ATAC Solutions Ltd is a leading environmental engineering company based in Maidstone, United Kingdom.

ATAC Solutions is known for its state-of-the-art liquid collection fleet and its expertise in providing bespoke turnkey wastewater process solutions.

With a focus on sustainability and accreditation in ISO 9001 & ISO 14001, the company serves domestic and industrial clients across the South-East and London.

ATAC Solutions Ltd,
Unit A9, Loc 8 Business Park, Ashford Road,
Hollingbourne, Maidstone, England, ME17 1WR

atacsolutions.com
01622 882400

SECOH Linear Diaphragm Air Blower – Service Inspection & Installation Guidelines

Operation Guidelines	• Unnecessary on/off cycling of the blower as best to run continuously to maintain cooling and constant pressure loadings • The blower should only be allowed to draw-in clean uncontaminated air • Although certified as rainproof the blower shall not be submerged in water / effluent • The blower air filter element shall be inspected / cleaned or replaced every 6 months • The blower pressure shall not be more than 200mbar • Ambient air temperature should not exceed 38ºC +10% • The blower should be located no more than 5 meters away from the application
Air Filter Element(s)	Regular inspection can reveal a lot about operating conditions. Suggest inspecting, cleaning or replacing the intake filter every six months.
	Signs of biomass indicate the blower is drawing-in foul air from the treatment plant bio-zone. It should be immediately addressed by sealing the air pipe running into the kiosk, ensuring the blower can only draw-in a clean source of ambient air. Relocating the blower may be necessary to overcome the problem.
Auto-Stopper	Activation when a diaphragm ruptures (Cuts power supply preventing internal components from damage). Activation may also occur if there is a spike in power supply (Or an unstable power supply) as this can alter the operating frequency of the blower speeding up magnet travel.
	Ingress of foul air from the treatment plant bio-zone can corrode the copper micro-switch leading to failure.
Diaphragms	A definite life cannot be given for diaphragms as this is normally dictated by varying loadings (Back pressure) the blower can be subjected to.
	An estimated minimum 2 years diaphragm life can be anticipated on applications complying with operation guidelines. Suggest replacing diaphragms yearly or at 18 months intervals.
	Reduced diaphragm life occurs when the air blower is working over and above its optimum pressure ratings of 0.2bar.
Service Kits	Consider installing a full service kit when the blower reaches its 3rd year of continuous operation.
Off-Set Magnets / Carbon Dust Contamination	Caused by over pressurisation (The blower working over and above its optimum pressure rating of 0.2bar).
	Diaphragm material fatigue will also cause the magnet to become off-set.
Ingress of Foul Air	Caused when the blower is allowed to draw-in foul air. Suggest sealing air feed entry point with gland or expandable foam. Foul air will lead to premature failure of the air blower due to corrosive gasses generated by decomposing matter.