

## AP4+T

## Top Inlet, Short

**Max. Flow** 9 gpm (34 lpm)

**O.D.** 3.6 in. (9.1 cm)

**Length** 45 in. (110 cm)

### Description

The AP4+ Top Inlet Short AutoPump provides maximum capabilities and flow in a top inlet pump for 4" (100 mm) diameter and larger wells with shorter water columns and the need for an elevated inlet, such as pumping total fluids from wells contaminated with LNAPLs. It is offered in optional versions to handle even the most severe remediation and landfill pumping applications, and delivers flow rates up to 9 gpm (34 lpm)\*. The AP4+ Short Top Inlet AutoPump is complemented by the most comprehensive selection of accessories to provide a complete system to meet site-specific requirements. Call QED for prompt, no-obligation assistance on your pumping project needs.

### The AutoPump Heritage

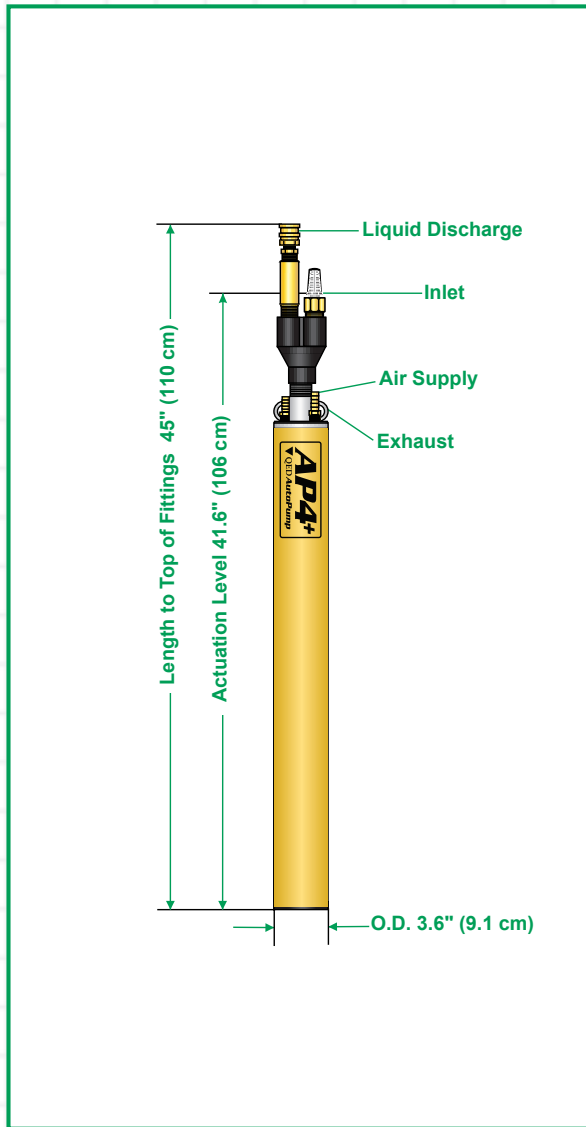
The AP4+ Top Inlet Short AutoPump is part of the famous AutoPump family of original automatic air-powered pumps, developed in the mid 1980s specifically to handle unique pumping needs at remediation and landfill sites. Over the years they've proven their durability at thousands of sites worldwide. AutoPumps are designed to handle difficult pumping challenges that other pumps can't, such as hydrocarbons, solvents, suspended solids, corrosives, temperature extremes, viscous fluids and frequent start/stop cycles. Beyond just the pump, AutoPump systems offer the most complete range of tubing, hose, connectors, wellhead caps and accessories to help your installation go smoothly. This superior pumping heritage, application experience and support back up every AutoPump you put to work on your project.



### Advantages

1. The original automatic air-powered well pump, proven worldwide over 25 years
2. The highest flow rates and deepest pumping capabilities in the industry
3. Patented, proven design for superior reliability and durability, even in severe applications
4. Handles solids, solvents, hydrocarbons corrosive conditions, viscous fluids and high temperatures beyond the limits of electric pumps
5. Five-year warranty

### Pump Dimensions



### Specifications & Operating Requirements

<b>Model</b>	<b>4" - Short AP4+ Top Inlet</b>
<b>Liquid Inlet Location</b>	Top
<b>OD</b>	3.6 in. (9.1 cm)
<b>Length Overall (pump &amp; fittings)</b>	45 in. (110 cm)
<b>Weight</b>	17 lbs. (7.8 kg)
<b>Max. Flow Rate</b>	9 gpm (34 lpm) - See Flow Rate Chart
<b>Pump Volume / Cycle</b>	0.22 - 0.36 gal (.83 - 1.36L)
<b>Min. Actuation Level</b>	41.6 in. (106 cm)
<b>Standard Pump</b>	
<b>Max. Depth</b>	250 ft. (76 m)
<b>Air Pressure Range</b>	5 - 120 psi (0.4 - 8.4 kg/cm <sup>2</sup> )
<b>Air Usage</b>	0.35-1.5 scf / gal. (2.4-11.3 liters of air / fluid liter) - See Air Usage Chart
<b>High Pressure Pump</b>	
<b>Max. Depth</b>	425 ft. (130 m)
<b>Air Pressure Range</b>	5 - 200 psi (0.4 - 14.1 kg/cm <sup>2</sup> )
<b>Min. Liquid Density</b>	0.7 SpG (0.7 g/cm <sup>3</sup> )
<b>Standard Construction Materials<sup>1</sup></b>	
<b>Pump Body</b>	Fiberglass or Stainless Steel
<b>Pump Ends</b>	Stainless Steel, Acetal
<b>Internal Components</b>	Stainless Steel, Viton, Acetal, PVDF <sup>3</sup>
<b>Tube &amp; Hose Fittings</b>	Brass or Stainless Steel
<b>Fitting Type</b>	Barbs or Quick Connects
<b>Tube &amp; Hose Options</b>	
<b>Tubing Material<sup>2</sup></b>	Nylon
<b>Sizes - Liquid Discharge</b>	1 in. (25 mm) or 1-1/4 in. (32 mm) OD
<b>Pump Air Supply</b>	1/2 in. (13 mm) OD
<b>Air Exhaust</b>	5/8 in. (16 mm) OD
<b>Hose Material</b>	Nitrile
<b>Sizes - Liquid Discharge</b>	3/4 in. (19 mm) or 1 in. (25 mm) ID
<b>Pump Air Supply</b>	3/8 in. (9.5 mm) ID
<b>Air Exhaust</b>	1/2 in. (13 mm) ID

<sup>1</sup> Material upgrades available  
<sup>2</sup> Applies to QED supplied tubing;  
 other tubing sources may not  
 conform to QED fittings.

<sup>3</sup> PVDF - Polyvinylidene Fluoride

### Standard Application Limits (standard model)

AP4+ AutoPumps are designed to handle the application ranges described below. For applications outside these ranges, consult QED.

Maximum Temperature: 150°F (65°C)

pH Range: 4-9

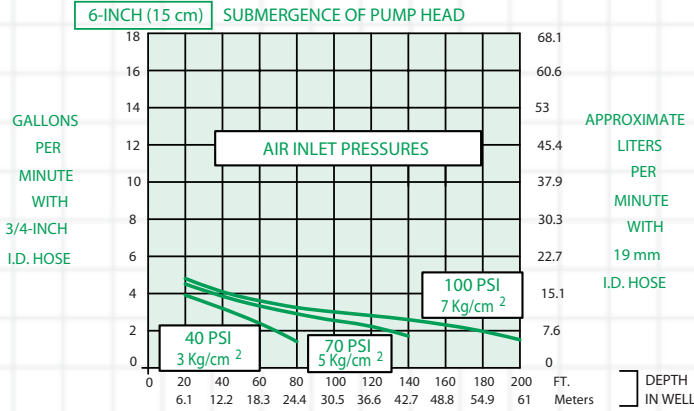
Solvents and Fuels: diesel, gasoline, JP1-JP6,  
 #2 heating oils, BTEX, MTBE, landfill liquids

Long and Short AP4+ AutoPumps are warranted for five (5) years: 100% materials and workmanship.

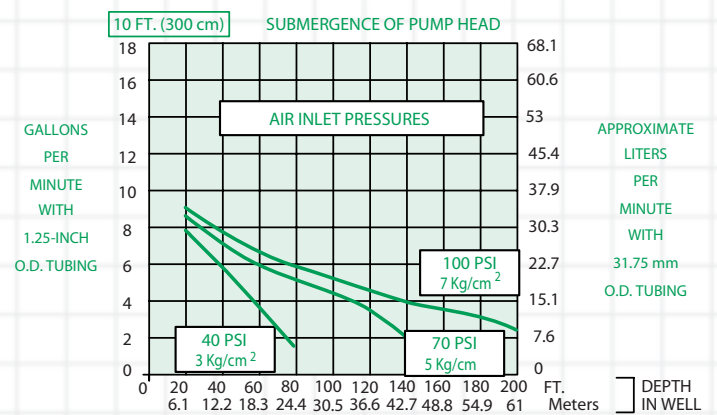
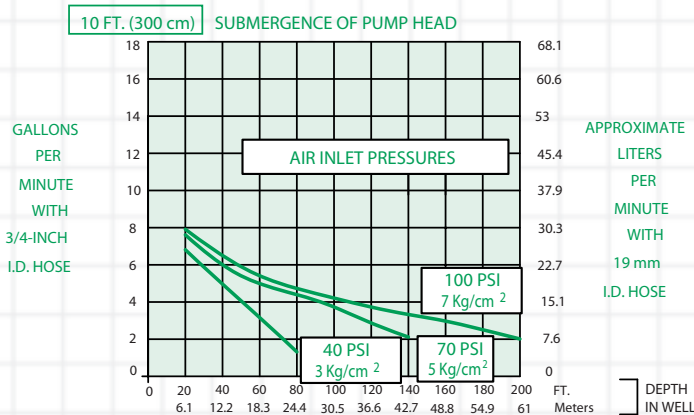
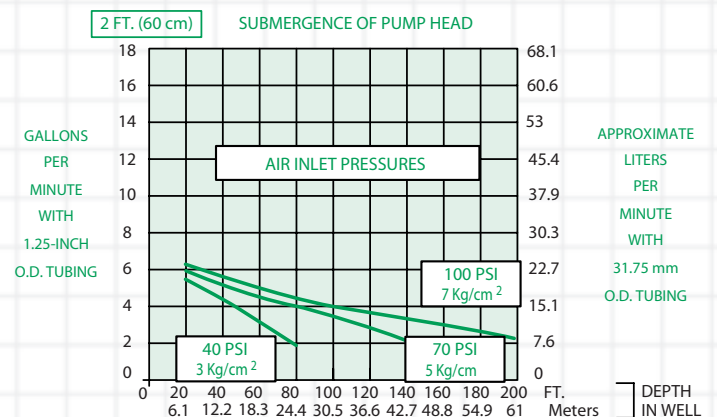
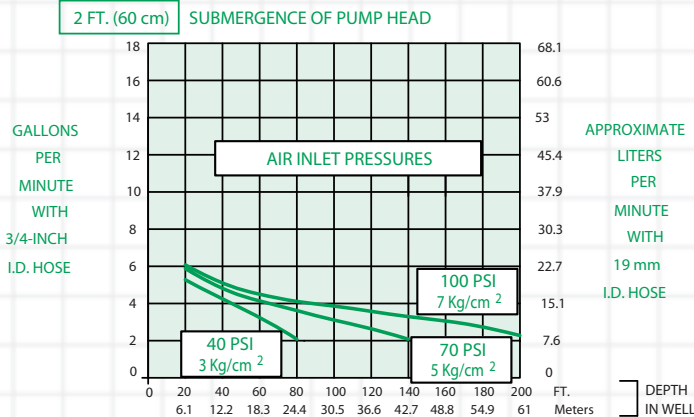
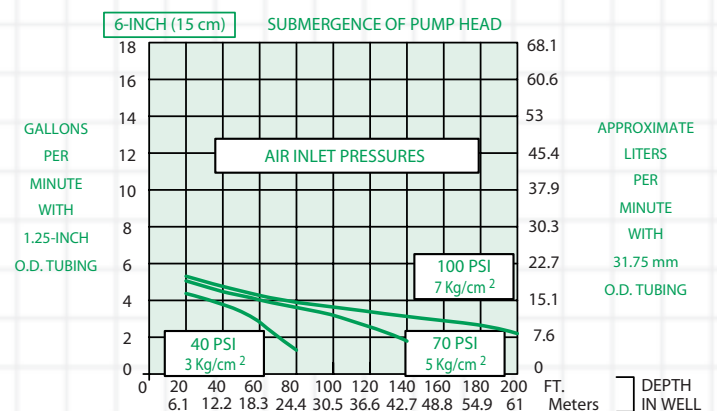
Low-Drawdown AutoPumps are warranted for one (1) year: 100% materials and workmanship.

### Flow Rates<sup>1</sup>

**3/4 inch (19 mm)  
Inside Diameter Discharge Hose  
(Equivalent to 1-Inch O.D. Tubing)**



**1 inch (25.4 mm)  
Inside Diameter Discharge Hose  
(Equivalent to 1.25-Inch O.D. Tubing)**



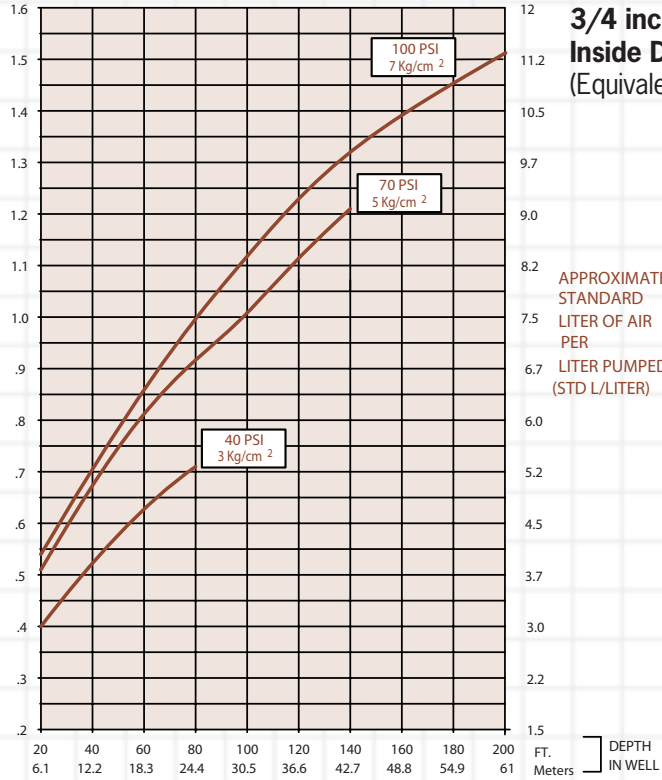
<sup>1</sup>FLOW RATES MAY VARY WITH SITE CONDITIONS. CALL QED FOR TECHNICAL ASSISTANCE.

### Air Consumption



STANDARD  
CUBIC FEET OF AIR  
PER  
GALLON PUMPED  
(SCF/GAL)

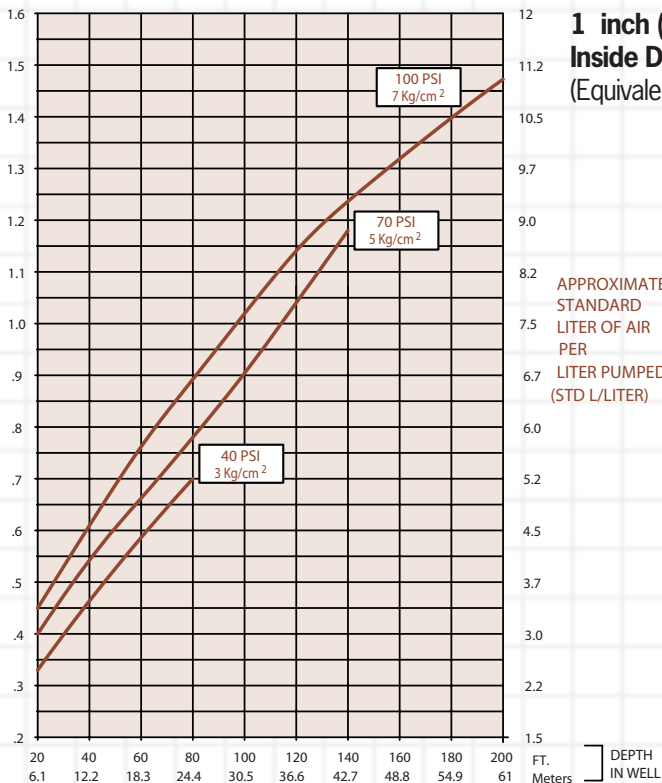
STANDARD  
CUBIC FEET OF AIR  
PER  
GALLON PUMPED  
(SCF/GAL)



**3/4 inch (19 mm)**  
**Inside Diameter Discharge Hose**  
(Equivalent to 1-Inch O.D. Tubing)

APPROXIMATE  
STANDARD  
LITER OF AIR  
PER  
LITER PUMPED  
(STD L/LITER)

**1 inch (25.4 mm)**  
**Inside Diameter Discharge Hose**  
(Equivalent to 1.25-Inch O.D. Tubing)



APPROXIMATE  
STANDARD  
LITER OF AIR  
PER  
LITER PUMPED  
(STD L/LITER)