

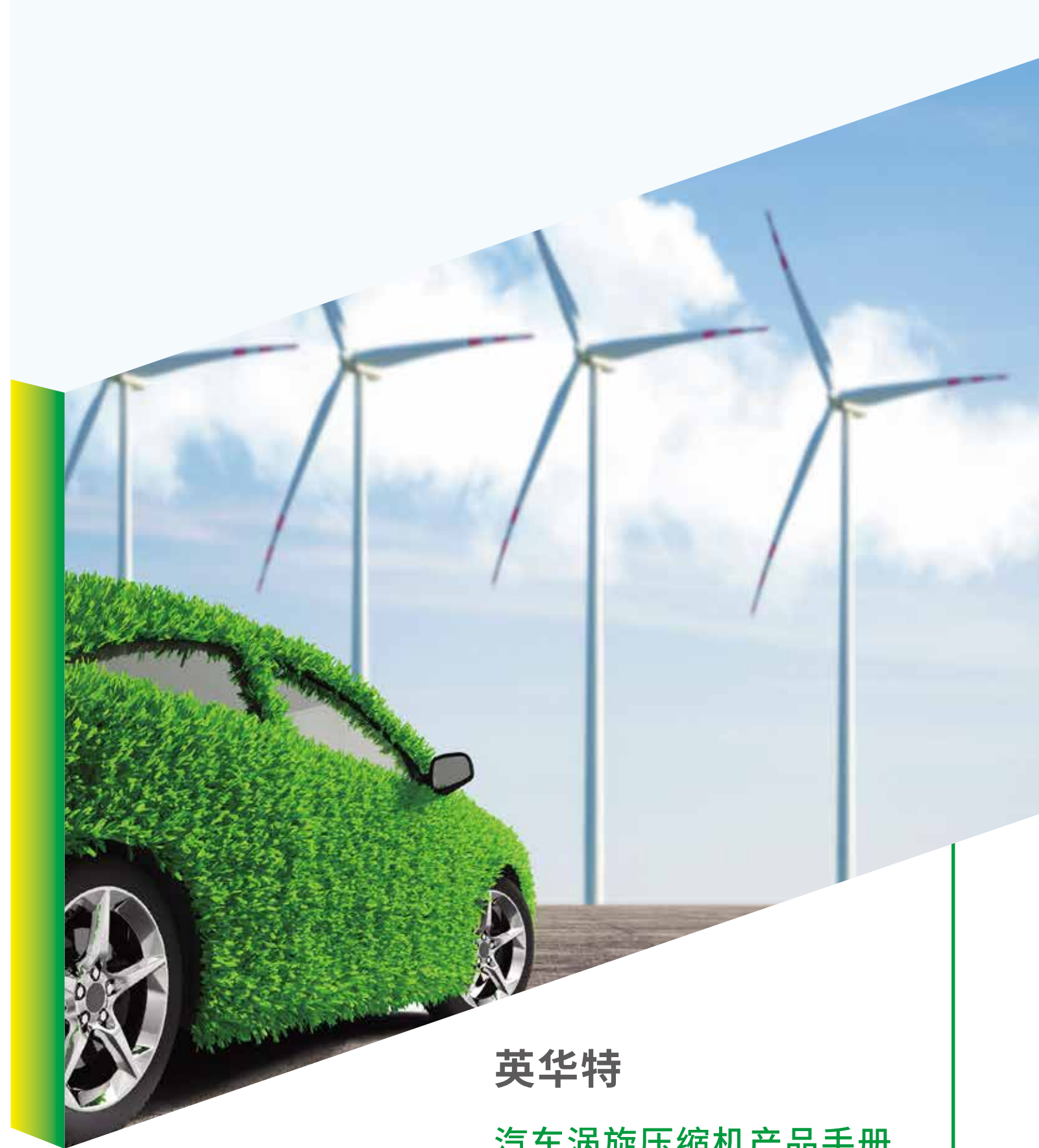


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Invotech Scroll Technologies

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英华特

汽车涡旋压缩机产品手册

Invotech E-Vehicle Scroll Compressor



苏州英华特涡旋技术有限公司

是一家专注于涡旋式制冷压缩机研发，制造和销售的高科技企业，公司荣膺2011年常熟市科技领军企业A类、2012年姑苏领军人才项目和2015年度科技部国家级创新基金荣誉，是江苏省民营科技企业，江苏省中小型科技企业，江苏省高新技术企业。

公司提供热泵热水器，冷冻冷藏产品和空调、冷水机组，汽车空调等专用涡旋式压缩机产品及相关的技术咨询服务，我们愿于客户联合开发并为客户提供Turn-Key 的整体解决方案。

我们的愿景：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。

InvoTech is a high-tech enterprise specialized in research and development, manufacturing and sales of scroll compressors for refrigeration purposes. Our company was awarded the 2011 Changshu City Science and Technology Leader's Class A, 2012 Suzhou's Leading Talent Project, and the 2015 Annual National Ministry of Science and Technology Innovation Fund Award. We are a privately owned, small and medium-sized, high technology enterprise in Jiangsu Province.

Our company provides specialized scroll compressors and related technical consulting services for heat pump water heaters, refrigeration and air conditioning, chillers, e-vehicle and other applications. We are willing to provide our customers with jointly developed or Turn-Key solutions to meet their needs.

Our vision: to become a global first class solution provider by providing innovative products for the climate and energy industries.

目录

CONTENTS

应用领域 <i>Application Area</i>	01
命名规则 <i>Nomenclature</i>	02
运行范围 <i>Operation Envelope</i>	02
技术参数 <i>Specification</i>	03
外形尺寸 <i>Dimension</i>	04



应用领域 Application Area

英华特车用直流变频涡旋压缩机, 致力于解决乘用车, 工程车, 农业机械以及驻车环境下的制冷制热需求
Specific design for vehicles developed by Invotech, the DC inverter compressor aims to solve cooling and heating for passenger vehicles, shop trucks, agricultural machinery and parking.

独特的涡旋设计, 保证超宽运行范围内的高能效比
Unique scroll design guarantees high energy efficiency even in wide operating envelope

精巧的结构设计概念, 缩减了零部件的数量, 保证可靠性
Delicate structure design not only reduces the parts but also brings high reliability

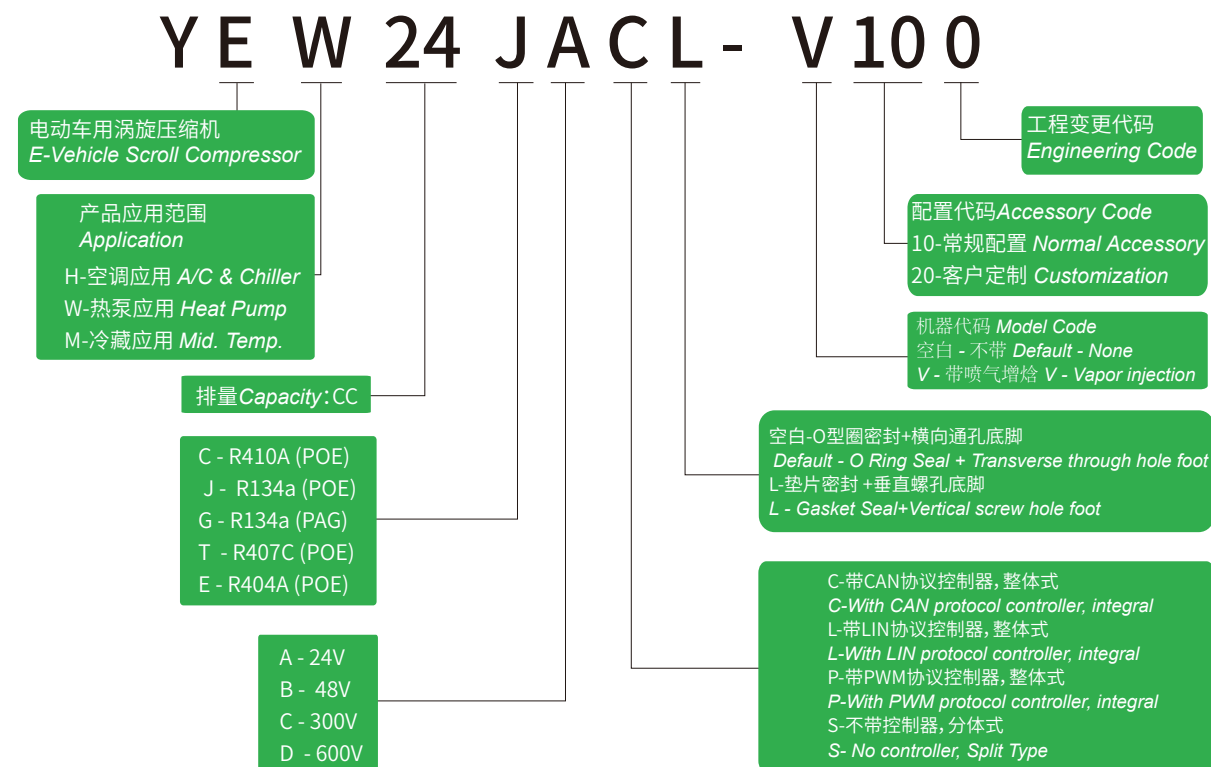
严苛的测试条件, 保证在各恶劣工况下可靠运行
Strict test condition ensures adaption to any hostile environment

整个产品平台适用电压24-750V
Adaptable voltage of whole product platform is from 24V to 750V.

排量16-32cc
Discharge capacity is from 16cc to 32cc.

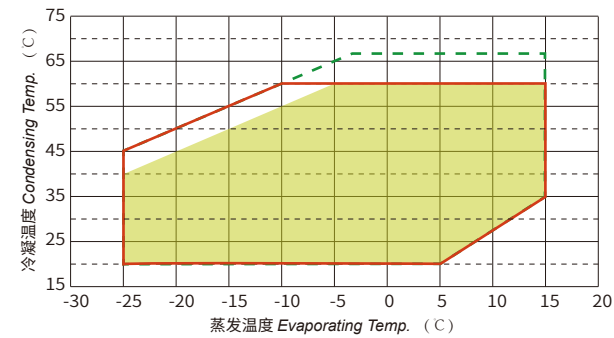


命名规则 Nomenclature



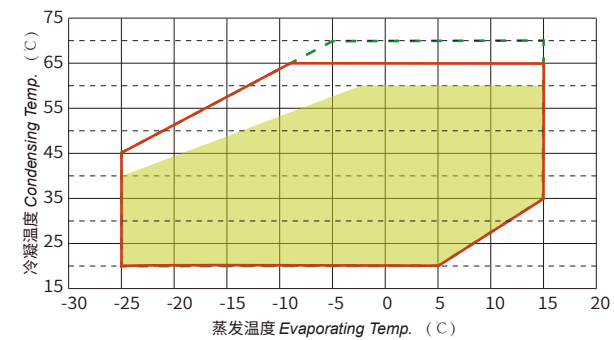
运行范围 Operation Envelope

24cc



— 1200-2000rpm - - - 2000-3000rpm — 3000-3250rpm (24V)
— 3000-3600rpm (48V)

32cc



— 1200-2000rpm - - - 2000-5400rpm — 5400-6000rpm

技术参数 Specification

型号 Model	YEW24JAP*	YEW32JBP*	YEW32JCC*	YEW32JDC*
额定电压 Rated Voltage (V)	24	48	300	600
电压范围 Rated Voltage Range (V)	18-32	36-64	200-420	400-750
转速范围 Speed Range (rpm)	1200-3250	1200-3600	1500-6000	1500-6000
通讯协议 Communication Protocol	CAN/LIN/PWM			
环境温度 Environment Temp. (°C)	-40~80			
排量 Displacement (m ³ /h)	24	32	32	32
制冷剂 Refrigerant	R134a			
名义制冷量 Cooling Capacity (W)	2600	3500	3500	3500
名义输入功率 Power Input (W)	860	1150	1130	1130
名义工况能效比 COP (W/W)	3.05	3.05	3.10	3.10
接管尺寸 Fitting Dimensions (英寸 Inch)				
排气管接管外径 Discharge Tube				15.5
吸气管接管外径 Suction Tube				18.3
EVI管接管外径 EVI Tube				15.5
外型尺寸 Product Dimensions (毫米 mm)				
长x宽x高 LxWxH (W)	270x133x126		250x133x201	
润滑油类型 Oil Type	POE/PAG			
润滑油初次充注量 Initial Charge Volume (L)	120	150	150	150
润滑油重新充注量 Recharge Volume (L)	70	100	100	100
重量 Weight (kg)	7.2	7.3	7.5	7.5

注:蒸发温度7.2°C,冷凝温度54.4°C,冷凝器出口过冷度8.3K,回气温度18.3°C
 Remarks: E.T. 7.2°C, C.T. 54.4°C, Subcooling 8.3K, R.G. 18.3°C

技术参数 Specification

▶▶▶ YEW24JA*

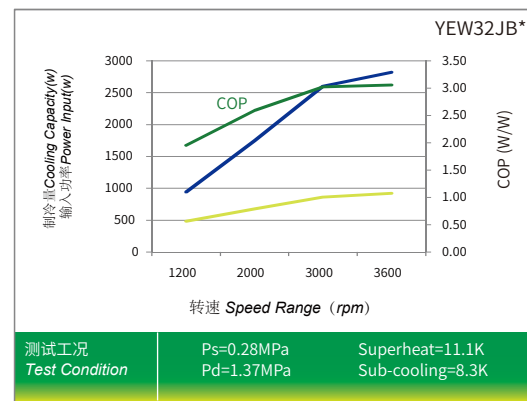
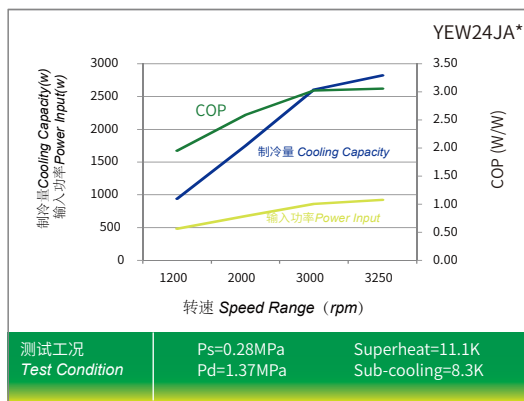
转速 Speed Range(rpm)	1200	2000	3000	3250
制冷量 Cooling Capacity(W)	940	1750	2600	2820
功率 Power Input(W)	482	675	860	922
COP(W/W)	1.95	2.60	3.05	3.06

测试工况 Test Condition: Ps=0.28MPa Pd=1.37MPa Superheat=11.1K Sub-cooling=8.3K

▶▶▶ YEW32JB*

转速 Speed Range(rpm)	1200	1500	3000	3600
制冷量 Cooling Capacity(W)	1400	2330	3500	4200
功率 Power Input(W)	718	896	1150	1373
COP(W/W)	1.95	2.60	3.05	3.06

测试工况 Test Condition: Ps=0.28MPa Pd=1.37MPa Superheat=11.1K Sub-cooling=8.3K



技术参数 Specification

▶▶▶ YEW32JC*

转速 Speed Range(rpm)	1500	2000	3000	5000	6000
制冷量 Cooling Capacity(W)	1730	2500	3500	6150	7550
功率 Power Input(W)	719	875	1130	1983	2435
COP(W/W)	2.4	2.86	3.10	3.10	3.10

测试工况 Test Condition: Ps=0.28MPa Pd=1.37MPa Superheat=11.1K Sub-cooling=8.3K

▶▶▶ YEW32JD*

转速 Speed Range(rpm)	1500	2000	3000	5000	6000
制冷量 Cooling Capacity(W)	1730	2500	3500	6150	7550
功率 Power Input(W)	719	875	1130	1983	2435
COP(W/W)	2.4	2.86	3.10	3.10	3.10

测试工况 Test Condition: Ps=0.28MPa Pd=1.37MPa Superheat=11.1K Sub-cooling=8.3K

