



# AP1 & AP2 SERIES

for natural oxidation of sulfur and iron



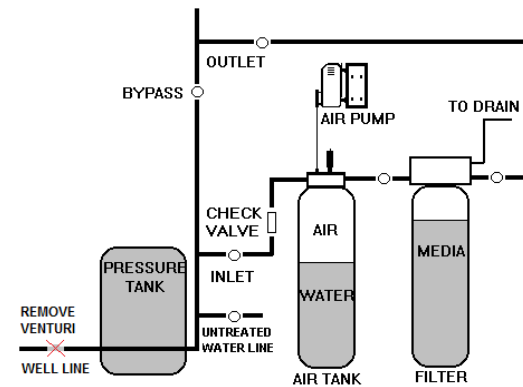
**Aeration Made Simple!!!**

The Air Pump is an innovative, compact, quiet source of oil-less compressed air, producing up to 100 psi. Its custom design is rugged in construction and requires low maintenance. With the use of the Air Pump, aeration is made simple and can easily adapt to existing aeration systems. The Air Pump eliminates obsolete air injectors and the problems of sizing venturis. Air is introduced on the outlet side of the pressure tank, which prevents precipitated iron from building up in the pressure system.

## FEATURES:

- ❑ 115 and 230 volt available
- ❑ easily adapts to existing aeration systems
- ❑ easy installation
- ❑ no back pressure on well pumps
- ❑ no more troublesome venturi injectors
- ❑ oil-less and medically safe
- ❑ thermal protection
- ❑ one year manufactures warranty
- ❑ UL listed (AP1 CSA listed) and AP2 CUR recognized

**More on back**

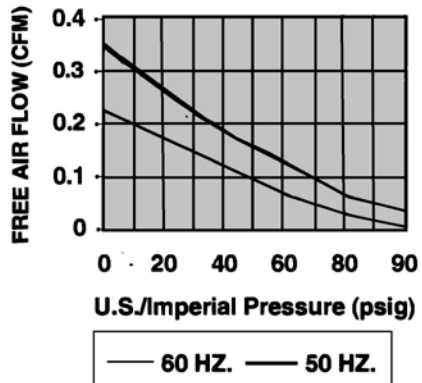


Actual installation may vary from diagram above

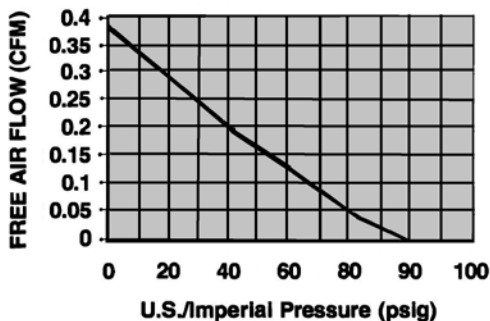
# AIR PUMP SPECIFICATION SHEET

## PRODUCT PERFORMANCE:

### AP 2 (230 volt)



### AP 1 (115 volt)



## AIR VOLUME PRODUCTION:

- 1) Cubic feet per minute injection of air
  - a) @ 0 psi, AP1 will inject .38 CFM
  - b) @ 50 psi, AP1 will inject .15 CFM
- 2) Injected air quality
  - a) Oil-less, no contamination of air from pump
- 3) Maximum pressure compressor can pump
  - a) 100 psi
  - b) 70 psi recommended maximum pressure
- 4) Air pump cycle depends on application

## AP PHYSICAL CHARACTERISTICS:

- 1) Pump weight: approx. 8 pounds
- 2) Water resistant
  - a) AP is NOT waterproof
  - b) AP can operate with some room moisture, but should not be exposed to rain or very wet conditions. Should not be used outdoors.
- 3) Temperature: AP can withstand temperatures from 40 to 100 degrees F as long as there is not a great amount of moisture.
- 4) Pump Noise: 50 db (decibels)
- 5) Life of AP: 20,000 – 25,000 hours
- 6) Structure: Body and most components are aluminum. The valves are stainless steel and the compression cup is Teflon.

- 7) AP cannot inject fluids.
- 8) AP uses a rocking piston to compress air.
- 9) Type of Motor: Induction (not commutator).

## MAINTENANCE:

- 1) Lubrication: self-lubricating, never oil
- 2) Teflon compression cup needs to be replaced every 12,000 hours.
- 3) Service: annual inspection service is recommended.

## ELECTRIC:

The AP1 is CSA listed and UL recognized. The AP2 is CUL pending and UL recognized. Pumps have 16-gauge wire and are 1/16 horsepower. Pumps have automatic thermal protection shut off. When ready, pump will restart automatically.

	VOLTAGE	HZ	WATTS	AMPERAGE
AP1	115	60	241.5	2.44
AP2	220	50/60	286/230	1.3/1.0

## RECOMMENDED ACCESSORIES:

**PUMP INSTALLATION KIT:** (1) 0-100 psi pressure gauge, (2) ¼" male check valves (see below), (1) air regulator valve, (6') 3/8" polyethylene tubing, (2) polypropylene tubing adapters, (3) rubber feet or (1) shelf or bracket with vibration mounts (see below)

**CHECK VALVE OPTIONS:** The installation kit comes with your choice of the following two check valves:

- a) kynar check valves are ozone resistant with Viton seals
- b) Stainless steel check valves have type 303 steel body with poppet valve and Viton seal.

## MOUNTING SHELF

The shelf is constructed of 3/32" aluminum with shelf top pre-drilled to accept pump with vibration mounts and shelf back pre-drilled for mounting. Shelf dimensions: top 5"X6"; back 3 ½"X6"

## VERTICAL MOUNT BRACKET

The shelf is constructed of aluminum and is pre-drilled to be mounted on top of our custom in/out aeration head. Shelf dimensions are 6" w x 15.5" tall.

## USE WITH OZONE: CONSULT OZONE

**MANUFACTURER ON USE WITH AN AIR PUMP.** The Air Pump equipment is "ozone resistant," using viton, Teflon and stainless steel parts. However, wet ozone will deteriorate the aluminum body. A dryer is recommended. Further, we cannot guarantee the quality or production of ozone during the pumping operation. Conclusive data is not available regarding ozone damage to the pump. Users of ozone may receive a 1 year warranty on the Air Pump when the compressor is "pushing" air into an ozone generator. The warranty is void when ozone is drawn through the compressor.