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VEVOR 1L Portable Diving Tank

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INSTRUCTION MANUAL

Introduction

Thank you for choosing the VEVOR 1L Portable Diving Tank. This compact and reliable diving system is designed for recreational diving, emergency air supply, and underwater exploration. With a 1-liter capacity, it provides approximately 15-20 minutes of underwater breathing at depths up to 98.43 feet (30 meters). Constructed from aviation-grade aluminum, it offers durability and corrosion resistance. Please read this manual thoroughly before use to ensure safe and proper operation.



Image: A diver exploring underwater with the VEVOR 1L Portable Diving Tank.

Important Safety Information

WARNING: Diving with compressed air carries inherent risks. Improper use can lead to serious injury or death. This product is intended for use by individuals who are certified in scuba diving or have received proper training in its use. Always dive within your training and experience limits.

- **Training Required:** Do not use this product without proper scuba diving certification or professional instruction.
- **Pressure Limits:** Never exceed the maximum inflation pressure of 20MPa (200 BAR / 3000 PSI). Overfilling can cause the tank to rupture.
- **Air Quality:** Only fill the tank with clean, breathable compressed air from a reputable source. Industrial air or oxygen can be dangerous.

- **Pre-Dive Checks:** Always inspect the tank, regulator, and all connections for damage, leaks, and proper function before each dive.
- **Ascent Rate:** Always ascend slowly and perform safety stops to prevent decompression sickness.
- **Depth and Time Limits:** Adhere to safe diving depth and time limits. This 1L tank is for short, shallow dives.
- **Maintenance:** Follow all maintenance and storage instructions to ensure the longevity and safety of the equipment.
- **Children:** Keep out of reach of children. This is not a toy.

What's in the Box

Upon unpacking, please verify that all the following components are included:

- 1 x 1L Scuba Tank
- 1 x Refill Adapter
- 1 x Instruction Manual
- 1 x Backpack
- 1 x Carry Bag

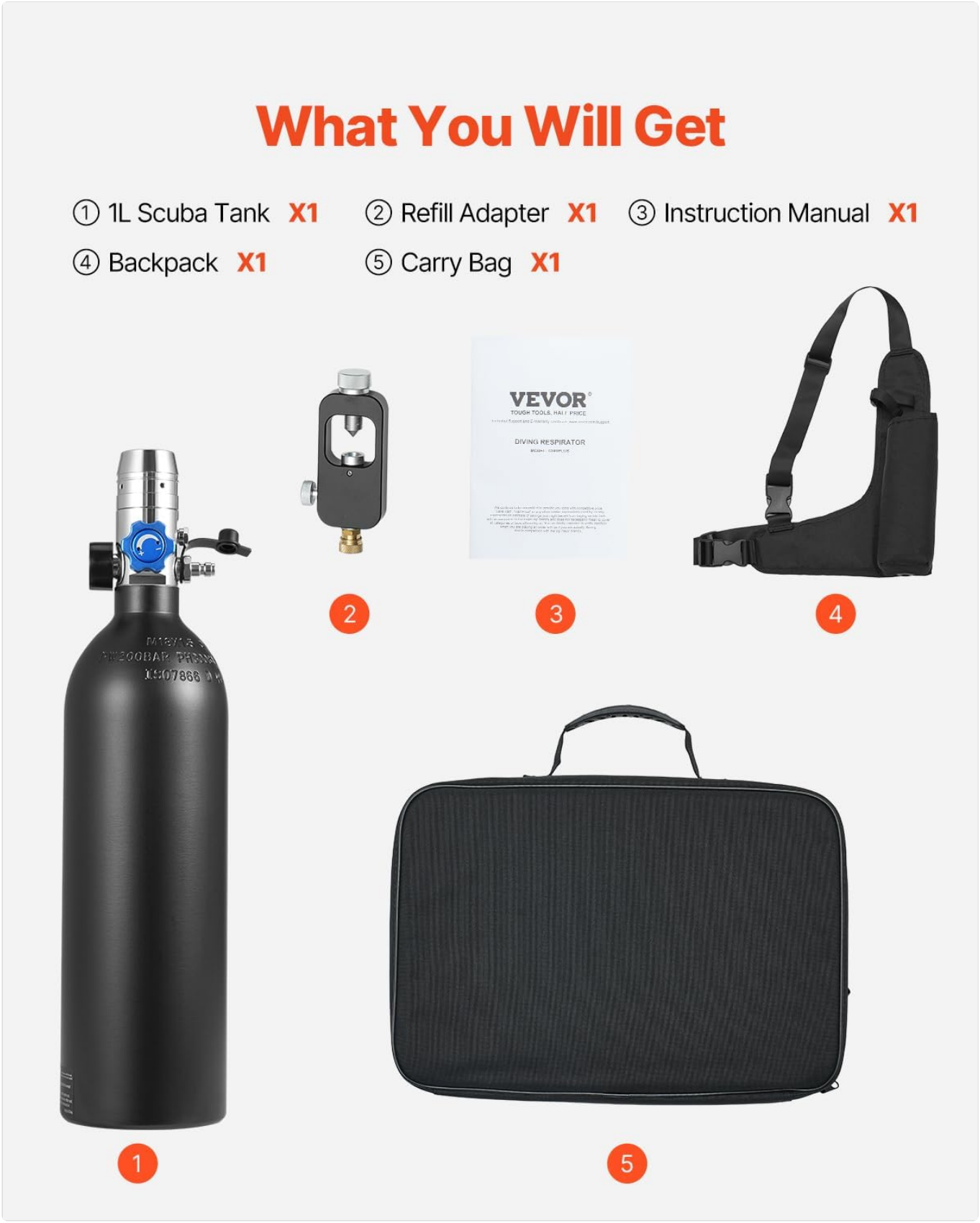

Image: All components included in the VEVOR 1L Portable Diving Tank kit.

Setup

1. **Inspect Components:** Before assembly, carefully inspect all parts for any signs of damage, wear, or debris. Ensure the O-rings on the regulator and tank valve are clean and intact.
2. **Attach Regulator:** Screw the regulator assembly onto the tank valve. Ensure it is hand-tightened securely. Do not overtighten.

3. **Check Pressure Gauge:** Verify that the pressure gauge on the regulator is functioning correctly and reads zero before inflation.
4. **Inflation:** Choose one of the following inflation methods:
    - **Using a Scuba Tank Adapter:** Connect the refill adapter to a larger scuba tank. Connect the VEVOR 1L tank to the refill adapter. Slowly open the valve on the larger tank to transfer air. Monitor the pressure gauge on the 1L tank and stop when it reaches 20MPa (200 BAR / 3000 PSI). Close the valve on the larger tank, then slowly release pressure from the adapter before disconnecting.
    - **Using a Manual High-Pressure Pump:** Connect the manual pump to the VEVOR 1L tank. Pump steadily until the desired pressure of 20MPa (200 BAR / 3000 PSI) is reached. This method requires significant effort (800-1200 pumps).
    - **Using an Air Compressor:** Connect a compatible high-pressure air compressor to the VEVOR 1L tank. Ensure the compressor is designed for breathing air and can reach 20MPa (200 BAR / 3000 PSI). Inflate slowly, monitoring the pressure gauge. This method typically takes about 20 minutes.
5. **Leak Check:** After inflation, submerge the tank and regulator assembly in water (if possible) or apply a soapy solution to all connections to check for air bubbles, indicating leaks. If leaks are found, depressurize the tank, re-inspect O-rings, and re-tighten connections.



Image: Close-up view of the tank valve and regulator connection.

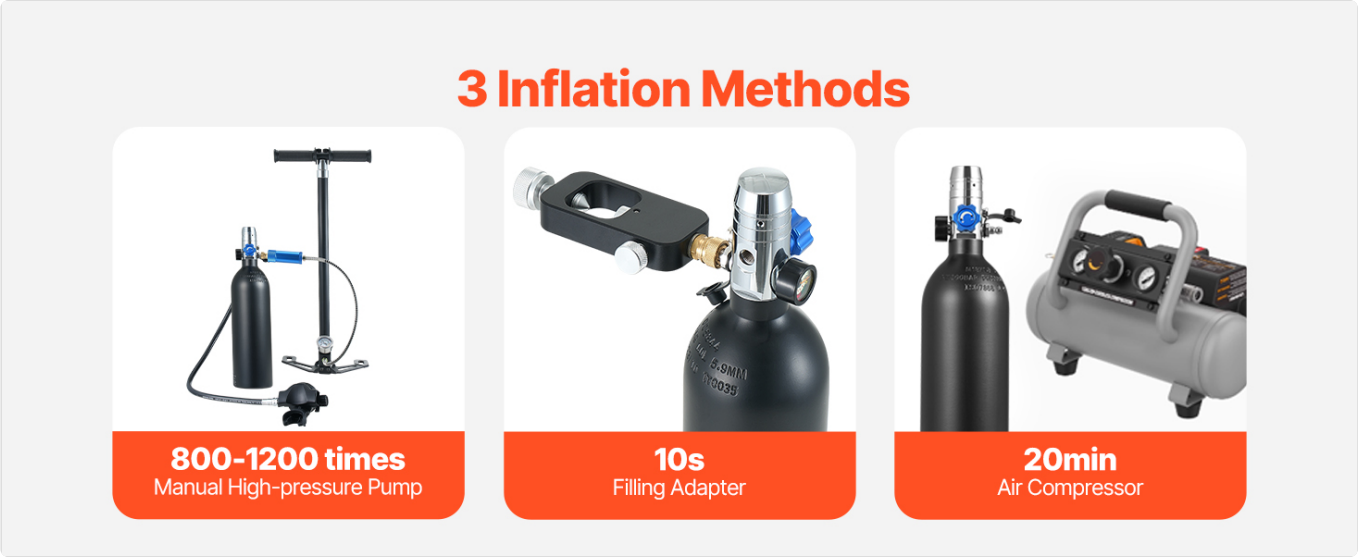

Image: Illustration of the three available inflation methods.

Operating Instructions

1. **Pre-Dive Preparation:** Ensure the tank is fully inflated to 20MPa. Check the pressure gauge. Secure the tank to your body using the provided backpack or carry bag, ensuring it is comfortable and does not impede movement.
2. **Entering the Water:** Enter the water carefully. Once submerged, take a few shallow breaths to ensure the regulator is functioning correctly and there are no leaks.
3. **Breathing Underwater:** Breathe slowly and deeply. The advanced pressure-regulated vent system ensures smooth airflow. Monitor your air supply frequently using the pressure gauge. Plan your dive to ensure you have sufficient air for ascent and safety stops.
4. **Ascent:** Begin your ascent well before the tank is empty. Ascend slowly, no faster than 30 feet (9 meters) per minute, and perform a safety stop at 15 feet (5 meters) for 3-5 minutes. Exhale continuously during ascent to prevent lung overexpansion injuries.
5. **Exiting the Water:** Once at the surface, remove the mouthpiece and exit the water safely.
6. **Post-Dive:** After exiting the water, close the tank valve. Depressurize the regulator by pressing the purge button until all air is released.

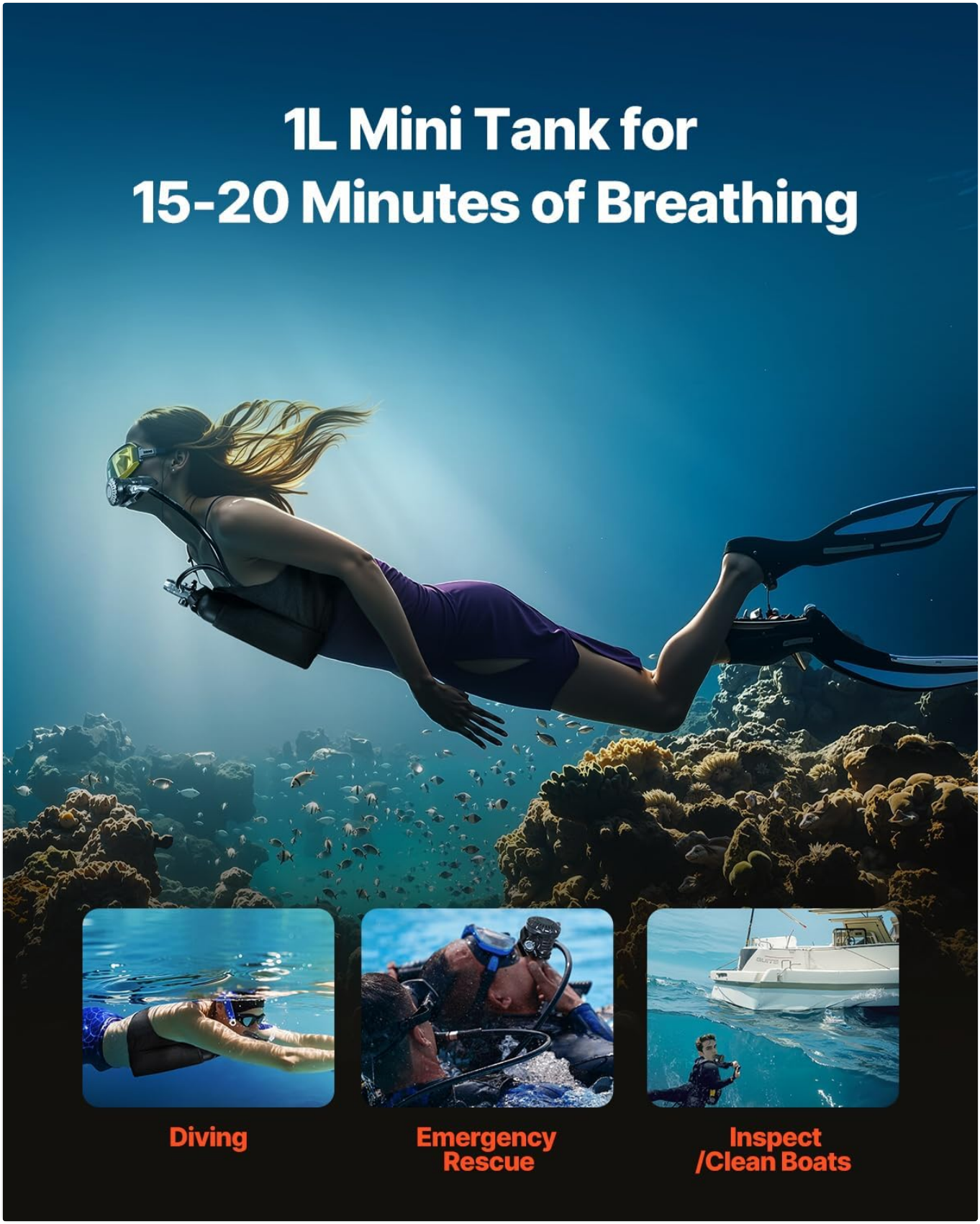

Image: A diver demonstrating proper use of the VEVOR 1L Portable Diving Tank.

Maintenance

- **Rinsing:** After each use, thoroughly rinse the entire tank and regulator assembly with fresh water to remove salt, sand, and chlorine. Pay special attention to the mouthpiece and all moving parts.
- **Drying:** Allow all components to air dry completely in a shaded, well-ventilated area before storage. Do not expose to direct sunlight for prolonged periods.

- **Storage:** Store the tank in a cool, dry place, away from direct sunlight, extreme temperatures, and corrosive chemicals. Keep the tank partially pressurized (around 5-10 BAR) to prevent moisture ingress.
- **O-Ring Inspection:** Regularly inspect all O-rings for cracks, tears, or signs of wear. Replace damaged O-rings immediately. Apply a thin layer of silicone grease to O-rings to maintain their integrity.
- **Professional Servicing:** It is recommended to have the tank and regulator professionally inspected and serviced by a qualified technician annually or after significant use.



Image: The VEVOR 1L Portable Diving Tank, ready for storage or use.

Troubleshooting

Problem	Possible Cause	Solution
Air Leak from Connections	Loose connection, damaged O-ring, debris	Depressurize, check O-rings for damage/debris, re-lubricate, re-tighten connections.
Difficulty Breathing	Low air pressure, regulator malfunction, blocked mouthpiece	Check pressure gauge. If low, surface immediately. Inspect mouthpiece for obstructions. If regulator malfunction is suspected, seek professional service.
Pressure Gauge Not Reading	Gauge malfunction, no air in tank	Ensure tank is filled. If still no reading, the gauge may be faulty and requires replacement.
Tank Not Holding Air	Valve leak, tank damage	Perform a leak test. If the leak is from the valve, it may need servicing. If tank body is damaged, discontinue use immediately and replace.

Specifications

- **Model Name:** Scuba Tank
- **Part Number:** 1L Portable Diving Tank
- **Capacity:** 1 Liter
- **Material:** Aluminum 6061
- **Max. Inflation Pressure:** 20MPa (200 BAR / 3000 PSI)
- **Approximate Usage Time:** 15-20 minutes (varies by individual and depth)
- **Max. Diving Depth:** 98.43 ft / 30 m
- **Item Weight:** 6.3 Pounds (2.85 kg including all accessories)
- **Item Dimensions (LxWxH):** 3.2 x 3.2 x 15.67 inches (8.13 x 8.13 x 39.8 cm)
- **Inflation Plug of Release Valve:** 0.31 in / 8 mm

Warranty and Support

VEVOR products are designed for quality and performance. For any questions regarding your VEVOR 1L Portable Diving Tank, including warranty information, technical support, or service, please contact VEVOR customer support through their official website or the retailer where the product was purchased. Please have your model number and purchase date available when contacting support.

For more information about VEVOR and their product range, visit theVEVOR Store on Amazon.

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