



The presence of any algae or other fouling species and parasites in fish-farms ponds or pens is a major problem for aquaculture farmers. Such infestations can lead to fish disease and consequent financial loss.

As a result, some fish-farmers are forced to apply toxic chemicals and pesticides to combat these problems.

ASM has devoted considerable effort and research to the challenges faced by the aquaculture industries in an effort to find more cost-effective and permanent preventative solutions to the problems posed by algae, other fouling species, parasites and excess nitrates.



Installation of ASMP ultrasonic anti-fouling systems at aquaculture facilities in Malaysia, Australia , New Zealand and Scotland have resulted in very significant advantages to the aquaculture businesses .

1. Less exposure to harmful chemicals and pharmaceuticals; long-term exposure to chemicals and pharmaceutical products used in 'traditional' mariculture may be harmful to humans.
2. Use of ASM ultrasonic technology greatly reduces the need for chemicals and pharmaceuticals thereby reducing the risks of exposure.
3. Increased productivity – through very significant increases in survival rates and biomass (and hence yield) achieved in all types of fish over time.
4. Reduced pond, net cleaning and associated costs, both financial and in terms of pollutants.
5. Highly effective control of bio fouling , odour and parasites.
6. Reduced incidence of parasite attack on the fish stock as the juvenile parasites and pathogens don't settle in areas exposed to ultrasound.
7. ASM Ultraviolet and ultrasonic wave technology is proven to significantly remove filamentous algae, parasites, bacteria, viruses and to reduce nitrates in an environmentally friendly way!
8. Low footprint. Low effective operating cost; e.g. ASMP-800 uses 2.2Amp at 230VAC per hour.
9. We are confident that the use of ASMP systems will result in significant productivity gains with associated reductions in direct cost per kg produced in an environmentally sustainable way!



ASMP-Series

Ultrasonic fouling, algae and parasite control systems



ASMP Series Technical Specifications May 2014	ASMP-200	ASMP-400	ASMP-600	ASMP-800	ASMP-1000	ASMP-1200
Applications						
• Cooling towers	✓	✓	✓	✓	✓	✓
• Lakes, pools and ponds	✓	✓	✓	✓	✓	✓
• Waste & water treatment plants intakes	✓	✓	✓	✓	✓	✓
• Water storage tanks & reservoirs	✓	✓	✓	✓	✓	✓
• Horticulture	✓	✓	✓	✓	✓	✓
• WWTP lagoons & lakes, medium flow,	X	✓	✓	up to 15,000m ²	up to 19,000m ²	up to 21,000m ²
• Offshore-onshore aquaculture fish pens, high flow, max. net diameter	X	✓	✓	up to 10-20m	up to 20-40m	up to 20-60m
Operating Temperature range	-30 ~ +50° Celsius					
Operating Humidity Range	0 ~ 80%					
Conformed & Approved to	CE US E224558					
Control Box	Polyester-fibreglass ventilated enclosure fitted with locks ip 65					
Output Power—high speed sonic pulsing up to: Ultrasonic waves watts	200	400	600	800	1000	1200
Dual input. Voltage maximum use per hour						
• 230 VAC ± 4% 50/60 Hz (regulated/low noise)	1.0 Amp	1.4 Amps	1.6 Amps	1.9 Amps	2.4 Amps	3.4 Amps
• 120 VAC ± 4% 50/60 Hz (regulated/low noise)	2.0 Amp	2.8 Amps	3.2 Amps	3.8 Amps	4.8 Amps	6.8 Amps
Rolling Drive Frequency	Up to 120KHz	Up to 120KHz	Up to 120KHz	Up to 120KHz	Up to 120KHz	Up to 120KHz
Frequencies (kHz)	Programmable	Programmable	Programmable	Programmable	Programmable	Programmable
LED Status Indicators	Frequency & power output	Frequency & power output	Frequency & power output	Frequency & power output	Frequency & power output	Frequency & power output
Circuit Protection	Built-in protection against overheating lightening strikes voltage safety earth leak switch, voltage protector and overloading					
Transducers (stainless steel sonic pulse amplifiers)						
Maximum power Ultrasonic waves	1 x 200W	2 x 200W	3 x 200W	4 x 200W	5 x 200W	6 x 200W
• Transducer Housing	Grade 316 stainless steel measuring 120 x 130mm, weight 3.2kg each					
• Sonic face plate - stainless steel	Up to 200W	Up to 200W	Up to 200W	Up to 200W	Up to 200W	Up to 200W
• Transducer shielded flexible, cable waterproof	1 x 20m	2 x 20m	3 x 20m	4 x 20m	5 x 20m	6 x 20m

- Notes:**
- All systems are supplied complete with an Installation Manual, the Control Box, the requisite number of transducers and the corresponding number of transducer cables.
 - The standard transducer cable length as supplied is 20m.cable. Custom length cables can be supplied upon request up to the maximum useable length of 150m.cable.
 - We reserve the right to modify or change the specifications to improve or up-grade our products at any time without prior notification .
 - The systems are supplied and shipped in purpose built packaging cartons. The number, size and weight of the cartons varies depending on the model. See individual product brochures for details.

Hardware Guarantees	Optional Items:
<ul style="list-style-type: none"> 1 year on electronics 1years on PCB engine board 1years on transducers 	<ul style="list-style-type: none"> ASM-Continuous custom transducer cable up to 150m Asm-S1500 complete solar panel system 1500W/wind turbine generating over 36Kwh per day Customised brackets and floats



Asm International Pty Ltd
Qld 4305, Australia



Net without ASM device - 8 weeks after cleaning. Net almost fully clogged with bio fouling

Net exposed to ASM ultrasonic device – 8 weeks after cleaning – no or very little fouling evident.



Asm international Pty Ltd
info@aquasonicmanagement.com
www.aquasonicmanagement.com