

HORNET™

Low Cost Outdoor Warning Siren

Replaces outdated electro-mechanical sirens economically.

Economical to Purchase

The Hornet™ siren is perfect for outdoor warning. Its straightforward design reduces cost without cutting corners on quality, reliability and performance.

Economical to Own.

Hornet cuts long term ownership costs by more than 50%. The speaker rotor is maintenance free, eliminating costly preventative maintenance. Two batteries provide 30 minutes of continuous full power alerting. That's half the batteries needed by DC powered mechanical sirens!

Solid State Efficiency and Reliability

The Hornet's rugged power amplifier and speaker driver are designed for outdoor warning and harsh environments. Hornet delivers powerful siren alerting without the problems associated with motor driven systems.

Tough & Reliable Power System

An advanced charging system provides increased battery reliability. The Hornet's cyclic battery charger is temperature compensated, assuring that batteries are charged to 100% capacity in all seasons and any kind of weather.

Experience

Hornet is designed and manufactured by the leader, Whelen Engineering. Whelen has installed more electronic sirens and electronic high power voice and siren systems worldwide than all other makers combined.

FEATURES

- Unmatched Alerting Ability.
- Solid State Efficiency and Reliability.
- Battery Powered, Operates Despite AC Power Failure.
- Temperature Compensated, Battery Charger.

- Six Distinct Warning Tones and SI TEST®.
- Local Controls and Timer Standard.
- Maintenance Free Speaker Rotor.
- Local Diagnostic Features.
- Optional Radio Controls.
- 24 Month User Direct Warranty.

WHELEN
ENGINEERING COMPANY, INC.



Hornet™ Speaker and Rotor



Electronics Cabinet

HORNET™

Specification Data

SPECIFICATION DATA

Battery powered, 118dB electronic siren featuring oscillating, directional speaker. Directional speaker uses one 400 watt speaker driver designed exclusively for high-power outdoor warning. The wiring path between speaker driver and power amplifier is hardwired and does not incorporate a brush ring commutator device.

The Hornet operates from two readily available, 60ah 12VDC batteries. Its battery supply is charged from a temperature compensated, cyclic charger, tested to withstand AC powerline surges according to IEC 801. Siren's rotor oscillates speaker at 2RPM and does not require preventative maintenance.

The Hornet does not require maintenance painting.

ENVIRONMENTAL DATA

Operating Temp.: -35°C to +60°C.

Storage Temp.: -65°C to +125°C.

Humidity: 0 to 95% (Non-Condensing).

WARNING TONE DATA

Tone	Frequency Range	Sweep Rate
Wail	410-675hz	4 sec/1 sec
Attack	410-490hz	1 sec/1 sec
Alert	465hz	Steady
Hi/Lo	410-650hz	.8 sec/.8 sec
Air Horn	465-650hz	Steady
Slow Whoop	300-465hz	3 sec

PHYSICAL DATA

Part	Height in/cm	Width in/cm	Depth in/cm	Weight lbs/kg
Speaker & Rotor	41.0 (104.2)	30.5 (77.5)	23.0 (58.4)	100 (45.4)
Electronics Cabinet	32.5 (82.6)	22.5 (57.2)	10.5 (26.7)	67 (30.5)*
Pole Top Bracket	30.0 (76.2)	12.0 (30.5)	10.0 (25.4)	71 (32.3)

*Less batteries. Two batteries, Delco DC74, add 90lbs (40.9kg).

ACOUSTIC DATA

SPL: 118dB @100*

Effective Range:

Estimated 70dB perimeter, 2,800**
60dB perimeter, 5,600**

*Measurement represents repeatable results, +/-2dB, to stated levels when tested according to published guidelines under free field conditions and warning system is maintained to factory specifications.

**Estimated 70dB/60dB perimeter is based on Federal Emergency Management Agency's (FEMA) -10db per distance doubled path model.

ELECTRICAL DATA

AC Line Surge: To IEC 801.

Battery Charger Input: 120VAC, 60hz, 3a fuse.

Battery Charger Output: 5a, 28VDC.

Batteries: 2-12v, 60ah, lead calcium. User supplied.
Recommended Battery: Delco DC74.

Standby Current: 40ma.

Operating Current: 22a, 24VDC.

Power Amplification: 400 watts.

Rotor Motor: < 1a, 24VDC.

CONTROLS & INDICATORS

Power Amplifier/Speaker Driver: Operational.

Battery Charger: Active.

Local Control Panel: Power-UP; Command Timing; DC ON; AC ON.

Function Selections: Wail, Attack, Alert, Hi/Lo, Noon, Test, Air Horn, Slow Whoop, SI TEST® tone, Stand-by & Cancel.

Optional Radio Controls: Two-Tone Sequential or DTMF.

ORDERING INFORMATION

Basic System: Speaker Assembly. Directional speaker with one-400 watt speaker driver, rotor and 50' of speaker and rotor wiring cables. Electronics cabinet: two compartment, natural finish aluminum case assembly, one power amplifier, tone generator, local control & timer, oscillation module and temperature compensated battery charger. Batteries not included.

Options: Pole Top Bracket: HPTB.
Batteries: BSETHOR.
DTMF Radio Controls*:
HDTMFVL, HDTMFVH & HDTMFU.
Two-Tone Sequential Radio Controls*:
HTTVL, HTTVH & HTTU.
Two-Tone Sequential Tone Modules: HTTM (A-E)
Tone Squelch: HTSQRX.
Solar Power Option: HSBC40

*Available frequencies:
VHF Low Band (V-L), 30-50Mhz.
VHF High Band (V-H), 150-170Mhz.
UHF (U), 450-470Mhz

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