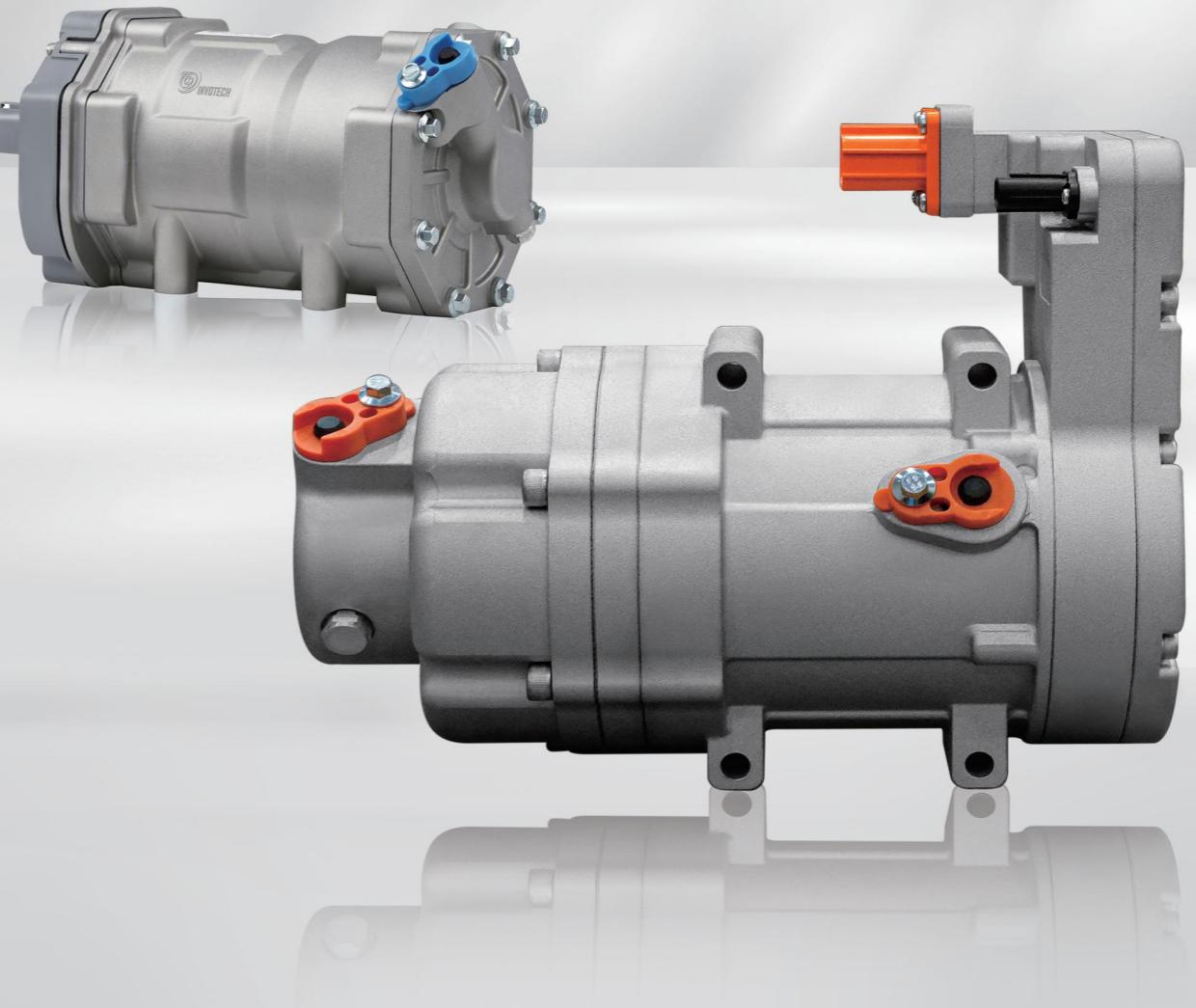




英华特 电驱动车用涡旋压缩机

Electric-Driven Scroll Compressor
for Automobile



微信公众号



微信客服

苏州英华特涡旋技术股份有限公司

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我们立志成为全球先进的气候和能源领域解决方案提供商,创造节能环保的生态环境!

Becoming the leading provider of advanced climate and energy solutions, and creating an energy-saving and eco-friendly environment.



让每一位员工分享企业成功!对市场变化做出迅速反应,全力以赴满足并超越客户期望!

Let every employee share in the success of the company. Respond quickly to market changes, go all out to meet and exceed customers' expectations.



卓越、创新、勇于担当、执行力、学习、务实

Excellence, Innovation, Commitment, Execution, Fast learning, Down to earth

苏州英华特涡旋技术股份有限公司（以下简称英华特）成立于 2011 年，现总部位于江苏常熟市，是一家专业从事涡旋式压缩机研发、制造和销售的高新技术企业。公司先后获得协立、高瓴等专业风险投资公司投资，以及各级政府科技经费支持，在十余年来实现了跨越式发展，成为涡旋压缩机行业里少有的持续高速增长公司之一。

2015 年，英华特荣获国家级“高新技术企业”称号，2021 年获评国家级“专精特新小巨人企业”，多年发展历程中荣获多项荣誉称号和奖项。

通过自有技术创新，英华特在国内研发并推出了高能效双向柔性涡旋式制冷压缩机，也是我国国内早期量产涡旋式压缩机的制造商之一。公司拥有多项自主知识产权和核心技术，目前共拥有专利 41 项，其中发明专利 9 项。同时参与制定了

<GB/T22068-2018 汽车空调用电动压缩机总成>等多项国家标准及行业标准。

英华特涡旋压缩机包括定频和变频两类产品，共分为四大系列——电驱动车专用系列、热泵热水、冷冻冷藏和空调冷水机组系列，3000 多款涡旋压缩机在各种应用场景中表现优异，获得客户高度认可。

公司产品已经通过 CCC、CQC、CE、UKCA、CRAA、UL、CB、INMETRO、ISI、RoHS & Reach 等国内外产品认证，在管理方面也取得了 TÜV 的 ISO9001&ISO14001 管理体系认证。英华特产品除了在国内市场取得傲人的销售业绩外，更销售到亚洲、非洲、欧洲、南美洲等 40 多个国家和地区，致力于以创新的产品成为全球先进的气候和能源领域解决方案提供商！

英华特 INVOTECH

Suzhou Invotech Scroll Technologies Co., Ltd. was established in 2011 with headquarters located in Changshu City, Jiangsu Province. Invotech is a high-tech enterprise specializing in the research and development, manufacturing and sales of scroll compressors.

In the past ten years, the company has realized leapfrog development with continuous and rapid growth. In 2015, Invotech was awarded the national title of "High-tech Enterprise", and in 2021 was awarded the honor of national specialized, sophisticated, distinctive, and innovative "little giant" enterprise. With the development and launch of the innovative dual-compliance scroll compressor, Invotech became one of the earliest manufacturers of scroll compressor in China.

There are two main categories of Invotech scroll compressor – fixed speed and variable speed, which are divided to four application areas: Electric-Driven Scroll Compressor for Automobile (E-Compressor), Heat Pump, Refrigeration, and Air Conditioner.

There are more than 3,000 models available and the products have been sold to Asia, Africa, Europe, South America, etc.

荣誉和奖项 | 02 HONORS AND AWARDS



专利技术 | 03 TECHNOLOGIES AND PATENTS

41项
专利
 9项
发明专利

英华特拥有强大的技术创新能力，研发能力和新产品落地能力，始终保持在新产品开发、新工艺研究和产品应用探索等领域不断突破。公司拥有多项自主知识产权和核心技术，目前共拥有专利 41 项，其中发明专利 9 项。

Invotech keeps strengthening its technological innovation and product development capabilities, and currently has 41 patents authorized, including 9 invention patents.

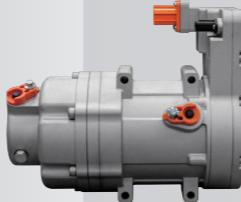
英华特涡旋产品发展历程 | 04 PRODUCT HISTORY



8大 优 势

- 1** 宽运行范围,高能效
Wide operating envelope with high efficiency
- 2** 特殊的涡旋柔性设计,保证了产品的低噪音和低振动
Innovative flexible scroll design effectively helps to reduce the noise and vibration
- 3** 高转速、大排量设计,提供充足冷量
High speed and large displacement design provides sufficient cooling capacity
- 4** 宽变频运行范围,
1500rpm~8500rpm
Broad speed ranges from 1500 RPM to 8500 RPM

- 5** 变频范围内,具有稳定高效的能效
Constant high efficiency within the speed range
- 6** 严苛的测试要求,保证了产品的高可靠性
Stringent testing conditions ensure the high reliability of the products
- 7** 多电压平台可选,包括24V、48V、
330V、600V、850V
Multi-voltage platform options, including 24V, 48V, 330V, 600V and 850V
- 8** 多排量可选,17cc~45cc
Multiple displacement options, from 17cc to 45cc

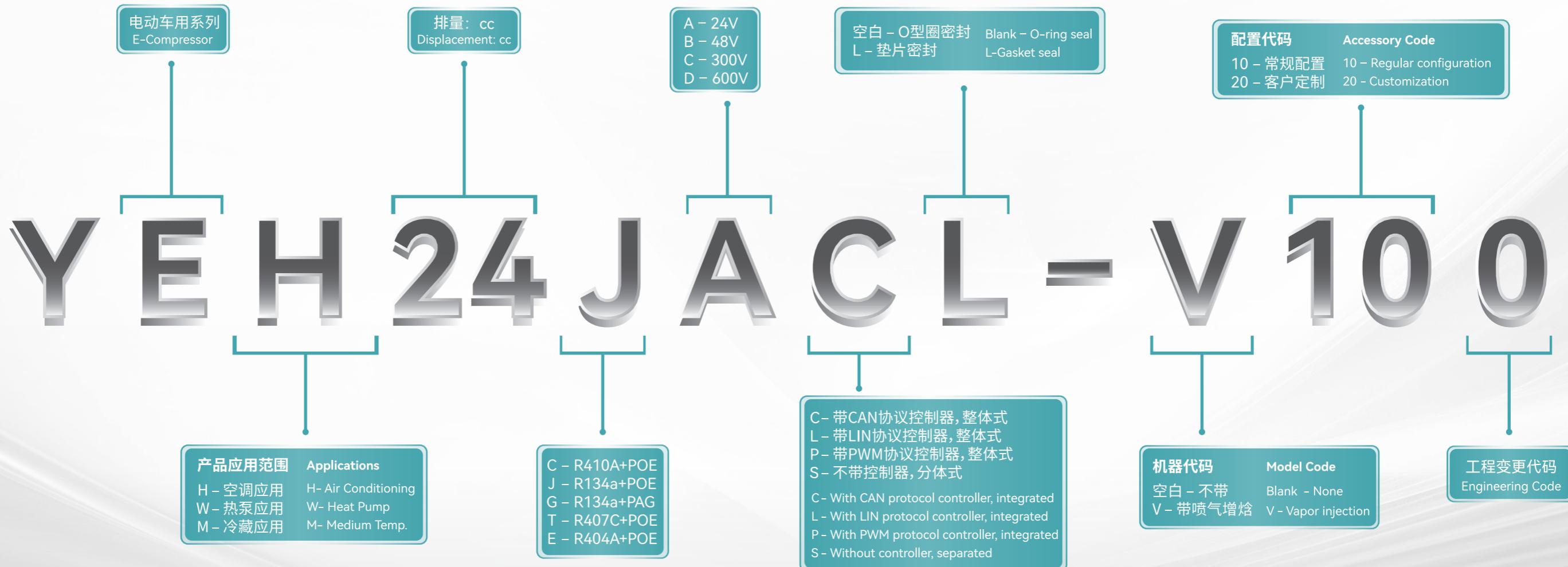


英华特电驱动车用涡旋压缩机已在中国地区和欧洲地区广泛使用，应用范围包括新能源车、工程机械、商用客车、卡车、冷冻冷藏车、物流及环卫专用车以及特种车等，满足不同类型车辆的空调、热泵以及电池组冷却系统热管理需求。

Invotech E-Compressor has been widely used in Chinese and European market, to meet the thermal management requirements of air conditioning, heat pump, and battery cooling system for different types of vehicles, such as new energy vehicle, construction machinery, commercial bus, truck, refrigerated vehicle, logistics and environmental protection vehicle, and other special vehicle.



命名规则 | 07 Nomenclature



YEH17GAPL-100

规格参数 | SPECIFICATION PARAMETERS

序号No.	规格 Specifications	参数 Parameters
1	排量 Displacement	17cc
2	制冷剂 Refrigerant	R134a/R1234yf
3	电压范围 Voltage Range	20-28V
4	最大电流 Maximum Current	40A
5	转速范围 Speed Range	1500-3450RPM
6	润滑油 Lubricating Oil	PAG46
7	注油量 Oil Volume	150ML
8	通讯协议 Communication Protocol	LIN/CAN/PWM
9	防护等级 IP Grade	IP67
10	整机重量 Weight (with oil)	6.8kg
11	吸气口直径: 按内径 Suction Port Inner Diameter	17.72
12	排气口直径: 按内径 Discharge Port Inner Diameter	11.83



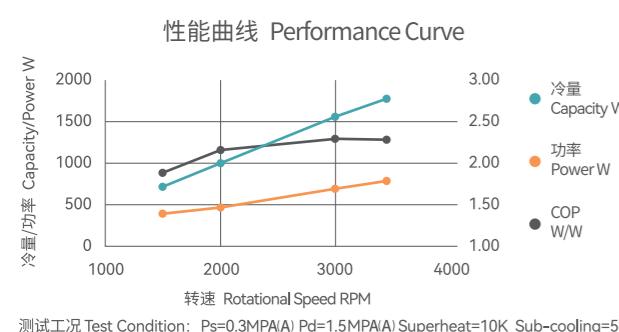
YEH17GASL-100

规格参数 | SPECIFICATION PARAMETERS

序号No.	规格 Specifications	参数 Parameters
1	排量 Displacement	17cc
2	制冷剂 Refrigerant	R134a/R1234yf
3	电压范围 Voltage Range	20-28V
4	最大电流 Maximum Current	40A
5	转速范围 Speed Range	1500-3450RPM
6	润滑油 Lubricating Oil	PAG46
7	注油量 Oil Volume	150ML
8	通讯协议 Communication Protocol	LIN/CAN/PWM
9	防护等级 IP Grade	IP21
10	整机重量 Weight (with oil)	6.7kg
11	吸气口直径: 按内径 Suction Port Inner Diameter	17.72
12	排气口直径: 按内径 Discharge Port Inner Diameter	11.83

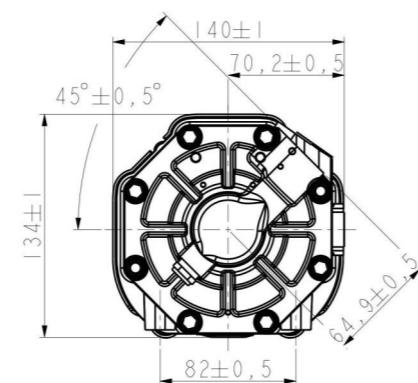
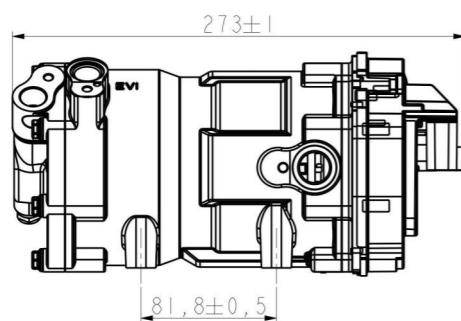


性能参数 | PERFORMANCE CURVE

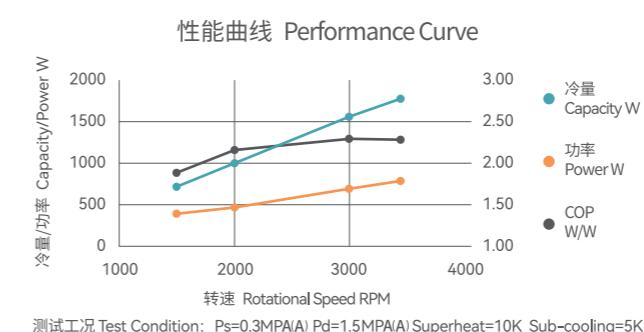


转速 Speed RPM	冷量 Capacity W	功率 Power W	COP W/W
1500	702	376	1.87
2000	977	457	2.14
3000	1533	673	2.28
3450	1743	771	2.26

外形图 | OUTLINE DRAWING

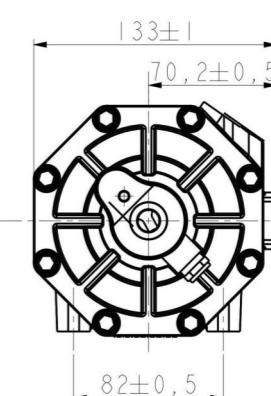
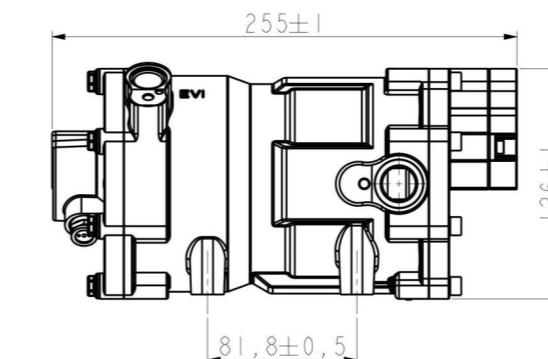


性能参数 | PERFORMANCE CURVE



转速 Speed RPM	冷量 Capacity W	功率 Power W	COP W/W
1500	691	374	1.85
2000	976	458	2.13
3000	1528	676	2.26
3450	1737	769	2.26

外形图 | OUTLINE DRAWING



YEH24GPL-100

规格参数 | SPECIFICATION PARAMETERS

序号No.	规格 Specifications	参数 Parameters
1	排量 Displacement	24cc
2	制冷剂 Refrigerant	R134a/R1234yf
3	电压范围 Voltage Range	20-28V
4	最大电流 Maximum Current	48A
5	转速范围 Speed Range	1500-3450RPM
6	润滑油 Lubricating Oil	PAG46
7	注油量 Oil Volume	150ML
8	通讯协议 Communication Protocol	LIN/CAN/PWM
9	防护等级 IP Grade	IP67
10	整机重量 Weight (with oil)	6.9kg
11	吸气口直径: 按内径 Suction Port Inner Diameter	17.72
12	排气口直径: 按内径 Discharge Port Inner Diameter	11.83



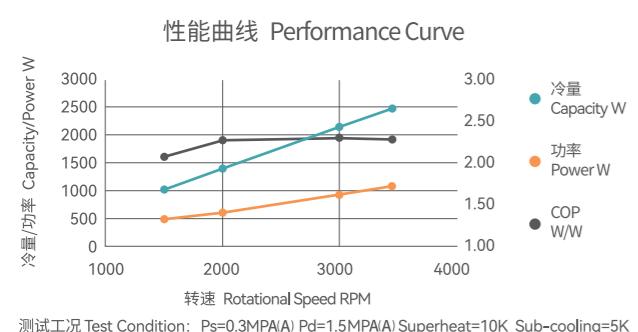
YEH32GBSL-100

规格参数 | SPECIFICATION PARAMETERS

序号No.	规格 Specifications	参数 Parameters
1	排量 Displacement	32cc
2	制冷剂 Refrigerant	R134a/R1234yf
3	电压范围 Voltage Range	36-52V
4	最大电流 Maximum Current	40A
5	转速范围 Speed Range	1500-6000RPM
6	润滑油 Lubricating Oil	PAG46
7	注油量 Oil Volume	200ML
8	通讯协议 Communication Protocol	LIN/CAN/PWM
9	防护等级 IP Grade	IP21
10	整机重量 Weight (with oil)	6.9kg
11	吸气口直径: 按内径 Suction Port Inner Diameter	18.3
12	排气口直径: 按内径 Discharge Port Inner Diameter	15.5

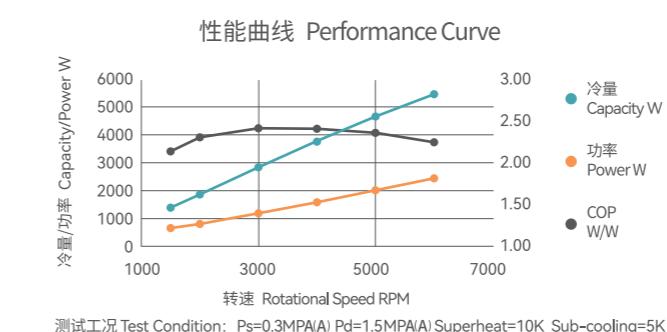


性能参数 | PERFORMANCE CURVE



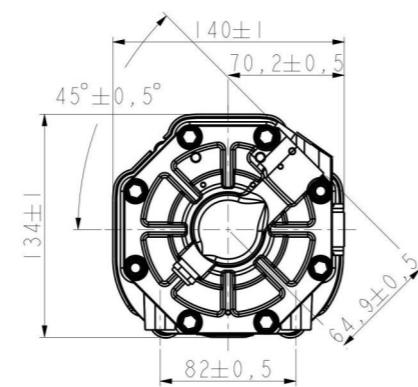
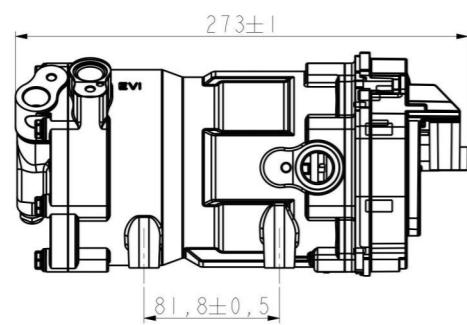
转速 Speed RPM	冷量 Capacity W	功率 Power W	COP W/W
1500	1021	493	2.07
2000	1398	616	2.27
3000	2143	932	2.3
3450	2470	1083	2.28

性能参数 | PERFORMANCE CURVE

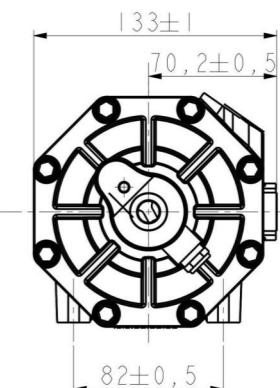
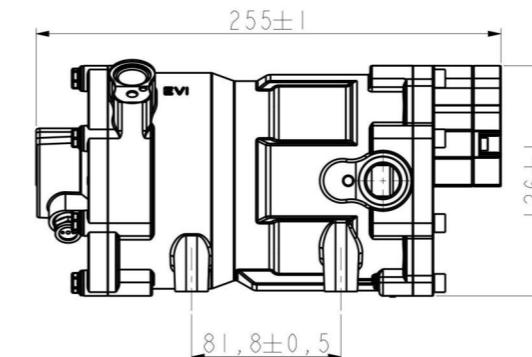


转速 Speed RPM	冷量 Capacity W	功率 Power W	COP W/W
1500	1366	643	2.12
2000	1840	803	2.29
3000	2807	1170	2.40
4000	3744	1562	2.40
5000	4615	1966	2.35
6000	5409	2415	2.24

外形图 | OUTLINE DRAWING



外形图 | OUTLINE DRAWING



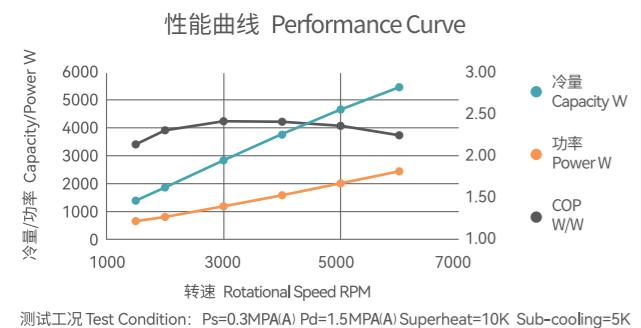
YEH32GDC-100

规格参数 | SPECIFICATION PARAMETERS



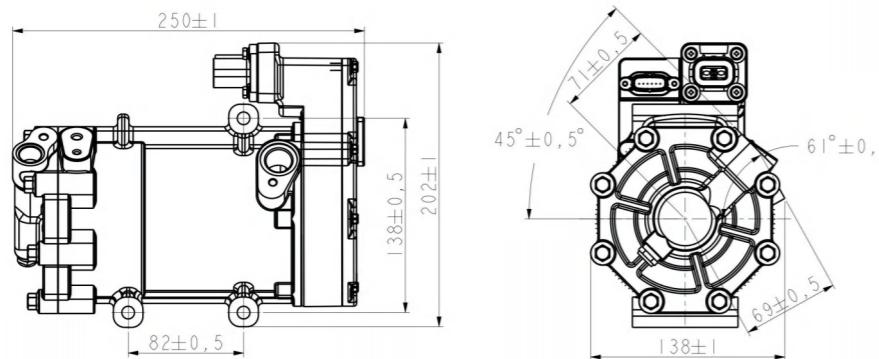
序号No.	规格 Specifications	参数 Parameters
1	排量 Displacement	32cc
2	制冷剂 Refrigerant	R134a/R1234yf
3	电压范围 Voltage Range	400-850V
4	最大电流 Maximum Current	7A
5	转速范围 Speed Range	1500-6000RPM
6	润滑油 Lubricating Oil	PAG46
7	注油量 Oil Volume	200ML
8	通讯协议 Communication Protocol	LIN/CAN/PWM
9	防护等级 IP Grade	IP68
10	整机重量 Weight (with oil)	7.9kg
11	吸气口直径: 按内径 Suction Port Inner Diameter	18.3
12	排气口直径: 按内径 Discharge Port Inner Diameter	15.5

性能参数 | PERFORMANCE CURVE



转速 Speed RPM	冷量 Capacity W	功率 Power W	COP W/W
1500	1357	637	2.13
2000	1845	800	2.31
3000	2816	1161	2.42
4000	3748	1545	2.43
5000	4615	1946	2.37
6000	5417	2393	2.26

外形图 | OUTLINE DRAWING



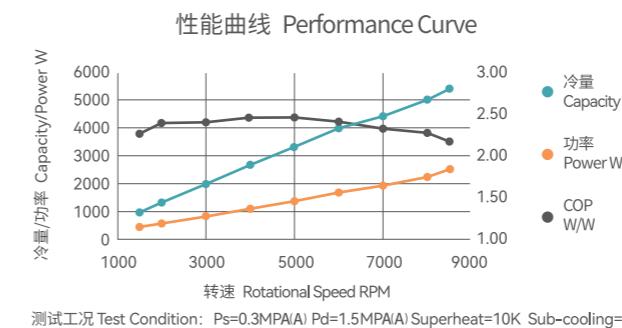
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规格参数 | SPECIFICATION PARAMETERS

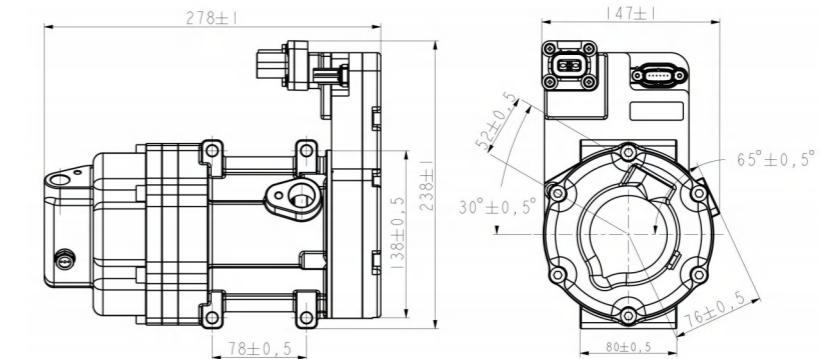


序号No.	规格 Specifications	参数 Parameters
1	排量 Displacement	45cc
2	制冷剂 Refrigerant	R134a/R1234yf
3	电压范围 Voltage Range	400-850V
4	最大电流 Maximum Current	15A
5	转速范围 Speed Range	1500-8500RPM
6	润滑油 Lubricating Oil	PAG46
7	注油量 Oil Volume	240ML
8	通讯协议 Communication Protocol	LIN/CAN/PWM
9	防护等级 IP Grade	IP68
10	整机重量 Weight (with oil)	8.9kg
11	吸气口直径: 按内径 Suction Port Inner Diameter	21.3
12	排气口直径: 按内径 Discharge Port Inner Diameter	15.5

性能参数 | PERFORMANCE CURVE



外形图 | OUTLINE DRAWING



**涡旋压缩机
专业制造者**

**Professional Manufacturer
of Scroll Compressor**

