Animals in Mind
Animals in Education, Play and Mental Well-Being

Nano Tank
Water Quality Parameters

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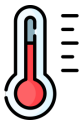
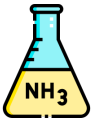
In our nano tank, shrimp, tetras, and snails coexist happily, making it crucial to maintain balanced water quality that meets the unique needs of each species. Since each requires slightly different conditions, finding a harmonious middle ground ensures they all thrive.

The water should be tested with the API water kits and the TDS meter at least once per week, or more often where the ammonia or Ph alert disks suggest there is a spike in levels, or where the inhabitants show any signs of unusual behaviour.

The table below lists the water quality needs for each species, along with a middle-ground value we'll use as our target to ensure the water balance is just right.

	Ember Tetra	Shrimp	Snails
 Temperature preferences	22–28 °C (73–84 °F)	15-30 °C (64–84 °F).	23-27°C (75–81 °F).
	Suitable temp range all species 22-27°C Ideal average temp is 25°C		

 Ammonia Level	All species need Ammonia levels to be '0'

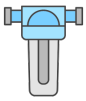
 Nitrite	All species need Nitrite levels to be '0'

 Nitrate	All species can tolerate Nitrate levels of 10-20ppm

 pH Levels	Ember Tetra	Shrimp	Snails
	5-7 (pref lower range)	6.5 - 8	7 - 8
	Suitable pH range for all species is 6-7		

 General Hardness (GH)	Ember Tetra	Shrimp	Snails
	5-15 dGH (90-268ppm)	4-10 dGH (70-180ppm)	6-12 dGH (107-215ppm)
	Suitable degrees of GH across all species is between 5-12 dGH / (90-215ppm)		
	Note: GH is expressed as either degrees of GH (dGH), or as parts per million (ppm). 1 dgh = 17.9ppm). To convert, simply multiply the dGH result by 17.9 to calculate the ppm readings.		

 Carbonate hardness (KH)	Ember Tetra	Shrimp	Snails
	4-8 dKH (72-143ppm)	1-8dkh (20-140ppm)	5-15 (89-268)
	Suitable degrees of KH across all species is 4-8dKH (72-143ppm)		
	Note: KH is expressed as either degrees of KH (dKH), or as PPM (parts per million). 1 dkh = 17.8ppm. To convert, simply multiply the dKH result by 17.8 to calculate the ppm readings.		

 Total dissolved solids (TDS)	Ember Tetra	Shrimp	Snails
	18-179	150-300	150-250
	Suitable degrees across all species is 175		

Safety Warning

Please follow the health and safety guidance on the testing kits when carrying out water testing, some of the water testing chemicals can be highly corrosive and harmful to skin, eyes and or respiratory systems.

Ensure appropriate PPE is worn, such as gloves and goggles, and immediately wash any drops from skin.

Refer to the Control of Substances Hazardous to Health (COSHH) policy for further information on the safe handling of controlled substances.