



Aqua Ammonia Specifications

Heritage Systems aqua ammonia package to consist of aqua ammonia storage tank, secondary containment, 24 vdc ultrasonic tank level indicator and cellular modem (Data-Link), fume scrubber, aqua ammonia delivery pump, pH analyzer and pH sensor.

Pump to be mounted on tank with product delivery line plumbed to inject at final wastewater collection point. PH analyzers to be mounted in a NEMA 4X enclosure with capability to control aqua ammonia delivery pump either by 4/20 mA or 110vac relay. Data-Link and ultrasonic level transmitter to be mounted on tank.

Heritage Systems to provide and install the tank, containment, level indicator, Data-Link, fume scrubber, delivery pump, pH analyzer, pH sensor, aqua ammonia delivery line and instrument cable. Others to provide instrument cable conduit and 110 vac power conduit. 110 vac power will be required to the pH analyzer enclosure mounted on the control backboard and the Data-Link enclosure mounted on top of the chemical storage tank. A 110 vac outlet will be required at the top of the chemical storage tank for the chemical delivery pump. This outlet is energized only when the rotary screen is operational.

1 ½” conduit to connect pH analyzer enclosure and pH probe located in wastewater treatment. ½” N80 PVC pipe to be stubbed up at chemical storage tank and wastewater treatment line exiting the rotary screen.

Heritage Systems to provide monthly service for cleaning and calibration. Other services are available upon request. Heritage Systems retains ownership and maintenance responsibility for the equipment. Client has no capital outlay. Client agrees to compensate Heritage Systems by purchasing aqua ammonia as needed and within the terms of the agreement.

Contact Michael Long at Heritage Systems, Inc. 707-258-0553

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Aqua Ammonia Storage & Delivery System Technical Data

Tank:	1,000-gallon white cross-linked polyethylene vertical storage tank, standard wall thickness, bolt on dust cover with polyethylene foam gasket. Tank dimension: d (5.0 foot), h (8.5 foot)
Containment:	1,350-gallon natural linear polyethylene secondary containment tank with standard wall thickness. Tank dimension: d (6.0 foot), h (6.00 foot)
Pump:	EHE series electronic aqua ammonia metering pump, maximum output 20-gallons per hour, turndown ratio 1800:1, up to 360 strokes per minute, 4/20 mA and pulse ready external control. PVC head, PTFE diaphragm, CE balls, EPDM valve seat, PTFE gasket. 115VAC, 1.8 Amp max, 48-watt average.
PH Analyzer:	½ DIN NEMA 4X pH analyzer, measuring range -2.00 to 14.00, two SPDT relay outputs, two isolated 0-20 or 4-20 mA outputs, automatic temperature compensation, accuracy 0.1% of span, stability 0.05% of span, 115 VAC power supply
PH Sensor:	7-wire encapsulated differential pH sensor, molded body design LCP material, sensitivity <0.005 pH, stability 0.03 pH per 24 hours non-cumulative, load at 20 mA 450 ohms, maximum transmission distance 3,000 feet, antimony electrode.
Analyzer Encl.:	12x10x8 NEMA 4X enclosure for pH analyzer, lockable.
Tank Level Trans:	Two wire ultrasonic level transmitter, NEMA 6X polycarbonate enclosure with Kynar transducer. Supply voltage 12-28 VDC, loop resistance 600 Ohms @ 24 VDC.
Data-Link Monitor:	Cellular data monitoring package that provides remote monitor of aqua ammonia tank level. 110 VAC supply power with internal 24 VDC power transformer to power modem and tank level transmitter

Heritage Systems Inc.

2471 Solano Ave. Suite 141

Napa, CA. 94558

707-258-0553

www.heritagesystemsinc.com