

DYRABREST DERRR68

User Manual: DYRABREST 32L Portable Quiet Air Compressor

Model: DERRR68

1. INTRODUCTION

Thank you for choosing the DYRABREST 32L Portable Quiet Air Compressor. This oil-free air compressor is designed for quiet operation and is suitable for various applications, including medical and dental equipment. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your new air compressor. Please read this manual thoroughly before operation and retain it for future reference.

2. SAFETY INSTRUCTIONS

Always observe the following safety precautions to prevent injury or damage to the equipment:

- **Electrical Safety:** Ensure the power supply matches the compressor's requirements (110V AC 60Hz/50Hz). Do not operate with damaged cords or plugs. Avoid using in wet conditions.
- **Pressure Safety:** Never exceed the rated exhaust pressure. Do not tamper with the pressure relief valve.
- **Ventilation:** Operate the compressor in a well-ventilated area to prevent overheating.
- **Stability:** Place the compressor on a stable, level surface to prevent tipping.
- **Maintenance:** Disconnect from power before performing any maintenance or repairs.
- **Children and Pets:** Keep children and pets away from the operating compressor.

3. PRODUCT OVERVIEW

The DYRABREST 32L Portable Quiet Air Compressor is an oil-free unit designed for quiet and efficient air delivery. Its compact design makes it portable for various applications.

Key Features:

- **Oil-Free Design:** Requires no daily oil maintenance, reducing operational costs and eliminating the risk of oil

contamination.

- **Ultra-Quiet Operation:** Operates at a low noise level of 58-64dB, suitable for environments requiring minimal noise disturbance.
- **Portable:** Designed for easy transport and placement.
- **Versatile Application:** Ideal for medical equipment and dental applications.

Components:



Figure 3.1: Front view of the DYRABREST 32L Portable Quiet Air Compressor, showing the blue tank, pressure gauge, and motor assembly.

This image displays the overall structure of the air compressor, highlighting its compact design and key visible components such as the pressure gauge and the motor unit mounted on top of the blue air tank.



Figure 3.2: Multiple views of the air compressor, including a top-down view of the motor heads and a close-up of the control panel. This composite image provides a comprehensive look at the compressor from different angles, including a detailed view of the motor heads and the control panel, which includes the pressure switch and safety valve.

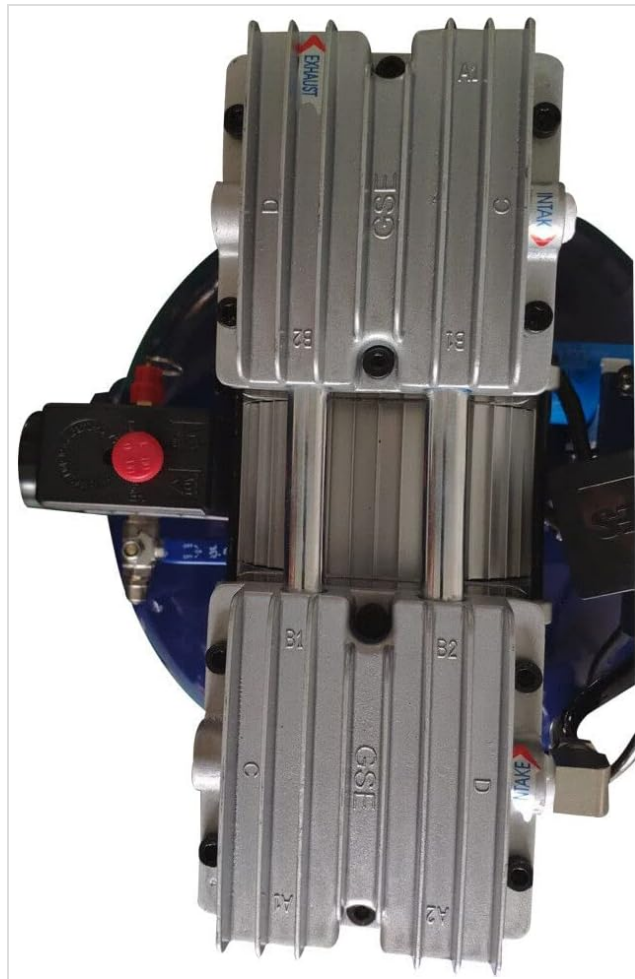


Figure 3.3: Top view of the compressor motor heads, showing the cooling fins and connections. This image focuses on the top section of the compressor, detailing the two motor heads with their cooling fins and the various connections for air intake and exhaust, indicating the dual-cylinder design.

4. SETUP

1. **Unpacking:** Carefully remove the compressor from its packaging. Inspect for any shipping damage.
2. **Placement:** Position the compressor on a firm, level surface in a clean, well-ventilated area. Ensure there is adequate space around the unit for air circulation.
3. **Power Connection:** Verify that the power outlet matches the compressor's voltage requirements (110V AC). Plug the power cord securely into a grounded outlet.
4. **Initial Check:** Before first use, ensure all connections are tight and the pressure relief valve is functioning correctly.

5. OPERATING INSTRUCTIONS

1. **Power On:** Turn on the main power switch, usually located near the pressure switch. The compressor will begin to fill the air tank.
2. **Pressure Monitoring:** Observe the pressure gauge. The compressor will automatically shut off once the rated exhaust pressure (0.8 ± 0.05 Mpa) is reached.
3. **Connecting Tools:** Attach your air tools or equipment to the air outlet.
4. **Operation:** Use the air as needed. The compressor will automatically restart when the tank pressure drops below the starting pressure (0.5 ± 0.05 Mpa).
5. **Power Off:** When finished, turn off the main power switch and disconnect the compressor from the power supply.
6. **Drain Condensate:** Regularly drain any accumulated moisture from the air tank using the drain valve at the bottom of the tank. This prevents corrosion and ensures optimal performance.

6. MAINTENANCE

The oil-free design of this compressor minimizes maintenance requirements. However, regular checks are essential for longevity and performance:

- **Daily:**
 - Drain condensate from the air tank.
 - Check for any unusual noises or vibrations during operation.
- **Weekly/Monthly:**
 - Inspect the air filter for cleanliness. Clean or replace if necessary.
 - Check all hoses and connections for leaks or damage.
 - Clean the exterior of the compressor to prevent dust buildup on cooling surfaces.
- **Storage:** If storing for an extended period, ensure the tank is drained of all air and moisture. Store in a dry, clean environment.

7. TROUBLESHOOTING

Refer to the table below for common issues and their potential solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Compressor does not start.	No power, tripped circuit breaker, faulty switch.	Check power connection, reset breaker, inspect switch.
Compressor runs continuously.	Air leak in system, faulty pressure switch.	Check for leaks in hoses/connections, consult service if pressure switch is faulty.
Low air pressure output.	Air leak, clogged air filter, worn pump components.	Check for leaks, clean/replace air filter, contact support for pump issues.
Excessive noise or vibration.	Loose components, unit not on level surface, internal issue.	Tighten fasteners, ensure stable placement, contact support if persists.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact customer support.

8. SPECIFICATIONS

Parameter	Value
Brand	DYRABREST
Model Name	32L 110V 850W Portable Professional Dental Medical Noiseless Air Compressor
Item Model Number	DERRR68
Power Supply	110V AC 60Hz/50Hz
Current	3.7A
Power Consumption	850W
Operation Speed	1390/Min
Nominal Volume (Air Flow Capacity)	105 L/min
Starting Pressure	0.5 ± 0.05 Mpa
Rated Exhaust Pressure	0.8 ± 0.05 Mpa
Gas Tank Volume (Capacity)	32 Liters
Noise Level	58-64dB
Gross Weight (Carton Box)	32 Kg
Packing Size (Carton Box)	43 × 44 × 68 cm
Recommended Uses	Medical equipment, dental
Motor Horsepower	1.14 horsepower

9. WARRANTY AND SUPPORT

DYRABREST is committed to providing quality products and customer satisfaction. This product comes with a 100% service guarantee. Our products are shipped from the US/NJ for quick delivery.

If you have any questions, concerns, or quality issues with your DYRABREST 32L Portable Quiet Air Compressor, please do not hesitate to contact our customer service team. We are here to assist you.

For support, please refer to the contact information provided at the point of purchase or on the official DYRABREST website.
