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REPORSHOP HMK12AA

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Model: HMK12AA (PK104292)

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your REPORSHOP Secop HMK12AA refrigeration compressor. Please read this manual thoroughly before attempting to install or operate the unit. Retain this manual for future reference.

2. SAFETY INFORMATION

WARNING: Risk of electric shock and injury. Installation and servicing should only be performed by qualified personnel.

- Always disconnect power before servicing the compressor.
- Ensure proper grounding to prevent electrical hazards.
- Refrigerants can be hazardous. Handle with care and ensure adequate ventilation.
- Wear appropriate personal protective equipment (PPE) such as safety glasses and gloves.
- Do not operate the compressor if it is damaged or malfunctioning.
- Refer to local codes and regulations for installation and disposal of refrigeration equipment.

3. PRODUCT OVERVIEW

The REPORSHOP Secop HMK12AA is a 1/4 HP hermetic compressor designed for low-temperature refrigeration applications. It operates on 220V and uses R600 refrigerant. This compressor is suitable for various refrigeration systems requiring efficient cooling.



Figure 1: REPORSHOP Secop HMK12AA Refrigeration Compressor. This image displays the black, hermetic compressor unit with its electrical connections and refrigerant lines. A yellow label on the side indicates the model number HMK12AA, voltage (220-240V), and refrigerant type (R600a).

Key Features:

- Secop HMK12AA Compressor
- Designed for low-temperature applications
- Operates on 220 Volts
- Uses R600 refrigerant
- 1/4 Horsepower equivalent

4. SETUP AND INSTALLATION

Proper installation is crucial for the performance and longevity of the compressor. Consult a qualified refrigeration technician for installation.

1. **Mounting:** Securely mount the compressor on a stable, level surface using appropriate vibration dampeners. Ensure adequate airflow around the compressor for cooling.
2. **Electrical Connection:** Connect the compressor to a dedicated 220V power supply. Ensure all wiring complies with local electrical codes. Verify proper grounding.
3. **Refrigerant Lines:** Connect the suction and discharge lines to the refrigeration system. Ensure all connections are leak-free. Use appropriate brazing techniques if required.
4. **Evacuation and Charging:** Evacuate the refrigeration system to remove non-condensable gases and moisture. Charge the system with the correct type and amount of R600 refrigerant as specified by the system manufacturer.
5. **Leak Detection:** After charging, perform a thorough leak check on all connections.

5. OPERATING INSTRUCTIONS

Once installed and charged, the compressor will operate automatically based on the refrigeration system's thermostat settings.

- **Initial Start-up:** After installation, allow the system to stabilize for a few hours before checking performance.
- **Temperature Control:** The system's thermostat controls the compressor's on/off cycles to maintain the desired temperature.
- **Monitoring:** Periodically monitor the system's performance, including temperature, pressure, and current draw, to ensure efficient operation.

6. MAINTENANCE

Regular maintenance helps ensure optimal performance and extends the lifespan of the compressor.

- **Cleanliness:** Keep the compressor and surrounding area clean and free of dust and debris to ensure proper heat dissipation.
- **Vibration Check:** Periodically check mounting bolts and vibration dampeners for tightness and wear.
- **Electrical Connections:** Inspect electrical connections for corrosion or looseness.
- **Refrigerant Leaks:** Regularly check for signs of refrigerant leaks. Address any leaks immediately.
- **Professional Service:** Schedule periodic inspections and maintenance by a qualified refrigeration technician.

7. TROUBLESHOOTING

This section provides solutions for common issues. For complex problems, contact a qualified technician.

Common Issues:

- **Compressor Not Starting:**
 - Check power supply and circuit breaker.
 - Verify electrical connections are secure.
 - Inspect starting components (relay, capacitor) for failure.
- **Insufficient Cooling:**
 - Check refrigerant charge level.
 - Ensure condenser coils are clean and not obstructed.
 - Verify thermostat settings.
 - Check for system leaks.
- **Excessive Noise/Vibration:**
 - Check mounting bolts and vibration dampeners.
 - Ensure no components are loose or touching.
 - Internal compressor issue (requires professional service).

8. SPECIFICATIONS

Feature	Specification
Brand	REPORSHOP
Compressor Model	Secop HMK12AA
REPORSHOP Model Number	PK104292
Voltage	220 Volts
Refrigerant Type	R600
Application	Low Temperature
Displacement	11.2 cm ³
Power Source	Corded Electric
Product Weight	11 kg

9. WARRANTY AND SUPPORT

For warranty information and technical support, please contact REPORSHOP directly or refer to your purchase documentation. Keep your proof of purchase for warranty claims.

For further assistance, you may visit the REPORSHOP brand page: [REPORSHOP on Amazon.com.mx](#)