

WX-1599 WET X FULL-RANGE TWO-WAY 15-INCH LOUDSPEAKER (90° X 90°)



TECHNICAL SPECIFICATIONS

SYSTEM

| | |
|-------------------------------|---|
| Loudspeaker Type: | Full-range, two-way, weather-resistant |
| Operating Range: | 40 Hz to 22 kHz (-10 dB) |
| Frequency Response: | 50 Hz to 18 kHz (-3 dB) |
| Max Input Ratings: | 600W RMS, 1200W Program 69 volts RMS, 138 volts momentary peak |
| Maximum Output: | 126 dB SPL / 132 dB SPL (peak) |
| Sensitivity (1W / 1m) | 98 dB (63 Hz - 16 kHz 1/3 octave bands) |
| Free Space SPL: | 98 dB (250 Hz - 4 kHz speech range) |
| Nominal Impedance: | 8 ohms, 6.8 ohms @ 9 kHz minimum |
| Coverage Pattern: | 90° H x 90° V |
| Axial Q / DI: | 9.09 / 9.59, 2 kHz to 16 kHz |
| Crossover Frequency: | 1.5 kHz |
| Recommended High Pass: | 50 Hz 24 dB / Octave |

TRANSDUCERS

LOW FREQUENCY

| | |
|------------------------------------|--|
| Driver: | 1 x 15" cone, 3" voice coil, weather-treated |
| Sensitivity (1W / 1m): | 96 dB (60 Hz - 1.1 kHz) |
| Power Capacity (Cont/Peak): | 600W / 2400W |
| Nominal Impedance: | 8 ohms |

HIGH FREQUENCY

| | |
|------------------------------------|----------------------------------|
| Driver: | 1 x 2.87" voice coil / 1.4" exit |
| Sensitivity (1W / 1m): | 106 dB (1 kHz - 20 kHz) |
| Power Capacity (Cont/Peak): | 90W / 360W |
| Nominal Impedance: | 8 ohms |

PHYSICAL

| | |
|---|---|
| Input Connection: | 12' (4m) SJOW #16-gauge cable with stripped ends |
| Enclosure: | Trapezoidal fiberglass outer shell and face lined and reinforced with 18mm (7-layer) marine grade plywood |
| Finish: | Black or White gel coat fiberglass |
| Mounting/Rigging Provisions: | Two 1/2"-13 rigging points; 304SS zinc-rich dual-layer powder-coated bracket included; Integral 1/2"-13 safety cable mounting point |
| Grille: | 3-Layer Weather-Stop™ backing, 304SS zinc-rich dual-layer powder-coated |
| Environmental: | IP56 per IEC 529 |
| Dimensions – H x W x D: (horizontal orientation) | 19.5" x 33.63" x 20.5" (495.3 x 854.1 x 520.7 mm) |
| Loudspeaker / Unit Weight: | 115 lbs (52.3 kg) / 133 lbs (60.3 kg) with bracket |
| Shipping Weight: | 162 lbs (73.5 kg) |

CONFIGURE-TO-ORDER (CTO) OPTIONS

| | |
|---------------------------|--|
| Custom Colors: | Custom color exterior-grade paint finish, RAL or custom color matching available |
| Extra Hang Points: | 2 or 3 additional per side (several options available) |
| Bi-amp: | Includes 4-conductor, 4-color SJOW cable |
| Transformer: | 70V: 400W / 200W / 100W 100V: 400W / 200W |
| Cable: | Custom length |

NOTE: All wattage figures are calculated using the rated impedance.

Available in Black or White (standard)



APPLICATIONS

- Theme and Amusement Parks
- Outdoor Entertainment Centers
- Cruise Ships
- Multipurpose outdoor and indoor venues
- Stadiums
- Music Pavilions
- Musical Fountains
- Water Parks

FEATURES

- 90° x 90° horn pattern
- Large format waveguide delivers excellent pattern control
- 1.4" (36mm) exit / 2.87" (72.2mm) VC HF transducer
- 15" (381mm) / 3" VC LF weather-treated transducer
- Passive operating mode standard
- All-weather, multi-layer glass composite shell over 18mm 7-layer marine grade plywood interior
- Dual-layer powder-coated 304 stainless steel mounting bracket included
- Stainless steel hardware
- Available with optional built-in 400W transformer for 70V / 100V applications

DESCRIPTION

The WX-1599 is a premium quality, large format, full-range loudspeaker system. The driver complement consists of a 15" (381mm) high power low frequency driver and a 1.4" (36mm) exit / 2.87" (72.9mm) edgewound voice coil compression driver. The large format horn flare delivers well controlled 90° x 90° dispersion, and utilizes high order crossovers to minimize band overlap.

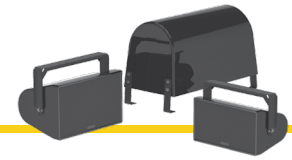
The WX-1599 is used in passive operating mode. The passive mode is designed to deliver outstanding performance without the use of a processor. A custom bi-amp option can allow greater system flexibility allowing a compatible processor to enhance the LF response.

The WET X Series is designed to provide high quality music and voice reproduction in applications requiring extreme weather-resistance. The WET X enclosure features unmatched durability and ruggedness and is engineered for use in permanent installations.

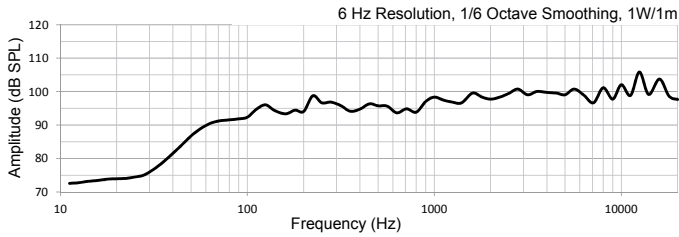
The loudspeaker enclosure and faceplate are constructed of multi-layer glass composite lined with 18mm (7-layer) marine grade plywood, resulting in extreme structural strength. All exposed hardware is stainless steel or powder-coated aluminum extrusion. A weather-resistant 304SS, dual-layer powder-coated horizontal bracket is included for mounting.

Community strives to improve its products on a continual basis. Specifications are therefore subject to change without notice.

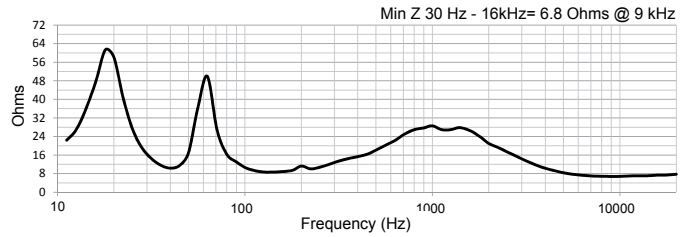
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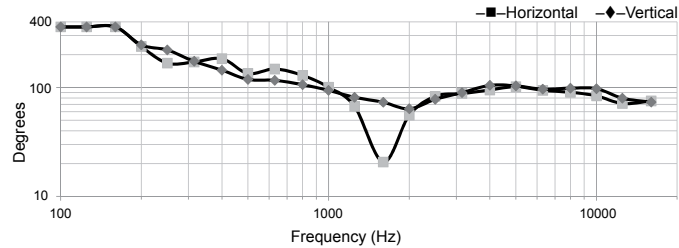
FREQUENCY RESPONSE



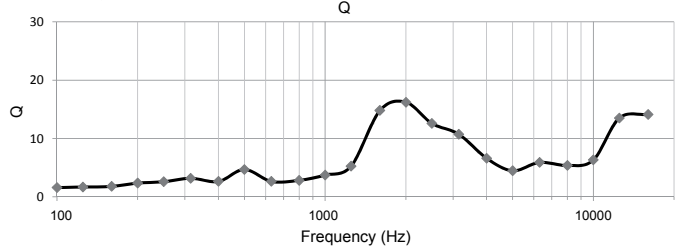
IMPEDANCE



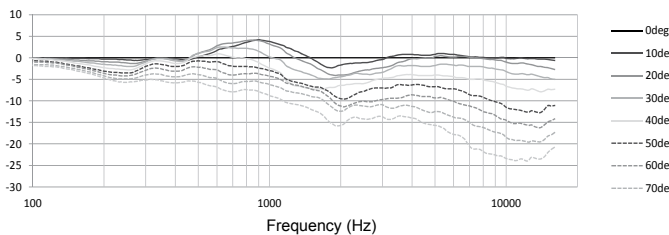
BEAMWIDTH



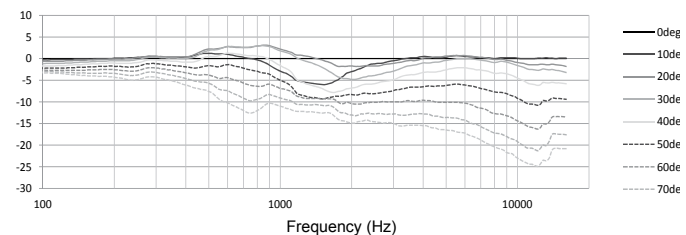
AXIAL Q



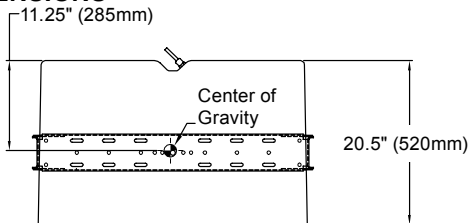
HORIZONTAL OFF-AXIS FREQUENCY RESPONSE LEFT



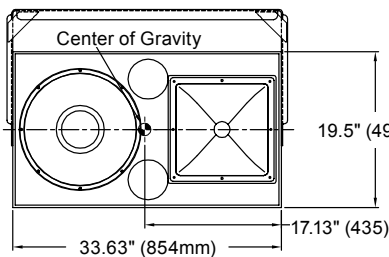
HORIZONTAL OFF-AXIS FREQUENCY RESPONSE RIGHT



DIMENSIONS

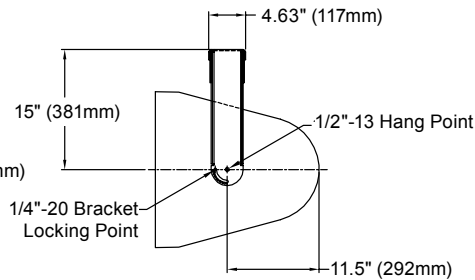
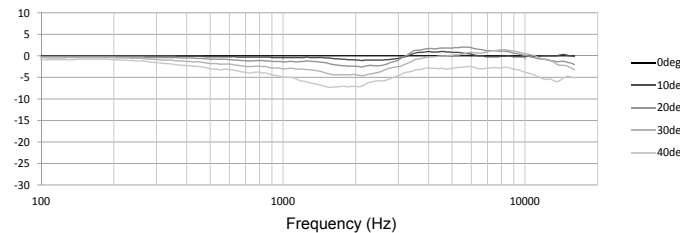


TOP / BRACKET

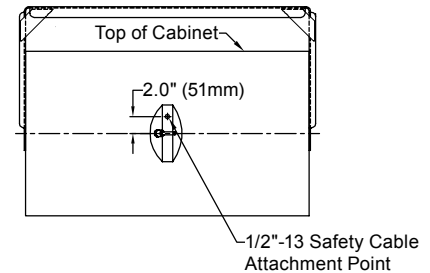


FRONT

VERTICAL UP/DOWN OFF-AXIS FREQUENCY RESPONSE



SIDES



BACK

ARCHITECTURAL SPECIFICATIONS

The loudspeaker system shall be a two-way, full-range bass reflex trapezoid-shaped design with one 15 in. (381 mm) LF driver and one 1.4 in. exit HF driver with a titanium diaphragm mounted to a 90° x 90° HF fiberglass horn. Drivers shall be connected to an integral crossover with a crossover frequency of 1.5 kHz. The input connection shall be one 12' (4m) SJOW #16-gauge cable with stripped ends. The loudspeaker enclosure shall be a multi-layer glass composite with a 16-gauge perforated stainless steel grille backed by open cell foam and a high density polyester mesh cloth. There shall be two 1/2"-13 rigging points. 95% of the shell interior shall be lined with wood, with 18mm 7-layer cross-laminated marine grade plywood on all interior flat surfaces. All wood shall be sealed with fiberglass resin. The system shall have a frequency response of 50 Hz to 18 kHz (-3 dB SPL), an input capability of 69V RMS, 98 dB sensitivity at 1W / 1m at 8 ohms nominal impedance. The nominal dispersion shall be 90° H x 90° V from 2 kHz to 16 kHz. The loudspeaker shall be 19.5" (495.3 mm) H x 33.63" (854.1 mm) W (front) x 20.5" (520.7 mm) deep and shall weigh 115 lbs (52.3 kg).

CAUTION: Installation of loudspeakers should only be performed by trained and qualified personnel. It is strongly recommended that a licensed and certified professional structural engineer approve the mounting design.