

## Vixen Horns VXS-8100 (117 dB, 1600 ft Range)

# Vixen Horns VXS-8100 Industrial Air Raid Siren User Manual

Model: VXS-8100 (117 dB, 1600 ft Range)

Brand: Vixen Horns

## 1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Vixen Horns VXS-8100 Industrial Air Raid Siren. Please read this manual thoroughly before use and retain it for future reference. This industrial-grade siren is designed to produce a powerful 117 dB sound for emergency warnings over a 1600 ft radius.

## 2. SAFETY INFORMATION

- **High Sound Levels:** This siren produces extremely loud sounds (117 dB). Prolonged exposure can cause hearing damage. Always wear appropriate hearing protection when testing or operating the siren.
- **Electrical Hazard:** The siren operates on 120V AC. Installation must be performed by a qualified electrician in accordance with all local and national electrical codes. Ensure power is disconnected before any installation or maintenance.
- **Mounting:** Securely mount the siren to a stable surface capable of supporting its weight (approximately 11.9 lbs / 5.4 kg) to prevent accidental dislodgement.
- **Thermal Overload:** The motor includes a thermal overload protector. The siren may operate continuously for 1-3 minutes depending on ambient temperature before requiring a cool-down period. Do not bypass this safety feature.
- **Environmental Protection:** The siren has an IP44 rating, indicating limited water resistance. It is protected against solid objects larger than 1mm and splashing water from any direction. It is not designed for submersion or direct high-pressure water jets.

## 3. PRODUCT FEATURES

- **Loud Output:** Generates a piercing air raid sound at 117 dB, covering a 1600 ft radius.
- **Frequency:** Operates at an output frequency of 700 Hz for effective warning.
- **Durable Construction:** Housing crafted from iron with electrostatic powder coating for wear resistance. Galvanized iron mesh provides corrosion resistance.
- **Heavy-Duty Motor:** Equipped with a 120V AC motor and an extra thick stator for rapid alarm activation.
- **Thermal Protection:** Integrated thermal overload protector switch prevents overheating during extended operation.
- **Versatile Activation:** Can be activated via a manual switch (not included) or integrated into existing alarm systems (e.g.,

smoke detectors, gas sensors, timers, anti-theft alarms).

## 4. SPECIFICATIONS

| Parameter                      | Value                                                            |
|--------------------------------|------------------------------------------------------------------|
| Model                          | VXS-8100                                                         |
| Audible Noise                  | 117 dB                                                           |
| Maximum Range                  | 1600 ft (unidirectional)                                         |
| Voltage                        | 120V AC                                                          |
| Power Source                   | Corded Electric                                                  |
| Color                          | Red                                                              |
| Product Dimensions (L x W x H) | 14-1/4" x 8-7/8" x 12-1/2" (approx. 36.2 cm x 22.5 cm x 31.8 cm) |
| Item Weight                    | 11.9 lbs (approx. 5.4 kg)                                        |
| Mounting Type                  | Wall Mount                                                       |
| Ingress Protection (IP) Rating | IP44 (Limited water resistant)                                   |

# DIMENSIONS

## INDUSTRIAL SIREN 110V-120V



Figure 1: Product dimensions of the Vixen Horns VXS-8100 Industrial Air Raid Siren.

## 5. SETUP AND INSTALLATION

Installation of the VXS-8100 siren is straightforward, requiring connection to a 120V AC power source and secure mounting. Ensure all power is disconnected before beginning installation.

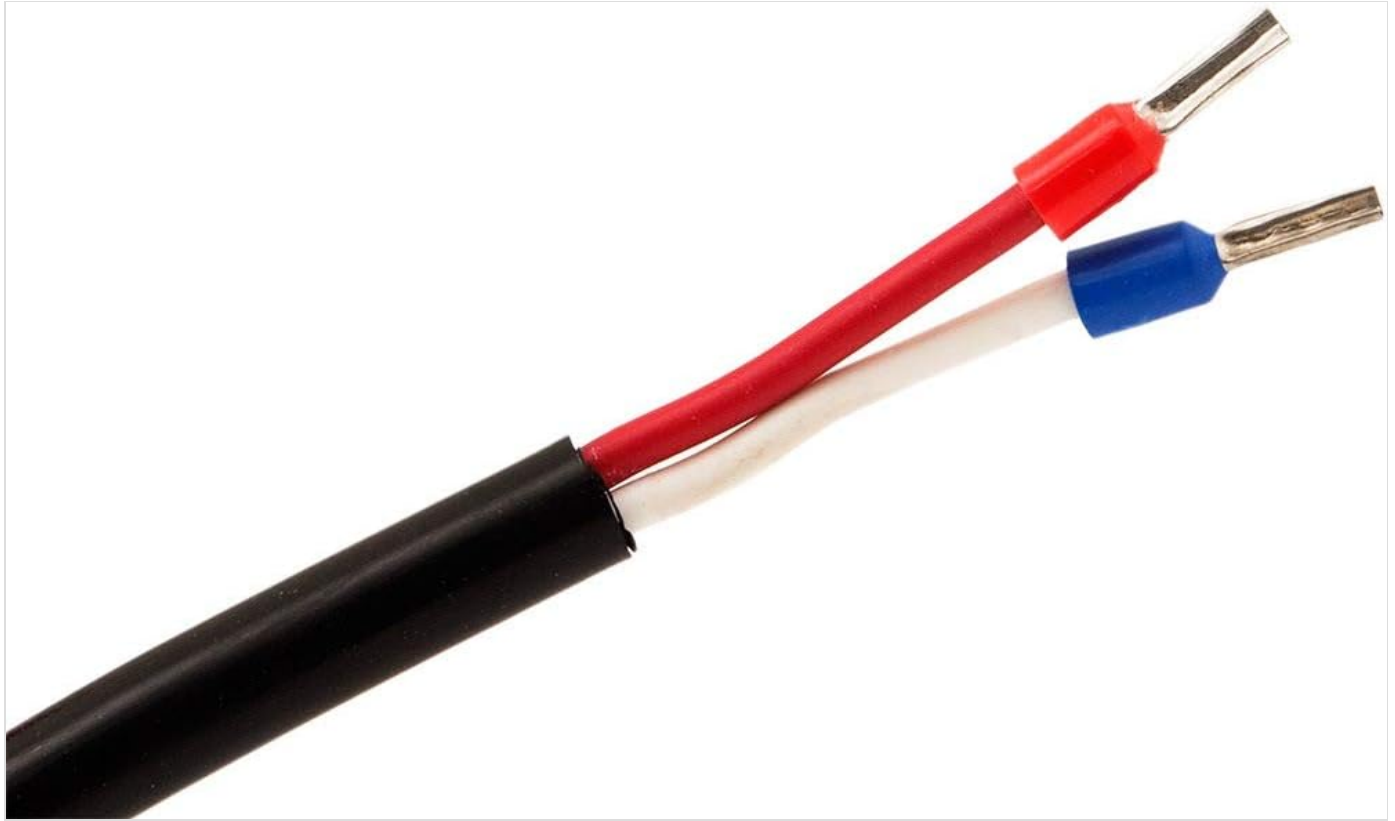
### 5.1 Mounting

1. Select a stable, flat surface capable of supporting the siren's weight (11.9 lbs / 5.4 kg). The siren is designed for wall mounting.
2. Position the siren and mark the locations for the two mounting screws on the base.
3. Drill pilot holes if necessary, then secure the siren's base using appropriate screws (not included). Ensure the siren is firmly attached and does not wobble.

### 5.2 Electrical Connection

The siren requires a 120V AC power supply. It features two wires for connection.

1. Ensure the power source is OFF at the circuit breaker.
2. Connect the two wires from the siren to your 120V AC power source. Polarity is generally not critical for AC motors, but follow local electrical codes and best practices.
3. The siren can be activated by a manual switch (not included) or integrated into an existing alarm system. Connect the power supply through your chosen activation method.
4. Once connections are secure, restore power and test the siren.



*Figure 2: Example of two-wire connection for the siren.*

## 6. OPERATION

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The VXS-8100 siren is designed for industrial and emergency warning applications. It can be activated via a simple switch or integrated into automated systems.

### 6.1 Activation

To activate the siren, apply 120V AC power to its input wires. This can be done through:

- A manual ON/OFF switch (not included).
- Integration with systems such as smoke detectors, gas sensors, timers, or anti-theft alarms that provide a 120V AC output upon trigger.

### 6.2 Continuous Operation and Thermal Protection

The siren's heavy-duty motor includes a thermal overload protector. Depending on the ambient temperature, the siren is designed to operate continuously for approximately 1 to 3 minutes. After this period, the thermal protector will activate to prevent overheating, and the siren will require a cool-down period before it can be reactivated. This mechanism ensures the longevity and reliability of the unit.

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Video 1: Sample sound of the Vixen Horns Industrial Electric Motor Siren 120V. This clip is for reference; actual sound may vary based on installation.

## 7. MAINTENANCE

The Vixen Horns VXS-8100 siren is designed for minimal maintenance. Regular inspection and cleaning will ensure optimal performance.

- **Cleaning:** Periodically wipe the exterior of the siren with a damp cloth to remove dust and debris. Do not use abrasive cleaners or solvents.
- **Inspection:** Annually inspect the mounting hardware for tightness and the electrical connections for any signs of wear or corrosion.
- **Ventilation:** Ensure the siren's motor housing is free from obstructions to allow for proper airflow and cooling.

## 8. TROUBLESHOOTING

If the siren does not operate as expected, refer to the following troubleshooting steps:

| Problem                            | Possible Cause                                                                     | Solution                                                                                                                               |
|------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Siren does not activate            | No power supply<br>Loose electrical connections<br>Faulty activation switch/system | Check power source and circuit breaker<br>Inspect and secure all wiring connections<br>Test the activation switch or integrated system |
| Siren activates then stops quickly | Thermal overload protector activated                                               | Allow the siren to cool down for several minutes before attempting reactivation.<br>Ensure adequate ventilation around the motor.      |
| Weak or distorted sound            | Obstruction in siren horn<br>Low voltage supply                                    | Inspect the siren horn for any blockages and remove them<br>Verify the power supply is consistently providing 120V AC                  |

## 9. WARRANTY AND SUPPORT

Vixen Horns provides a **1-year warranty** on this product, covering defects in workmanship and materials from the date of purchase. Additionally, lifetime support is available from our dedicated professional team. For warranty claims, technical assistance, or support, please contact Vixen Horns customer service. Refer to the product packaging or the official Vixen Horns website for contact information.

### ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

### Question

Example: How do I reset this device or fix this error?

### Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question