

SERVICE INSTRUCTIONS

*ET250 - ET500 DOUBLE SERIES (Same procedure for alarm equivalent models)

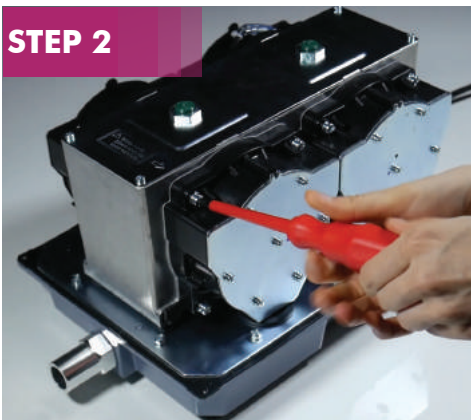


STEP 1



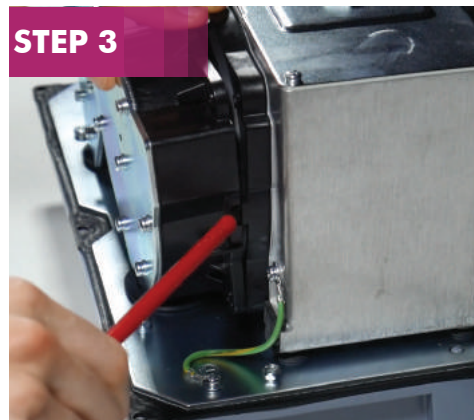
To start, unplug the pump from the mains. Unscrew and remove the cover from the air pump.

STEP 2



Unscrew the chamber cover at one end of the pump. Separate the chamber cover at the seam to expose the screw holding the white round plastic diaphragm depressor in place.

STEP 3



Unclip the diaphragm face to expose the diaphragm and chamber block.

STEP 4



Unscrew the chamber block and pull it apart.

STEP 5



Remove the valves from the chamber block, take note of the valve formation.

STEP 6



Pull the new valves through, you should hear a 'snap' sound once secured in place.

STEP 7



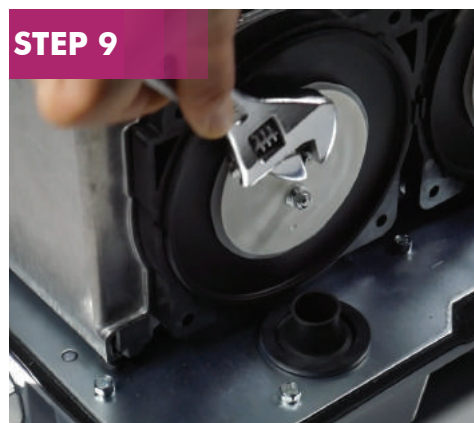
Cut the excess rubber off from the valves and discard.

STEP 8



Screw the chamber block back together ensuring the rubber seal between them lined up properly. Repeat this process on the remaining 3 chamber blocks.

STEP 9



Undo the two bolts from the diaphragm.

CONTACT US:



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STEP 10



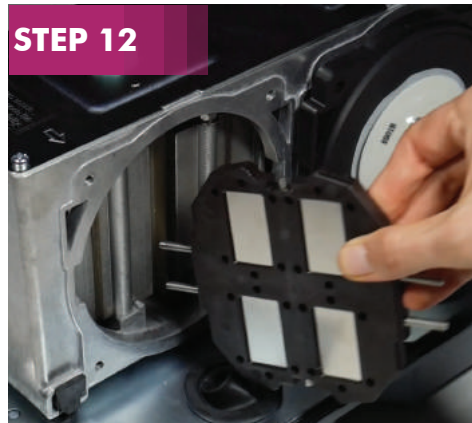
Remove the diaphragm frame and peel off the worn diaphragm.

STEP 11



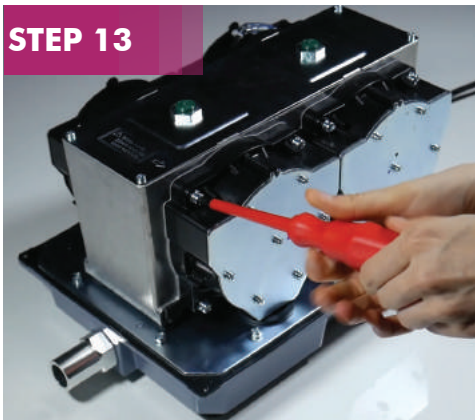
Replace the worn diaphragm with the new one provided in your service kit. Make sure the diaphragm has been pushed into the grooves of the diaphragm frame. Repeat this process on the remaining 3 diaphragms.

STEP 12



Remove the worn magnet and replace with the new one provided. Repeat on the other side. Only complete this step if the magnet is worn out. *Magnets are sold separately to the service kits.

STEP 13



Connect the chamber block and diaphragms together and screw back into place. Repeat on the opposite side of the pump.

STEP 14



To change the filter unscrew the pump lid.

STEP 15



Remove the dirty filter and clean away any dust or dirt that has been collected.

STEP 16



Replace the dirty filter with the new one provided in our service kit.

STEP 17



Note: Before screwing the pump back together ensure that 'BOTH' safety switch buttons are pushed down. If this step is not completed then the pump will not run.

STEP 18



Finally, put housing back together ensuring the screws are secured down properly.



WARRANTY & TROUBLE SHOOTING

Our two year warranty cover does not cover diaphragm failures or magnet bars due to being wear and tear parts.

All Enviro® pumps are covered by a two year warranty on the pump motor. To validate this warranty, the aerator must be serviced on a yearly basis. We recommend that the consumables including the diaphragms and filter are changed at this point.

The wear and tear parts are outside the two year warranty but are covered by a year’s warranty providing they have been used correctly and not subjected to back pressure or water damage.

Please contact Charles Austen Pumps on +44 (0)1932 355277 to purchase a service kit or for further help with servicing your pump.

This warranty is only valid for pumps that are used as recommended.



TROUBLE SHOOTING

If you are experiencing frequent diaphragm failures, please check for excessive back pressure against the pump. Adding more diffusers, ports, or putting a tee in the line with a ball valve on the third side of the tee should resolve this.

Ensure you open the ball valve fully before slowly closing until you find the spot where maximum air flow with minimum back pressure is achieved.

In the unlikely event that you are experiencing problems with your Enviro® pump, please consider the following:

Problem	Possible Cause	Solution
Pump gets hot and shuts off	Overheating causing the thermal cutout to activate	• Check for a clog or blockage in the airline to stop excessive back pressure overheating the pump this can also cause premature diaphragm failure. • Ensure the pump is the correct size for the application. If under sized not enough air will be produced, if over sized excessive back pressure is caused, overheating the pump. • If oversized, drill a small hole in the rubber elbow on the pump to allow a small amount of pressure to escape. Leave to cool and then try pump again.
Pump not pushing out air	Torn diaphragm	• Replace diaphragm by following our service instructions. • If you are experiencing frequent diaphragm failures, please check for excessive back pressure in the system, as above.
	Rust inside pump	• If the pump is getting wet inside, rust will appear causing increased friction and premature failure. • If the pump is wet inside, the warranty is no longer valid. Use a wire brush to remove rust from the coils, once clean and dry, reassemble and try the pump again.
Pump trips electric	Check for water, pump may have flooded	• Remove pump from the system and allow to dry. • Retest pump only when completely dry. • Water damage can damage the pump beyond repair.

If the guidelines above have been followed, the pump is defective and may be in need of replacement. Please contact Charles Austen Pumps Ltd on +44 (0)1932 355277.

We will need to have the air pump returned to us or a photo provided of the inside of the pump and diaphragms. This ensures that the pump is not failing due to damaged diaphragms or rust.