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Field Controls 12M+MG2

Field Controls 12M+MG2 Barometric Damper Draft Control 12-inch User Manual

Model: 12M+MG2

1. INTRODUCTION

The Field Controls 12M+MG2 Barometric Damper is a compact, rugged, heavy-duty control designed for precise draft regulation in large residential, commercial, and industrial applications. This device is suitable for use with solid fuels, oil, gas, or oil/gas appliances, requiring minimal on-the-job adjustments based on the fuel type utilized. It ensures optimal appliance performance and safety by maintaining a consistent draft.

2. IMPORTANT SAFETY INFORMATION

Please read this entire manual before installing or operating the Field Controls 12M+MG2 Barometric Damper. Failure to follow these instructions could result in property damage, personal injury, or death.

- Installation must be performed by a qualified professional in accordance with all local codes and regulations.
- Ensure all power to the appliance and venting system is disconnected before beginning installation or maintenance.
- Do not modify the damper or any of its components. Use only genuine Field Controls replacement parts.
- Verify proper ventilation and combustion air supply for the appliance.
- Keep children and pets away from the appliance and venting system during operation.

3. PRODUCT OVERVIEW

The 12M+MG2 Barometric Damper features a robust design for durability and sensitivity. Its core mechanism includes a heavy gauge gate that pivots on a long, thin, stainless steel knife edge. This knife edge is supported by self-aligning and self-cleaning bearings, minimizing friction and maximizing sensitivity to subtle changes in draft. This design ensures precise and reliable draft regulation.

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An image showing the Field Controls 12M+MG2 Barometric Damper, a 12-inch draft control device. The damper features a circular gate mechanism designed to regulate chimney draft.

4. SETUP AND INSTALLATION

4.1 Pre-Installation Checklist

- Verify that the vent pipe diameter is 10 inches or larger. This 12-inch model is suitable for such applications.
- Ensure you have the necessary tools: screwdriver, level, measuring tape, drill (if required for mounting).
- Confirm compliance with all local building and safety codes.

4.2 Installation Steps

Refer to the detailed installation instructions provided with your product for specific diagrams and mounting procedures. The following is a general overview:

1. **Select Location:** Choose a location on the vent pipe that is easily accessible for adjustment and maintenance, typically between the appliance and the chimney.
2. **Prepare Vent Pipe:** Cut an opening in the vent pipe according to the damper's collar size. Ensure the opening is clean and free of burrs.
3. **Mount Damper:** Securely attach the damper collar to the vent pipe. Ensure the damper gate is free to move and is properly balanced.
4. **Seal Connections:** Seal all connections to prevent air leakage, which can affect draft control.
5. **Configure for Fuel Type:**
 - **Gas Installations:** The M+MG2 acts as a double-acting draft control, assisting the chimney.
 - **Dual Fuel (Oil/Gas) or Gas-Fired Only:** Use the M+MG2 as a double-acting draft control, optionally with a Field Thermal Switch accessory.
 - **Oil or Solid Fuel Applications:** Use the M+MG2 as a single-acting draft control.

5. OPERATING INSTRUCTIONS

5.1 Initial Adjustment

After installation, the damper requires initial adjustment to match the specific draft requirements of your appliance and fuel type. This typically involves setting the counterweight to achieve the desired draft pressure.

- **For Gas Appliances:** Adjust the damper to maintain a stable draft, preventing excessive draft that could pull heat from the appliance. The double-acting nature allows for both inward and outward movement of the gate.
- **For Oil or Solid Fuel Appliances:** Adjust the damper to maintain a consistent negative draft pressure, optimizing combustion efficiency and preventing flue gas spillage. The single-acting configuration allows the gate to open inward to relieve excessive draft.
- Consult your appliance manufacturer's specifications for recommended draft settings.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your barometric damper.

- **Annual Inspection:** At least once a year, inspect the damper for any signs of wear, corrosion, or damage.
- **Clean Moving Parts:** Ensure the gate, knife edge, and bearings are free from soot, dust, or other obstructions. Gently clean with a soft brush if necessary.
- **Check for Free Movement:** Verify that the damper gate moves freely without sticking or binding.
- **Inspect Vent Pipe:** Check the vent pipe for any blockages or leaks that could affect draft.
- **Professional Servicing:** Consider having the damper and entire venting system inspected by a qualified HVAC technician periodically.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your barometric damper.

- **Issue: Insufficient Draft**
Possible Causes: Blocked chimney/vent pipe, improper damper adjustment, air leaks in the venting system.
Solution: Check for and remove obstructions in the chimney or vent pipe. Re-adjust the damper according to appliance specifications. Seal any leaks in the venting system.
- **Issue: Excessive Draft**
Possible Causes: Damper set too open, strong natural draft.
Solution: Adjust the damper counterweight to reduce the opening and achieve the desired draft.
- **Issue: Damper Gate Not Moving Freely**
Possible Causes: Soot buildup, damaged bearings, physical obstruction.
Solution: Clean the knife edge and bearings. Inspect for any physical damage or foreign objects. If bearings are damaged, professional replacement may be required.
- **Issue: Odors or Spillage from Appliance**
Possible Causes: Severe draft issue, blocked flue, improper installation.
Solution: Immediately shut down the appliance. This indicates a serious safety concern. Do not operate until a qualified technician has inspected and resolved the issue.

8. SPECIFICATIONS

- **Model:** 12M+MG2
- **Vent Pipe Diameter:** 12 inches (suitable for 10 inches or larger)

- **Fuel Types:** Solid, Oil, Gas, Oil/Gas (dual fuel)
- **Operation:** Single-acting (oil/solid fuel), Double-acting (gas/dual fuel)
- **Construction:** Heavy-duty
- **Bearing System:** Stainless steel knife edge with self-aligning, self-cleaning bearings
- **Application:** Residential, Commercial, Industrial

9. WARRANTY AND SUPPORT

9.1 Warranty Information

Field Controls products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Field Controls website. Keep your proof of purchase for warranty claims.

9.2 Customer Support

If you have questions regarding the installation, operation, or maintenance of your Field Controls 12M+MG2 Barometric Damper, please contact Field Controls customer support. Contact information can typically be found on the product packaging or the official Field Controls website.

Website: www.fieldcontrols.com (Example link, please verify official website)