

Creating top quality irrigation water

—
The easy way



Our mission

**WE TAKE WATER
SERIOUS AND
MAKE IT BETTER.**



ultramins

Our vision

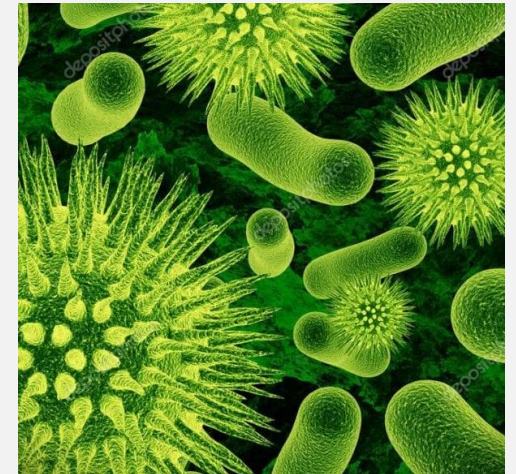
CREATING HEALTHY
IRRIGATION WATER
ENSURES BETTER YIELDS,
HEALTHIER CROPS AND BY
DOING IT IN AN
ENVIRONMENTALLY
FRIENDLY WAY, MAKES THE
WORLD A BETTER PLACE.



Familiar irrigation issues



- Usage of contaminated water – without any disinfection method
- Usage of untreated rain or river/lake water
- Covered storage – less algae but contaminated with pathogens
- Direct usage of reservoir water – with algae, biofilm and pathogens
- 'Clean' drain tank – isn't really clean (high summer)
- Deep water cultures with pathogens



The solution



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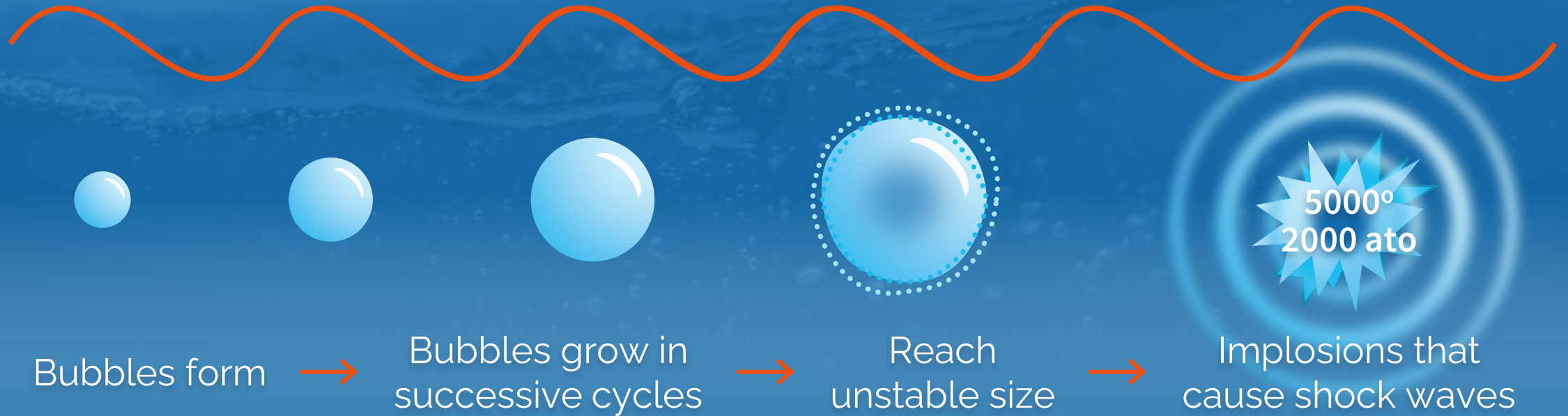
USAF™
CAVITATING
ULTRASONIC TRANSMITTER

Why choose for USAF™ Ultrasonic transmitters?

- You'll get the best possible water quality
- Treats all water, also fresh water
- Very effective, eliminates all pathogens even virus (fe. ToBRFV)
- Very low operational costs (45-70 Watt per hour)
- Works 24/7 - 365 days
- No extra work – even less work due to this system
- No maintenance
- No storm damage possible
- Plug and play system
- Peace of mind, it always works!

What's cavitation?

USAF™ Ultrasound transmitter



USAFTM Ultrasound transmitters

Have no impact:

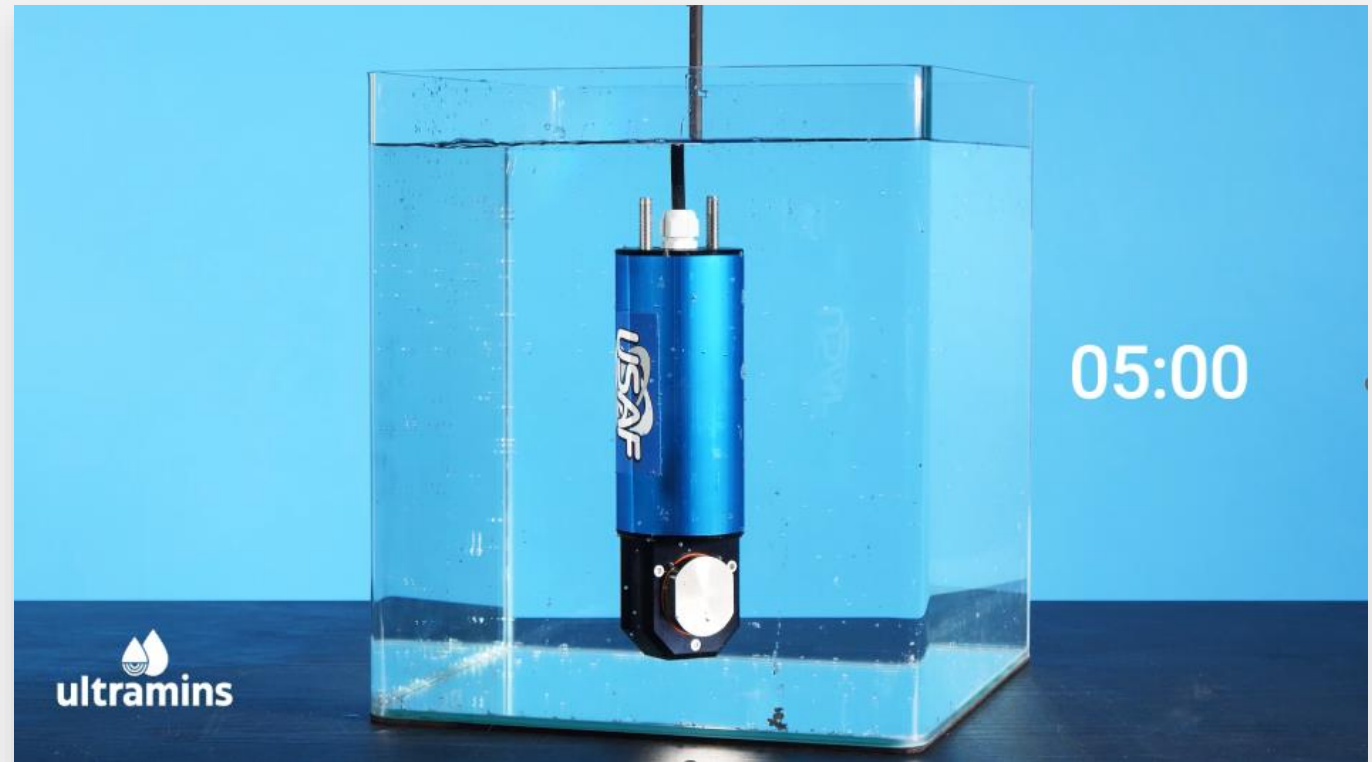
Covers
Fish
Mammals
Frogs
Birds

Impact on micro-organism:

Bacteria
Fungus
Biofilm
Virus

Algae
Mites
Larvae
Parasites

HOW DOES IT WORK?



[Watch on YouTube →](#)

How to use our USAF™ transmitters

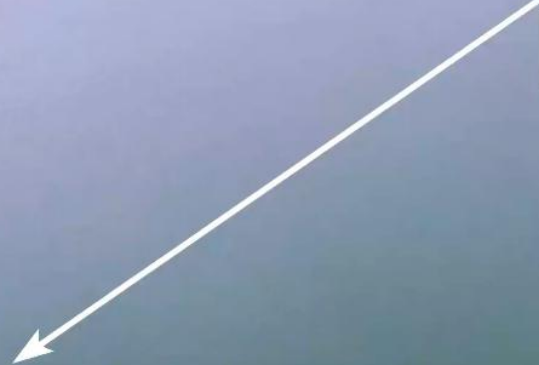




 **ultramins**
For irrigation water free from pathogens

UNTREATED WATER

FULL OF ALGAE





WATER TREATED BY
USAF™ ULTRASONIC
ALL ALGAE REMOVED



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**WATER TREATED BY
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Biggest advantages

- Top results guaranteed
- 7 years usage warranty
- No maintenance
- No monitoring
- Works 24/7 - 365 days



Filters stay clean

Filter 130 micron

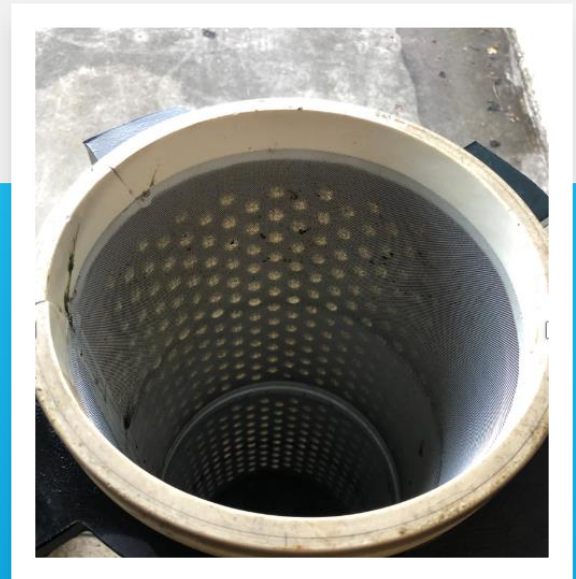
BEFORE

rinse every
3 hours



AFTER

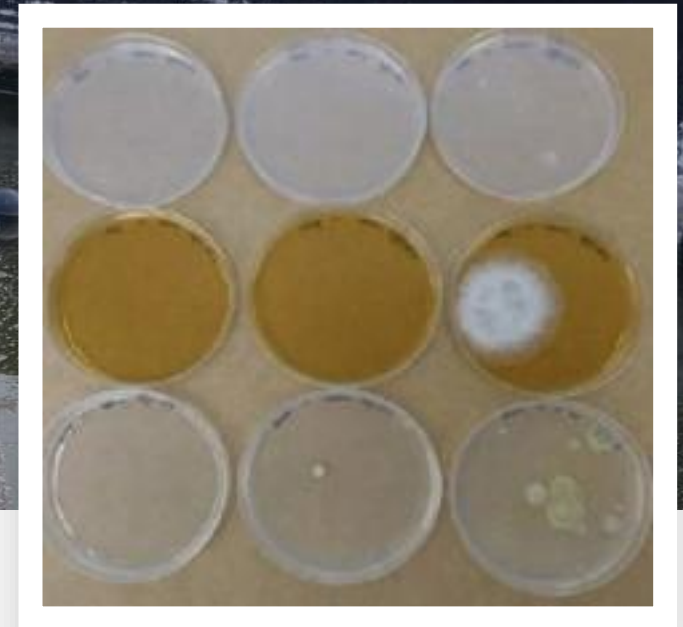
7 days
no cleaning



300m³ tank – Pythium level 5 – eliminated - in only 12 hours!

Resultaat	Schimmels	Resultaat	1	2	3	4	5	6
	Phytophthora spp.	1						
	Pythium spp.	5						
	Pythium dissotocum	1						

Detectie: 1 = zeer licht, 2 = licht, 3 = matig, 4 = redelijk, 5 = sterk, 6 = zeer sterk



Biofilm removal

With 1 USAF™ DT 100 ultrasonic transmitter



No visible biofilm in 23-year-old piping

USAF™ used in combination
with H₂O₂, 40ppm



Experimental Garden future growing

“ It is clear to me that this USAF™ system works to eliminate ToBRFV in the (drain) water. In addition, this system has major advantages over UV installations or gas disinfectants. This ultrasonic system does not require any maintenance and no monitoring is necessary.”



Biggest reservoir – 52,000,000 litres in The Netherlands



We deliver a sustainable and environmentally solution

- Our transmitters are very environmentally friendly, because they don't add anything to the water they just eliminate
- Energy efficient especially when compared with other systems
- Make other systems work better and more efficient (example UV, less H₂O₂)
- Eco friendly, only eliminates micro-organism but harmless for other life forms
- Long product life cycle; we have units working for 8 years+

Product range



USAF ST60



USAF DT100



USAF MT400



USAF MT600

What and how many to install where?

For reservoirs

<i>Elimination of:</i>	<i>What to place?</i>	<i>Pond size</i>	<i>Remarks</i>
Algae	1 Single Transducer 60 Watt	max. 1.000-1.250 m ²	(So, reservoir size 2.500m ² needs 2 ST 60-Watt units)
Algae and biofilm + pathogens	1 Double Transducer 60 Watt per max. 1.750 - 2.000m ²		(So, reservoir size 2.500m ² needs 2 DT 100-Watt units)

<i>Disinfection USAF™ ultrasonic system</i>	<i>What to place?</i>	<i>Silo size</i>	<i>Remarks</i>
Algae and biofilm	1 Double Transducer 100 Watt per tank	max. 5.000 m ³	Any tank with algae/biofilm
Algae and biofilm + pathogens	1 Multi Transducer 400 Watt per tank + additive	max. 250 m ³	This would be in the last tank before fertiliser addition
Algae and biofilm + pathogens	1 Multi Transducer 600 Watt per tank + additive	max. 500 m ³	This would be in the last tank before fertiliser addition

QUICK FIX options when current disinfection. Isn't working optimal

<i>Elimination of:</i>	<i>What to place?</i>	<i>Silo size</i>	<i>Remarks</i>
Algae and biofilm	1 Double Transducer 100 Watt per tank	max. 4.000 m ³	Any tank with algae/biofilm
Algae and biofilm + pathogens	1 Double Transducer 100 Watt per tank + additive	max. 200 m ³	This would be in the clean drain tank
Algae and biofilm + pathogens	2 Double transducers 100 Watt + additive	max. 500 m ³	This would be in the clean drain tank

What can we do for you?

Contact

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USAF™ ultrasonic