

Enviro-Equipment Inc. 10120 Industrial Drive Pineville NC 28134

Stock #1533

Used CEE AP4 Short Top Loading Pneumatic Total Fluids Pump Serial# 3-1839S 9 GPM Max Flow, 250' Max Depth







LANDFILL LEACHATE & CONDENSATE SKIMMING (LNAPL) TOTAL/DISSOLVED FLUIDS SINKERS (DNAPL)



4-INCH CONTROLLERLESS PNEUMATIC PUMP

FIRST OF ITS KIND, FIRST IN PERFORMANCE, AND FIRST IN WARRANTY COVERAGE

When it was introduced back in 1986, the AP-4 AutoPump was the industry's first controllerless pneumatic pump. It revolutionized the industry. Since then other manufacturers have tried to copy it, but with over 10 years of proven field performance and evolutionary improvements, the AP-4's lead is hard to overcome. In fact, when it comes to actual controllerless pump experience, CEE has more years in the field than all the competition combined.

The AP-4 AutoPump with its patented design is the industry's most reliable and proven pump. The benefit of our pump experience brings you unparalleled reliability and unique features such as flowrates over 16 gpm and an industry leading 5-year warranty.

The AP-4's warranty is not only the industry's best because of its five-year timespan, but also because of the real field experience we base it upon. Before offering this extensive warranty, we analyzed the service data of thousands of AutoPumps over a twelveyear span (some of which were the very first AutoPumps ever made that are still working today). After reviewing the empirical evidence, it was easy to see that the AP-4 has had no problem withstanding the tough test of time. No other warranty has such a solid foundation. So when it comes to unparalleled performance, reliability, and warranty coverage, specify the AP-4 AutoPump, the industry leader.





Clean Environment Equipment

In order from left to right: Low-Drawdown AP-4/BL, Short AP-4/TL, Long AP-4/BL, Long AP-4/TL, Short AP-4/BL, Low-Drawdown AP-4/TL

FEATURES AND BENEFITS

1. OVER 10 YEARS DOWNWELL

Back in 1986, AutoPumps were the first controllerless pumps. Since then, they have pumped billions of cycles on tough sites worldwide, including landfills, refineries, gas stations, petrochemical factories, military sites, and others. This proven field performance reduces problems commonly associated with newer, unproven designs

2. UNPARALLELED 5-YEAR WARRANTY

The AP-4 AutoPump has an industryleading 5-year parts and labor warranty.

3. CUSTOM CONFIGURATIONS FOR JUST ABOUT EVERY SITE REQUIREMENT

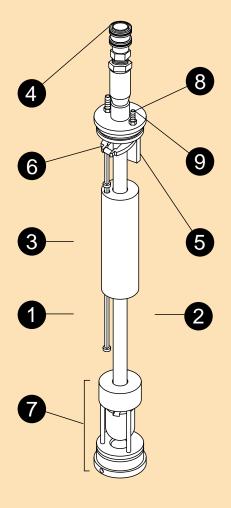
With our extensive custom manufacturing experience, we can offer proven configurations to handle just about any application. Special float materials and other site specific materials of construction are available to allow pumping of aggressive liquids such as leachate with wide ranges of pH (1-12), solvents (such as MEK, Butylacetate, Acetone, Toluene, etc.), fuels (gasoline, diesel, jet fuels, etc.), and boiling water and diesel at steam injection sites with temperatures up to 212°F (100°C).

4. INDUSTRY-LEADING 16-GPM OUTPUT

The AP-4's proven design can pump over 16 gpm–the industry's highest flowrate. The AP-4 pumps over 23,000 GPD.

5. PATENTED CONTROLLERLESS DESIGN

The AP-4 uses an internal float and lever design to turn itself on and off. It requires no timers, bubblers, pilots, or



other external controls. This design allows near freezing temperature operation, reduced air consumption, and guards against unwanted adjustment or damage

6. DIRTY AIR IS OKAY

Durable stainless steel air valves pass liquids as thick as 90 weight gear oil without fouling, so water in the air line is no problem.

7. THE AP-4 PUMPS SUSPENDED SOLIDS

The AP-4's self cleaning fluid intake and discharge check valves can pass particles as large as 1/8 inch in diameter with no problems. This means leachate and other fluids with high particulate content can be pumped through the AP-4 without jamming.

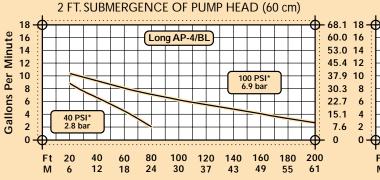
8. SAFE PNEUMATIC OPERATION

Pneumatics are intrinsically safer than electric systems that can shock, spark, or ignite fires. The AP-4's pneumatic operation means safer and easier installation because it is not subject to the strict electrical codes for explosion-proof designs.

9. LOW AIR CONSUMPTION

The AP-4 does not depressurize the supply line and only uses air when cycling. This reduces air, power consumption, filter, and operating costs.

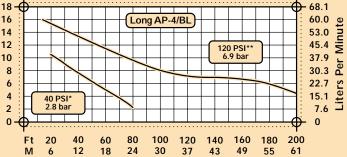
PERFORMANCE CURVES



^{*} ONE INCH (25mm) I.D. HOSE.

** ONE AND ONE QUARTER INCH (32mm) I.D. HOSE. OTHER CURVES AVAILABLE FOR AP-4 AND OTHER MODELS.





AUTOPUMP TECHNOLOGY IN ACTION

The AP-4 AutoPump was first introduced in 1986. It was the first of its kind that revolutionized the industry.

FILL CYCLE - Pump begins to fill DISCHARGE CYCLE - Pump begins to empty Fluid Air exhaust The fluid intake check valve opens, With the air inlet valve open, air outlet allowing fluid to enter the pump. pressure builds up within the pump body. This causes the fluid inlet check valve to close, therefore allowing the As the fluid level in the pump rises, air fluid to be displaced up and out of the is expelled through the exhaust air valve and the internal float rises to the fluid outlet. top of its stroke. As the fluid level in the pump falls, the In this upper position, the float triggers float moves downward to the bottom of a lever assembly to open the air inlet its stroke. valve, allowing air to enter the pump In this lower position, the float triggers body and closing the air exhaust the lever assembly to close the air valve. supply and open the air exhaust valve. And a new cycle begins. Note: No air is used during the Fluid fill cycle.

* Simplified schematic of bottom-loader shown. The top-loader has the same method of operation as the bottom loader except its fluid inlet is on top.

When the AutoPump "catches up" with the well recharge, the fluid level in the well is maintained roughly at a point two thirds up the casing length (for bottom-loaders) or at the top inlet (for top-loaders).

SPECIFICATIONS AND OPERATING REQUIREMENTS

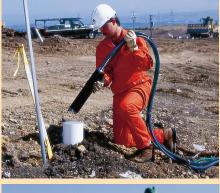
	Long A	P-4/BL	Long A	P-4/TL	Short /	AP-4/BL	Short	AP-4/TL	
Pump Type Fluid Inlet	Controllerless air displacement Bottom-loading, Fixed Intake		Controllerless air displacement Top-loading, Fixed Intake		Controllerless air displacement Bottom-loading, Fixed Intake		Controllerless air displacement Top-loading, Fixed Intake		
O.D. Length** Weight	3.5 in. 52 in. 18 lb.	8.9 cm 132 cm 8.2 kg	3.5 in. 57 in. 19 lb.	8.9 cm 145 cm 8.7 kg	3.5 in. 39 in. 16 lb.	8.9 cm 99 cm 7.3 kg	3.5 in. 42 in. 17 lb.	8.9 cm 107 cm 7.8 kg	
Volume/Cycle Range Volume/Cycle Avg. Max. Flowrate Drawdown Level** Min. Well ID	0.58-0.78 gal 0.65 gal 16 gpm 35 in. 3.75 in.	2.19-2.95 L 2.46 L 60 lpm 89 cm 9.53 cm	0.58-0.78 gal 0.65 gal 10 gpm 52 in. 3.75 in.	2.19-2.95 L 2.46 L 38 lpm 132 cm 9.53 cm	0.23-0.34 gal 0.25 gal 13 gpm 27 in. 3.75 in.	0.87-1.29 L 0.95 L 49 lpm 69 cm 9.53 cm	0.23-0.34 gal 0.25 gal 9 gpm 37 in. 3.75 in.	0.87-1.29 L 0.95 L 34 lpm 94 cm 9.53 cm	
Operating press. range Min. Operating Pressure Air consumption Maximum Depth Minimum Liquid density	())	air/fluid liter 76 (130*) m			5-120 (200*) psi 0.3-8.3 (13.8*) bar 2 psi (0.1 bar) above static head 0.3-2.0 scf/gallon 2.5-15.3 liter of air/fluid liter 250 (425*) ft. 76 (130*) m 0.7 SpG or g/cc				
Materials of Construction	Site Specific consisting of: Stainless Steel, Teflon, Acetal, Viton, Brass, Fiberglass, Polyethylene, Kynar, and other materials.								
Fittings	TYPE: Standard Barbs, Optional Quick Connects STANDARD SIZES: Fluid Discharge 5/8, 3/4, and 1 in.; Air Supply 3/8 in.; Air Exhaust 1/2 in.								
Warranty	5 years, Parts and Labor								

* High pressure, deep-well configuration

** Special or extended intake screens may alter listed specifications.

SPECIFICATIONS AND OPERATING REQUIREMENTS

	Low-Drawd	own AP-4/BL	Low-Drawd	own AP-4/TL			
Pump Type Fluid Inlet	Controllerless ai Bottom-loading,		Controllerless air displacement Top-loading, Fixed Intake				
O.D. Length Weight	3.5 in. 25 in. 11 lb.	8.9 cm 64 cm 5.0 kg	3.5 in. 29 in. 12 lb.	8.9 cm 74 cm 5.4 kg			
Volume/Cycle Range Volume/Cycle Avg. Max. Flowrate Drawdown Level Min. Well ID	0.11-0.16 gal 0.135 gal 4 gpm 11.5 in. 3.75 in.	0.42-0.61 L 0.511 L 15 lpm 29.2 cm 9.53 cm	0.11-0.16 gal 0.135 gal 3.5 gpm 24 in.* 3.75 in.	0.42-0.61 L 0.511 L 13 lpm 61 cm 9.53 cm			
Operating press. range Min. Operating Pressure Air consumption Maximum Depth Minimum Liquid density	5-60 psi 2 psi above stati 0.4-1.0 scf/gallo 3.0-7.5 liter of ai 130 ft. 0.78 SpG or g/cd	n r/fluid liter	5-60 psi 0.3-4.1 bar 2 psi above static head 0.4-1.0 scf/gallon 3.0-7.5 liter of air/fluid liter 130 ft. 40 m 0.78 SpG or g/cc (0.74 available)				
Materials of Construction	Site Specific consisting of: Stainless Steel, Teflon, Acetal, Viton, Brass, Fiberglass, Polyethylene, Nylon, and other materials.						
Fittings	TYPE: Standard Barbs, Optional Quick Connects STANDARD SIZES: Fluid Discharge 5/8, 3/4, & 1 in.; Air Supply 3/8 in.; Air Exhaust 1/2 in.						
Warranty	2 year, Parts and Labor						





* Drawdown can be less. Call factory.

OPTIONS AND ACCESSORIES

Contact a CEE representative for information on the following options and accessories:

A. Various materials of construction for site specific applications.B. Numerous well caps in slip, flange, vacuum, landfill and other configurations.C. Hose and tubing made of nylon, polyethylene, Teflon, and other materials. D. Barbs, quick-connects, compression, PushLok[®], and other fittings. E. Filter/Regulators with 35 or 60 SCFM ratings.

F. Cycle Counters for well yield and maintenance statistics.

G. Data Modules that show pump submersion depth, well fluid depth,

pump & level sensor air supply pressure, pump cycle counter, and more. H. Special Intakes include Leachate Adapters, Float-Activated Intakes, Extended Screens, and more. I. TFSO dual-sensor safety overfill feature turns off the pumping system when the fluid storage tank becomes full.

ENGINEERING SPECIFICATIONS

The pump shall:

- Have a five-year warranty based on twelve years of field performance and service data.
- Be purchased from a manufacturer that utilizes a mechanical, float-operated air valve mechanism that has been in service for at least 12 years.
- Have a casing made of fiberglass reinforced engineering plastic for increased durability, dent resistance, and weight reduction.
- · Have an air inlet and air exhaust

valves located on opposite sides of the pump on a center pivot to prevent harmful, excessive magnet impacts during normal operation.

- Be capable of pump rates of over 16 gpm based on 120 psi maximum air pressure; 10 ft. inlet head above pump head; 1¹/₄ in. ID by 20 ft. long discharge hose; and static fluid discharge pressure of 6.1 psi or 14 ft. water column.
- Only use air during discharge cycling (pumping fluid from the well).
- Have air valves that can pass pure 90 weight oil and/or other like fluids for extended periods of time without damage or fouling; and shall not require oil- or water-free compressed air.
- Weigh less than 19 lb.



Clean Environment Equipment (800) 537-1767 www.cee.com

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