TS Series

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Introduction

Ever since the establishment of Fu Sheng Group in 1953, we have grown into a globally recognized manufacturer of high-quality compressors and has already become a professional and world-famous compressor related solutions provider.

In 1988, Fu Sheng has successfully introduced the first-generation Semi-Hermetic Screw Compressor and latest BSR series in 2005, the reliability and quality of Fu Sheng refrigerant compressors are highly acknowledged by users in all industries. Lately, we also expand our product range to launch the research and production of Semi-Hermetic Scroll Compressors. All series of scroll compressor, from capacity of 9 RT to 25RT, could be applied to broad ranges, such as all types of chillers, package, heat pump, water heater, ice maker, dryer, condensing unit and so forth. Moreover, our semi-hermetic scroll compressor could replace the application of hermetic type scroll.

With continuous improvement in quality and reliability, Fu Sheng has been proud of introducing the new generation of scroll compressor, TS series. This series is also widely applied to variety A/C system, including water-cooled chiller, air-cooled chiller, heat pump and so forth. New TS series not only inherit the same excellent performance in low noise and vibration as GS series but also the smaller size of compressor will be easier for installation and space saving.

Superior quality, maximum performance and excellent reliability are Fu Sheng’s priority and commitment to customers. The policy of "Striving for customers' confidence" is in creating the perfect solution for their inquiries. The TS series was granted many international and domestic certificates such as ISO9001 (2000), UL, CE, WEEE and other important authentication.
**Characteristics of the Products and Advantages**

1. Excellent design
   - Patented scroll design, efficiency is over 95%
   - Customized design with appropriate motor and volume ratio
   - Accuracy and stable quality

2. Patented design for internal flow passage
   - Excellent design in flow passage and low pressure drop
   - Increase the efficiency of oil-air separation, quantity of oil-throw is less than 1.5%
   - Excellent performance in the efficiency of motor cooling

3. Patented design in compliant mechanism
   - Outstanding performance in efficiency and operating scope
   - Better ability for liquid compression

4. Long-life bearing design
   - Highly accurate design for roller bearing
   - Heavy duty design of high reliability

5. High-efficiency motor
   - High-efficiency squirrel-cage electrical motor
   - Built-in PTC temperature protection
   - Optional start-up modes: Y-△ or D.O. L

6. Considerate and practical accessories
   - Oil sight glass
   - Oil heater
   - Lubricant filter
   - Independent oil returning and draining adaptor
   - Screw-in suction and discharge flange

7. Widespread applications
   - Compatible for R22, R134a and R407C refrigerants
   - Applied in water-cooled, air-cooled chillers and heat pump

8. Compact design
   - Multiple modes for different applications
   - Low vibration and low noise
   - Optimized compressor size, easy for installation

9. Product test and reliability
   - 100% performance test to guarantee quality
   - High quality, high reliability with high efficiency

10. Multiple international certificate in quality and product safety
    - TUV RHINELAND - TAIWAN
    - CE Mark
    - ISO 9001:2000
    - WEEE, 2002/96/EC

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**Design of main structure**

- Built-in check valve in discharge end
- Axial compliant mechanism
- Compression mechanism
- Power driving and radial compliant mechanism
- Patented built-in oil-return passage

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**Professional with high quality**

- Professional manufacture team with advanced technology and equipments.
- It fulfills the inquiries of high quality and stability from customers.

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**Range of operation**

- Diagrams showing the range of operation for different series.