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
- **Maximum Output:** 69 volts RMS, 138 volts momentary 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, 8.2 ohms @ 140 Hz minimum
- **Coverage Pattern:** 90° H x 60° V
- **Axial Q / DI:** 11.15 / 10.47, 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):** 107 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:** 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.

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 60° rotatable 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-1596 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” (72.2mm) VC HF transducer and a 1.4” (36mm) exit / 2.87” (72.9mm) edgewound voice coil compression driver. The large format rotatable horn flare delivers well controlled 90° x 60° dispersion, and utilizes high order crossovers to minimize band overlap.

The WX-1596 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.
WX-1596 WET X FULL-RANGE TWO-WAY 15-INCH LOUDSPEAKER (90° X 60°)

FREQUENCY RESPONSE

6 Hz Resolution, 1/6 Octave Smoothing, 1W/1m

IMPEEDANCE

Min Z 30 Hz - 16kHz= 8.2 Ohms @ 140 Hz

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.

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 60° 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 60° 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.