

DELFIELD MCP00143

Delfield MCP00143 Temperature Danfoss Control User Manual

Model: MCP00143 | Brand: DELFIELD

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the Delfield MCP00143 Temperature Danfoss Control. This genuine OEM replacement part is designed for commercial foodservice equipment, reflecting Delfield's extensive industry experience. Please read this manual thoroughly before installation and operation to ensure proper function and longevity of the unit.



2. SAFETY INFORMATION

Always adhere to local electrical codes and safety regulations. Installation and servicing should only be performed by qualified personnel. Disconnect power before performing any work on the control unit or associated equipment. Failure to follow these instructions may result in property damage, serious injury, or death.

- Ensure power is disconnected before installation or maintenance.
- Only use genuine OEM parts for safety, reliability, and performance.
- Do not attempt to repair damaged components; replace them with genuine parts.
- Protect the capillary tube from sharp bends or damage.

3. PRODUCT DESCRIPTION AND FEATURES

The Delfield MCP00143 is a genuine OEM replacement temperature control unit manufactured by Danfoss, specifically designed for Delfield commercial foodservice equipment. This control is essential for maintaining precise temperature regulation within refrigeration systems.

Key Features:

- Genuine OEM replacement part, ensuring compatibility and performance.
- Manufactured by Danfoss, a leader in control technology.
- Designed for commercial foodservice equipment.
- Features adjustable temperature control for precise settings.
- Contributes to the safety, reliability, and performance of your equipment.

4. SETUP AND INSTALLATION

Installation of the Delfield MCP00143 Temperature Danfoss Control requires technical expertise. It is strongly recommended that installation be performed by a certified refrigeration technician or qualified electrician to ensure correct wiring, proper sensor placement, and system integrity.

Installation Steps (General Guidance):

1. **Power Disconnection:** Ensure all power to the equipment is completely disconnected and locked out before beginning any work.
2. **Access:** Gain access to the existing temperature control unit within the equipment.
3. **Removal:** Carefully disconnect and remove the old control unit, noting all wiring connections and the routing of the capillary tube.
4. **Mounting:** Mount the new Delfield MCP00143 control unit securely in the designated location.
5. **Wiring:** Connect the electrical wiring to the new control unit according to the equipment's wiring diagram. Ensure all connections are secure and correct.
6. **Capillary Tube Placement:** Carefully route and secure the capillary tube to the sensing location within the refrigeration system. Avoid kinks or sharp bends in the tube.
7. **Testing:** After installation, restore power and test the control unit's functionality and temperature sensing accuracy.



Figure 2: Side view of the control unit, highlighting the temperature adjustment dial and mounting screws.

5. OPERATING INSTRUCTIONS

The Delfield MCP00143 Temperature Danfoss Control is designed for straightforward operation once installed. Its primary function is to regulate the temperature of the connected refrigeration system.

Setting the Temperature:

- Locate the temperature adjustment dial on the control unit (refer to Figure 2).
- Rotate the dial to the desired temperature setting. The markings on the dial indicate the temperature range.
- Allow the system to stabilize and monitor the actual temperature to ensure it aligns with the set point. Adjust as necessary.

The control unit will automatically cycle the refrigeration compressor on and off to maintain the set temperature within the specified differential.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and optimal performance of your Delfield MCP00143 Temperature Danfoss Control. Always disconnect power before performing any maintenance.

- **Cleaning:** Periodically clean the exterior of the control unit with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly inspect the wiring connections for tightness and signs of wear or corrosion. Check the capillary tube for any damage, kinks, or leaks.
- **Sensor Placement:** Ensure the temperature sensing bulb of the capillary tube remains securely in its intended location for accurate readings.



Figure 3: Bottom view of the control unit, illustrating the connection point for the capillary tube.

7. TROUBLESHOOTING

If you experience issues with your Delfield MCP00143 Temperature Danfoss Control, consider the following common troubleshooting steps. For complex issues, contact a qualified technician.

Problem	Possible Cause	Solution
Unit not responding / No power	No power supply; Loose wiring; Blown fuse/tripped breaker	Check power supply to equipment; Inspect wiring connections; Reset breaker or replace fuse.
Incorrect temperature reading	Sensor bulb improperly placed or damaged; Control unit calibration issue	Verify sensor bulb placement; Inspect capillary tube for damage; Consult a technician for calibration.
Compressor constantly running or not running	Temperature setting too high/low; Control unit malfunction; Refrigeration system issue	Adjust temperature setting; If issue persists, contact a qualified refrigeration technician.



Figure 4: Angled view of the control unit, providing a clearer look at the electrical connection points.

8. SPECIFICATIONS




Attribute	Detail
Manufacturer	DELFIELD
Item Model Number	MCP00143
Model Name	mcp00143
ASIN	B07H7WDGGF
Adjustable Temperature Control	Yes
Specification Met	OEM
Item Weight	1.1 Pounds (approx. 498.95 g)
Parcel Dimensions	25.91 x 25.91 x 20.83 cm

9. WARRANTY AND SUPPORT

As a genuine OEM replacement part, the Delfield MCP00143 Temperature Danfoss Control is manufactured to high standards. For specific warranty information or technical support, please refer to the documentation provided with your original Delfield equipment or contact Delfield customer service directly. Using genuine OEM parts helps ensure continued warranty coverage for your equipment.

For further assistance, you may visit the official Delfield website or contact their authorized service providers.

Related Documents - MCP00143

	<p>AIR-O-TRONICS Defrost Timer Programming Guide</p> <p>User guide for the AIR-O-TRONICS Defrost Timer, detailing dip switch settings for defrost duration and cycle time, with operational sequences and wiring information.</p>
	<p>Delfield 6000XL & 6100XL Series Reach-In Refrigerators and Freezers: Service, Installation, and Care Manual</p> <p>This manual provides comprehensive service, installation, and care instructions for Delfield 6000XL and 6100XL Series Reach-In Refrigerators and Freezers. It covers specifications, operation, maintenance procedures, wiring diagrams, replacement parts, labor guidelines, and warranty information.</p>
	<p>Delfield 500 Series Display Cases Service and Installation Manual</p> <p>This comprehensive manual from Delfield provides detailed instructions for the installation, operation, and maintenance of the 500 Series display cases. It covers various refrigerated and heated models, offering specifications, wiring diagrams, parts lists, and troubleshooting guidance for food service professionals.</p>
	<p>Delfield 6000XL & 6100XL Series Reach-In Refrigerators and Freezers: Installation, Operation, and Maintenance Manual</p> <p>Comprehensive manual for Delfield 6000XL and 6100XL Series Reach-In Refrigerators and Freezers, covering installation, operation, maintenance, and troubleshooting. Includes safety notices, technical specifications, and control system details.</p>
	<p>Delfield 200 & 300 Series: Installation, Operation, and Maintenance Manual</p> <p>Comprehensive installation, operation, and maintenance manual for Delfield 200 & 300 Series commercial refrigerators and freezers. Covers safety, specifications, electrical, refrigeration, and cleaning procedures.</p>



500 Series
Service and Installation Manual



IMPORTANT INFORMATION
READ BEFORE USE
PLEASE SAVE THESE INSTRUCTIONS

AVL1200

[Delfield 500 Series Display Cases Service and Installation Manual](#)

Comprehensive service and installation guide for Delfield 500 Series display cases, covering receiving, specifications, installation, operation, maintenance, wiring diagrams, and replacement parts.