

Hydra Laminar Single Air Diffuser Systems

Fitting Instructions

The air pump sits outside of the water body as it has to suck air in from the atmosphere to be pumped to the air diffuser.

The air pump is not weather proof and therefore either needs to be fitted under cover or a water proof vented enclosure is available from Hydra International.

The air pump must always be installed higher than the water body so that it is impossible to back syphon if the power is switched off.

Back syphon of water into the pump will damage the pump.

Images of Parts

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Air Pump (1)	Rubber Connector (2)	Circlips (3)	20mm Barbed Connector (4)
			
Jubilee Clips (5)	Black 20mm Air Hose (6)	Diffuser Disc (7)	Diffuser Tube (8)

Installation Procedure

1. Place the **Air Pump** (item 1) in its required location (out of the weather) in **Vented Enclosure** if available).
2. Connect short **Rubber Connector** (item 2) to **Air Pump** using 1 **Circlip** (item 3).
3. Push **Barbed Hose Connector** (item 4) to other end of rubber connector (item 2) using 1 **Circlip** (item 3).
4. Connect **Diffuser** (item 7 or 8) to **Air Hose** (item 6) using 1 Jubilee Clip (item 5).
5. Place the **Diffuser** in its required location in the pond or lake.
6. The diffuser is weighted so it will sink to the bottom, however the air tube will need to be weighted so it sinks to the bottom, we suggest using bricks with holes as picture to-gether with cable ties.
7. Cut **Air Hose** to required length and push onto **Barbed Hose Connector** (item 4) secure with 1 **Jubilee Clip** (item 5).



Image of Connections Air Pump to Diffuser



Please note the air pump is not waterproof and needs to be protected from the weather. The air pump must always be installed above the water line to prevent back syphoning if pump is switched off. Vented water proof enclosures are available in 2 different sizes dependant upon pump used. Tie engineering bricks (bricks with holes in them) to sink hose in water.

Connection Order – Single Diffuser

- 1 No - Air pump
- 18mm Rubber connector
- 1 Cir-clip at each end of 18mm rubber connector
- 20mm Barbed connector
- 1 Jubilee clip
- Black hose
- 1 Jubilee clip
- 1 Diffuser.

Connection Order – Twin Diffuser

- Air pump
- 18mm Rubber connector
- 1 Cir-clip at each end of 18mm rubber connector
- 20mm Barbed connector
- 1 Jubilee clip
- 1 Length black hose
- 1 Jubilee clip
- T piece
- 3 Jubilee clips
- 2 Lengths black hose (ensure that lengths are equal to ensure same air flow through each length of hose)
- 2 Jubilee clips
- 2 Diffusers

Waterproof Vented Enclosure

If fitted use large hole for hose and small hole at opposite end for cable.

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