



Circulation Pumps

Also known as Powerheads, Wave makers, Flow pumps

Covers:

- Reef-Tide range [all models]
- Reef Fow 2.0 range [all models]
- V2 Power Flow [all models]

FAQs & Troubleshooting

Q What size wave maker should I buy for my aquarium?

A The water flow in the display part of the aquarium should be approximately 20x that of the tank volume for soft corals up to 40x the volume for hard corals. E.G A 100 litre aquarium will need 2,000l/hr flow minimum. Don't forget to include the return pump if the aquarium has a sump as this is also additional flow.

Q Where should I place my circulation pump?

A Circulation pumps should be placed so that all the water is going to get disturbed leaving no dead spots where there is no flow. Ideally the flow will cause any detritus on the bottom to eventually go over the weir. Alternating wave patterns and speeds can help with this. As well as providing a more natural effect for the animals. Ideally you want the water surface being disturbed as much as possible too – to aid oxygen/CO2 exchange. The more wave makers, the better – we recommend you use multiple smaller units rather than one big one. Especially if using on/off wave modes, should your pump have a controller. Be aware that some corals need high flow whilst other corals prefer calm water. Speak with your retailer for more advise on coral placement vs flow. Do not place pumps too close to a sand/gravel bed as particulates may enter the pump and cause damage to the impeller or impeller chamber.

Q How do I programme my Reef-Tide?

A Please refer to the instruction booklet supplied, which is also available in electronic form on our website.

Q Can I change the time periods on my Reef-Tide controller?

A No these are pre-set at the factory and cannot be changed

Q What settings should I run my Reef-Tide on?

A The flow in the sea is very random and varies throughout the tide. If you are unsure on what settings to run your Reef-Tide on – we recommend that you leave it on the default setting and keep checking in to see if the flow is too strong or not. You can then adjust that time point to increase or decrease the flow. The corals will show you if it's too strong or not, by their polyp extension.

Q How do I clean my circulation pump?

A Use a new, sponge/scouring pad and a warm white vinegar bath followed by rinsing with plenty of R.O water. A bottle brush can be useful for hard-to-reach areas. The vinegar will help to dissolve calcium deposits.

Q My impeller has broken. Can I get a new one under warranty?

A Impellers are a consumable item and do need to be replaced from time to time. They are not covered under warranty.

Q My circulation pump is noisy.

A Ensure no air is trapped in the impeller chamber and that the impeller seated properly.
Ensure the pump and all its internal components are not damaged and are clean.
Ensure the pump isn't vibrating against the glass or rockwork.

New pumps always tend to be slightly noisier due to them not having naturally occurring biofilm which will help reduce the noise. The pump will get quieter in a few weeks.

Q My pump has stopped working.

A Check to see if it's turned on at the mains and the controller is not on 'Feed Mode' [Feed mode only applicable to Reef range].

Check for blockages/Damaged impeller.

Check fuse in the plug.

Check PSU is working, and the power cable is inserted properly [Reef range pumps].

Check controller is working and the power cable from the PSU is firmly inserted and connected properly. [Reef range pumps].

Try a new Impeller/Power Supply/Controller where applicable [Retailer help may be required for testing of individual components]. It is rare for all 3 components to fail at once. The PSU, Controller and Pump – each one must be checked for functionality to ensure the correct part is replaced.

Check pump cable is connected firmly and correctly to the controller – Replace pump if the PSU/Controller are working correctly.

Q My controller and or PSU has failed. Can I use any other Reef Pump/Tide/Flow controllers or PSU?

A The controller must be the correct rated unit for the model you have, as each controller is programmed specifically for the pump it's designed for.

The PSU must have the same DC voltage and amperage [or higher amperage] as the original – as well as the same connector type. It is recommended that you only use genuine TMC PSUs, and these are available as spares. Not all TMC DC pumps are the same voltage or amperage.

Q My Reef Tide controller shows an error code

A Err – 2 – Over current detected – Controller Fault – Replace controller

Err – 4 – Software over current – Controller Fault – Replace controller

Err – 6 – Pump motor error – Replace Pump

Err – 7 – Impeller jammed, Dirty, Running Dry or too much air detected – Clean or replace impellor. Attach the pump lower down in the aquariums so surface water air is not sucked in.

Q My Reef Flow 2.0 controller shows flashing LEDs and the pump is not working

A Please refer to the instruction booklet supplied, which is also available in electronic form on our website. This details the error codes that the flashing LEDs indicate.

Q There is a whirring noise coming from the pump

A Due to the nature of the high speed and powerful flow of the DC motors, some whirring noise may be heard and is completely normal.

Q I can hear a clicking noise and my pump is not running correctly

A Check impeller and impeller chamber for damage. Replace if necessary.

Spare Parts Lists

V2 Power Flow

Order Code	Description
9039	V2 PowerFlow 1000 Impeller
9040	V2 PowerFlow 2000 Impeller
9069	V2 PowerFlow 1000/2000 Mounting Magnet Set
9076	V2 PowerFlow 1000/2000 Impeller Guard

Reef Tide/Reef Tide Compact

Order Code	Description
9966	Reef Tide/Reef Tide Compact 6000 Impeller
1048	Reef Tide/Reef Tide Compact 10000/20000 Impeller
9961	Reef Tide/Reef Tide Compact 6000 PSU
1039	Reef Tide/Reef Tide Compact 10000 PSU
1058	Reef Tide/Reef Tide Compact 20000 PSU
1760/1761	Mains Power Cable (UK/EU)
9962	Reef Tide/Reef Tide Compact 6000 Controller
1044	Reef Tide/Reef Tide Compact 10000 Controller
1059	Reef Tide/Reef Tide Compact 20000 Controller

Reef Tide S

Order Code	Description
1136	Reef Tide 4000s Impeller 20.5mm id
1136-17	Reef Tide 4000s Impeller 17mm id
1137	Reef Tide 6000s/8000s Impeller
1138	Reef Tide 10000s/16000s Impeller
1139	Reef Tide 24000s Impeller
1096[-EU]	Reef Tide 4000s PSU
1097	Reef Tide 6000s/8000s/10000s PSU
1098	Reef Tide 16000s PSU
1099	Reef Tide 24000s PSU
1760/1761	Mains Power Cable (UK/EU)
1130	Reef Tide 4000s Controller
1131	Reef Tide 6000s Controller
1132	Reef Tide 8000s Controller
1133	Reef Tide 10000s Controller
1134	Reef Tide 16000s Controller
1135	Reef Tide 24000s Controller
1200	Reef Tide 4000s Motor
1201	Reef Tide 6000s Motor
1202	Reef Tide 8000s Motor
1203	Reef Tide 10000s Motor
1204	Reef Tide 16000s Motor
1205	Reef Tide 24000s Motor

Reef Flow 2.0

Order Code	Description
1326	Reef Flow 2.0 4000 Impeller
1327	Reef Flow 2.0 6000/8000 Impeller
1328	Reef Flow 2.0 10000/16000 Impeller
1096[-EU]	Reef Flow 2.0 4000 PSU
1097	Reef Flow 2.0 6000/8000/10000 PSU
1098	Reef Flow 2.0 16000 PSU
1329	Reef Flow 2.0 4000 Controller
1330	Reef Flow 2.0 6000 Controller
1331	Reef Flow 2.0 8000 Controller
1332	Reef Flow 2.0 10000 Controller
1333	Reef Flow 2.0 16000 Controller