



Sonic LG control

LG SOUND
 Gerrit van der Veenstraat 75
 2321 CD Leiden
 The Netherlands
 Tel. : +31 71 528 1950
 Fax : +31 71 528 1952
 Email : info@lgsonic.com
 Web site : www.lgsonic.com

Some algae types proven effectively killed by ultrasound

1. Scenedesmus quadricauda	24. Dictyosphaerium
2. Cryptomonas erosa	25. Coelastrum
3. Rhodomonas minuta	26. Chlorella
4. Cryptomonas sp.	27. Micractinium
5. Merismopedia tenuissima	28. Heteroleibleinia sp.
6. Scenedesmus acuminates	29. Leptolyngbya sp.
7. Gloeocystis sp.	30. Pseudanabaena sp.
8. Ankistrodesmus falcatus	31. Achnanthes lanceolata
9. Oocystis pusilla	32. Cocconeis placentula
10. Phacus sp.	33. Fragilaria capucina
11. Gomphonema sp.	34. Chlamydomonas sp.
12. Nitzschia sp.(only certain sp.)	35. Oocystis sp.
13. Pinnularia sp.	36. Stigeoclonium sp.
14. Navicula minima	37. Closterium sp.
15. Ulothrix sp.	38. Stigeoclonium sp.
16. Anabaena	39. Pseudoanabaena sp.
17. Aphanizomenon	40. Achnanthes minutissima
18. Microcystis	41. Gomphonema parvulum
19. Cladophora	42. Fragilaria ulna
20. Spirogyra	43. Scenedesmus abundans
21. Amphizomenon	44. Oedogonium sp.
22. Cyclotella	45. Others...
23. Lagerheima	Etc...

Algae types with 75%-95% ultrasound effectiveness

1. Microcystis Colonial Algae
(produces a gelatinous mass and harder to control in larger colonies, 75% ultrasound effectiveness)
2. Pithophora
(Cotton-ball Roaming Algae, produces hard cell walls and takes 6-8 weeks for control, 95% ultrasound effectiveness)
3. Cyndrospermopsis Raciborskii
(free roaming algae, light driven, 75% ultrasound effectiveness)

Some algae types NOT killed by ultrasound

1. Chara (mimics the habits of vascular plants)
2. Nitella (mimics the habits of vascular plants, less rigid structure than Chara)
3. Euglena (mimics a Protozoa, free swimming and light driven)
5. Oscillatoria (free roaming algae, resembles and moves like a green worm)
6. Pediastrum boryanum
7. Scenedesmus obliquus
8. Nitzschia palea
9. Navicula (certain sp.)

UV

If a UV system is installed together with the LG Sonic system.

RESULT → because of the ultrasound less algae would be present in the water thus clearer water. This will result in much better eradication of the other micro-organisms such as virus, bacteria, fungus & parasites by the UV. UV also helps in damaging certain algae (mostly planktonic algae such as most colonial forming algae, unicellular algae). On this way can UV facilities the control of algae which are less susceptible to ultrasound (such as *Pediastrum boryanum* & *Scenedesmus obliquus* and some of the other algae stated in the list "some algae not killed by ultrasound). (Large water volume is one of the major limited factor for UV- water treatment.)