

Service First COM08290_ver4

Service First OEM 9.3 TON Compressor User Manual

Model: COM08290_ver4

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Service First OEM 9.3 TON 208/230/60/3 Compressor. Please read this manual thoroughly before installation or operation.

This compressor is an American Standard / Trane OEM / Service First Unit Specific Component, designed for various American Standard & Trane Systems.

2. SAFETY INFORMATION

Always observe all local and national electrical and safety codes. Installation and servicing should only be performed by qualified personnel.

- **Electrical Hazard:** Disconnect power before servicing.
- **High Pressure:** Refrigerant systems operate under high pressure. Use appropriate safety equipment.
- **Hot Surfaces:** Compressor surfaces can become hot during operation. Allow to cool before handling.
- **Proper Lifting:** This unit is heavy (400 Pounds). Use proper lifting techniques and equipment to prevent injury.

3. SETUP AND INSTALLATION

The Service First OEM 9.3 TON Compressor is designed for permanent mounting. Ensure the mounting surface is stable and level.

3.1 Unpacking

Carefully remove the compressor from its packaging. Inspect for any shipping damage. Report any damage to the carrier immediately.



Figure 1: Front view of the Service First 9.3 TON Compressor. This image shows the main body of the compressor, which is cylindrical with a domed top, and features two copper pipe connections for refrigerant lines and an electrical connection box on the side.

3.2 Electrical Connections

This compressor operates on 208/230V, 60Hz, 3-phase power. Ensure the power supply matches these specifications. All wiring must comply with local and national electrical codes.

3.3 Refrigerant Line Connections

The compressor features braze sweat connections. Use proper brazing techniques to connect refrigerant lines, ensuring a leak-free system. This unit uses Mineral Oil (OIL00042).



Figure 2: An illustrative stamp indicating "TRANE OEM Component". This image signifies the authenticity and origin of the compressor as an Original Equipment Manufacturer part for Trane systems.

4. OPERATING INSTRUCTIONS

Once installed and all connections are secure and leak-tested, the compressor is ready for operation as part of the HVAC system. Refer to the overall system's user manual for specific operational sequences.

- Ensure proper refrigerant charge according to system specifications.
- Monitor system pressures and temperatures during initial startup.
- Verify correct rotation of the compressor motor (for 3-phase units).

5. MAINTENANCE

Regular maintenance is crucial for the longevity and efficiency of the compressor. Always disconnect power before performing any maintenance.

5.1 Routine Checks

- Inspect electrical connections for tightness and signs of overheating.
- Check refrigerant lines for leaks.
- Monitor oil level and quality if applicable to the system design.

5.2 Cleaning

Keep the compressor and surrounding area clean and free of debris to ensure proper heat dissipation.

6. TROUBLESHOOTING

This section provides general guidance for common issues. For complex problems, contact a qualified HVAC technician.

Problem	Possible Cause	Solution
Compressor not starting	No power, faulty wiring, control issue, thermal overload	Check power supply, inspect wiring, consult system controls, allow compressor to cool
Low cooling capacity	Low refrigerant charge, restricted airflow, dirty coils, compressor inefficiency	Check for leaks and recharge, clean coils, inspect fan operation, consult technician
Unusual noise	Loose mounting, internal mechanical issue, liquid slugging	Check mounting bolts, consult technician for internal issues, ensure proper superheat

7. SPECIFICATIONS

Model Number: COM08290_ver4

Brand: Service First

Capacity: 9.3 TON

Voltage: 208/230V

Frequency: 60Hz

Phase: 3-Phase

Connections: Braze Sweat

Oil Type: Mineral Oil (OIL00042)

Product Dimensions: 48 x 48 x 48 inches

Weight: 400 Pounds

Mounting Type: Permanent Mount

Material: Metal

Shape: Rectangular

Date First Available: December 3, 2020

8. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your specific HVAC system or contact Service First directly. As an OEM component, warranty terms may be tied to the complete system.




For technical support or service inquiries, please contact your authorized Service First dealer or a qualified HVAC professional.



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This manual is for informational purposes only. Specifications are subject to change without notice.

Related Documents - COM08290_ver4

<p>Installation and Operations Manual</p> <p>Single Packaged Heat Pump 13 & SEER2 Convertible, 2 - 5 Ton</p>  <p>A Safety Warning</p> <p>18-004121-1A-EN</p>	<p>Installation and Operations Manual for Single Packaged Heat Pumps (2-5 Ton)</p> <p>This manual provides comprehensive instructions for the installation, operation, and maintenance of Trane and American Standard Single Packaged Heat Pumps, models 4WCC4024E1000A through 4WCC4060E1000A. It covers safety precautions, unit specifications, installation procedures (ground level and rooftop), startup, troubleshooting, and maintenance guidelines.</p>
<p>General Service Bulletin</p> <p>CSHA-SB-2B</p> <p>Subject: Replacement of CSHS Compressors with CSHA Compressors</p> <p>Contents:</p> <ul style="list-style-type: none"> 1. Introduction 2. Scope 3. References 4. Definitions 5. Procedures 6. Parts List 7. Diagrams 8. Notes 9. Appendix 10. Revision History <p>18-004121-1A-EN</p>	<p>CSHA Compressor Replacement Guide for Trane & American Standard HVAC Systems</p> <p>Comprehensive service bulletin detailing the replacement of CSHS compressors with CSHA models in Trane and American Standard HVAC units. Covers installation, parts, electrical, and oiling procedures for technicians.</p>
<p>Service Facts</p> <p>Single Packaged Cooling/Electric Heat</p>  <p>A Safety Warning</p> <p>A5PA3042A-SF-1A-EN</p>	<p>Trane A5PA3042A Single Packaged Cooling Electric Heat Service Facts</p> <p>Service Facts document for the Trane A5PA3042A single packaged cooling and electric heat unit, including safety warnings, product specifications, sequence of operation, pressure curves, wiring diagrams, refrigerant circuits, troubleshooting, and important product information.</p>
<p>Service Facts</p> <p>Single Packaged Heat Pump</p>  <p>A Safety Warning</p> <p>A5PH3036A-SF-1A-EN</p>	<p>Service Facts: A5PH3036A1000A Single Packaged Heat Pump</p> <p>Comprehensive service facts, specifications, safety warnings, wiring diagrams, operational sequences, maintenance, and troubleshooting for the A5PH3036A1000A Single Packaged Heat Pump by Trane/American Standard.</p>
<p>OUTDOOR SPLIT SYSTEM HEAT PUMP</p> <p>INSTALLATION INSTRUCTIONS</p> <p>IMPORTANT</p> <p>1. Read and understand all instructions before attempting installation.</p> <p>2. Verify that the unit is rated for the application and location.</p> <p>3. Follow all local, state, and federal codes and regulations.</p> <p>4. Ensure proper clearances and ventilation.</p> <p>5. Use proper wiring and electrical connections.</p> <p>6. Follow the sequence of operation and start-up procedures.</p> <p>7. Perform regular maintenance and inspections.</p> <p>8. Contact a qualified technician for any issues or questions.</p> <p>SH3BF4M2SX Series</p>	<p>Outdoor Split System Heat Pump Installation Instructions - SH3BF4M2SX Series</p> <p>Comprehensive installation guide for Nortek Global HVAC outdoor split system heat pumps, model series SH3BF4M2SX (2-5 Ton). Covers safety, electrical wiring, refrigerant charging, start-up procedures, and maintenance.</p>
<p>General Service Bulletin</p> <p>CSHB Scroll Compressor Retrofit with Crankcase Heaters</p> <p>18-004121-1A-EN</p>	<p>Trane American Standard CSHB Scroll Compressor Retrofit with Crankcase Heaters Service Bulletin</p> <p>This service bulletin from Trane and American Standard details the recommended retrofit of crankcase heaters for CSHB scroll compressors in light commercial rooftop units, addressing flooded starting conditions and oil dilution issues. Includes kit information and applicable model numbers.</p>