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Robertshaw A12-701 Thermostat Instruction Manual

Model: A12-701

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Robertshaw A12-701 Thermostat. The A12-701 is a genuine OEM replacement part designed for specific applications requiring precise temperature control. Please read this manual thoroughly before attempting any installation or operation.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions could result in property damage, personal injury, or death.

- Always disconnect power to the appliance or system before installing, servicing, or removing the thermostat.
- Installation should only be performed by a qualified technician or licensed professional.
- Ensure all wiring connections are secure and comply with local electrical codes.
- Do not operate the thermostat if it appears damaged.
- Keep children away from electrical components.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before proceeding with installation.

- Robertshaw A12-701 Thermostat Unit (with capillary tube)
- Control Knob
- Protective Cover/Housing
- Mounting Screws (typically 2)



Figure 1: Exploded view of the Robertshaw A12-701 Thermostat components, showing the main thermostat unit with its coiled capillary tube, a separate black control knob, a black protective housing, and two small mounting screws.

4. SETUP AND INSTALLATION

Installation of the Robertshaw A12-701 Thermostat typically involves replacing an existing thermostat. Due to the nature of electrical and refrigeration components, professional installation is highly recommended.

4.1 Pre-Installation Steps

- Disconnect Power:** Ensure the power supply to the appliance or system is completely disconnected at the circuit breaker or fuse box.
- Access Old Thermostat:** Carefully remove the access panel or cover to expose the existing thermostat.
- Document Wiring:** Before disconnecting any wires, take clear photographs or draw a diagram of the existing wiring connections. Note the color and terminal location of each wire.
- Remove Old Thermostat:** Disconnect the wires and unmount the old thermostat.

4.2 Installation Steps

- Mount New Thermostat:** Position the new Robertshaw A12-701 thermostat unit in the designated mounting location. Secure it using the provided mounting screws.
- Connect Wiring:** Refer to your documented wiring diagram and connect the wires to the appropriate terminals on the new thermostat. Ensure all connections are tight and secure.
- Position Capillary Tube:** Carefully route the capillary tube to the sensing area as per the appliance manufacturer's specifications. Avoid kinking or sharply bending the tube. The end of the capillary tube is the temperature sensing element.
- Install Protective Cover:** Place the protective cover/housing over the thermostat unit if applicable, ensuring it fits securely.
- Attach Control Knob:** Push the control knob onto the thermostat shaft. Ensure it aligns correctly with any indexing marks.



Figure 2: Assembled view of the Robertshaw A12-701 Thermostat, showing the main unit with its coiled capillary tube, the black control knob attached, and the black protective housing. Two mounting screws are also visible. The knob has markings for "OFF" and "COLDER".

4.3 Post-Installation Check

1. **Restore Power:** Once all connections are secure and the thermostat is properly mounted, restore power to the appliance or system.
2. **Test Operation:** Turn the control knob to a desired setting and observe if the appliance responds as expected.

5. OPERATING INSTRUCTIONS

The Robertshaw A12-701 Thermostat is operated via a rotary control knob. The knob typically features markings such as "OFF" and a range indicating colder settings.

- **Turning On/Off:** Rotate the knob to the "OFF" position to disable the cooling function. Rotate it away from "OFF" to activate the thermostat.
- **Adjusting Temperature:** Rotate the knob towards the "COLDER" indication to decrease the target temperature, or away from it to increase the target temperature. The specific temperature range will depend on the appliance it is installed in.
- **Initial Setting:** For initial use, set the thermostat to a mid-range setting and allow the appliance to stabilize for several hours before making further adjustments.

6. MAINTENANCE

The Robertshaw A12-701 Thermostat is designed for reliable operation with minimal maintenance. However, periodic checks can help ensure optimal performance.

- **Cleaning:** If necessary, gently wipe the exterior of the thermostat and control knob with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Capillary Tube Inspection:** Periodically inspect the capillary tube for any signs of damage, kinks, or dislodgement from its sensing position. Ensure it remains securely in place.
- **Electrical Connections:** With power disconnected, occasionally check electrical connections for tightness.

7. TROUBLESHOOTING

If the appliance or system controlled by the thermostat is not functioning correctly, consider the following

troubleshooting steps:

- **No Power:**

- Check the circuit breaker or fuse for the appliance.
- Ensure the thermostat control knob is not in the "OFF" position.

- **Incorrect Temperature:**

- Verify the thermostat setting.
- Ensure the capillary tube is correctly positioned and not damaged.
- Allow sufficient time for the appliance to reach the set temperature.

- **Appliance Runs Continuously or Not at All:**

- This may indicate a faulty thermostat or other component. Professional diagnosis is recommended.

If troubleshooting steps do not resolve the issue, contact a qualified service technician.

8. SPECIFICATIONS

Feature	Detail
Manufacturer	Robertshaw
Part Number	A12-701
Item Model Number	A12-701
Item Weight	1 pound
Package Dimensions	1 x 1 x 1 inches
Item Package Quantity	1
Batteries Required?	No

9. WARRANTY INFORMATION

The Robertshaw A12-701 Thermostat is a genuine OEM replacement part. For specific warranty terms and conditions, please refer to the original appliance manufacturer's documentation or contact Robertshaw directly. Typically, OEM parts carry a limited warranty against manufacturing defects.

10. SUPPORT

For technical assistance, replacement parts, or further inquiries regarding the Robertshaw A12-701 Thermostat, please contact Robertshaw customer support or visit their official website. When contacting support, have your product model number (A12-701) and any relevant appliance information ready.

Note: Robertshaw is a registered trademark.