

## All-Weather 70V/100V Indoor/Outdoor Loudspeaker For Commercial Applications

The Atrium5c is specifically designed for commercial applications, including restaurants, fitness clubs, outdoor themed venues, or any application where foreground/background music and paging are needed.

The Atrium5c can be used in either 70V or 100V distributed line sound systems and has five tap settings.

- **70V line:** normal pass-through for standard 8 Ohm operation, 7.5 W, 15 W, 30 W and 60 W.
- **100V line:** normal pass-through, 15 W, 30 W and 60 W.

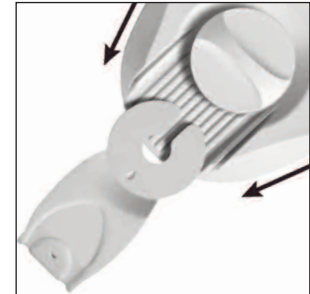
The Atrium5c comes with the Speed-Lock™ Mounting System, for easy, safe one-handed installations even in difficult locations. The simple mounting procedure means fewer parts to “juggle.” Install the bracket and the speaker simply clicks into place.

For durability and dependable performance over time, the Atrium5c exceeds baseline industrial and military specifications for environmental endurance (ASTM D5894-UV Salt Fog, Mil Standard 810 Immersion, Mil-Std 883 Method 1009.8 for salt and corrosion.)

Finish details include aluminum grilles and brackets, with stainless steel and brass hardware and nickel-plated 5-way binding posts for secure hookups. The Atrium5c is available in durable, weatherproof black or white paintable finishes.

### Key Features

- **70V/100V Transformer** for distributed-line sound systems:  
Five Tap Settings: normal pass-through for standard 8 Ohm operation; 7.5 W, 15 W, 30 W and 60 W settings.
- **Driver Components:** anodized aluminum tweeter dome with rubber surround and mineral-filled polypropylene mid-range cone with rubber surround.
- **Broad coverage baffle design.**
- **Polk Audio All-Weather Certified.**
- **Speed-Lock Mounting System.**
- **Paintable black or white finish.**
- **Overload protection circuitry.**



### Speed-Lock Mounting System

Just slide the speaker onto the bracket until you hear the “click.” The Speed-Lock mounting system ensures easy, safe one-handed installations and no-slip setting of the speaker angle.

**Architectural Specifications**

The loudspeaker shall consist of a 127mm (5") low-frequency transducer, 19mm (3/4") high-frequency transducer, and a frequency dividing network installed in a sealed enclosure. The low-frequency voice coil shall be 25 mm (1") in diameter.

**Performance specifications of a typical production unit shall be as follows:**

Usable frequency response shall extend from 60 Hz to 20 kHz (10dB below rated sensitivity, in full-space, with no external equalization). The loudspeaker shall be equipped with a transformer for use in either 70V or 100V distributed-line sound systems with five (5) taps selectable by rotary switch. The taps shall be nominally normal pass-through for standard 8 Ohm operation:

- **100V Line:** Tap1 = Pass through, Tap 2 = 15 W, Tap 3 = 30 W Tap 4 = 60 W, Tap 5 is not used
- **70V Line:** Tap1 = Pass through, Tap 2 = 7.5 W, Tap 3 =15 W, Tap 4 = 30 W, Tap 5 = 60 W

The frequency dividing network shall have a crossover frequency of 2 kHz. Rated power capacity of the components and network shall be at least 80 W continuous program power, defined as 3 dB above a test signal of filtered random noise conforming to international standard IEC268-5 (shaped pink noise with a peak-to-average ratio of 6 dB), for 100 continuous hours duration.

The system shall be protected against damage from occasional over-powering via full range series lamp and an automatic re-settable fuse (poly switch) that limits the power to the network and transducers. The Atrium5c shall have a dispersion pattern that can cover a 90° horizontal by 90° vertical area.

The enclosure shall be constructed of high-impact mineral-filled polypropylene for protection against the elements in outdoor applications and for paintability.

The grille shall be aluminum for resistance against rusting, it shall be powder-coated, and shall be pressed-fit around the baffle to keep it in place when facing downward.

The low frequency transducer shall have a polypropylene-coated cone and a butyl rubber surround, which shall extend seamlessly over the edge of the speaker frame for protection against the elements. The high frequency transducer shall be constructed of anodized aluminum for weather resistance.

The system shall withstand Mil Spec 810 testing with specified time durations for exposure to the following environments with no effect on its acoustical performance or structural integrity: salt spray (method 509.3), temperature -40°C to 85°C (method 501.3 and 502.3), 95% humidity (method 507.3) and ultra-violet (method 505.3). The system shall have an IEC 529 splash proof rating of IP-X4.

The loudspeaker shall be rotatable over a minimum of ±180° via a Speed-Lock mounting system.

The external wiring connectors shall be spring loaded and nickle-plated, and shall accept bare wire up to 12 gauge, single or dual banana-type connectors with 19 mm (3/4") spacing. Overall cabinet dimensions shall be no greater than 261.9 mm (10 5/16") high by 171.4 mm (6 3/4") wide by 196.8mm (7 3/4") deep and the unit shall weigh no more than 2.8 kg (6.2 lbs).

The finish shall be a paintable black or white.

The system shall be the Polk Audio Atrium5c with included Speed-Lock mounting system.

**SPECIFICATIONS**

<b>Atrium5c</b>	
Frequency Range (-10 dB)	60 Hz-20 kHz
Power Capacity	Components and network: 80 W continuous program transformer: per each listed tap rating (IEC pink noise, 100 hrs)
Tap Settings	100V Line: Tap1 = pass through Tap 2 = 15 W Tap 3 = 30 W Tap 4 = 60 W Tap 5 is not used  70V Line: Tap 1 = pass through Tap 2 = 7.5 W Tap 3 =15 W Tap 4 = 30 W Tap 5 = 60 W
LF Driver	5" (127mm) mineral-filled bi-laminate polymer with rubber surround
HF Driver	3/4" (19mm) anodized aluminum dome with rubber surround
Enclosure Material	mineral filled polypropylene
Environmental	Conforms to Mil Spec 810 for humidity, salt spray, temperature & UV. IEC 529 IP-X4 splash-proof rating.
Polk Audio All-Weather Certification	Atrium Series speakers exceed baseline industrial and military specifications for environmental endurance. Polk's own all-weather for environmental endurance. Polk's own all-weather certification goes further, so you're assured every Atrium loudspeaker can effortlessly withstand harsh conditions, whether high temps or heavy rains.
Dimensions	10 5/16" H x 6 3/4" W x 7 3/4" D (261.9mm x 171.4 mm x 196.8 mm) Net Weight (ea): 2.8 kg (6.2 lbs)
Included Accessories	Speed-Lock Mounting System

Specifications, dimensions and features subject to change without notice. For more information call us at 1-800-377-7655 (USA and Canada). Outside of North America call +1 (410) 358-3600.