

INTERPET
AQUARIUM AIR PUMP
AIRVOLUTION

This AirVOLUTION pump was designed by Interpet, and is the result of more than 20 years' experience in air pump manufacture combined with the use of the very latest materials. The pump is made to Interpet's exacting quality standards. To get the best from your pump, please read the following information carefully.

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CHECK VALVE
 Allows air to flow freely to aquarium but prevents water siphoning back into your pump. The Interpet Check Valve makes it safer to operate your pump below your aquarium. For use with AIRVOLUTION and all other air pumps. Helps avoid water siphoning into your air pump in the event of electrical power failure or when disconnecting or removing filters.



AIR VALVE SET
 Interpet's Valve Set allows control of air and to supply air to more than one feature. Specially designed for maximum versatility and convenience with negligible air loss.

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SILICONE AIRLINE
 Interpet Silicone Tubing is a great advance in the use of air in the aquarium. The special suppleness of the silicone greatly reduces airline noise and virtually eliminates kinking - which will cause airflow restriction. This non-obtrusive and safe product is easy to fit to any standard air accessory.

PRODUCT	CODE
2M CLEAR AIRLINE	2558
100M CLEAR AIRLINE	2559
2M BLUE AIRLINE	2560
100M BLUE AIRLINE	2561



GUARANTEE

This guarantee is offered to you as an extra benefit and does not affect your rights as a consumer in any way. This product is guaranteed against manufacturing defect for twelve months from date of purchase. In the unlikely event of a fault, the unit should be returned within one year of the date of purchase, together with the sales receipt. It is important that the pump should not be tampered with but should be returned to your supplier or direct to us for attention. Make sure that the pump is identifiable as your property. PLEASE NOTE: Your AIRVOLUTION's diaphragm may be exposed to excessive back-pressure during use that causes extra wear and tear. This will shorten the expected life of the diaphragm. Owing to this, the diaphragm is not covered under the guarantee of the pump. Spares are readily available from your Interpet stockist.

CONSUMER ADVICE CONTACT DETAILS

Interpet Consumer Advice Department
 Vincent Lane, Dorking, Surrey, RH4 3YX
 Telephone: 0845 226 7437 (Monday to Friday, 10am to 4pm except Bank Holidays)
 Fax: 01306 876712
 E-mail: customercare@interpet.co.uk

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INSTRUCTION LEAFLET

INTERPET
AIRVOLUTION
SPARE PARTS

AIRVOLUTION Model	SPARES CODES		
	Complete Spares Kit	Diaphragm	Air filter pads
AVMINI	2545	Complete Spares Kit	2546
AV1	2547	2548	2549
AV2	2547	2548	2549
AV3	2550	2551	2552
AV4	2550	2551	2552





AQUARIUM AIR PUMP

AIRVOLUTION

There is an AIRVOLUTION pump to suit all popular uses in the aquarium. For simplicity it is assumed that an air feature is a standard size airstone, an ornament or an air powered filter

INSTALLING/POSITIONING YOUR PUMP

Either: 1. Place the pump on a shelf higher than the water level in the aquarium, but not directly above, so the pump cannot fall into the water. The shelf must have a ledge to prevent the pump sliding off (Diagram 1).

Note: For salt-water aquariums, always place pump higher than aquarium as (1) and use an Interpet Check Valve.

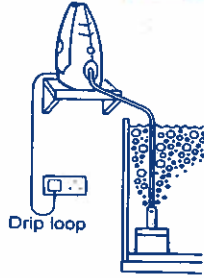


DIAGRAM 1

Or: 2. Place the pump on a surface lower than the water level of the aquarium. If placing on the floor, ensure that there is no excessive dust or fibres from the carpet. Avoid placing the pump where it can become wet or accidentally splashed. Use an Interpet Check Valve in the line between the pump and the aquarium. The Check Valve should be close to the pump outlet (Diagram 2).

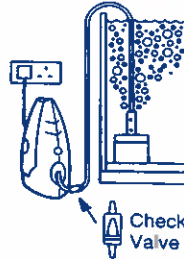


DIAGRAM 2

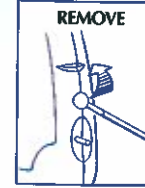
Model	Powers filters in aquariums up to approx.		Size of Airwall		Max no. of other features	Air Flow (L/hr)	Pressure (mbar)
AVMINI	46cm (18" long)	OR	1 x 1" Airstone	OR	1	75	0.22
AV1	60cm (24" long)	OR	1 x 12" Airwall	OR	2	170	0.23
AV2	100cm (36" long)	OR	1 x 18" Airwall	OR	4	200	0.27
AV3	120cm (48" long)	OR	4 x 12" Airwall	OR	6	2 x 250	0.23
AV4	150cm (60" long)	OR	4 x 18" Airwall	OR	8	2 x 300	0.23

REGULAR MAINTENANCE

AIR FILTERS

Examine regularly for dirt build-up and replace when necessary. In normal use, once every 3 months would be a reasonable interval. In very dirty smoke-filled atmospheres more frequent replacement may be necessary.

To replace filters: disconnect pump from mains. Prise the pad from the pump using a blunt instrument. Place the carbon filter in first followed by the white filter.



PUMP MAINTENANCE

CLEANING OUTSIDE OF THE PUMP

Disconnect from the mains. Use only damp cloth with mild detergent.

PUMP MECHANISM

No regular maintenance required. Mechanism never needs oil. The diaphragm and valve assembly will need replacing when they wear out, simply purchase the relevant spares kit from us (see AIRVOLUTION spares table overleaf) and follow the instructions supplied..

HOW TO AVOID EXCESSIVE NOISE

Every AIRVOLUTION pump is carefully checked to Interpet quality standards before leaving the factory. If your pump appears noisy, please check the following:

1. Is the pump on a shelf creating a vibration.
2. Is the noise coming from the airline tubing? - the supple, Interpet Silicone Airline Tubing reduces airline noise.
3. Is the airflow unduly restricted? See "How to avoid loss of airflow".
4. Is the pump too powerful for your requirements? - If so, bleed off excess air as shown in Air Valves section.

HOW TO AVOID LOSS OF AIRFLOW

If you have loss of airflow, check the following:

1. Is the air filter blocked? See Air Filter replacement. This can happen particularly if the pump is placed in a very dusty position or on a carpet with loose fibres.
2. Are there leaks in your air system? Check by immersing your air valves and joints in water. Interpet Aqua Air Valves are specially designed to: minimise losses; to give best air control; and for convenient installation.
3. Are there blockages in your airline system? Air valves for instance can become clogged.
4. Is the airline tube kinked, thus constricting airflow? Use Interpet Aqua Air Silicone Tubing to avoid kinks.
5. Are the airstones clogged? Airstones can block due to build-up of dirt or algae or, in a marine tank due to salt build-up.
6. Has excessive back-pressure resulting from points 1-4 caused the diaphragm to tear, necessitating early replacement? See also point 4 in the section above.

CONNECTING YOUR AIR SYSTEM

KEY TO SYMBOLS

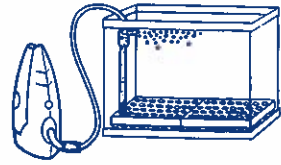
- AIRVOLUTION AQUARIUM AIR PUMP
- AIRLINE TUBING
- CHECK VALVE
- 3 WAY VALVE
- 3 WAY VALVE & BUNG
- TEE
- EXCESS AIR
- AIRSTONE OR FILTER OR AIR ORNAMENT

CAUTIONS

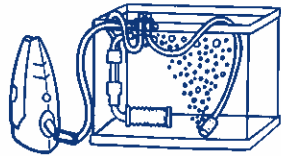
Never let water run into pump when removing filter, airstones, or air ornaments from aquarium.

1. Install an Aqua Air Check Valve.
2. Leave pump running
3. Disconnect tubing from pump.
4. Remove filter, airstones, etc.

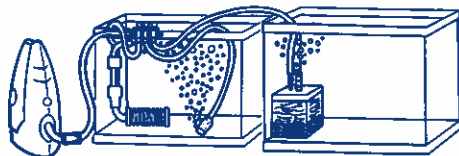
EXAMPLES OF USE



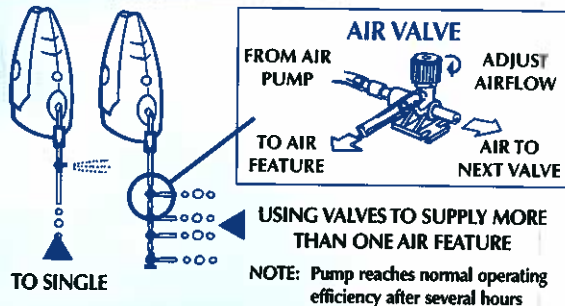
FILTER UP TO 24"-AV1 AND 36"-AV2 AQUARIUM (UNDERGRAVEL FILTER)



MORE THAN ONE FEATURE. 2 FEATURES AV1 4 FEATURES AV2



MORE THAN ONE AQUARIUM



ELECTRICAL SAFETY INSTRUCTIONS

It is recommended for safety that all aquarium equipment is connected through a Residual Circuit Device (Earth Leakage Circuit Breaker).

Disconnect all appliances in the aquarium from the mains supply before putting your hand in the water.

Check that the voltage of the mains supply corresponds to the voltage on the pump.

Install the pump in a position where it will not be splashed.

When the electrical socket is lower than the pump - use a drip loop for protection. This loop is made by placing the wire as shown in Diagram 1 overleaf.

Do not let water run into your pump.

When removing filters, airstones or ornaments from the aquarium:

- a) Leave pump running
- b) Disconnect tubing from the air pump
- c) Turn off pump
- d) Then remove filter etc. from the aquarium

NEVER immerse pump in water. If the pump falls into the water, DO NOT reach for it. First unplug, then retrieve it.

If the electrical components get wet, do not use, the pump will need to be replaced.

If the pump power cable is damaged, the pump should be replaced.

This appliance is fitted with a removable plug with a tamper-evident seal. If the plug is removed, re-connection must be made using an approved plug or connector.

INSTRUCTIONS FOR RE-WIRING ARE GIVEN BELOW

This apparatus is double insulated and does not have a third (earth) wire. The wires on the lead should therefore be connected as follows:

The **BLUE** lead should be connected to the **NEUTRAL TERMINAL** on your plug or Cable Tidy. This terminal may be marked with an "N" or coloured blue or black. The **BROWN** lead should be connected to the **LIVE** terminal on your plug or Cable Tidy. This terminal may be marked with an "L" or coloured brown or red. **DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL.**

IF IN DOUBT - CONSULT A QUALIFIED ELECTRICIAN

This appliance is fitted with a re-wireable plug to BS 1363.

If the fuse needs to be replaced use an ASTA approved 3-amp fuse to BS 1362.