

Dri-Eaz F413

Dri-Eaz Revolution LGR Commercial Dehumidifier User Manual

Model: F413

1. INTRODUCTION

The Dri-Eaz Revolution LGR Commercial Dehumidifier is a professional-grade, compact unit designed for effective moisture removal in various environments, including commercial and residential spaces, basements, and crawlspaces. Utilizing state-of-the-art LGR (Low Grain Refrigerant) technology, it efficiently extracts large volumes of water from the air, helping to prevent mold growth and structural damage.

This dehumidifier is built for durability and portability, featuring a robust design and convenient carrying handles. It includes an integrated pump and a 40-foot drain hose for continuous, automatic water removal, eliminating the need for manual emptying of a water tank.

Key Features:

- **High Capacity:** Removes up to 17 gallons (80 pints) of water per day.
- **Compact & Portable:** Lightweight and easy to transport, stack, and store.
- **Automatic Pump-Out:** Features a built-in pump and 40-foot drain hose for continuous operation without manual emptying.
- **Advanced Controls:** Equipped with a digital Command Hub controller for monitoring temperature, humidity, and drying progress.
- **Versatile Application:** Ideal for homes, schools, offices, healthcare facilities, and restoration projects covering spaces up to 8,000 cubic feet.



Figure 1: The Dri-Eaz Revolution LGR Commercial Dehumidifier, a compact and powerful unit.

EASY-TO-USE DIGITAL CONTROL PANEL

With a Humidistat, Temperature,
& Humidity Monitor



Figure 2: Easy-to-use digital control panel with humidistat, temperature, and humidity monitor.

COMPACT AND EASY TO MOVE

40 ft.
drain hose

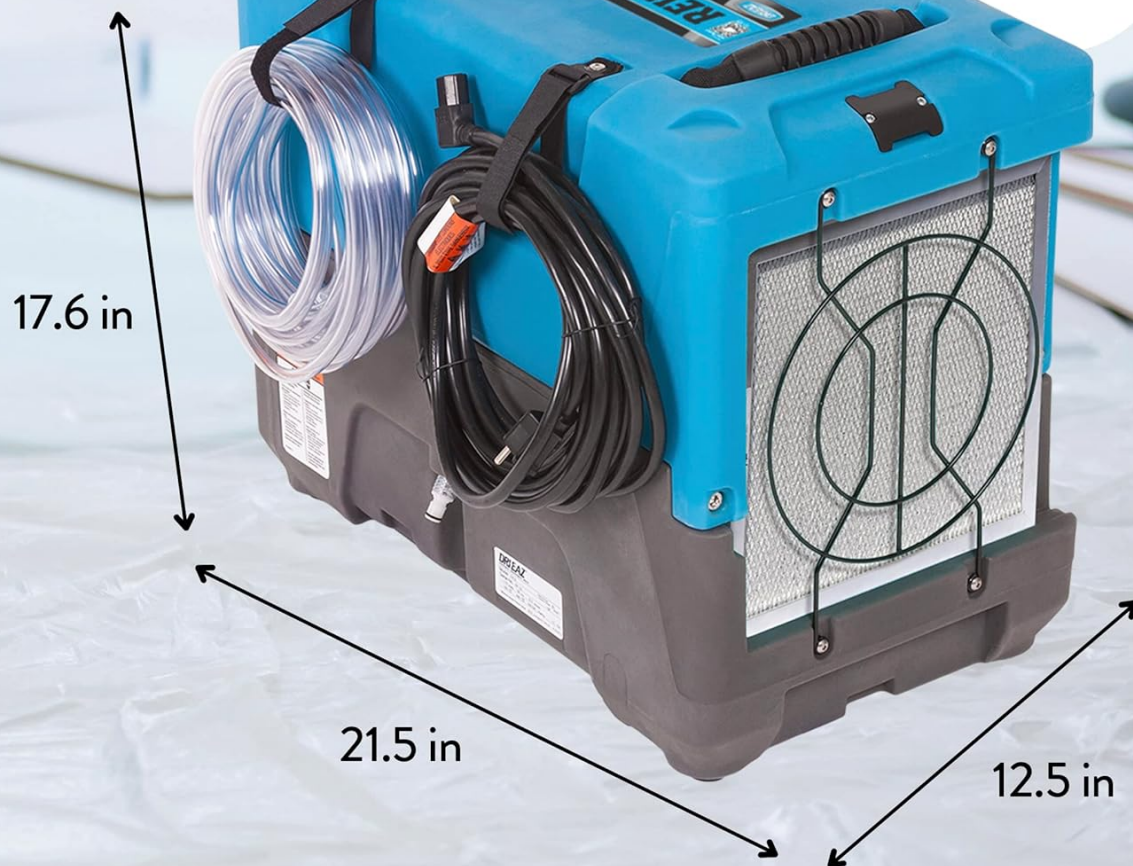


Figure 3: Compact dimensions (12.5 x 12.5 x 21.5 inches) and included 40 ft. drain hose for easy placement and operation.

Video 1: Official product overview of the Dri-Eaz Revolution LGR Commercial Dehumidifier, highlighting its features and benefits for various drying applications.

2. SETUP

Placement:

- Always operate the dehumidifier in a horizontal position.
- Place the unit in an enclosed area for optimal performance. Keep windows and doors closed to maximize drying efficiency.
- Ensure the air intake and outlets are not blocked to allow for proper airflow.
- For drying after a leak or flood, remove as much standing water as possible before placing the dehumidifier.

Power Connection:

1. Unstrap the power cord from the unit.
2. Attach the female power plug to the power socket located on the base of the dehumidifier.
3. Plug the pronged end of the power cord into a standard grounded outlet on a 15 amp circuit. The Revolution LGR uses approximately 6.2 amps.

Drainage Hose Setup:

1. Uncoil the clear drainage hose.
2. Attach the quick-connect end of the hose securely to the drain outlet tube on the base of the dehumidifier.
3. Place the open end of the hose securely into a sink, toilet, tub, or any other suitable drain where water can be safely discharged. The unit can pump water up to 20 feet above its level.
4. Ensure the hose has no kinks or obstructions to allow for continuous and unobstructed water flow.

3. OPERATING INSTRUCTIONS

Digital Control Panel:

The digital control panel allows you to monitor performance and adjust settings. Use the menu buttons to scroll through various information displays, including current humidity levels, temperature, and operating hours.

Humidistat Settings:

- **Fast Drying (Humidistat OFF):** For rapid drying of a damp area, set the humidistat mode to OFF. This ensures the dehumidifier operates at full capacity, continuously removing moisture until manually turned off or unplugged.
- **Ongoing Humidity Control (Humidistat ON):** For maintaining a specific humidity level, set the humidistat mode to ON. Use the arrow keys to set your desired target relative humidity percentage (e.g., 40-50%). The unit will cycle on and off to maintain this setpoint.

Monitoring Performance:

Regularly check the inlet and outlet readings displayed on the control panel. For effective dehumidification, the outlet readings should show higher temperatures and lower humidity percentages compared to the inlet readings. This indicates that the unit is successfully removing moisture and generating dry, warm air.

Optimizing Drying:

- If the inlet temperature is at or below 60°F (15.5°C), consider adding heat to the environment. Dehumidifiers operate more efficiently in warmer conditions, as warm air holds more moisture.
- For faster and more efficient drying, use the Dri-Eaz Revolution LGR in conjunction with Dri-Eaz air movers or blowers. Air movers promote evaporation from wet materials, while the dehumidifier removes the evaporated moisture from the air, allowing materials to truly dry.

4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Dri-Eaz Revolution LGR Dehumidifier.

Routine Checks:

- **Filter Cleaning/Replacement:** Periodically check and clean or replace the air filter. A clogged filter can reduce efficiency and airflow.
- **Coil Cleaning:** Inspect and clean the coils as needed to prevent dust and debris buildup, which can hinder performance.

Shutdown Procedure:

When drying is complete, follow these steps to properly shut down the unit:

1. Turn the dehumidifier OFF using the control panel, but **do not unplug it immediately**.
2. The unit will initiate a shutdown process to dry its internal coils, which helps prevent mold and mildew buildup within the machine.
3. After drying the coils, the unit will perform a purge of the pump to clear any remaining water from the drainage system.
4. Once the shutdown and purge cycles are complete, you can safely disconnect the power cord and drain hose.
5. Coil the power cord and drain hose and reattach them to the designated storage straps on the top of the Revolution LGR for convenient transport and storage.

5. TROUBLESHOOTING

If you encounter issues with your Dri-Eaz Revolution LGR Dehumidifier, refer to the common problems and solutions below:

Problem	Possible Cause	Solution
Unit not turning on or no power.	No power to outlet; tripped circuit breaker; loose power connection.	Check power outlet and circuit breaker. Ensure power cord is securely connected to both the unit and the wall outlet.
No water collection or reduced dehumidification.	Air filter clogged; coils frozen; room temperature too low; humidistat set too high.	Clean or replace air filter. Allow coils to defrost. Increase room temperature. Adjust humidistat setpoint lower or turn OFF for continuous operation.
Water leaking from unit.	Drain hose kinked or obstructed; drain hose not securely connected; internal pump issue.	Ensure drain hose is clear and free of kinks. Verify secure connection of the drain hose to the unit and the drain point. If issues persist, consult the full user manual or professional service.
Unusual noises during operation.	Unit not level; fan obstruction; internal component issue.	Ensure unit is placed on a level surface. Check for any obstructions near the fan. If noise persists, it may indicate an internal issue requiring professional inspection.

6. SPECIFICATIONS

Detailed technical specifications for the Dri-Eaz Revolution LGR Commercial Dehumidifier (Model F413):

- **Model Number:** F413
- **Brand:** Dri-Eaz
- **Product Dimensions:** 12.5"D x 12.5"W x 21.5"H
- **Item Weight:** 65 Pounds
- **Capacity:** 17 Gallons (80 Pints per day)
- **Color:** Blue
- **Special Feature:** Portable
- **Recommended Uses:** Commercial
- **Country of Origin:** USA
- **First Available Date:** November 26, 2013

7. WARRANTY & SUPPORT

Official Documentation:

For detailed information, please refer to the official PDF documents:

- [User Guide \(PDF\)](#)
- [User Manual \(PDF\)](#)

Protection Plans:


Extend the coverage of your dehumidifier with available protection plans:




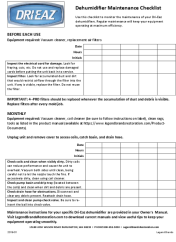
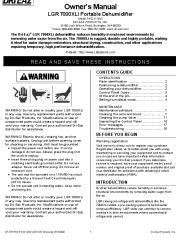
- **3-Year Protection Plan:** Available for purchase.
- **4-Year Protection Plan:** Available for purchase.
- **Complete Protect:** A monthly plan covering eligible past and future purchases.

Customer Support:

For any further assistance, technical support, or warranty claims, please contact Dri-Eaz customer support. Refer to the contact information provided in your product packaging or the official website.

Related Documents - F413

	<p>Dri-Eaz Revolution LGR Dehumidifier Owner's Manual</p> <p>Comprehensive owner's manual for the Dri-Eaz Revolution LGR Dehumidifier (Model F413) by Legend Brands. Learn about operation, safety, maintenance, and troubleshooting for effective humidity control in professional applications like water damage restoration and structural drying.</p>
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	<p>Dri-Eaz Revolution LGR Dehumidifier Owner's Manual</p> <p>Owner's manual for the Dri-Eaz Revolution LGR Dehumidifier (Model F413-230V EU/UK). Provides detailed instructions on setup, operation, maintenance, troubleshooting, system messages, and specifications for optimal performance in water damage restoration, structural drying, and construction environments.</p>
	<p>Revolution LGR Dehumidifier Owner's Manual</p> <p>Owner's manual for the Dri-Eaz Revolution LGR Dehumidifier, providing operating instructions, safety information, troubleshooting, and maintenance guidelines.</p>
	<p>Dri-Eaz Limited Warranty - Evolution LGR, DrizAir 1200, LGR 2800i, LGR 3500i, LGR 7000XLi, Revolution LGR</p> <p>Official limited warranty document from Dri-Eaz for Evolution LGR, DrizAir 1200, LGR 2800i, LGR 3500i, LGR 7000XLi, and Revolution LGR models. Details warranty duration, coverage, exclusions, and service procedures.</p>
	<p>Dri-Eaz Dehumidifier Maintenance Checklist and 4-PRO Filter Guide</p> <p>A comprehensive maintenance checklist for Dri-Eaz dehumidifiers, detailing pre-use and monthly checks, alongside information on the 4-PRO™ Dehumidifier Filter for professional restoration and remediation.</p>
	<p>Dri-Eaz LGR 7000XLi Portable Dehumidifier Owner's Manual</p> <p>Comprehensive owner's manual for the Dri-Eaz LGR 7000XLi portable dehumidifier, covering operation, maintenance, troubleshooting, and specifications. Ideal for water damage restoration, structural drying, and construction.</p>