

Hydrophone Instructions



2885 Country Dr. #190

St. Paul, MN 55117

800-348-1316

www.leaktools.com

Your Partner in Swimming Pool Water Conservation

The Hydrophone is an extremely sensitive microphone designed for picking up noises underwater. In most cases, when water escapes from the pool it produces a turbulence as it passes through the hole. The Hydrophone allows you to pinpoint leaks by listening for and locating the source of this sound.

Equipment Needed:

- Hydrophone (specific to the listening device used)
- Fisher XLT17 or XLT30 Listening Device



Set Up:

1. Assure pool is filled to a normal operating level.
2. Turn off circulatory system.
3. Attach the hydrophone to the back of the Listening Device's amplifier box.
4. Lower the hydrophone into the pool, turn the sensitivity control on, and very carefully raise the volume to the desired level.

Finding Leaks:

Check suspected leak areas with the Hydrophone

- Skimmers and Returns – The hydrophone can be pushed or dropped into plumbing lines and slowly moved around the bonds between fitting and pool shell.
- Lights– remove the light and check inside the light niche paying special attention to the conduit and where it attaches to the niche. Also check the seal around the niche where the niche bonds to the pool shell.
- Main Drains and Cracks – To reach these location in the bottom of the pool it is helpful to tape the hydrophone to the end of a telescoping pole.

Most leaks will create a “jet engine” type of sound that increases in volume as you move closer to the leak.

Tips:

- You can get a good idea of the type of sound you are listening for by discharging a syringe underwater.
- Turn the volume down or use the mute switch when moving from one area to another.
- Leaks near the surface may be more difficult to hear because of the reduced pressure forcing water out of the leak, and because of confusing surface noises that are transferred into the water. Use the frequency filter to eliminate confusing noises and highlight the leak sound.