企业责任 " 为公司使命，同时兼顾着地球的环境与资源，与国际知名企业建立良好战略合作伙伴关系，一起创建环保的未来世界！

RECHI was established in 1989 and became the world's fourth largest rotary compressor leader brand. RECHI PRECISION had established the company with the purpose and idea of "Technology Independent; Create Top-Class brand; Build-up the life of technology" ever since then; our employee all keep the philosophy of "Lead to the market competition with excellent quality; Always being the pioneer over the industry with top technology; Winning the customer satisfaction with perfect service" to develop and expand the core-technology of the company. Our business principle aims at Becoming the famous supplier of the global compressor supply chain", and company vision at "Create unlimited possibilities for the Energy Saving Industry, and becoming the top provider of proactive Energy Saving Product."

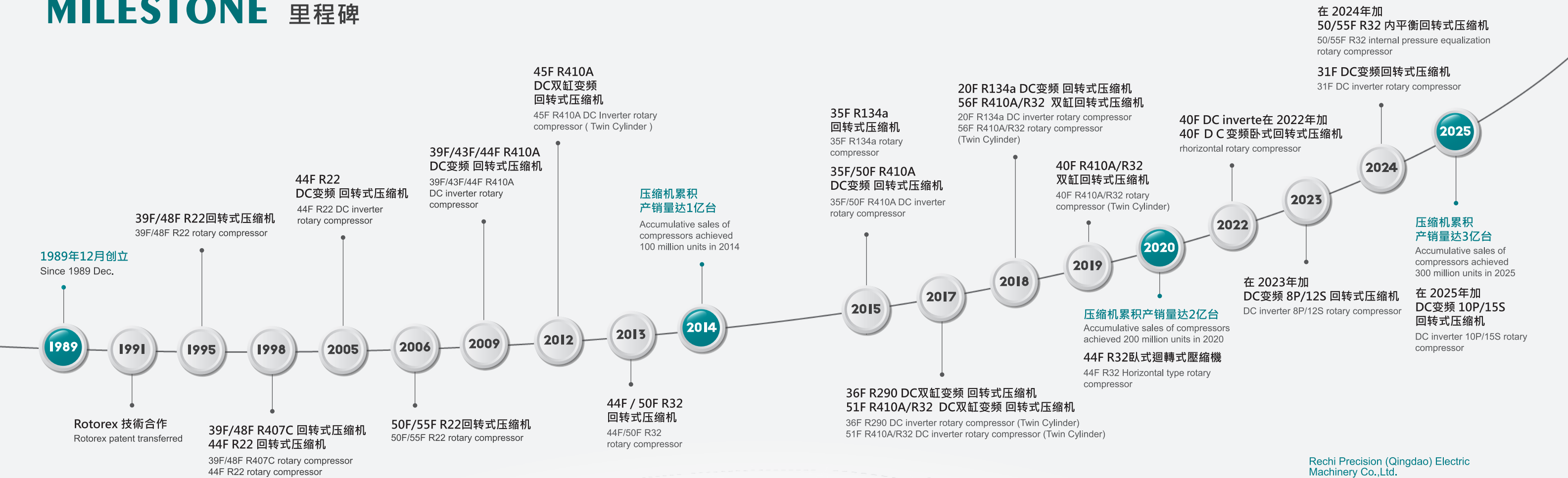
We believe that "Quality Superiority" and "Customer Satisfaction" with our products and services are the key to success over the past 36 years of RECHI, RECHI Group now has seven production sites in Taoyuan Taiwan, Dongguan Guangdong, Huizhou Guangdong, Qingdao Shandong, Jiujiang Jiangxi, India and Egypt with annual compressor capacity of 30 million sets, brushless DC motor capacity of 7.5 million sets, AC motor of 12 million sets. Presently our rotary compressor has expanded the applications in fields such as DC inverter A/C, Unitary A/C, Portable A/C, Window type A/C, Dehumidifier, Heat Pump Dryer, Heat Pump Water Heater, Heat Pump Washing Machine, and Mini-DC inverter A/C, Pet A/C.

In the future, Rechi Group will continue to expand its global presence, deepen its engagement in markets worldwide, and further enhance its overall competitiveness and service capabilities. RECHI PRECISION has kept "To pursuit the maximization of enterprise value" & "To fulfill the responsibility of caring the Earth" as corporate mission to watch over both the environment and resource, also establishes good relationship of strategic partners with global well-known enterprises to create the green future together.

迈向ESG 瑞智永续经营之钥



MILESTONE 里程碑



热泵及其他应用

Heat-pump and other application

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◆ 压缩机编码原则 1 Compressor Code Identification 1

机体系列 Frame Series				电源 Power Source			冷媒量 + 马达组合 Refrigerant Quantity + Motor Combination			
代码 Code	马达外径 Motor O.D	汽缸数目与型式 Cylinder No.and Type		代码 Code	电压 Voltage	频率 Hz	代码 Code	冷媒量 Refrigerant Quantity	马达型式 Motor Type	
		数目 No.	型式 Type						定速 Single Speed	变频 DC Inverter
20	Ø 50.8	1	-	1	115	60	A-F	一般 General	外置式 OLP External OLP	不同型式 之卷绕及极 / 槽数 Different Types of Winding & Poles / Slots
21		2	-	2	208-230	60				
35		1	-	3	220-240	50				
36	Ø 91.5	2	-	4	200-240 宽电压 Wide Voltage	50	G-M, 1-3	一般 General	内置式 OLP Internal OLP	
39		1	-	5	100/100-110	50/60				
40		2	-	6	115-127	60				
43	Ø 101	1	较小 Smaller	7	265	60	I,N-Q	一般 General	内置式 OLP+ 铝线 Internal OLP+Al	
44		1	标准 Standard	8	200/200-220	50/60				
45		2	-	9	230	50				
50	Ø 112	1	-	G-T	DC 集中卷 + 稀土磁石 DC Concentrated Winding + Rare-Earth Magnet	Inverter	R-T	多 More	内置式 OLP Internal OLP	
55	Ø 125	1	-							
3H	Ø 139	1	-				U-Z, 4-9	多 More	内置式 OLP Internal OLP	
3L	Ø 91.5	1	卧式 Horizontal							
4M	Ø 101	2	卧式 Horizontal							

例.
Ex.

39

A

12

1

A

A

&

1

4

K

A

冷房能力 Cooling Capacity

Number *100 Kcal/hr
@ASHRAE/T

储液瓶
Accumulator

泵型式
Pump Type

角架
Base Plate

顶盖
Top Cap

机油种类
Oil Type

机油量
Oil Volume

冷媒与工作工况 Refrigerant and Working Condition			
代码 Code	冷媒 Refrigerant	工作工况 Working Condition	典型应用 Typical Application
A	R410A	ASHRAE/T	一般 (中冷凝温度) 空调机 / RV 房车空调 / 驻车用空调机 / 工业制冷应用 General (Medium Condensing Temp.) Air-Conditioner / RV Air-Conditioner / Truck Parking Air-Conditioner /Industrial Refrigeration Application
B		NGB	高效 (低冷凝温度) 空调机 / 除湿机 High-EER (Low Condensing Temp.) Air-Conditioner / Dehumidifier
M		ASHRAE/T + T3	热带 T3 (高冷凝温度) 空调机 Tropical T3 (High Condensing Temp.) Air-Conditioner
E	R134a	ASHRAE/T	一般 (中冷凝温度) 除湿机 / 热泵干衣机 / 驻车用空调机 General (Medium Condensing Temp.) Dehumidifier / Heat-Pump Washer-Dryer / Truck Parking Air-Conditioner
F		HPD ; ASHRAE/T	热泵干衣机 / 洗干衣机 ; 机柜空调 Heat-Pump Dryer / Washer-Dryer ; Cabinet Air Conditioner
G		HPWH	热泵热水器 Heat-Pump Water-Heater
H		NGB	高效 (低冷凝温度) 除湿机 High-EER (Low Condensing Temp.) Dehumidifier
J	R454B	ASHRAE/T	一般 (中冷凝温度) 空调机 General (Medium Condensing Temp.) Air-Conditioner
K		NGB	高效 (低冷凝温度) 空调机 High-EER (Low Condensing Temp.) Air-Conditioner
L		CHEER ; NDOE	北美单元式 (更低冷凝温度) 空调机 US Unitary (Lower Condensing Temp.) Air-Conditioner
P	R290	ASHRAE/T	一般 (中冷凝温度) 空调机 / 除湿机 / RV 房车空调 General (Medium Condensing Temp.) Air-Conditioner / Dehumidifier / RV Air-Conditioner
Q		HPD	热泵干衣机 / 洗干衣机 Heat-Pump Dryer / Washer-Dryer
U		HPWH	热泵热水器 Heat-Pump Water-Heater
W	R32	ASHRAE/T	一般 (中冷凝温度) 空调机 / 除湿机 / RV房车空调 General (Medium Condensing Temp.) Air-Conditioner / Dehumidifier / RV Air-Conditioner
X		NGB	高效 (低冷凝温度) 空调机 / 除湿机 High-EER (Low Condensing Temp.) Air-Conditioner / Dehumidifier
Y		CHEER ; NDOE	北美单元式 (更低冷凝温度) 空调机 ; 北美 DOE 除湿机 US Unitary (Lower Condensing Temp.) Air-Conditioner ; US DOE Dehumidifier

◆ 压缩机编码原则 2 Compressor Code Identification 2

冷媒 Refrigerant		结构 Structure		电源 Power Source	
W	R-32	S	立式单缸 Vertical single-cylinder	1	1Ø - 115V/60Hz
Q	R-290	T	立式双缸 Vertical twin-cylinder	2	1Ø - 208-230V/60Hz
B	R-454B	H	卧式单缸 Horizontal single-cylinder	3	1Ø - 220-240V/50Hz
G	R-454C	J	卧式双缸 Horizontal twin-cylinder	4	1Ø-200-240V/50Hz
A	R-410A	L	侧边出线 Side outlet	5	1Ø-100V/50Hz;100-110V/60Hz
E	R-134a	X	立式单缸 补气增焓 Vertical single-cylinder Enhanced Vapor Iniection (EVI)	6	1Ø - 115-127V/60Hz
J	R-513A	Y	立式双缸 补气增焓 Vertical twin-cylinder Enhanced Vapor Iniection (EVI)	7	1Ø - 265V/60Hz
D	R-1270	U	卧式单缸 补气增焓 Horizontal single-cylinder Enhanced Vapor Iniection (EVI)	8	1Ø-200V/50Hz;200-220V/60Hz
C	R-407C	V	卧式双缸 补气增焓 Horizontal twin-cylinder Enhanced Vapor Iniection (EVI)	9	1Ø - 230V/50Hz
				J	3Ø - DC inverter
				K	DC 12V
				L	DC 24V
				M	DC 48V

例.
Ex.

W

P

098

S

J

70

-

B

01

排气量 Displacement

(cm3 /rev)/10
098 : 9.8cc

马达 Motor

外观 Appearance

系列 Series			应用 Typical Application	
代码 Code	Frame	定子外径 Stator OD		
H	20	Ø 50.8	A	空调:除湿机;驻车空调(中冷凝温度) Air-conditioner : Dehumidifier;Parking air-conditioner (Medium cond. temp.)
S	31	Ø 80	B	高效空调;高效除湿机(低冷凝温度) High-efficiency air-conditioner;High efficiency dehumidifier (Low cond. temp.)
M	35	Ø 91.5	C	单元式空调(更低冷凝温度) US Unitary air-conditioner (Lower cond. temp.)
P	39	Ø 101	T	热带型空调 (高冷凝温度) Tropical air-conditioner (High cond. temp.)
Z	44	Ø 112	D	热泵干衣机 Heat-pump dryer
B	50	Ø 125	W	热泵热水器 Heat-pump water-heater
R	55	Ø 139	F	冷冻冷藏 Freezing and refrigeration
			N	北美DOE除湿机 US DOE dehumidifier
			G	机柜空调 Cabinet air-conditioner

◆ 压缩机能力分布图 Compressor Cooling Capacity Range

直流变频压缩机 DC Inverter Compressor		Testing Condition: ASHRAE/T							
热泵干衣机 Heat-Pump Dryer / 洗干衣机 Washer-Dryer									
冷媒 Ref.	电源 Power supply	Btu/h 3000 5000 7000 9000 11000 13000 15000 17000 19000 21000 23000 25000 27000 30000 W 880 2050 3220 4390 5565 6735 7905 10250							
R290	DC Inverter	(3055-7260 Btu/h)							
R134a	DC Inverter	(2780-7775 Btu/h)							

微型压缩机应用 Mini Compressor Application		Testing Condition: ASHRAE/T							
冷媒 Ref.	电源 Power supply	Btu/h 3000 5000 7000 9000 11000 13000 15000 17000 19000 21000 23000 25000 27000 30000 W 880 2050 3220 4390 5565 6735 7905 10250							
R134a	DC 12V/24V/48V	(615-1490 Btu/h)							
R290	DC 24V	(1825 Btu/h)							

驻车用空调机应用 Truck Parking Air-Conditioner Application		Testing Condition: ASHRAE/T							
冷媒 Ref.	电源 Power supply	Btu/h 3000 5000 7000 9000 11000 13000 15000 17000 19000 21000 23000 25000 27000 30000 W 880 2050 3220 4390 5565 6735 7905 10250							
R410a	DC 24V	(9880 Btu/h)							
R134a	DC 24V/48V	(6745-6945 Btu/h)							

定速压缩机 Single Speed Compressor		Testing Condition: ASHRAE/T							
热泵干衣机 Heat-Pump Dryer / 洗干衣机 Washer-Dryer									
冷媒 Ref.	电源 Power supply	Btu/h 3000 5000 7000 9000 11000 13000 15000 17000 19000 21000 23000 25000 27000 30000 W 880 2050 3220 4390 5565 6735 7905 10250							
R290	208-230V / 60Hz	(2895-6070 Btu/h)							
	220-240V / 50Hz	(2740-11190 Btu/h)							
R134a	100/100-110V 50/60Hz	(3275-5815 Btu/h)							
	208-230V / 60Hz	(4030-8055 Btu/h)							
	220-240V / 50Hz	(2340-6210 Btu/h)							

热泵热水器 Heat-Pump Water-Heater		Testing Condition: ASHRAE/T							
冷媒 Ref.	电源 Power supply	Btu/h 3000 5000 7000 9000 11000 13000 15000 17000 19000 21000 23000 25000 27000 30000 W 880 2050 3220 4390 5565 6735 7905 10250							
R290	220-240V / 50Hz	(1705-4525 Btu/h)							
R134a	208-230V / 60Hz	(4030-8055 Btu/h)							
	220-240V / 50Hz	(4840-9485 Btu/h)							
R513A	208-230V / 60Hz	(2260-4150 Btu/h)							

RV房车空调 RV Air-Conditioner		Testing Condition: ASHRAE/T							
冷媒 Ref.	电源 Power supply	Btu/h 3000 5000 7000 9000 11000 13000 15000 17000 19000 21000 23000 25000 27000 30000 W 880 2050 3220 4390 5565 6735 7905 10250							
R32	115V / 60Hz	(7025-13510 Btu/h)							
	220-240V / 50Hz	(9585-11390 Btu/h)							
R290	220-240V / 50Hz	(4800 Btu/h)							

机柜空调 Cabinet Air Conditioner		Testing Condition: ASHRAE/T							
冷媒 Ref.	电源 Power supply	Btu/h 3000 5000 7000 9000 11000 13000 15000 17000 19000 21000 23000 25000 27000 30000 W 880 2050 3220 4390 5565 6735 7905 10250							
R134a	220-240/230V 50/60Hz	(1885-13315 Btu/h)							

直流变频

热泵干衣机 / 洗干衣机应用

DC Inverter Heat-Pump Dryer / Washer-Dryer Application

低GWP高效环保冷媒 / 针对热泵干衣机 / 洗干衣机应用工况设计 / 高效率泵体设计 / 低噪音振动
高可靠度 / 小型化设计 / 可对应全球电源范围 / 符合全球各区域安规认证需求
热泵干衣机专用压缩机之先驱、领先业界之市场占有率

Low GWP high efficiency environmentally friendly refrigerant / Specific designed for heat pump dryer/washer dryer application / High efficiency pump design / Low noise and vibration / Great reliability / Miniaturized design / Compatible with global power supply range / Meet the requirements of safety certification in the world / Pioneer of dedicated compressors for heat pump dryers and leading the market share

R290 单缸直流变频 DC Inverter Single Cylinder

Q 热泵干衣机 / 洗干衣机
Heat-Pump Dryer / Washer-Dryer

Testing Condition: ASHRAE/T
HPD

Series	Model	Disp.	Cooling Capacity		Input Power (Inverter Included)	Input Power (Inverter Excluded)	COP (Inverter Included)	COP (Inverter Excluded)	Outline Drawing	Safety Approval					
		c.c.	Btu/h	W	W	W	W/W	W/W		C-UL	VPC	TUV	CCC	VDE	Others
31	QS050SJ70-D01(*)	5.0	4445	1300	375	350	3.47	3.71	31-02						
	QS068SJ70-D01(*)	6.8	6040	1770	500	475	3.54	3.73	31-03						
	QS075SJ70-D01(*)	7.50	6665	1955	550	525	3.55	3.72	31-03						
35	35Q0HLG	4.75	3055	895	290	275	3.09	3.25	35-B						
			4405	1290	375	355	3.44	3.63							
39	39Q1ALK	6.5	4245	1245	395	365	3.15	3.41	39-52			◎			
	39Q1AQH	6.5	4125	1210	375	355	3.23	3.41	39-52			◎			
			5875	1720	495	470	3.47	3.66							
	39Q11QH	7.25	4760	1395	415	395	3.36	3.53	39-26			◎			CB
			6825	2000	540	515	3.70	3.88							
	39Q12MX	8.1	5020	1470	460	425	3.20	3.46	39-26			◎			
			7260	2125	595	550	3.57	3.86							

(*) 开发中 under developing

R290 单缸直流变频 DC Inverter Single Cylinder

Q 热泵干衣机 / 洗干衣机 / 卧式
Heat-Pump Dryer / Washer-Dryer / Horizontal Type

Testing Condition: HPD

Series	Model	Disp.	Cooling Capacity		Input Power (Inverter Included)	Input Power (Inverter Excluded)	COP (Inverter Included)	COP (Inverter Excluded)	Outline Drawing	Safety Approval					
		c.c.	Btu/h	W	W	W	W/W	W/W		C-UL	VPC	TUV	CCC	VDE	Others
35	3HQ1AMK	6.5	6030	1765	515	475	3.43	3.72	3H-46						
	QM075JJ70	7.5	6540	1915	585	545	3.27	3.51	3H-47						

R290 双缸直流变频 DC Inverter Twin Cylinder

Q 热泵干衣机 / 洗干衣机
Heat-Pump Dryer / Washer-Dryer

Testing Condition: ASHRAE/T
HPD

Series	Model	Disp.	Cooling Capacity		Input Power (Inverter Included)	Input Power (Inverter Excluded)	COP (Inverter Included)	COP (Inverter Excluded)	Outline Drawing	Safety Approval					
		c.c.	Btu/h	W	W	W	W/W	W/W		C-UL	VPC	TUV	CCC	VDE	Others
32	QS075TJ70(*)	7.5	4711	1380	435	405	3.17	3.41	32-01						
			6538	1915	575	540	3.33	3.55							
36	36Q1BM2	7.5	4760	1395	460	425	3.03	3.28	36-S1				◎	◎	
			6785	1985	590	545	3.36	3.64							

(*) 开发中 under developing

R290 双缸直流变频 DC Inverter Twin Cylinder

Q 热泵干衣机 / 洗干衣机 / 卧式
Heat-Pump Dryer / Washer-Dryer / Horizontal Type

Testing Condition: ASHRAE/T
HPD

Series	Model	Disp.	Cooling Capacity		Input Power (Inverter Included)	Input Power (Inverter Excluded)	COP (Inverter Included)	COP (Inverter Excluded)	Outline Drawing	Safety Approval					
		c.c.	Btu/h	W	W	W	W/W	W/W		C-UL	VPC	TUV	CCC	VDE	Others
35	3LQ1AQ2	6.5	4085	1195	410	380	2.91	3.14	3L-42						
			5815	1700	520	480	3.27	3.54							

R134a 单缸直流变频 DC Inverter Single Cylinder

F

热泵干衣机 / 洗干衣机
Heat-Pump Dryer / Washer-Dryer

Testing Condition:

ASHRAE/T
HPD

Series	Model	Disp.	Cooling Capacity		Input Power (Inverter Included)	Input Power (Inverter Excluded)	COP (Inverter Included)	COP (Inverter Excluded)	Outline Drawing	Safety Approval						Testing Condition
		c.c.	Btu/h	W	W	W	W/W	W/W		C-UL	VPC	TUV	CCC	VDE	Others	
35	EM081SJ70-D01	8.10	6215	1820	567	506	3.21	3.60	35-79							HPD
39	39F0GLK	5.75	2780	815	260	240	3.13	3.40	39-28			◎			CB	
			4365	1280	365	340	3.51	3.76								
	39F1AML	9.0	4485	1315	395	365	3.33	3.60	39-Z			◎			CB	
			6945	2035	565	525	3.60	3.88								
	39F12MM	10.4	5040	1475	450	415	3.28	3.55	39-02							
			7775	2280	640	590	3.56	3.86								



定频热泵干衣机 / 洗干衣机应用

Single Speed Heat-Pump Dryer / Washer-Dryer Application

低GWP高效环保冷媒 / 针对热泵干衣机 / 洗干衣机应用工况设计 / 高效率泵体设计 / 低噪音振动
高可靠度 / 小型化设计 / 可对应全球电源范围 / 符合全球各区域安规认证需求
热泵干衣机专用压缩机之先驱、领先业界之市场占有率

Low GWP high efficiency environmentally friendly refrigerant / Specific designed for heat pump dryer/washer dryer application / High efficiency pump design / Low noise and vibration / Great reliability / Miniaturized design / Compatible with global power supply range / Meet the requirements of safety certification in the world / Pioneer of dedicated compressors for heat pump dryers and leading the market share

R290 1φ 208-230V / 60Hz

热泵干衣机 / 洗干衣机
Heat-Pump Dryer / Washer-Dryer

Testing Condition: ASHRAE/T
HPD

Series	Model	Disp.	Capacitor		Cooling Capacity		Input Power	EER	COP	Outline Drawing	Safety Approval						Testing Condition
		c.c.	μ F	VAC	Btu/h	W	W	Btu/h.W	W/W		C-UL	VPC	TUV	CCC	VDE	Others	
35	35Q0G2J	4.75	8	370	2895 4105	850 1205	295 375	9.81 10.95	2.88 3.21	35-24			◎			CB	
	QP053S201	5.5	15	400	4565	1335	415	11.00	3.22	39-83	◎		◎				ASHRAE/T
39	39Q092G	5.75	15	370	3590 5040	1050 1475	340 425	10.56 11.86	3.09 3.47	39-06					◎		
	39Q1A2H	7.0	20	370	4285 6070	1255 1780	430 530	9.97 11.45	2.92 3.36	39-09	◎						

R290 1φ 220-240V / 50Hz

热泵干衣机 / 洗干衣机
Heat-Pump Dryer / Washer-Dryer

Testing Condition: ASHRAE/T
HPD

Series	Model	Disp.	Capacitor		Cooling Capacity		Input Power	EER	COP	Outline Drawing	Safety Approval						Testing Condition
		c.c.	μ F	VAC	Btu/h	W	W	Btu/h.W	W/W		C-UL	VPC	TUV	CCC	VDE	Others	
35	QM058S301-D01	5.75	15	370	4080	1195	388	10.52	3.08	35-75							HPD
	QM063S370-D01	6.25	15	370	4455	1305	380	11.72	3.43	35-75			◎				HPD
39	39Q073I	5.5	12	400	2740 3950	800 1155	300 360	9.13 10.97	2.67 3.21	39-06							
	39Q0T3G	5.75	12	370	2935 4165	860 1220	285 355	10.30 11.73	3.02 3.44	39-06							
	39Q0T3H	5.75	12	400	2915 4085	855 1195	285 355	10.23 11.51	3.00 3.37	39-09			◎				
	39Q0H3G	6.25	12	370	3155 4425	925 1295	295 375	10.69 11.80	3.14 3.45	39-06			◎			CB	
	39Q0H3J	6.25	12	400	3255 4570	955 1340	304 388	10.70 11.78	3.13 3.45	39-92			◎				
	39Q083H	6.5	15	370	3315 4680	970 1370	310 395	10.69 11.85	3.13 3.47	39-06					◎		
	39Q083I	6.5	15	400	3315 4625	970 1355	335 420	9.90 11.01	2.90 3.23	39-06							
	39Q0J3G	6.75	12	370	3430 4800	1005 1405	320 410	10.72 11.71	3.14 3.43	39-06			◎			CB	
	39Q0J3I	6.75	15	400	3450 4800	1010 1405	355 445	9.72 10.79	2.85 3.16	39-09							
	39Q0J3P	6.75	15	400	3450 4800	1010 1405	340 425	10.15 11.29	2.97 3.31	39-06			◎				
	39Q093G	7.0	15	400	3550 5000	1040 1465	335 425	10.60 11.76	3.10 3.45	39-06					◎		
	39Q103G	8.1	25	370	4065 5755	1190 1685	385 490	10.56 11.74	3.09 3.44	39-06			◎				
	39Q103H	8.1	20	370	4125 5715	1210 1675	395 505	10.44 11.32	3.06 3.32	39-06				◎	◎		
	39Q103P	8.1	20	370	4165 5815	1220 1700	410 520	1016 11.18	2.98 3.27	39-06				◎			
	39Q113G	8.6	20	370	4365 6150	1280 1800	415 525	10.52 11.71	3.08 3.43	39-06							
	39Q133G	10.4	30	370	5335 7460	1565 2185	515 640	10.36 11.66	3.04 3.41	39-01							
44	44Q193M	15.6	35	370	8055 11190	2360 3275	745 970	10.81 11.54	3.17 3.38	44-89			◎			CB	

R134a 1φ 220-240V / 50Hz

F

热泵干衣机 / 洗干衣机
Heat-Pump Dryer / Washer-Dryer

Testing Condition:

ASHRAE/T

HPD

Series	Model	Disp.	Capacitor		Cooling Capacity		Input Power	EER	COP	Outline Drawing	Safety Approval					
		c.c.	μ F	VAC	Btu/h	W	W	Btu/h.W	W/W		C-UL	VPC	TUV	CCC	VDE	Others
35	35F063J	6.0	8	450	2340 3530	685 1035	251 336	9.32 10.51	2.73 3.08	35-14				◎		CB
	35F0W3H	7.25	12	450	2895 4305	850 1260	305 402	9.49 10.71	2.79 3.13	35-15			◎	◎		
	35F073L	7.5	15	370	2995 4545	875 1330	340 461	8.81 9.86	2.57 2.89	35-53			◎	◎		
39	39F0G3G	6.5	12	370	2580 3970	755 1160	240 335	10.75 11.85	3.15 3.46	39-09			◎			
	39F073G	7.5	15	370	2975 4505	870 1320	290 385	10.26 11.70	3.00 3.43	39-09			◎			CB
	39F0H3G	8.1	15	370	3175 4900	930 1435	295 405	10.76 12.10	3.15 3.54	39-06			◎			
	39F103G	10.4	20	370	4145 6210	1215 1820	395 545	10.49 11.39	3.08 3.34	39-65			◎			CB

R134a 1φ 220-240V / 50Hz

E

热泵洗干衣机 / 卧式
Heat-Pump Washer-Dryer / Horizontal Type

Testing Condition:

ASHRAE/T

Series	Model	Disp.	Capacitor		Cooling Capacity		Input Power	EER	COP	Outline Drawing	Safety Approval					
		c.c.	μ F	VAC	Btu/h	W	W	Btu/h.W	W/W		C-UL	VPC	TUV	CCC	VDE	Others
39	3HE073A	7.5	12	370	2995	875	290	10.33	3.02	3H-46				◎	◎	

R134a 1φ 100/100-110V 50/60Hz

F

热泵干衣机 / 洗干衣机
Heat-Pump Dryer / Washer-Dryer

Testing Condition:

ASHRAE/T

HPD

Series	Model		Disp.	Capacitor		Cooling Capacity		Input Power	EER	COP	Outline Drawing	Safety Approval						
			c.c.	μ F	VAC	Btu/h	W	W	Btu/h.W	W/W		C-UL	VPC	TUV	CCC	VDE	Others	
35	35F095G	50Hz	8.1	40	250	3275	960	395	8.29	2.43	35-14			◎				
		4860				1425	500	9.72	2.85									
		3930				1150	397	9.90	2.90									
		5815				1700	535	10.87	3.18									



定频热泵热水器应用

Single Speed Heat-Pump Water-Heater Application

低GWP高效环保冷媒 / 针对热泵热水器应用工况设计 / 高效率泵体设计 / 低噪音振动 / 高可靠度

Low GWP high efficiency environmentally friendly refrigerant / Great reliability
Specific designed for heat pump water heater application / High efficiency pump design / Low noise and vibration

R290 1φ 220-240V / 50Hz

U

热泵热水器
Heat-Pump Water-Heater

Testing Condition: ASHRAE/T

Series	Model	Disp.	Capacitor		Cooling Capacity		Input Power	EER	COP	Outline Drawing	Safety Approval					
		c.c.	μ F	VAC	Btu/h	W	W	Btu/h.W	W/W		C-UL	VPC	TUV	CCC	VDE	Others
35	35U0E3H	3.5	7	370	1705	500	185	9.22	2.70	35-02						
39	39U103H(*)	8.1	20	370	4030	1180	380	10.61	3.11	39-06			◎			
	39U1B3G(*)	9.0	20	370	4525	1325	420	10.77	3.15	39-06						

(*) 开发中 under developing

R290 1φ 220-240V / 50Hz

Q

热泵洗干衣机 / 卧式
Heat-Pump Washer-Dryer / Horizontal Type

Testing Condition: ASHRAE/T

Series	Model	Disp.	Capacitor		Cooling Capacity		Input Power	EER	COP	Outline Drawing	Safety Approval					
		c.c.	μ F	VAC	Btu/h	W	W	Btu/h.W	W/W		C-UL	VPC	TUV	CCC	VDE	Others
39	3HQ083G	6.5	12	400	3275	960	315	10.40	3.11	3H-46					◎	
					4525	1330	415	10.90	3.20							

R290 1φ 220-240V / 50Hz

G

热泵热水器
Heat-Pump Water-Heater

Testing Condition:

ASHRAE/T

HPWH

Series	Model	Disp.	Capacitor		Cooling Capacity		Input Power	EER	COP	Outline Drawing	Safety Approval					
		c.c.	μ F	VAC	Btu/h	W	W	Btu/h.W	W/W		C-UL	VPC	TUV	CCC	VDE	Others
39	39G102A	8.6	10	370	4045	1185	375	10.79	3.16	39-06						
					4030	1180	410	9.83	2.88							
44	44G212A	17.5	30	370	8055	2360	775	10.39	3.05	44-02						
					8055	2360	860	9.37	2.74							

R134a 1φ 220-240V / 50Hz

G

热泵热水器
Heat-Pump Water-Heater

Testing Condition:

ASHRAE/T

HPWH

Series	Model	Disp.	Capacitor		Cooling Capacity		Input Power	EER	COP	Outline Drawing	Safety Approval					
		c.c.	μ F	VAC	Btu/h	W	W	Btu/h.W	W/W		C-UL	VPC	TUV	CCC	VDE	Others
39	39G123U	12.4	20	370	4840	1420	450	10.76	3.16	39-75						
					4860	1425	500	9.72	2.85							
50	50G243N	23.5	30	370	9485	2775	845	11.22	3.28	50-03						
					9485	2775	955	9.93	2.91							

R513A 1φ208-230V / 60Hz

J

热泵热水器
Heat-Pump Water-Heater

Testing Condition: ASHRAE/T

Series	Model	Disp.	Capacitor		Cooling Capacity		Input Power	EER	COP	Outline Drawing	Safety Approval					
		c.c.	μ F	VAC	Btu/h	W	W	Btu/h.W	W/W		C-UL	VPC	TUV	CCC	VDE	Others
35	JM048S201(*)	4.75	8	370	2260	660	305	1.87	2.17	35-63						
39	JP086S201(*)	8.6	18	370	4150	1215	405	2.58	3.00	39-06						

(*) 开发中 under developing



直流变频 微型压缩机

DC Inverter Mini Compressor

变频微型冷气 / 宠物空调 / 微型除湿机 / 移动降温装置

DC Inverter mini Air-Conditioner / Pet Air-conditioner / Mini Dehumidifier / mobile cooling device

R134a DC 12V/24V/48V 单缸直流变频 DC 12V/24V/48V Inverter Single Cylinder

E

微型压缩机应用

Mini Compressor Application

Testing Condition: ASHRAE/T

Series	Model	Disp.	Cooling Capacity		Input Power (Inverter Included)	Input Power (Inverter Excluded)	COP (Inverter Included)	COP (Inverter Excluded)	Outline Drawing	Safety Approval					
		c.c.	Btu/h	W	W	W	W/W	W/W		C-UL	VPC	TUV	CCC	VDE	Others
20	20E0BGK (12V)	1.4	615	180	155	80	1.16	2.25	20-01						
	20E0BGH (24V)	1.4	615	180	155	75	1.16	2.40	20-01				◎		
	20E0BGM (48V)	1.4	635	185	145	75	1.28	2.47	20-01						
	20E02GK (12V)	1.9	775	250	195	110	1.28	2.27	20-01						
	20E02GL (24V)	1.9	775	250	195	105	1.28	2.38	20-01						
	20E02GM (48V)	1.9	875	255	185	105	1.38	2.43	20-01						

R134a DC 24V 双缸直流变频 DC 24V Inverter Twin Cylinder

Q

微型压缩机应用

Mini Compressor Application

Testing Condition: ASHRAE/T

Series	Model	Disp.	Cooling Capacity		Input Power (Inverter Included)	Input Power (Inverter Excluded)	COP (Inverter Included)	COP (Inverter Excluded)	Outline Drawing	Safety Approval					
		c.c.	Btu/h	W	W	W	W/W	W/W		C-UL	VPC	TUV	CCC	VDE	Others
21	EH033TL70	3.25	1490	435	240	160	1.81	2.72	21-01	◎					

R290 DC 24V 双缸直流变频 DC 24V Inverter Twin Cylinder

E

微型压缩机应用

Mini Compressor Application

Testing Condition: ASHRAE/T

Series	Model	Disp.	Cooling Capacity		Input Power (Inverter Included)	Input Power (Inverter Excluded)	COP (Inverter Included)	COP (Inverter Excluded)	Outline Drawing	Safety Approval					
		c.c.	Btu/h	W	W	W	W/W	W/W		C-UL	VPC	TUV	CCC	VDE	Others
21	QH033TL70	3.25	1825	535	300	215	1.78	2.48	20-02						

»» 应用领域 Applications

变频微型冷气 / 宠物空调 / 微型除湿机 / 移动降温装置

DC Inverter mini Air-Conditioner / Pet Air-conditioner / Mini Dehumidifier / mobile cooling device

■ 小而美 Compact and delicate

重量轻巧 · 仅有 0.86 kg
Lightweight, 0.86 kg only

■ Total solution

提供一体化变频驱动方案
We provide integrated inverter driver solution

■ 静而佳 Serene

噪音业界最优 · 额定运转工况 49dB (A) 以下
Leading noise level, below 49dB (A)

■ 高效节能 Highly energy efficient

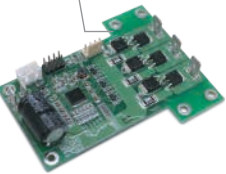
高能效 · 低振动
high energy efficient, and low vibration

■ 安全、可靠 Safe and reliable

超稳定可靠性 · 累积达 16 万小时以上
Ultra-stable and reliable, over 160,000 hours of reliability test

前瞻工艺 · 精密微激光焊接
Forward-looking Production process, micro laser welding

压缩机驱动板
Compressor drive board



安装加大水箱
Install 1500ml water tank



宠物空调
Pet Air-Conditioning

变频微型冷气
DC Inverter mini Air-Conditioner





直流变频驻车用空调机应用

DC inverter Truck Parking Air-Conditioner Application

24V低压低电源设计 / 环保冷媒 / 低高度设计 / 小型化脚架可选用 / 低噪音振动 / 高可靠度 / 高安全性接线盒

24V low voltage power supply design / Environmentally friendly refrigerant / Low height design / Miniature tripod can be used
Low noise and vibration / High reliability / High safety junction box

R410A DC 24V 双缸直流变频 DC 24V Inverter Twin Cylinder

A

驻车用空调机 / 卧式
Truck Parking Air-Conditioner / Horizontal Type

Testing Condition: NGB

Series	Model	Disp.	Cooling Capacity		Input Power (Inverter Included)	Input Power (Inverter Excluded)	COP (Inverter Included)	COP (Inverter Excluded)	Outline Drawing	Safety Approval					
		c.c.	Btu/h	W	W	W	W/W	W/W		C-UL	VPC	TUV	CCC	VDE	Others
40	4MA23GL	9.0	9880	2895	1375	1270	2.11	2.28	4M-01						

R134a DC 24V/48V 双缸直流变频 DC 24V/48V Inverter Twin Cylinder

E

驻车用空调机 / 卧式
Truck Parking Air-Conditioner / Horizontal Type

Testing Condition: ASHRAE/T

Series	Model	Disp.	Cooling Capacity		Input Power (Inverter Included)	Input Power (Inverter Excluded)	COP (Inverter Included)	COP (Inverter Excluded)	Outline Drawing	Safety Approval					
		c.c.	Btu/h	W	W	W	W/W	W/W		C-UL	VPC	TUV	CCC	VDE	Others
40	4ME17GL (24V)	14.6	6945	2035	615	595	3.31	3.42	4M-01						
	4ME17H3 (48V)	14.6	6745	1975	750	620	2.63	3.19	4M-01				◎		



RV 房车空调应用

RV Air-Conditioner Application

产品能力范围大 / 环保冷媒 / 卧式机型最低高度设计 / 特殊油路设计高可靠性 / 外观设计可客制化

Large capacity range of product / Environmentally friendly refrigerant / Lowest height design for horizontal model
Special oil circuit design for great reliability / Appearance design can be customized

R32 1φ 115V / 60Hz



一般 (中冷凝温度) 空调机
General (Medium Condensing Temp.) Air-Conditioner

Testing Condition: ASHRAE/T

Series	Model	Disp.	Capacitor		Cooling Capacity		Input Power	EER	COP	Outline Drawing	Safety Approval					
		c.c.	μ F	VAC	Btu/h	W	W	Btu/h.W	W/W		C-UL	VPC	TUV	CCC	VDE	Others
39	39W1G1G	6.65	55	250	7020	2055	729	9.63	2.82	39-76	◎					
	44W2E1K	9.4	60	320	10080	2950	1000	10.08	2.95	44-82	◎					
44	44W311M	11.9	70	300	12520	3665	1350	9.27	2.71	44-84	◎					
	44W341K	12.8	55	320	13510	3955	1390	3.72	2.85	44-86	◎					

R32 1φ 220-240V / 50Hz



高效(低冷凝温度)空调机/卧式
High-EER (Low Condensing Temp.) Air-Conditioner /Horizontal Type

Testing Condition: ASHRAE/T
NGB

Series	Model	Disp.	Capacitor		Cooling Capacity		Input Power	EER	COP	Outline Drawing	Safety Approval					
		c.c.	μ F	VAC	Btu/h	W	W	Btu/h.W	W/W		C-UL	VPC	TUV	CCC	VDE	Others
44	4HX2E3V	11.4	35	370	9585 10795	2805 3160	1005 850	9.54 12.70	2.79 3.72	4H-77			◎	◎		
	4HX2J3V	13.5	40	370	11390 12995	3335 3805	1205 1015	9.45 12.80	2.77 3.75	4H-77			◎	◎		

R290 1φ 220-240V / 50Hz



一般 (中冷凝温度) 空调机
General (Medium Condensing Temp.) Air-Conditioner

Testing Condition: ASHRAE/T

Series	Model	Disp.	Capacitor		Cooling Capacity		Input Power	EER	COP	Outline Drawing	Safety Approval					
		c.c.	μ F	VAC	Btu/h	W	W	Btu/h.W	W/W		C-UL	VPC	TUV	CCC	VDE	Others
35	35P123G	9.75	12	450	4800	1405	480	10.00	2.93	35-A7			◎	◎		



机柜空调应用

Cabinet Air-Conditioner Application

高效环保冷媒 / 针对机柜空调应用工况设计 / 高效率泵体设计 / 低噪音振动 / 高可靠度

High efficiency environmentally friendly refrigerant/ Design for cabinet air conditioner
High efficiency pump design/Low noise and vibration/Great reliability

R134a 1φ 220-240/230V 50/60Hz



机柜空调 Cabinet Air Conditioner

Testing Condition: ASHRAE/T
HPD

Series	Model	Disp.	Capacitor		Cooling Capacity		Input Power	EER	COP	Outline Drawing	Safety Approval					
		c.c.	μ F	VAC	Btu/h	W	W	Btu/h.W	W/W		C-UL	VPC	TUV	CCC	VDE	Others
35	35F0E3D	4.75	12	370	1885	550	230	8.20	2.39	35-33						
	35F0G3B	6.5	7	450	2815	825	300	9.38	2.75	35-14						
39	39F123G	12.4	18	400	2600	760	261	9.96	2.91	39-04						
	39F123N	12.4	20	400	3850	1125	360	10.69	3.13	39-04						
	39F123H	12.4	20	400	4940	1445	475	10.40	3.04	39-04						
44	44F173I	17.5	30	370	7420	2175	660	11.24	3.30	44-02						
	44F173K	17.5	25	370	4940	1445	530	9.32	2.73	44-02						
	44F193H	19.1	25	370	7320	2145	705	10.38	3.04	44-56						
	50F343G	34.0	40	450	7045	2065	675	10.44	3.06	50-09						
50	50F343G	34.0	40	450	10635	3115	950	11.19	3.28	50-09						
	50F343G	34.0	40	450	6885	2015	675	10.20	2.99	50-09						
	50F343G	34.0	40	450	10335	3025	940	10.99	3.22	50-09						
50	50F343G	34.0	40	450	7540	2210	730	10.33	3.03	50-09						
	50F343G	34.0	40	450	11565	3390	1025	11.28	3.31	50-09						
	50F343G	34.0	40	450	13315	3900	1250	10.65	3.12	50-09						
50	50F343G	34.0	40	450	19700	5770	1830	10.77	3.15	50-09						
	50F343G	34.0	40	450	19700	5770	1830	10.77	3.15	50-09						

上述为50HZ数据 50HZ data as the above

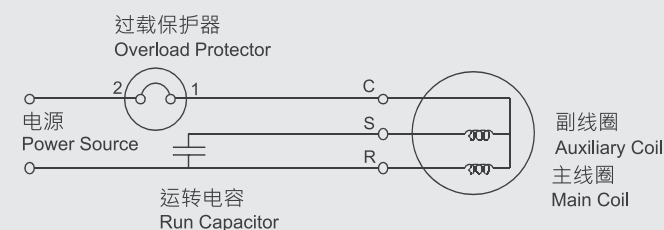
工作/测试工况；接线图

Working / Testing Condition ; Wiring Diagram

◆工作 / 测试工况 Working / Testing Condition

	冷凝温度 °C Condensing temp	蒸发温度 °C Evaporating temp	膨胀阀前温度 °C Liquid temp	吸入温度 °C Suction temp	环境温度 °C Ambient temp
ASHRAE/T	54.4	7.2	46	35	35
NGB	46	7.2	37.7	18.3	35
TBA	42.3	2.7	34.3	12.8	35
CHEER	37.8	7.2	29.5	18.3	35
HPD	70	25	61	35	35
HPWH	60	10	50	20	35
NDOE	32	5	25	18	35

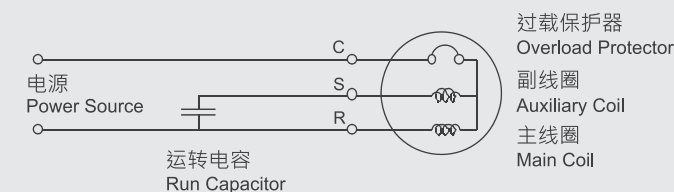
◆接线图 Wiring Diagram



▶ 定速压缩机 Single Speed Compressor

型式 1 : 外置式保护器

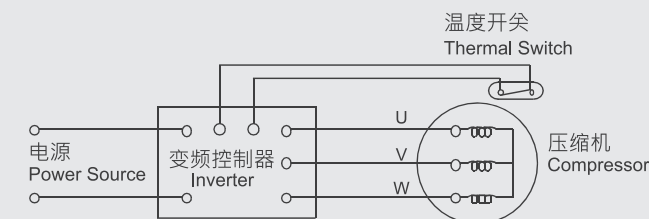
Type 1 : External Overload Protector



▶ 定速压缩机 Single Speed Compressor

型式 2 : 内置式保护器

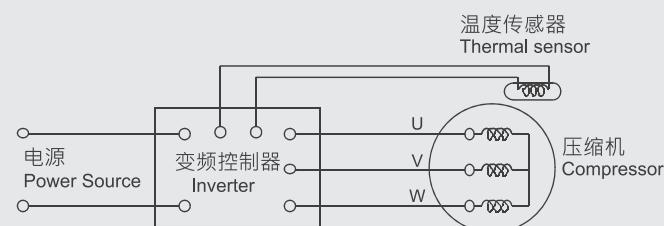
Type 2 : Internal Overload Protector



▶ 直流变频压缩机 DC Inverter Compressor

型式 1 : 温度开关

Type 1 : Thermal Switch



▶ 直流变频压缩机 DC Inverter Compressor

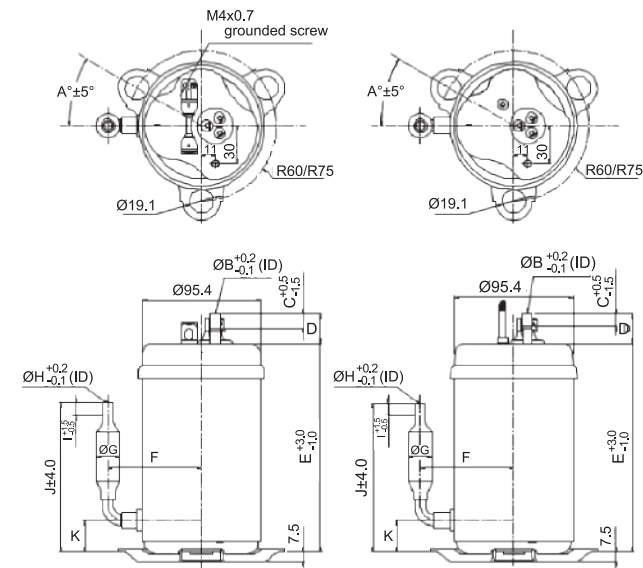
型式 2 : 温度传感器

Type 2 : Thermal Sensor

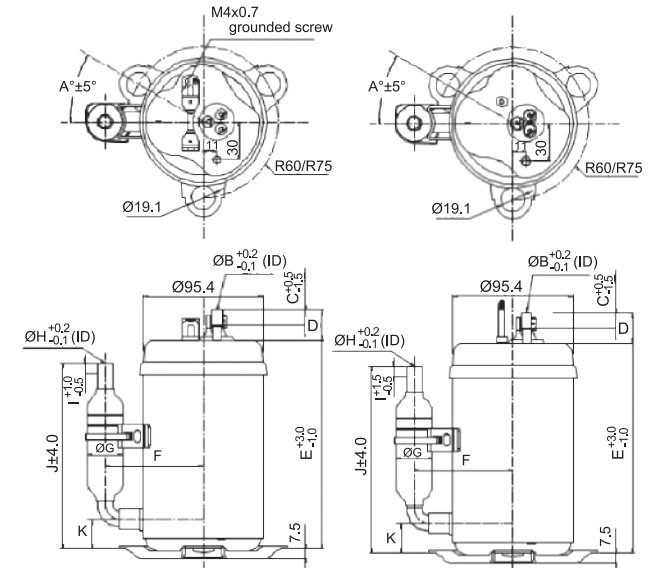
外观图

Outline Drawing

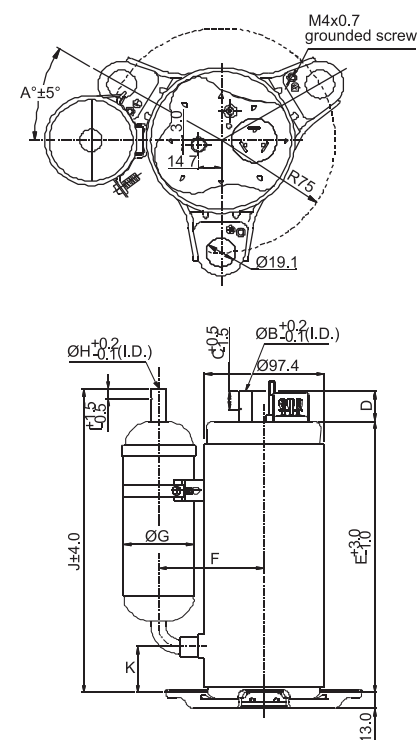
35-01,02,04,06,33,34,35,36,73,87



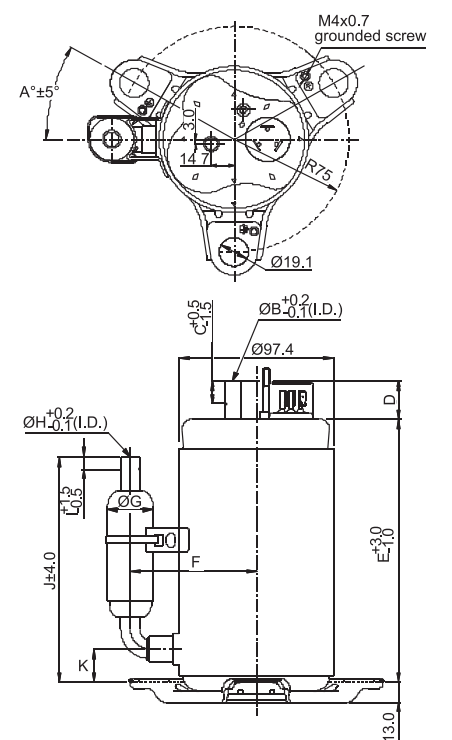
35-14,15,16,24,25,26,
53,54,55,56,63,64,65,66,67,75,78,79,83,85
02(b),06(b)



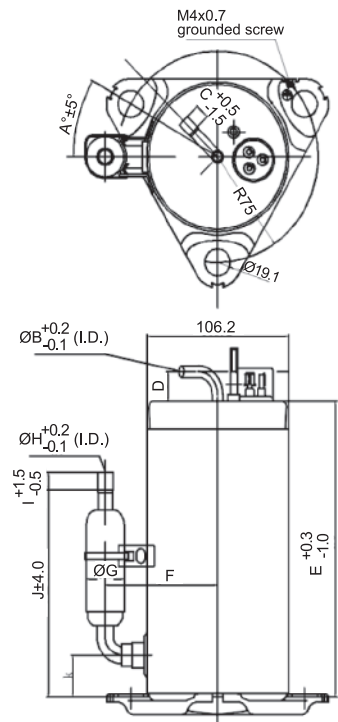
35-N,X,76



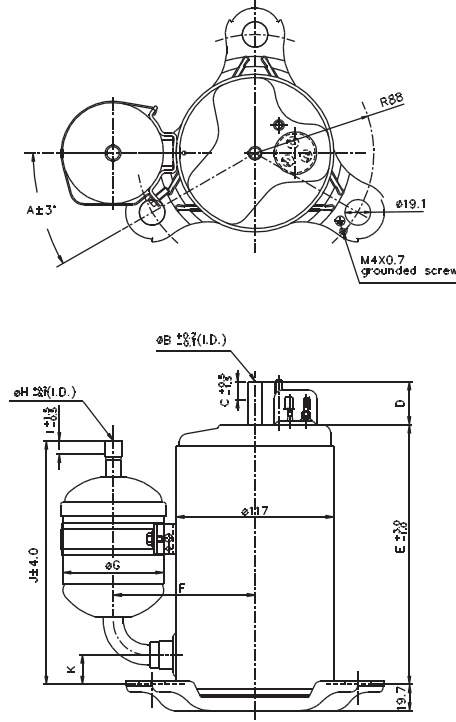
36-S1



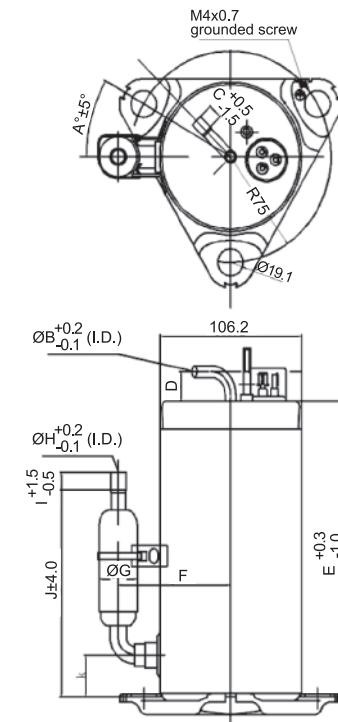
35-68,69,70,71,72,74,80,81,82,84,86,88



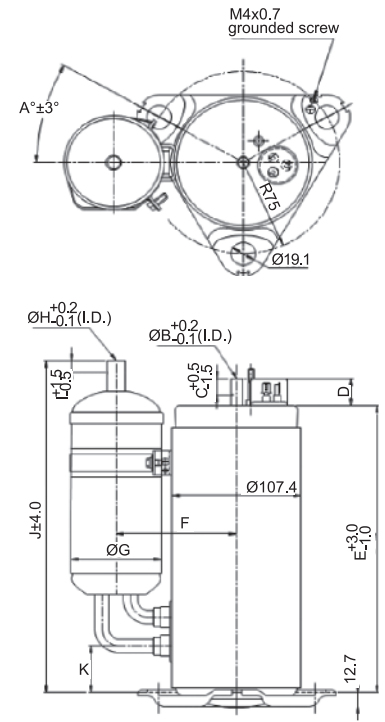
36-01



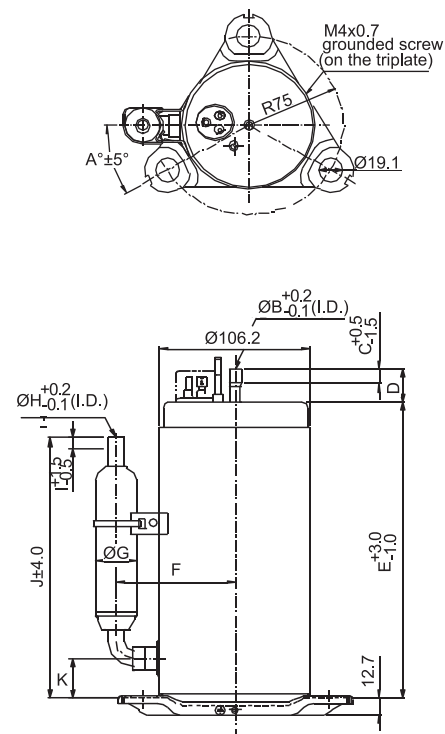
39-A1,A2,A3,A4



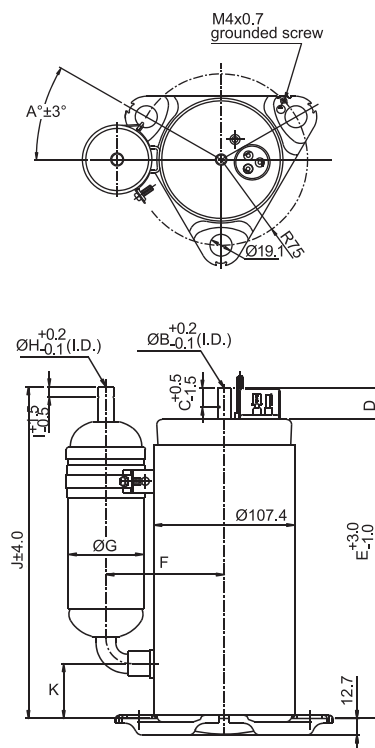
40-03,08



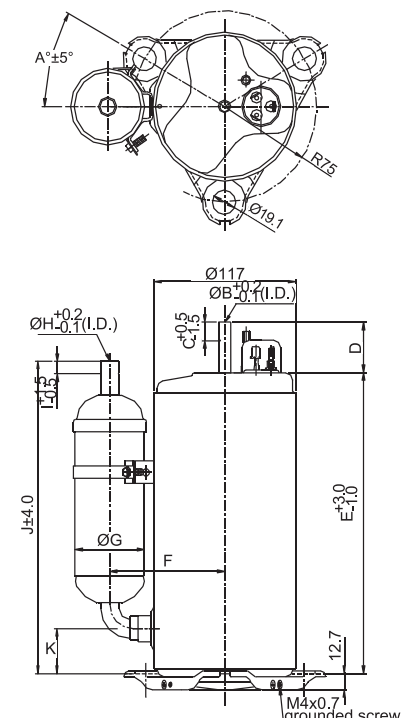
39-01,02,04,06,08,09,
26,28,52,65,74,75,76,77,78,80,
81,82,83,84,85,86,87,89,91,92



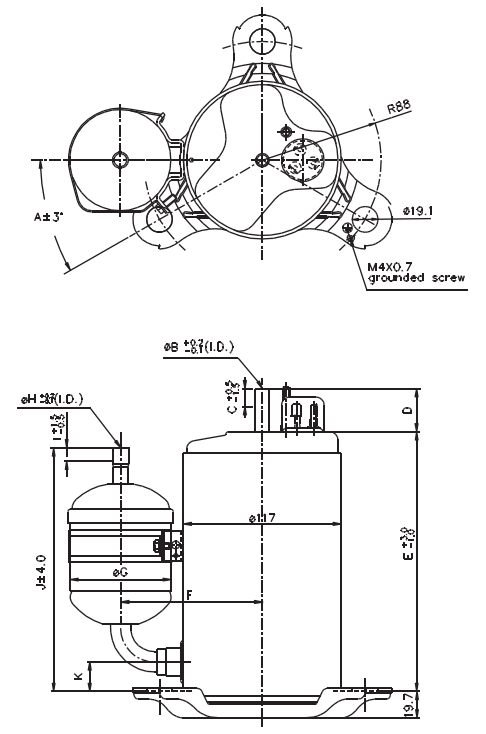
39-Q,R,S,T,U,V,W,X,Y,Z,Z1,88,90,93



44-02,04,05,06,07,
56,73,75,76,77,A3,80,83,84,85,87,89

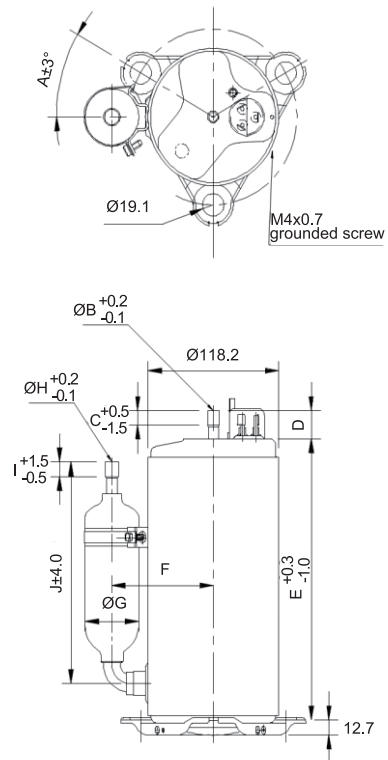


44-Z,86

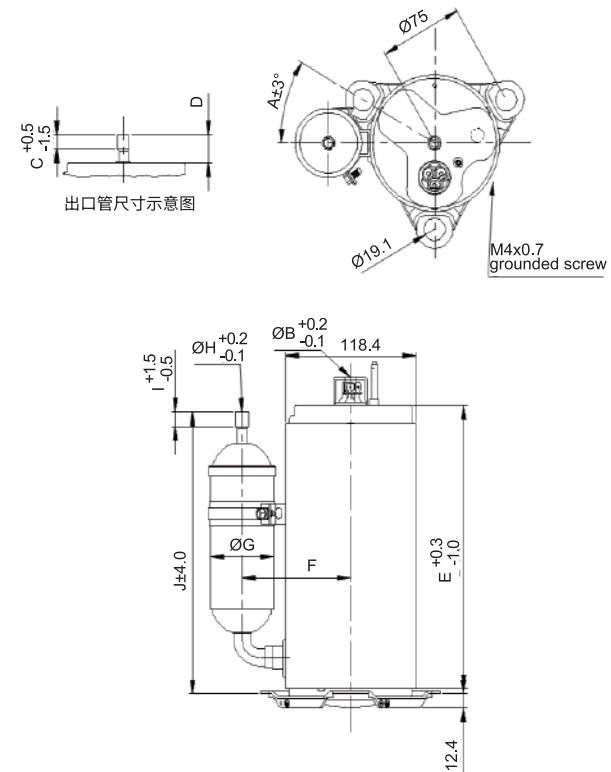




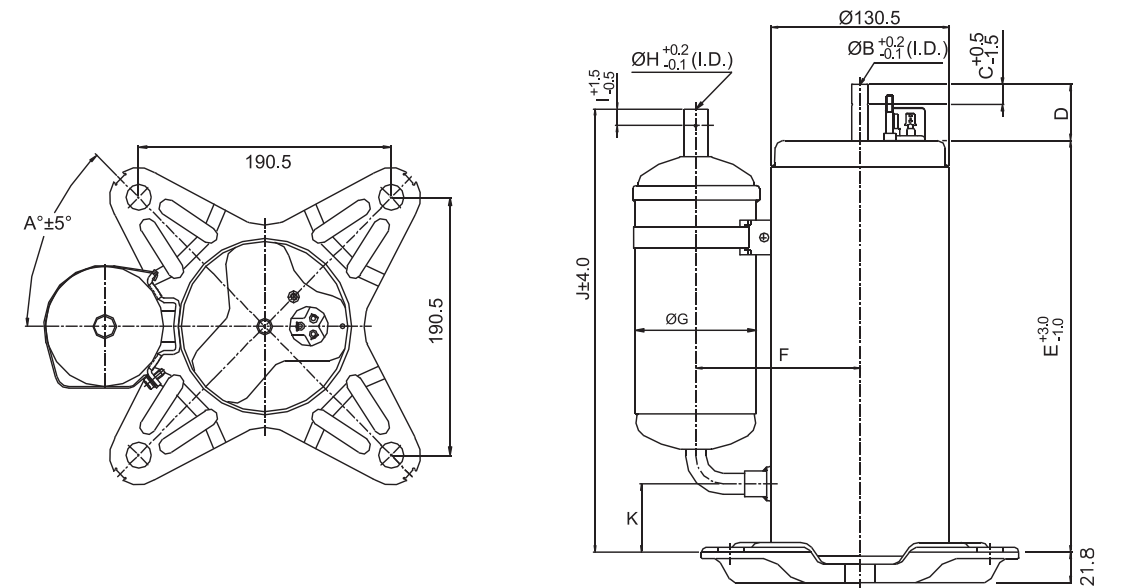
44-A1,K3,78,79,80,81



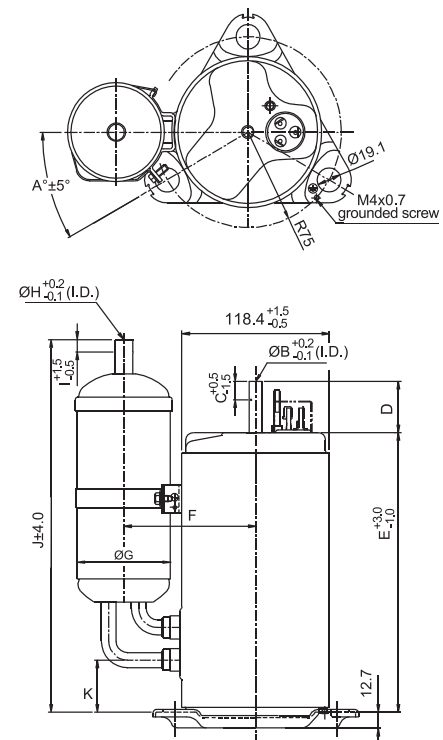
44-A2



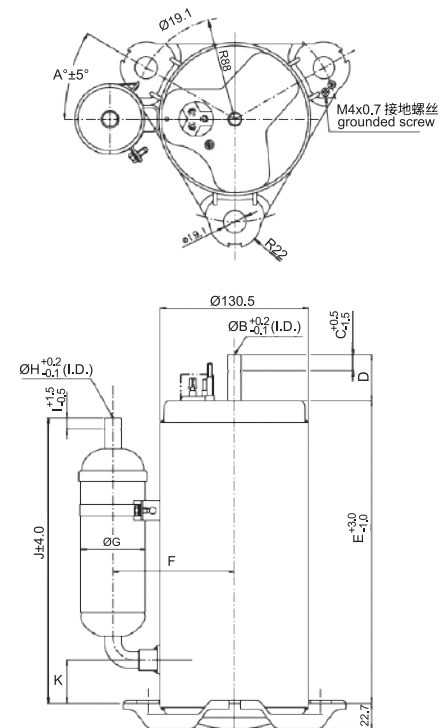
50-12(b)



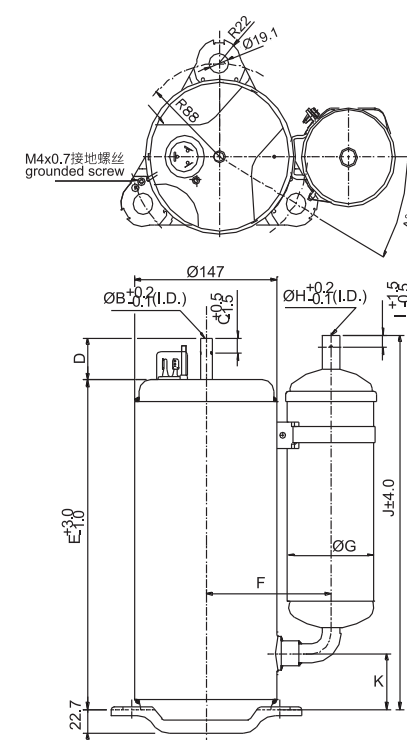
45-03,05



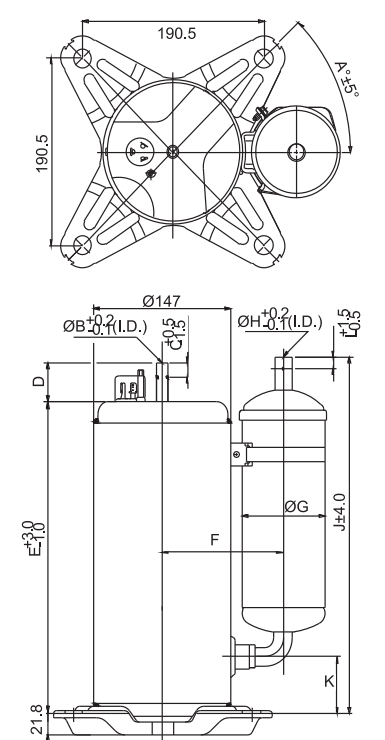
50-01,02,03,04,05,06,07,55



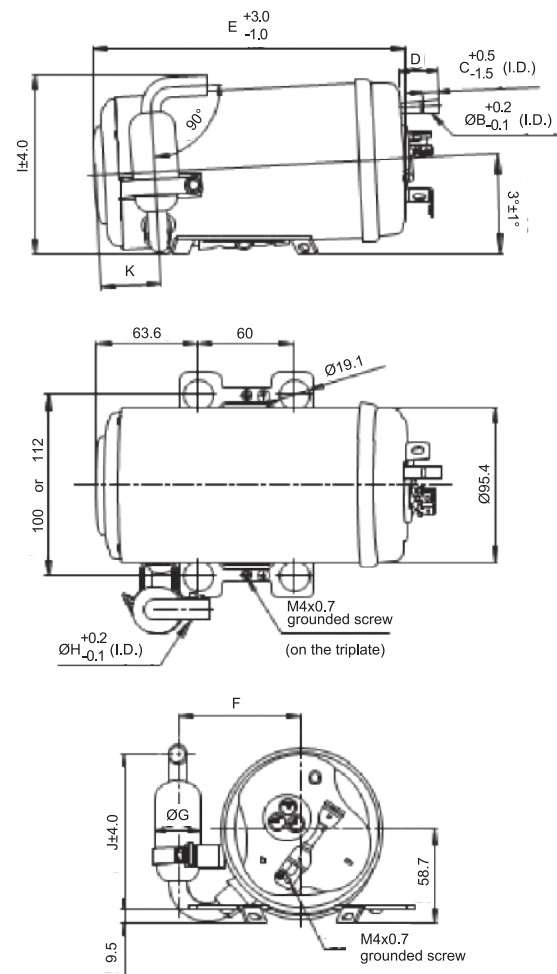
55-01,51



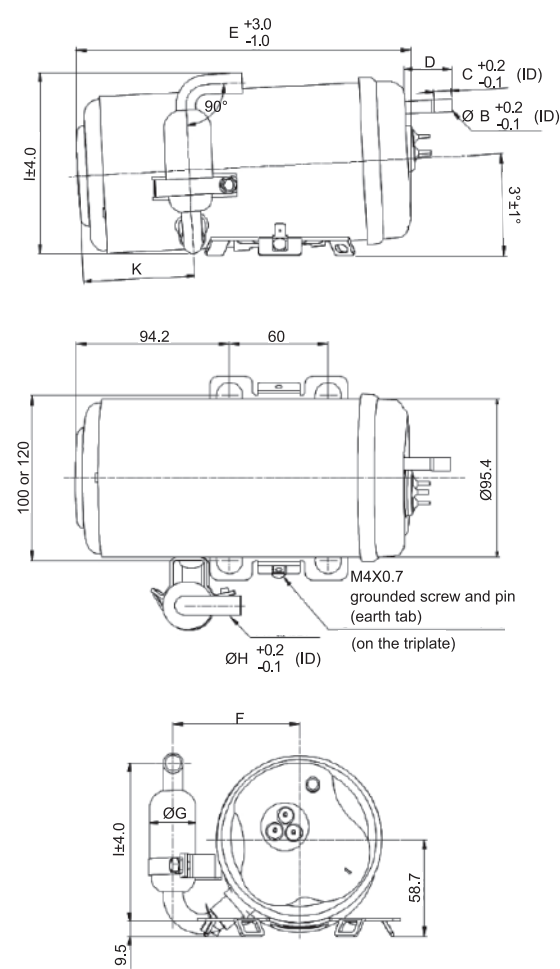
55-51(b)



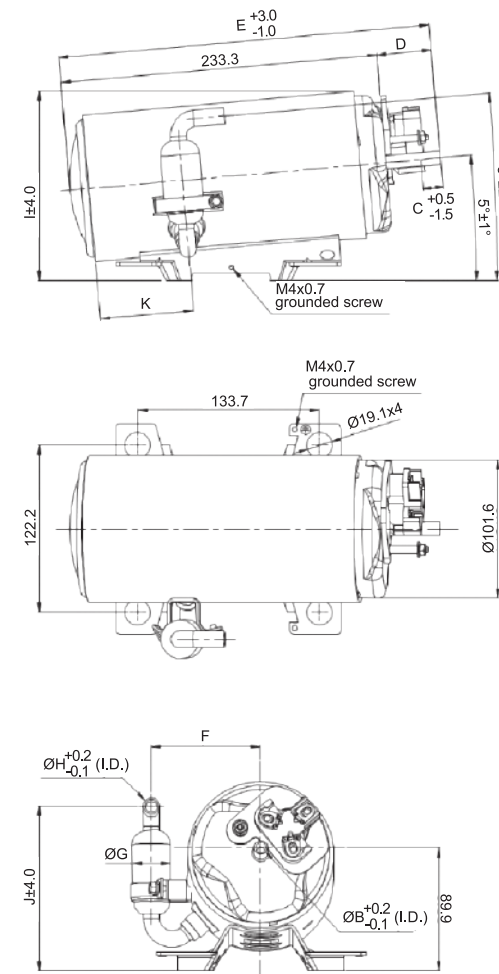
3H-46,47



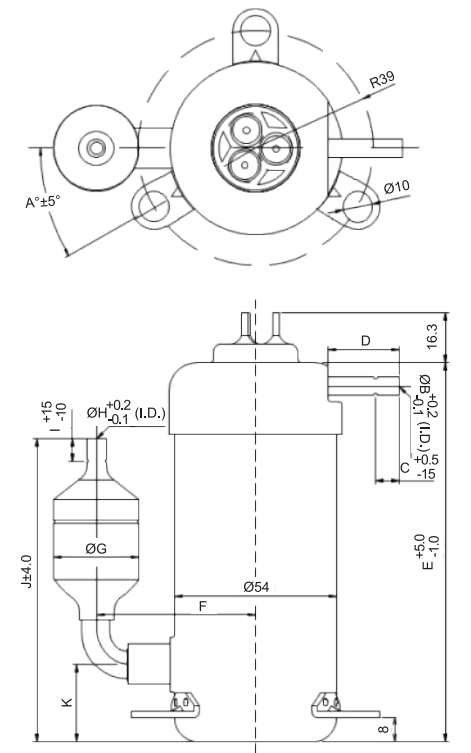
3L-42



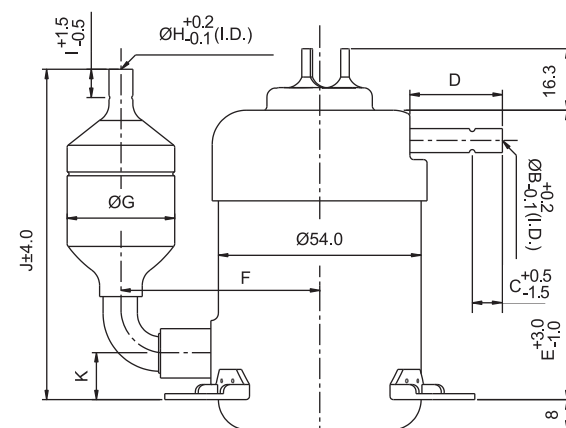
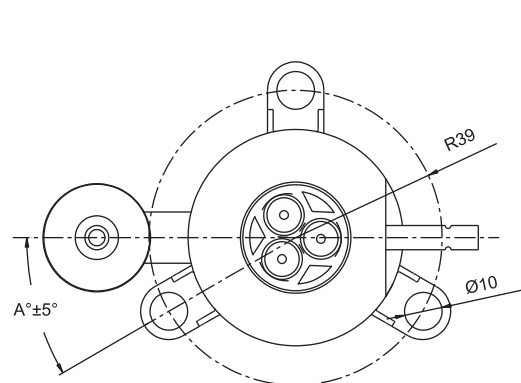
4M-01



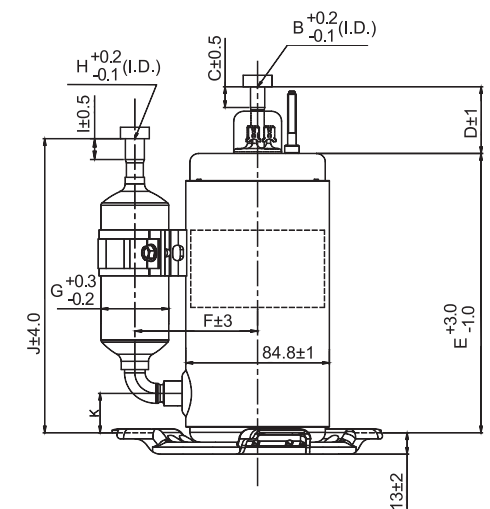
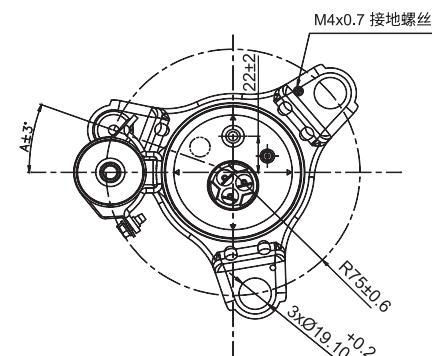
21-01



20-01,02



31-01,02,03



外观图尺寸

Dimensions Table for Outline Drawing

Fig. NO.	A	B	C	D	E	F	G	H	I	J	K
20-01	-30	4.35/6.50	8	23.7	76.6	53	28	4.35/6.50	7.5	87.5	12.5
20-02	30	6.35	16.3	27	126	53	28.6	6.35	-	100.5	25.5
21-01	-30	4.35/6.50	8	23.7	126	53	28	4.35/6.50	7.5	100.5	25.5
31-01	20	6.2	12.5	40.6	170	72.5	40	9.2	12.5	179	24
31-02	30	6.2	10.5	24.3/40	156.7	72.5	28.6	9.7	8	144.7	24
31-03	30	6.2	12.5	24.3/40	178	76	40	9.7	12.5	192	28
35-01	±30/60	6.0/6.5	10.5/12	24	165.6	75	19	6.5/8.1	10	118.3	25.5
35-02, 35-02(b)	±30/60	6.0/6.5	10.5/12	24	155.6	75	19	6.5/8.1	10	118.3	25.5
35-04	±30/60	6.0/6.5	10.5/12	24	175.6	75	19	6.5/8.1	10	118.3	25.5
35-06, 35-06(b)	±30/60	6.0/6.5	10.5/12	24	145.6	75	19	6.5/8.1	10	118.3	25.5
35-14	±30/60	6.0/6.5	10.5/12	24	165.6	78.6	28.6	9.7	8	149.5	25.5
35-15	±30/60	6.0/6.5	10.5/12	24	175.6	78.6	28.6	9.7	8	149.5	25.5
35-16	±30/60	6.0/6.5	10.5/12	24	185.6	78.6	28.6	9.7	8	149.5	25.5
35-24	±30/60	6.0/6.5	10.5/12	24	165.6	78.6	28.6	9.7	8	150.5	26.5
35-25	±30/60	6.0/6.5	10.5/12	24	175.6	78.6	28.6	9.7	8	150.5	26.5
35-26	±30/60	6.0/6.5	10.5/12	24	185.6	78.6	28.6	9.7	8	150.5	26.5
35-33	±30/60	6.0/6.5	10.5/12	24	155.6	75	19	6.5/8.1	10	116.3	23.5
35-34	±30/60	6.0/6.5	10.5/12	24	165.6	75	19	6.5/8.1	10	116.3	23.5
35-35	±30/60	6.0/6.5	10.5/12	24	175.6	75	19	6.5/8.1	10	116.3	23.5
35-36	±30/60	6.0/6.5	10.5/12	24	185.6	75	19	6.5/8.1	10	116.3	23.5
35-53	±30/60	6.0/6.5	10.5/12	24	160.6	78.6	28.6	9.7	8	149.5	25.5
35-54	±30/60	6.0/6.5	10.5/12	24	170.6	78.6	28.6	9.7	8	149.5	25.5
35-55	±30/60	6.0/6.5	10.5/12	24	180.6	78.6	28.6	9.7	8	149.5	25.5
35-56	±30/60	6.0/6.5	10.5/12	24	190.6	78.6	28.6	9.7	8	149.5	25.5
35-63	±30/60	6.0/6.5	10.5/12	24	160.6	78.6	28.6	9.7	8	150.5	26.5
35-64	±30/60	6.0/6.5	10.5/12	24	170.6	78.6	28.6	9.7	8	150.5	26.5
35-65	±30/60	6.0/6.5	10.5/12	24	180.6	78.6	28.6	9.7	8	150.5	26.5
35-66	±30/60	6.0/6.5	10.5/12	24	190.6	78.6	28.6	9.7	8	150.5	26.5
35-67	30	6.5	12	21	178.1	78.6	28.6	9.7	8	143	19
35-68	30	6.5	12	21	176.4	78.6	28.6	9.7	8	146.3	22.3
35-69	30	6.2	12	21	185.6	78.6	28.6	8.1	12.5	155	26.5
35-70	15	6.5	12	21	176.4	78.6	28.6	9.7	8	146.3	22.3
35-71	30	6.5	12	21	147.5	78.6	28.6	8.1	12.5	183.1	19
35-72	30	6.5	12	21	178.1	78.6	28.6	8.1	12.5	149.8	21.3

Fig. NO.	A	B	C	D	E	F	G	H	I	J	K
35-73	60	6.5	12	24.4	143.1	65	19	6.5	10	129.8	16
35-74	30	6.5	12	21	158.1	78.6	28.6	9.7	8	142	18
35-75	30	6.5	12	24.3	186.3	78.6	28.6	9.7	8	146.3	22.3
35-76	20	6.2	10.5	24.3/40	188.7	82.6	40	9.2	12.5	197.3	33.3
35-78	60	8.1	12.5	24.3/40	186.4	72.7	28.6	9.7	8	168	44
35-79	30	8.1	12.5	24.3/40	174.4	78.6	28.6	9.7	8	156	32
35-80	30	6.5	12	21	183.1	78.6	28.6	8.1	12.5	147.5	19
35-81	30	6.5	12	21	183.1	78.6	28.6	8.1	12.5	142	18
35-82	30	6.5	12	21	176.5	78.6	28.6	8.1	12.5	155	26.5
35-83	15/60	6.5	12	24.4	186.4	78.6	28.6	9.7	8	146.3	13
35-84	15	6.5	12	21	181.4	78.6	28.6	8.1	12.5	149.8	21.3
35-85	45	6.5	12	24.3/40	191.2	81.5	40	9.7	12.5	197.25	22.25
35-86	30	6.5	12	21	191.4	78.6	28.6	9.7	8	146.3	22.3
35-87	30	6.5	12	24	153.1	71	20	8.5	12	138.3	16
35-88	60	6.5	12	21	178.1	78.6	28.6	9.7	8	143	19
35-N	±30/60	8.1	14.5	24.3/40	224.7	85.1	57.3	9.7	8	251.3	38.3
36-01	30	8.1	12.5	24.3/40	214.7	87.7	57.3	9.7	12.5	227.3	47.3
35-X	±30/60	6.0/6.5	10.5/12	24	199.7	90.9	64	6.5/8.1	10	254.8	33.3
3H-46	—	6.0/6.5	10.5/12.0	24	194.7	77.2	28.6	9.7	111	95.6	37.5
3H-47	—	8.1	12.5	24.3/40	200.9	82.2	19	9.7	12.5	157.7	—
3L-42	—	6.0/6.5	10.5/12.0	24.3	204.7	77.2	28.6	9.7	109.5	95.6	68.1
36-S1	±30/60	8.1	14.5	24.4/40	189.7	79.6	28.6	9.7	8	171.3	47.3
39-01	±30/60	6.5/8.1	10.5/14.5	24.3/40	220.3	84	28.6	9.7	8	193.5	29.5
39-02	±30/60	6.5/8.1	10.5/14.5	24.3/40	192.9	84	28.6	9.7	8	153.5	29.5
39-04	±30/60	6.5/8.1	10.5/14.5	24.3/40	202.9	84	28.6	9.7	8	153.5	29.5
39-06	±30/60	6.5/8.1	10.5/14.5	24.3/40	220.3	84	28.6	9.7	8	191	27
39-08	±30/60	6.5/8.1	10.5/14.5	24.3/40	198.9	84	28.6	9.7	8	151	27
39-09	±30/60	6.5/8.1	10.5/14.5	24.3/40	209.9	84	28.6	9.7	8	191	27
39-26	±30/60	6.5/8.1	10.5/14.5	24.3/40	189.9	84	28.6	9.7	8	151	27
39-28	±30/60	6.5/8.1	10.5/14.5	24.3/40	169.9	84	28.6	9.7	8	151	27
39-52	±30/60	6.5/8.1	10.5/14.5	24.3/40	169.9	84	28.6	9.7	8	151	27
39-65	±30/60	6.5/8.1	10.5/14.5	24.3/40	220	84	28.6	9.7	8	153.5	29.5
39-74	±30/60	6.5/8.1	10.5/14.5	24.3/40	232	87	40	9.7	8	191	27
39-75	±30/60	6.5/8.1	10.5/14.5	24.3/40	235.9	90	57.3	9.7	8	257.5	44.5

Fig. NO.	A	B	C	D	E	F	G	H	I	J	K
39-76	±30/60	6.5/8.1	10.5/14.5	24.3/40	209.9	84	28.6	9.7	8	151/191	22
39-77	-15	6.5/8.1	12.5	24.3/40	209.9	84	28.6	9.7	12.5	194	22
39-78	±30/60	6.5/8.1	10.5/14.5	24.3/40	209.9	87	40	9.7	12.5	194	22
39-80	±30/60	6.5/8.1	10.5/14.5	24.3/40	220.3	87	40	9.7	12.5	199	27
39-81	±30/60	6.5/8.1	10.5/14.5	24.3/40	209.9	84	28.6	9.7	12.5	194	22
39-82	±27/60	6.5/8.1	10.5/14.5	24.3/40	197.8	87	40	9.7	12.5	269	22
39-83	±30/60	6.5	10.5	24.3	199.9	84	28.6	9.7	8	146	22
39-84	±30/60	8.1	12.5	24.3	209.9	87	40	9.7	12.5	194	22
39-85	15	6.2	10.5	24.3	209.9	76.5	28.6	8.1	12.5	199	27
39-86	29	8.1	12.5	24.3	209.9	87	40	9.7	12.5	214	22
39-87	15	6.5	10.5	24.3	199.9	76.5	28.6	9.7	12.5	194	22
39-88	30	8.1	12.5	24.3	226.9	87	40	9.7	12.5	199	27
39-89	0/30	6.5	10.5	24.3	209.9	84	28.6	9.7	12.5	194	22
39-90	27	8.1	12.5	35	197.8	87	40	9.7	12.5	269	22
39-91	30	8.1	12.5	24.3	226.9	88.5	40	9.7	12.5	201.5	29.5
39-92	30	6.5	10.5	24.3	200.3	84	28.6	9.7	8	146	22
39-93	30	8.1	12.5	24.3/40	204.8	96	64	9.2/9.7	12.5	255.3	33.3
39-Q	±30/60	6.5/8.1	10.5/14.5	24.3/40	230	90	57.3	9.7	8	255	42
39-R	±30/60	6.2	10.5/14.5	24.3/40	220.3	87	40	8.1	12.5	199	27
39-S	±30/60	6.5/8.1	10.5/14.5	24.3/40	226.9	87	40	9.7	12.5	201.5	29.5
39-T	±30/60	6.5/8.1	10.5/14.5	24.3/40	222.2	95.7	64	12.8	10	244.6	63.6
39-U	±30/60	6.5/8.1	10.5/14.5	24.3/40	222.2	95.7	64	12.8	10	244.6	63.6
39-V	±30/60	6.5/8.1	10.5/14.5	24.3/40	191.7	95.4	64	9.7	12.5	214.4	33.3
39-W	±30/60	6.5/8.1	10.5/14.5	24.3/40	204.9	95.4	64	9.7	12.5	255.3	33.3
39-X	±30/60	6.5/8.1	10.5/14.5	24.3/40	215	86	48	12.8	10	211	27
39-Y	±30/60	6.5/8.1	10.5/14.5	24.3/40	222.2	95.7	64	12.8	10	244.6	63.6
39-Z	±30/60	6.5/8.1	10.5/14.5	24.3/40	193	84.6	28.6	9.7	8	151	27
39-Z1	±30/60	6.5/8.1	10.5/12.5	24.3/40	204.8	96	64	9.7	12.5	255.3	33.3
39-A1	±30/60	6.5/8.1	—	21	209.9	84	40	9.7	12.5	130	29.5
39-A2	±30/60	6.5	—	21	209.9	87	40	9.7	12.5	194	22
39-A3	±30/60	6.5	10.5	21	220	84	28.6	9.7	8	191	27
39-A4	15	6.5	10.5	21	220.3	87	40	9.7	12.5	199	27

Fig. NO.	A	B	C	D	E	F	G	H	I	J	K
40-03	±30/60	6.5/8.1	10.5/14.5	24.3/40	253.2	100.4	75	12.8	10	292.9	40.9
40-08	±30/60	6.5/8.1	10.5/14.5	24.3/40	223.2	100.4	75	12.8	10	262.9	30.9
4M-01	—	6.5/8.1	14.5	24/40	273.3	80.5	28.6	9.7	138.2	120.4	64.1
44-02	±30/60	8.1	14.5	24/40	239.8	91	48	9.7	8	248.8	35.8
44-04	±30/60	8.1	14.5	24/40	244.8	91	48	9.7	8	248.8	35.8
44-05	±30/60	8.1	14.5	24/40	249.8	91	48	9.7	8	248.8	35.8
44-06	±30/60	8.1	14.5	24/40	249.8	94.9	57.3	12.8	10	280.8	45.8
44-07	±30/60	8.1	14.5	24/40	239.8	91	48	9.7	8	207.4	23.4
44-56	±30/60	8.1	14.5	24/40	235	91.6	48	12.8	10	219.8	35.8
44-73	±30/60	8.1	14.5	24/40	260	94.9	57.3	9.7	8	258.8	35.8
44-75	±30/60	6.2	10.5	40.6	249.8	98.7	57.3	8.1	12.5	244.1	31.1
44-76	±30/60	8.1	12.5	24.3	224.8	92.4	40	9.7	12.5	203.1	31.1
44-77	±30/60	8.1	14.5	24/40	244.8	91	48	9.7	12.5	224.8	35.8
44-78	30	8.1	12.5	24.3	240.1	93.1	48	9.7	12.5	220.4	31.4
44-79	30	8.1	12.5	24.3	250.1	93.1	48	9.7	12.5	249.4	31.4
44-80	30	8.1	12.5	24.3	240.1	92.5	48	9.7	12.5	220.4	31.4
44-81	30	6.5/8.1	10.5/12.5	24.3	250.1	97.8	57.3	8.1/9.7	12.5	244.3	31.4
44-82	30	8.1	12.5	24.3	249.8	92.5	48	9.7	12.5	220.1	31.1
44-83	30	8.1	12.5	24.3	240.1	92.5	48	9.7	12.5	220.4	31.4
44-84	30	8.1	12.5	24.3	249.8	91	48	9.7	12.5	224.8	35.8
44-85	30	8.1	12.5	24.3	249.8	105.2	75	12.8	10	267.8	45.2
44-86	30	8.1	14.5	25	232.1	91	48	9.7	12.5	212.4	23.4
44-87	30	8.1	12.5	24.3/40	262.8	102	64	9.7	12.5	278.8	45.8
44-89	45	8.1	12.5	24.3	229.8	92.4	40	9.7	12.5	203.1	31.1
44-A1	±30/60	8.1	12.5	24.3	249.6	91.3	48	9.7	12.5	249.1	31.1
44-A2	±30/60	8.1	12.5	24.3	250.1	98.3	57.3	9.7	12.5	244.4	31.4
44-A3	30	8.1	14.5	25	232.1	91	48	9.7	12.5	212.1	28.1
44-K3	±30/60	8.1	12.5	24.3	249.8	99.3	57.3	9.2	12.5	244.1	31.1
44-Z	±30/60	8.1	14.5	24/40	192.5	105.2	75	9.7	10	180.1	21.1
45-03	±30/60	8.1	14.5	40	230	105.9	75	12.8	10	292.9	40.9
45-04	30	8.1	12.5	40.6	254.8	105.9	75	12.8	12	347.9	45.9
45-05	30	8.1	14.5	40	242.8	105.9	75	12.8	10	285.9	33.9
50-01	±30/60	8.1/9.7	14.5	24/40.6	256	107	57.3	12.8	10	263.1	28.1
50-02	±30/60	8.1/9.7	14.5	24/40.6	267	107	57.3	12.8	10	263.1	28.1

Fig. NO.	A	B	C	D	E	F	G	H	I	J	K
50-03	±30/60	8.1/9.7	14.5	24/40.6	266.5	112	75	12.8	10	260.1	38.1
50-04	±30/60	8.1/9.7	14.5	24/40.6	295.5	120.8	89	15.9	12	318.1	48.1
50-05	±30/60	8.1/9.7	14.5	24/40.6	240.5	112	75	12.8	10	254.9	32.9
50-06	60	9.7	14.5	36	290.1	112	75	12.8	10	260.1	38.1
50-07	60	9.6	14.5	39.8	353	124.7	89.1	15.9	12	379	82
50-12(b)	45	8.1/9.7	14.5	24/40.6	306	120.8	89	15.9	12	329	59
50-55	±30/60	8.1/9.7	14.5	24/40.6	285.5	112	75	9.7	8	260.1	38.1
50-H2	45	9.6	14.5	36	270.1	112	75	12.8	10	250.1	28.1
55-01	±30/60	9.7	14.5	24/40.6	321.2	129	89	15.9	12	365/325	54.8
55-51	±30/60	9.7	14.5	24/40.6	306.2	129	89	15.9	12	358/318	48
55-51(b)	45	9.7	14.5	24/40.6	307.2	129	89	15.9	12	358/318	49