



PRECAUTIONS FOR USE OF LL9161

The Lubell LL-9161 underwater speaker must be used with the Lubell AC202C transformer box. The AC202C provides electrical isolation, impedance matching, and a series resistor that flattens the response and limits current during broad-band operation. Input of box is fitted with Switchcraft #11 1/4" (6.35 mm) mono phone jack, and output is fitted with Conxall 4182-3SG-300 (pin 3 hot). Supplied with 18" speaker cord with 1/4" male connectors.

The LL-9161 and AC202C may be used with UL listed commercial sound amplifiers having "Class 2" rated speaker outputs. Because the LL9161 presents a reactive load, it must be powered by a Class AB amplifier rated between 125 watts to 250 watts. Recommended amplifiers would include the Bogen HTA250A and Bosch PLE-1P240 power amplifiers. Amplifier and transformer box must be located in dry air conditioned area, and power cord must connect to GFCI protected outlet.

For single or dual LL9161 applications, use Bogen HTA250A or Bosch PLE-1P240 4 OHM and COMMON taps.

Connect inputs of AC202C transformer boxes in parallel and in phase only (dual speaker use).

Do not exceed 35 Vrms to the input of the AC202C transformer box. For added protection against burn-out of the speaker, install a 3 amp fast blow fuse in series with the white hot lead connecting the AC202C box to the 8 OHM speaker terminal on the amplifier.

Frequency Range: 200Hz-20kHz

Maximum Voltage/Current: 35 Vrms or 3A, whichever comes first (3A fast-blow fuse recommended)

Maximum Output: 185dB/uPa/m @ 1 kHz

Depth Rating: 50' (15.24 meters) maximum; 6' (1.83 meters) minimum

Cable: Impulse IE2M-7/16 on 75' 18/2 SJOW, fitted with Conxall 3182-3PG-524 (pin 3 hot)

Do not suspend the LL-9161 from the power cable

Do not operate the LL-9161 out of the water

Inspect speaker cord before each use - replace if faulty (lubricating pin on cable before inserting into bulkhead connector with silicone grease).

The sound level produced in water close to the LL-9161 can be harmful to human hearing -- divers must maintain a minimum distance of 12' during operation.

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