

## Dukers DSM-15R

# Dukers DSM-15R Commercial Merchandiser Refrigerator Instruction Manual

MODEL: DSM-15R

## 1. Introduction

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This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Dukers DSM-15R Commercial Single Glass Swing Door Merchandiser Refrigerator. Please read this manual thoroughly before installation and use, and retain it for future reference. The Dukers DSM-15R is designed to showcase and display various merchandise, maintaining products at optimal temperatures. It features digital temperature controls, LED lighting, and adjustable shelving for versatile use in commercial settings.

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## 2. Safety Information

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**WARNING: Failure to follow these safety instructions may result in fire, electric shock, property damage, or injury.**

- **Electrical Safety:** Ensure the unit is connected to a properly grounded electrical outlet with the correct voltage (115 Volts) and amperage. Do not use extension cords. Disconnect power before any maintenance or cleaning.
  - **Ventilation:** Maintain adequate clearance around the unit for proper airflow to the compressor. Blocked vents can lead to overheating and reduced efficiency.
  - **Placement:** Place the unit on a level, stable surface capable of supporting its weight (approximately 241 pounds when empty, plus contents). Avoid direct sunlight or heat sources.
  - **Flammable Materials:** Do not store explosive substances or flammable materials inside or near the refrigerator.
  - **Cleaning:** Use only mild, non-abrasive cleaners. Do not spray water directly onto electrical components.
  - **Children:** Keep children away from the unit. Ensure the door cannot be accidentally closed on a child.
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## 3. Unpacking and Installation

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### 3.1. What's in the Box

Upon unpacking, verify that all components are present:

- Dukers DSM-15R Refrigerator Unit
- 5 Wire Shelves
- 9 ft Power Cord
- Casters (pre-installed or requiring attachment)

### 3.2. Placement

Select a location that is level, dry, and well-ventilated. Avoid placing the unit near heat-generating appliances or in direct sunlight. Ensure sufficient space (at least 4 inches) around the back and sides for proper air circulation.

### 3.3. Leveling

If casters are not pre-installed, attach them securely. Once in place, ensure the unit is level using a spirit level. Adjust the casters or leveling feet as necessary to prevent door misalignment and ensure proper sealing.

### 3.4. Power Connection

Before plugging in, allow the unit to stand upright for at least 2 hours to allow compressor oils to settle. Connect the 9 ft power cord to a dedicated, grounded 115V/60Hz electrical outlet. Do not use adapters or extension cords.





Figure 1: Front view of the Dukers DSM-15R Commercial Merchandiser Refrigerator.

## 4. Operation

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### 4.1. Initial Startup

After connecting to power, the unit will begin cooling. Allow the refrigerator to operate for several hours (e.g., 4-6 hours) empty to reach the desired temperature before loading products.

### 4.2. Digital Temperature Controls

The unit is equipped with digital temperature controls and an LED display, typically located at the bottom front or inside the unit. The temperature range is 33°F to 41°F (approximately).

1. **Setting Temperature:** Refer to the specific control panel instructions for your unit. Generally, there will be 'SET' button and up/down arrows to adjust the desired temperature.
2. **Temperature Display:** The LED display shows the current internal temperature.

### 4.3. Loading Products

Distribute products evenly on the adjustable wire shelves. Do not block the internal air vents, as this can impede proper cooling. The unit includes 5 adjustable and removable wire shelves.



Figure 2: Interior view showing products on adjustable shelves.

## 5. Maintenance

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Regular maintenance ensures optimal performance and longevity of your refrigerator.

- **Cleaning the Interior:** Regularly clean the interior with a mild soap and water solution. Rinse with clean water and dry thoroughly. The removable door gasket facilitates easy cleaning.
- **Cleaning the Exterior:** Wipe down the exterior surfaces with a soft cloth and mild cleaner. Avoid abrasive materials that could scratch the finish.

- **Condenser Coil Cleaning:** The condenser coil, located at the bottom, should be cleaned periodically (e.g., every 3 months) to remove dust and debris. This improves efficiency and prevents compressor strain. Disconnect power before cleaning.
- **Door Gasket Inspection:** Inspect the door gasket for cracks or damage. A tight seal is crucial for maintaining temperature. Replace damaged gaskets promptly.

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## 6. Troubleshooting

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Before contacting service, review these common issues and solutions:

Problem	Possible Cause	Solution
Unit does not power on	No power to the unit; power cord unplugged; circuit breaker tripped.	Check power connection; reset circuit breaker.
Unit not cooling properly	Temperature setting too high; condenser coil dirty; door not sealing; excessive door openings.	Adjust temperature; clean condenser coil; check door gasket; minimize door openings.
Excessive noise	Unit not level; loose components; fan obstruction.	Level the unit; inspect for loose parts; check for fan obstructions.
Water on floor (leakage)	Drain pan overflowing; drain line clogged.	Empty and clean drain pan; clear drain line.

If issues persist after attempting these solutions, contact qualified service personnel.

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## 7. Specifications

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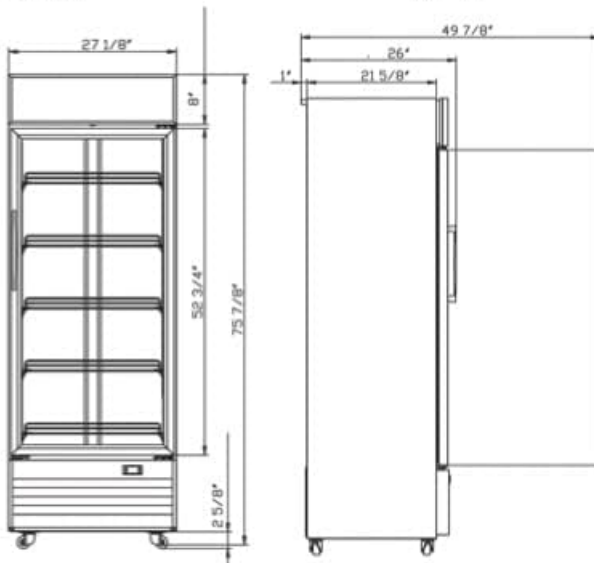
Detailed technical specifications for the Dukers DSM-15R model:

# DETAILS & SPECIFICATIONS

## DSM-15R

Front View

Side View



MODEL DSM-15R	
Rated Voltage	115V
Rated Frequency	60Hz
Total Input Power	260W
Total Current	2.3A
Total Capacity	14.72 cu ft
Climatic Category	4-5
Protection Type	I
Design Pressure High Side	300 PSIG
Design Pressure Low Side	150 PSIG
Insulation Blowing Gas	C-Pentane
Refrigerant	R290/2.82 oz

MODEL	EXTERNAL DIMENSION WXDXH (INCHES)	PACKAGING DIMENSION WXDXH (INCHES)	PRODUCT NET WEIGHT	# OF SHELVES	40HQ CONTAINER CERT.
DSM-15R	27 1/8 x 26 x 75 7/8	29 1/8 x 27 x 77 7/8	241 lbs	5	51



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Figure 3: Technical drawing and specifications for the DSM-15R.

Feature	Detail
Brand Name	Dukers
Model Info	DSM-15R
Item Weight	241 pounds
Product Dimensions (W x D x H)	27.2" x 26" x 76.3" (approx. 27 1/8" x 26" x 76 3/8")
Capacity	14.72 Cubic Feet
Temperature Range	33°F to 41°F
Voltage	115 Volts
Wattage	260 Watts

Feature	Detail
Defrost System	Automatic
Number of Doors	1
Shelf Type	Wire (5 shelves included)
Material Type	Aluminum, Glass, Coated Steel
Compressor	Bottom mounted 1/4 HP
Certification	NSF, ETL

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## 8. Warranty and Support

### 8.1. Manufacturer Warranty

The Dukers DSM-15R comes with a manufacturer warranty for commercial locations only:

- **2-Year:** Parts and Labor
- **5-Year:** On Compressor

Please retain your proof of purchase for warranty claims.

### 8.2. Customer Support

For technical assistance, warranty inquiries, or parts, please contact Dukers customer support:

- **Phone:** 1-800-931-8628
- **Email:** [info@dukersusa.com](mailto:info@dukersusa.com)
- **Website:** [www.dukersusa.com](http://www.dukersusa.com)