

Marley Engineered Products 1VLD1

Marley Engineered Products Dayton Unit Heater Motor A0516B2595 (Model 1VLD1) Instruction Manual

Your guide to safe and efficient operation.

1. INTRODUCTION

This instruction manual provides essential information for the proper installation, operation, and maintenance of your Marley Engineered Products Dayton Unit Heater Motor, Model 1VLD1. To ensure safe and optimal performance, please read this manual thoroughly before attempting any installation or operation. Keep this manual for future reference.

The Dayton Unit Heater Motor, Model 1VLD1, is a robust and reliable component designed for specific heating unit applications. It features a 1/10 horsepower motor, operating at 1300 RPM with 3.55 amps at 120V. Its design includes a 1/2" x 3" shaft and a 5" diameter, with a motor case length of 2 5/8 inches, and a clockwise rotation.

2. SAFETY INFORMATION

Always adhere to the following safety precautions to prevent injury or damage to the product and property.

- **Electrical Hazard:** Disconnect all power to the unit before installation, maintenance, or servicing. Failure to do so can result in electric shock or death.
- **Qualified Personnel:** Installation and wiring must be performed by a qualified electrician in accordance with all local and national electrical codes.
- **Proper Grounding:** Ensure the motor is properly grounded to prevent electrical hazards.
- **Moving Parts:** Keep hands, tools, and clothing clear of moving parts during operation.
- **Ventilation:** Ensure adequate ventilation around the motor to prevent overheating.
- **Inspection:** Regularly inspect the motor for any signs of wear, damage, or loose connections.

3. PRODUCT OVERVIEW

The image below illustrates the Dayton Unit Heater Motor, Model 1VLD1.



A black Dayton unit heater motor, model A0516B2595, featuring a cylindrical body with cooling fins, a central shaft extending upwards, and mounting bolts on the top surface. Electrical wiring exits from the side.

Key Features:

- 1/10 horsepower (0.1 hp)
- 1300 RPM operating speed
- 3.55 amps at 120V
- Shaft dimensions: 1/2" x 3"
- 5" Diameter
- Motor Case Length: 2 5/8"
- Clockwise (CW) rotation
- Constructed with copper material

4. SETUP AND INSTALLATION

Follow these steps for proper installation of the motor. Refer to the specific unit heater's manual for detailed assembly instructions.

1. **Power Disconnection:** Ensure all electrical power to the unit heater is disconnected at the main circuit breaker before beginning installation. Verify with a voltage tester.
2. **Mounting:** Securely mount the motor using appropriate hardware. Ensure the motor is stable and properly aligned with the fan assembly. The mounting bolts on the motor's top surface are designed for this purpose.
3. **Shaft Connection:** Connect the fan blade or impeller to the motor shaft. Ensure a tight and secure fit to prevent slippage during operation.
4. **Wiring:** Connect the motor's electrical leads to the unit heater's wiring system according to the wiring diagram provided with your unit heater. Pay close attention to voltage and amperage requirements. Ensure all connections are secure and insulated.
5. **Grounding:** Confirm that the motor and the unit heater are properly grounded as per electrical codes.
6. **Final Check:** Before restoring power, double-check all connections, mounting, and ensure no tools or debris are left inside the unit.

5. OPERATING INSTRUCTIONS

Once installed, the motor operates as part of the unit heater system. Follow the operating instructions for your specific unit heater.

- **Initial Power-Up:** After installation, restore power to the unit. Observe the motor for any unusual noises, vibrations, or smells during its first operation.
- **Normal Operation:** The motor is designed for continuous operation within its specified parameters. It will activate and deactivate as controlled by the unit heater's thermostat or control system.
- **Rotation:** The motor is designed for Clockwise (CW) rotation. Verify that the fan blade is rotating in the correct direction for optimal airflow.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficient performance of your motor.

- **Power Disconnection:** Always disconnect power before performing any maintenance.
- **Cleaning:** Periodically clean the exterior of the motor and fan blades to prevent dust and debris buildup, which can impede cooling and reduce efficiency. Use a soft brush or compressed air.
- **Inspection:** Annually inspect the motor for signs of wear, such as loose wiring, corrosion, or unusual bearing noise. Check mounting bolts for tightness.
- **Lubrication:** This motor is typically designed with sealed bearings that do not require lubrication. Refer to the motor's specific label or manufacturer's guidelines if unsure.

7. TROUBLESHOOTING

If you encounter issues with your motor, consult the following table for common problems and solutions. Always disconnect power before troubleshooting.

| Problem | Possible Cause | Solution |
|----------------------|---|--|
| Motor does not start | No power; Loose wiring; Overload protection tripped; Faulty motor | Check power supply and circuit breaker; Inspect and secure wiring; Reset overload protector; Consult a qualified technician for motor replacement. |

| Problem | Possible Cause | Solution |
|---------------------------|--|--|
| Motor makes unusual noise | Loose mounting; Fan blade imbalance; Worn bearings; Obstruction | Tighten mounting bolts; Check fan blade for damage/balance; Replace motor if bearings are worn; Remove any obstructions. |
| Motor overheats | Poor ventilation; Excessive load; Low voltage; Dirt/debris buildup | Ensure adequate airflow; Reduce load if possible; Verify correct voltage supply; Clean motor and fan blades. |
| Reduced airflow | Incorrect fan rotation; Dirty fan blades; Obstruction | Verify correct CW rotation; Clean fan blades; Remove obstructions. |

8. SPECIFICATIONS

| Specification | Value |
|-------------------|----------------------------|
| Brand | Marley Engineered Products |
| Model Number | 1VLD1 |
| Part Number | A0516B2595 |
| Horsepower (HP) | 1/10 hp (0.1 HP) |
| Speed | 1300 RPM |
| Amperage | 3.55 amps |
| Voltage | 120 Volts |
| Shaft Dimensions | 1/2" x 3" |
| Diameter | 5" |
| Motor Case Length | 2 5/8" |
| Rotation | CW (Clockwise) |
| Material | Copper |
| Item Weight | 13 Pounds |

9. WARRANTY INFORMATION

This Marley Engineered Products Dayton Unit Heater Motor (Model 1VLD1) comes with a **1-Year Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use and service. Please retain your proof of purchase for warranty claims. For specific terms and conditions, refer to the warranty documentation provided with your purchase or contact Marley Engineered Products directly.

10. SUPPORT

For technical assistance, replacement parts, or further inquiries regarding your Dayton Unit Heater Motor, please contact Marley Engineered Products customer support. Have your model number (1VLD1) and part number (A0516B2595) ready when contacting support.

You may find contact information on the official Marley Engineered Products website or through your product's original vendor.

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Related Documents - 1VLD1

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|---|---|
|  | <p>Marley Engineered Products Unit Heater Accessories Installation Guide</p> <p>Installation instructions for various accessories for Marley Engineered Products MUH, HUHAA, and Dayton unit heaters, including internal thermostats, remote fan switches, fan relays, and power disconnect switches. Covers model numbers MT1, MT2, FS, RFS1, RFS2, HRTA, DS25, and DS60.</p> |
|  | <p>Marley Engineered Products UH724STA Horizontal/Vertical Unit Heater Installation, Operation & Maintenance Instructions</p> <p>Comprehensive guide for the Marley Engineered Products UH724STA horizontal/vertical unit heater, covering installation, operation, maintenance, and warranty information. Includes safety precautions, technical specifications, and wiring diagrams.</p> |
|  | <p>Marley Engineered Products "K" Series (Model A) Fan Forced Wall Heater Installation and Maintenance Instructions</p> <p>Comprehensive installation and maintenance guide for Marley Engineered Products "K" Series (Model A) fan forced wall heaters, covering safety precautions, installation procedures for new construction and existing walls, wiring diagrams, operation, maintenance, and warranty information.</p> |
|  | <p>Marley Engineered Products UH Series Unit Heaters Installation and Maintenance Manual</p> <p>Comprehensive installation and maintenance guide for Marley Engineered Products UH Series Unit Heaters (5KW to 30KW), covering safety, specifications, mounting, wiring, and warranty information.</p> |
|  | <p>Marley UH Series Unit Heaters 5KW-30KW: Installation, Operation & Maintenance Manual</p> <p>Comprehensive guide for Marley UH Series Unit Heaters (5KW-30KW), covering installation, operation, maintenance, safety precautions, specifications, dimensions, and warranty information. Includes essential safety warnings and technical details for commercial and industrial use.</p> |



S Series
Electric Toe Space Heater
Universe Distribution Technology



Installation, Operation & Maintenance Instructions

| Model | Power (W) | Length (mm) | Width (mm) | Height (mm) |
|-------|-----------|-------------|------------|-------------|
| S100 | 100 | 100 | 100 | 100 |
| S200 | 200 | 200 | 200 | 200 |
| S300 | 300 | 300 | 300 | 300 |
| S400 | 400 | 400 | 400 | 400 |
| S500 | 500 | 500 | 500 | 500 |
| S600 | 600 | 600 | 600 | 600 |
| S700 | 700 | 700 | 700 | 700 |
| S800 | 800 | 800 | 800 | 800 |
| S900 | 900 | 900 | 900 | 900 |

IMPORTANT INSTRUCTIONS

1. Read these instructions carefully before installation, operation, and maintenance.
2. These instructions apply to all models of the S Series Electric Toe Space Heater.
3. The heater must be installed in a dry, well-ventilated area.
4. The heater must be connected to a dedicated electrical circuit.
5. The heater must be grounded properly.
6. The heater must be protected from physical damage.
7. The heater must be maintained regularly.
8. The heater must be used in accordance with the instructions.
9. The heater must be stored properly when not in use.
10. The heater must be disposed of properly at the end of its life.

SAVE THESE INSTRUCTIONS

[Marley S Series Electric Toe Space Heater Installation, Operation & Maintenance Manual](#)

Comprehensive guide for Marley S Series electric toe space heaters, covering installation, operation, maintenance, safety instructions, and limited warranty information.