

MAX 250 | Temperature Control



Keep it in the range!

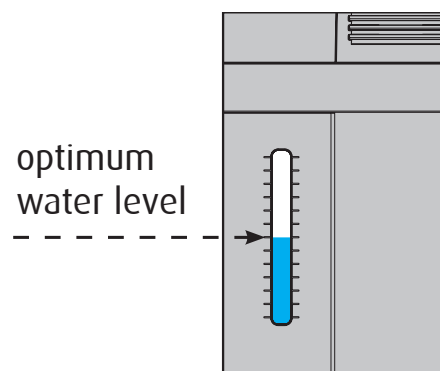
24-28°C ✓
(76-82°F)

For optimum conditions a reef aquarium should be maintained at a stable water temperature in the range of 24-28°C / 76-82°F (the stability of the temperature being more important than the exact value). Slightly higher temperatures can be tolerated for short periods of time as long as the change in temperature is steady and not sudden.

Most reef-keepers consider the installation of a chiller to be a basic necessity as a safeguard against sudden increases in temperature. Given the cost of livestock, Red Sea recommends installing a chiller as a safeguard against sudden increases in temperature.

The MAX is a closed top aquarium which significantly reduces the natural evaporation of water; however it also reduces the cooling effect that is a natural part of the evaporation process.

The water cooling fans located at the back of the aquarium can be used to induce evaporation cooling of the aquarium water however to be effective the water level in the filter compartment must be maintained between the minimum and optimum levels i.e. 6-7 notches down from the top of the viewing window.



With the correct water level and the water cooling fans operating 24/7, the MAX water temperature will rise approx 4°C above room temperature

In a well ventilated room with a stable ambient temperature of approximately 22°C it should be possible to maintain the water temperature within the required range by using the water cooling fans however above this temperature a chiller may be necessary. In ambient temperatures of 23°C and above a chiller of at least 1/6HP should be used.

Directions:

1. Ensure the aquarium heater/thermostat has been set to 26°C and is working properly (refer to the manual for details).
2. Ensure the dual water-cooling fans at the rear of the aquarium are operating properly. Please note that these will wear over time and are a consumable replacement. They are available from Max stockists and require no tools to replace.
3. Check that the filter foams are not pushed down on to the pumps, as this can restrict the flow of water, leading to overheating of the pumps.
4. Use the fine-filter cartridge ONLY for short periods in order to 'polish' the water. The cartridge contains a fine-weave pad which will block quickly if left in constant use, resulting in a restriction in water flow to the filter.
5. Using the water level viewing window on the left hand side of the aquarium, set the aquarium so the water level in the filter compartment is between 6-7 notches from the top of the window. This is easily achieved as follows:
 - (a) Ensure the aquarium is filled to the recommended level
 - (b) Raise the filter shutter to its highest position
 - (c) Wait 2-3 minutes while the water level in the filter compartment stabilises and note the level in water level viewing window.

If the water level in the filter is higher than 6-7 notches from the top, you should remove some water from the main aquarium in small amounts until the desired level is achieved.

If the water level in the filter is lower than 6-7 notches from the top, you should add water to the main aquarium in small amounts until the desired level is achieved.

In neither case should you use the shutter position in order to adjust the water level in the filter.

The aquarium water level should be monitored daily in order to evaluate, and if necessary top up the Max due to evaporation. This will both maximise the effectiveness of the filter, and help to maintain a stable temperature.

If you are away from the aquarium for more than 24hrs you may need to lower the shutter slightly to allow for evaporation. Please note however that this will reduce the water-cooling effect slightly and may increase overall water temperature by approx 1°C.

If, as is recommended you add a chiller then a unit of approx 1/6Hp is ideal.

Refer to the manual for instructions on installation.

If a chiller is installed then the water level in the filter compartment should be raised to 3 – 4 notches below the top as this will reduce the water loss due to evaporation.