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**INNO-TECH**  
All about Automotive A/C Compressor

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江苏盈科 | 上海盈柯

# “ Company introduction ”

## 公司简介



江苏盈科 汽车空调有限公司成立于2004年,坐落于江苏省句容市,是一家集研发、生产、销售于一体的汽车空调压缩机生产厂家。2011年8月,工厂搬入全新的现代化的厂房,新厂房总占地面积为2万平方米,员工人数达100多人和15名高级工程师。

我们的主要产品有YK-5H, YK-7H, YK-FS10, YK-10P, YK-10S等型号,为满足市场需求我们正在开发高端的外控和变排量压缩机,例如:YK-V5, YK-6V12, YK-7V16, YK-6SEU, YK-7SEU, YK-7SBU等,产品质量可靠,100%在线受控和出厂全检。2011年我们的压缩机产销量已经达到了26万台,我们的压缩机主要出口到美国,欧洲,南美,东南亚,中东等地区,同时也供应国内市场。

Established in 2004, Jiangsu Inno-tech Auto Air Conditioner Co., Ltd is located in Zhenjiang City, Jiangsu Province, we specialize in R&D, manufacture, distribution, consultation and service of Auto Air Conditioning Compressors, In August 2011, we moved to new modernized plant which covers an area of 20,000 m<sup>2</sup>. There are more than 100 employees and 15 senior engineers.

Our main compressor series are YK-5H, YK-7H, YK-FS10, YK-10PA, YK-10S and YK-V5, YK-6V12, YK-7V16, YK-6SEU, YK-7SEU, YK-7SBU which are under development. The output of compressor in 2011 has been reached 260,000 units, all compressors are passed 100% on line control and 100% final inspection before shipment, our compressors are mainly export to the United States, Europe, South America, Southeast Asia, Middle East etc ,we also supply for domestic market.



# “ Our equipments ”

## 设备概况



江苏盈科跟踪世界最先进的技术和设备,不断的进行技术更新和改造,对客户提供更完美的质量保障。

Jiangsu Inno-Tech has been keeping on innovation on technology and equipment reforming so as to provide more perfect quality warranty.



现代化车间  
Modern workshop



立式数控加工中心  
CNC - Computerized numerical control



高精度斜导轨数控机床  
High-precision slanted guide rail numerical control machine



高精度数控机床  
high-precision numerical control machine



自动化流水线  
Automatic assembly line



浸渗设备  
Infiltration Equipment



全自动跑合机  
Full-automatic running-in machine



检漏流水线  
Leakage checking line



进口高精度斜导轨数控机床  
Imported high-precision slanted guide rail numerical control machine

# “ Our equipments ”

设备概况

## 7H15 SPECAIL ASSEMBLY LINE



固定排量斜盘式压缩机 7H15压缩机采用环保冷媒，可以与多种欧洲及美洲车型配套。

Fixed displacement Compressor 7H15 using R134a refrigerant, can fit to many type of European and American vehicle.

7H15由7个汽缸和活塞组成的摇摆式压缩机，具有重量轻、耐久好、噪声小、制冷效率高和适用面广的特点。江苏盈科引进高质量的7H15装配流水线及检测设备，及时发现生产过程中存在的问题，并将有效的纠正预防和持续改进，以高质量的产品及服务努力满足客户的全部需求。

7H15 is a swing type compressor composed of 7 cylinders and pistons. It is characterized with light in weight, long in life, low in noise, high in performance and wide in applications. Jiangsu Inno-Tech introduced high-quality 7H15 assembly line and test equipment which can discover the existing problems in the production process timely. To effect corrective and preventive continuous improvement so as to meet all the needs of the customers with high quality products and services.



汽车空调压缩机出厂测试台  
Compressor on line testing bench

## 7H15

装配流水线



# “ Quality & Research ”

质量与研发

## 质量控制

### QUALITY CONTROL



性能测试台  
Performance test bench

为保证我们持续生产并交付的产品符合与客户约定的产品规格，所有产品在最终交付之前都必须经过严格的检查和测试，保证产品100%在线受控和100%出厂全检。

In order to keep compliance with customers' requirement, all products must be checked on line and pass the final test before delivery. We guarantee our products 100% under on line control and 100% approved in final test.



寿命测试台  
Life span test bench



投影仪  
Projector



布洛维光学硬度计  
The Buraway Optical Hardness Tester

自动转塔显微硬度计  
The automatic turret microhardness meter

高度测量仪  
Height measuring instrument

偏摆仪  
Deflection instrument

持续性的质量控制，力争0%的不良产品率，盈科不断提升竞争力。  
Continuous quality control for a zero defect product, Inno-tech's competitiveness is improving.

## 检测手段

### INSPECTION MEASURES

江苏盈科建立一整套有效的产品检测体系，拥有先进的检测器具和设备，确保从原材料购入至成品产出全过程的监控。

Jiangsu Inno-Tech has established an entire effective product inspection system. The advanced inspection equipment from abroad ensures our products under full process of monitoring from raw material sourcing to final product test.



三坐标  
CMM



化学分析仪  
Chemical analysis apparatus



密度检测仪  
Density measurer apparatus

## 专业研发

### PROFESSIONAL R&D

我们提供一整套技术和产品研发的综合服务，从空调系统运作理论研究到零部件运转条件，都能凭我们研发团队的技术及经验来提供必要的的数据并给汽车空调系统设计或改善提供参考。客户只需提出设计理念，技术要求，产品规格，我们就会在最短的时间内给出全面的解决方案；客户给出参考的样品，我们会在第一时间里设计出技术图纸供客户确认，并在最短的时间内生产出样品。

We provide a full set of complex service in technology and product R&D. With our team's experience and technic, we can provide necessary data reference or air conditioning system improvement solution. What customer need to do is just raise design idea, technical requirement and specification, we will present out comprehensive solution. When customer provide reference sample, we will give out technical drawing in first hour for approval and counter sample can be presented soonest.



# “ Overseas sales ”

海外销售



为了更好地更及时的服务于客户，贸易公司上海盈柯汽车配件有限公司于2009年在上海成立，依托自身成熟的生产及采购体系，凭借中国制造的传统优势，利用专业的贸易团队，为客户和厂家架起了一道坚实的桥梁，更直接地为客户提供专业周到的服务。热忱欢迎该行业国内外朋友的联系和参观，让我们共同致力于全球汽车配件售后市场的发展。

In order to offer better service for customers, Our sales company shanghai Inno-tech Auto Parts Co.,Ltd. established in 2009, We are dedicated to supply high quality product and service for the global automotive market through our advanced production system, convenient sourcing network and professional international trading team. Welcome our friends all over the world to contact and visit us.



凭借良好的质量，合理的价格以及优质的服务，我们的产品在国外市场上赢得了广泛赞誉，每年80%的产品出口到南美，中东，南亚等国际市场，并且每年需求量都在持续的增加。

With good quality, competitive price and high quality service, our products has won a wildspread praise in overseas market, 80% of an annual exports to South America, the Middle East, South Asia and other international market, And the demands were steadily increased year by year.

# “ Supply chain ”

供应链



盈科作为在汽车配件行业运营多年的企业，我们深切地体会到市场日益全球化以及个性化的消费需求，这对整个供应链条管理提出新的挑战。

With many years experience in Auto Parts industry, Inno-tech realize the challenges posed by the globalization and personalized consumer needs on management of supply chain.



我们主要通过对采购、生产计划、销售，物流、服务等的管理来完善我们的供应链体系。我们最终的目标是要将顾客所需的正确的产品（Right Product）能够在正确的时间（Right Time）、按照正确的数量（Right Quantity）、正确的质量（Right Quality）和正确的状态（Right Status）送到正确的地点（Right Place），并使总成本达到最佳化。

We mainly through managing the purchase, produce, sales, logistics and service to perfect our supply system. And our ultimate goal is to provide our customers with right product in right time, right quantity, right quality and right status, and to make the total cost the most effective.



供应链全球化运作的丰富经验，让我们更快更安全地将产品交付到世界各地的客户手中。

Our expert experience in global supply chain ensures our products delivered to customers safely and in time.

Innovation never ends,  
Technology Ever leads.

创新永恒，科技先行。

# “ Main production ”

主要产品

## 5 SERIES COMPRESSOR



YK-5H09



YK-5H11

| 型号 Model                                   | YK-5H09 | YK-5H11 | YK-5H14 | YK-5H16 |
|--|---------|---------|---------|---------|
| 制冷剂 Refrigerant                            | R134a   | R134a   | R134a   | R134a   |
| 缸数 Number of Cylinders                     | 5       | 5       | 5       | 5       |
| 缸径/mm Bore(mm)                             | 35      | 35      | 35      | 36      |
| 冲程/mm Stroke(mm)                           | 18      | 22.6    | 28.6    | 31.6    |
| 排量/(cm³/r) Displacement(cc)                | 87      | 108     | 138     | 161     |
| 最高瞬时转速 (r/min) Max. Downshift Speed (RPM)  | 7000    | 7000    | 7000    | 7000    |
| 最高连续转速 (r/min) Max. Continuous Speed (RPM) | 6000    | 6000    | 6000    | 6000    |
| 润滑油 Oil                                    | 5G5     | 5G5     | 5G5     | 5G5     |
| 质量/kg N.W(kg)                              | 3.7     | 4.7     | 4.8     | 5.1     |
| 额定电压(V) 直流(A) Rated Voltage (V)            | 12/24   | 12/24   | 12/24   | 12/24   |
| 静脱离转矩 Nm Breakaway Torque(N·M)             | 24.5    | 34.3    | 34.3    | 34.3    |
| 消耗功率/Wmax Power Consumption (W)            | 45      | 45      | 45      | 45      |
| 最高瞬时转速 (r/min) Max. Downshift Speed (RPM)  | 7000    | 7000    | 7000    | 7000    |
| 最高连续转速 (r/min) Max. Continuous Speed (RPM) | 6000    | 6000    | 6000    | 6000    |
| 质量/kg N.W(kg)                              | 2.2     | 2.4     | 2.8     | 2.8     |

压缩机 Compressor

离合器 Clutch



YK-5H14



YK-5H16

## 7V16 COMPRESSOR



| 型号 Model                                   | YK-7V16  |
|--|----------|
| 制冷剂 Refrigerant                            | R134a    |
| 缸数 Number of Cylinders                     | 7        |
| 缸径/mm Bore(mm)                             | 29.3     |
| 冲程/mm Stroke(mm)                           | 2.1-28.2 |
| 排量/(cm³/r) Displacement(cc)                | 10-160   |
| 最高瞬时转速 (r/min) Max. Downshift Speed (RPM)  | 8000     |
| 最高连续转速 (r/min) Max. Continuous Speed (RPM) | 7000     |
| 润滑油 Oil                                    | PAG46    |
| 额定电压(V) 直流(A) Rated Voltage (V)            | 12/24    |

基本参数 Basic Parameter

## 7 SERIES COMPRESSOR



YK-7H15



YK-7H13



YK-7H13

| 型号 Model                                   | YK-7H15 | YK-7H15 | YK-7H13 | YK-7B10 |
|--|---------|---------|---------|---------|
| 制冷剂 Refrigerant                            | R134a   | R134a   | R134a   | R134a   |
| 缸数 Number of Cylinders                     | 7       | 7       | 7       | 7       |
| 缸径/mm Bore(mm)                             | 29.3    | 29.3    | 29.3    | 25.4    |
| 冲程/mm Stroke(mm)                           | 32.8    | 32.8    | 27.4    | 28.1    |
| 排量/(cm³/r) Displacement(cc)                | 154.9   | 154.9   | 129.2   | 99.8    |
| 最高瞬时转速 (r/min) Max. Downshift Speed (RPM)  | 8000    | 8000    | 8000    | 8000    |
| 最高连续转速 (r/min) Max. Continuous Speed (RPM) | 6000    | 6000    | 6000    | 6000    |
| 润滑油 Oil                                    | POE     | POE     | POE     | POE     |
| 质量/kg N.W(kg)                              | 4.8     | 4.8     | 4.5     | 2.8     |
| 额定电压(V) 直流(A) Rated Voltage (V)            | 12/24   | 12/24   | 12/24   | 12/24   |
| 静脱离转矩 Nm Breakaway Torque(N·M)             | 34.3    | 34.3    | 31.4    | 24      |
| 消耗功率/Wmax Power Consumption (W)            | 49      | 49      | 49      | 42      |
| 最高瞬时转速 (r/min) Max. Downshift Speed (RPM)  | 8000    | 8000    | 8000    | 8000    |
| 最高连续转速 (r/min) Max. Continuous Speed (RPM) | 6000    | 6000    | 6000    | 6000    |
| 质量/kg N.W(kg)                              | 2.4     | 2.4     | 2.4     | 1.6     |

压缩机 Compressor

离合器 Clutch

## 7B10 COMPRESSOR



## 10PA SERIES COMPRESSOR



YK-10PA15C



YK-10PA15C



YK-10PA17C



YK-10PA17C

| 型号 Model                                      | YK-10PA15C | YK-10PA15C | YK-10PA17C | YK-10PA17C |
|---|------------|------------|------------|------------|
| 制冷剂<br>Refrigerant                            | R134a      | R134a      | R134a      | R134a      |
| 缸数<br>Number of Cylinders                     | 10         | 10         | 10         | 10         |
| 缸径/mm<br>Bore(mm)                             | 29.3       | 29.3       | 29.5       | 29.5       |
| 冲程/mm<br>Stroke(mm)                           | 22.7       | 22.7       | 26         | 26         |
| 排量/(cm <sup>3</sup> /r)<br>Displacement(cc)   | 155        | 155        | 178        | 178        |
| 最高瞬时转速 (r/min)<br>Max. Downshift Speed (RPM)  | 7000       | 7000       | 7000       | 7000       |
| 最高连续转速 (r/min)<br>Max. Continuous Speed (RPM) | 6000       | 6000       | 6000       | 6000       |
| 润滑油<br>Oil                                    | PAG        | PAG        | PAG        | PAG        |
| 质量/kg<br>N. W (kg)                            | 7.6        | 7.6        | 7.8        | 7.8        |
| 额定电压(V)/直流(A)<br>Rated Voltage (V)            | 12/24      | 12/24      | 12/24      | 12/24      |

基本参数 Basic Parameter

## 10S SERIES COMPRESSOR



YK-10S11C



YK-10S15C



YK-10S17C

| 型号 Model                                      | YK-10S11C | YK-10S15C | YK-10S17C |
|---|-----------|-----------|-----------|
| 制冷剂<br>Refrigerant                            | HFC134a   | R134a     | HFC134a   |
| 缸数<br>Number of Cylinders                     | 10        | 10        | 10        |
| 缸径/mm<br>Bore(mm)                             | 28.5      | 32        | 32        |
| 冲程/mm<br>Stroke(mm)                           | 18.3      | 20.8      | 23.38     |
| 排量/(cm <sup>3</sup> /r)<br>Displacement(cc)   | 166       | 167       | 188       |
| 最高瞬时转速 (r/min)<br>Max. Downshift Speed (RPM)  | 7000      | 7000      | 7000      |
| 最高连续转速 (r/min)<br>Max. Continuous Speed (RPM) | 6000      | 6000      | 6000      |

基本参数 Basic Parameter

## 10P08E SERIES COMPRESSOR



| 型号 Model                                      | YK-10P08E |
|---|-----------|
| 制冷剂<br>Refrigerant                            | R134a     |
| 缸数<br>Number of Cylinders                     | 10        |
| 缸径/mm<br>Bore(mm)                             | 25        |
| 冲程/mm<br>Stroke(mm)                           | 15.49     |
| 排量/(cm <sup>3</sup> /r)<br>Displacement(cc)   | 76        |
| 最高瞬时转速 (r/min)<br>Max. Downshift Speed (RPM)  | 7000      |
| 最高连续转速 (r/min)<br>Max. Continuous Speed (RPM) | 6000      |
| 润滑油<br>Oil                                    | PAG       |
| 质量/kg<br>N. W (kg)                            | 4.5       |
| 额定电压(V)/直流(A)<br>Rated Voltage (V)            | 12        |

基本参数 Basic Parameter

| 型号 Model                                      | YK-FS10 |
|---|---------|
| 制冷剂<br>Refrigerant                            | R134a   |
| 缸数<br>Number of Cylinders                     | 10      |
| 缸径/mm<br>Bore(mm)                             | 29      |
| 冲程/mm<br>Stroke(mm)                           | 25.7    |
| 排量/(cm <sup>3</sup> /r)<br>Displacement(cc)   | 170     |
| 最高瞬时转速 (r/min)<br>Max. Downshift Speed (RPM)  | 7000    |
| 最高连续转速 (r/min)<br>Max. Continuous Speed (RPM) | 6000    |
| 质量/kg<br>N. W (kg)                            | 6.8     |
| 额定电压(V)/直流(A)<br>Rated Voltage (V)            | 12/24   |

基本参数 Basic Parameter



## FS10 COMPRESSOR

## V5 COMPRESSOR



| 型号 Model                                      | YK-V5              |
|---|--------------------|
| 适配车型<br>Car Model                             | Daewoo Espero91-99 |
| 制冷剂<br>Refrigerant                            | R134a              |
| 缸数<br>Number of Cylinders                     | 5                  |
| 缸径/mm<br>Bore(mm)                             | 36.1               |
| 冲程/mm<br>Stroke(mm)                           | 30.6               |
| 排量/(cm³/r)<br>Displacement(cc)                | 10-156             |
| 最高瞬时转速 (r/min)<br>Max. Downhill Speed (RPM)   | 7500               |
| 最高连续转速 (r/min)<br>Max. Continuous Speed (RPM) | 6500               |
| 润滑油<br>Oil                                    | XP-5PAG            |
| 质量/kg<br>N. W(kg)                             | 6.6                |
| 额定电压(V)/直流(A)<br>Rated Voltage(V)             | 12                 |

基本参数 Basic Parameter



| 型号 Model                          | YK-V5          |
|-----------------------------------|----------------|
| 适配车型<br>Car Model                 | Chevrolet Aveo |
| 皮带轮槽数<br>Number of Grooves        | 6              |
| 皮带轮直径(mm)<br>Diameter of clutch   | 120            |
| 额定电压(V)/直流(A)<br>Rated Voltage(V) | 12             |
| 制冷剂<br>Refrigerant                | R134a          |

基本参数 Basic Parameter



| 型号 Model                          | YK-V5            |
|-----------------------------------|------------------|
| 适配车型<br>Car Model                 | Chevrolet Tacuma |
| 皮带轮槽数<br>Number of Grooves        | 6                |
| 皮带轮直径(mm)<br>Diameter of clutch   | 132              |
| 额定电压(V)/直流(A)<br>Rated Voltage(V) | 12               |
| 制冷剂<br>Refrigerant                | R134a            |

基本参数 Basic Parameter

## 6SEU12C COMPRESSOR



| 型号 Model                          | YK-7SEU16C |
|-----------------------------------|------------|
| 适配车型<br>Car Model                 | M. Benz    |
| 皮带轮槽数<br>Number of Grooves        | 6          |
| 皮带轮直径(mm)<br>Diameter of clutch   | 110        |
| 额定电压(V)/直流(A)<br>Rated Voltage(V) | 12         |
| 制冷剂<br>Refrigerant                | R134a      |

基本参数 Basic Parameter

## 7SEU16C COMPRESSOR



| 型号 Model                          | YK-7SEU16C |
|-----------------------------------|------------|
| 适配车型<br>Car Model                 | BMW        |
| 皮带轮槽数<br>Number of Grooves        | 5          |
| 皮带轮直径(mm)<br>Diameter of clutch   | 110        |
| 额定电压(V)/直流(A)<br>Rated Voltage(V) | 12         |
| 制冷剂<br>Refrigerant                | R134a      |

基本参数 Basic Parameter

## 7SEU17C COMPRESSOR



| 型号 Model                          | YK-7SEU17C |
|-----------------------------------|------------|
| 适配车型<br>Car Model                 | M. Benz    |
| 皮带轮槽数<br>Number of Grooves        | 6          |
| 皮带轮直径(mm)<br>Diameter of clutch   | 100        |
| 额定电压(V)/直流(A)<br>Rated Voltage(V) | 12         |
| 制冷剂<br>Refrigerant                | R134a      |

基本参数 Basic Parameter