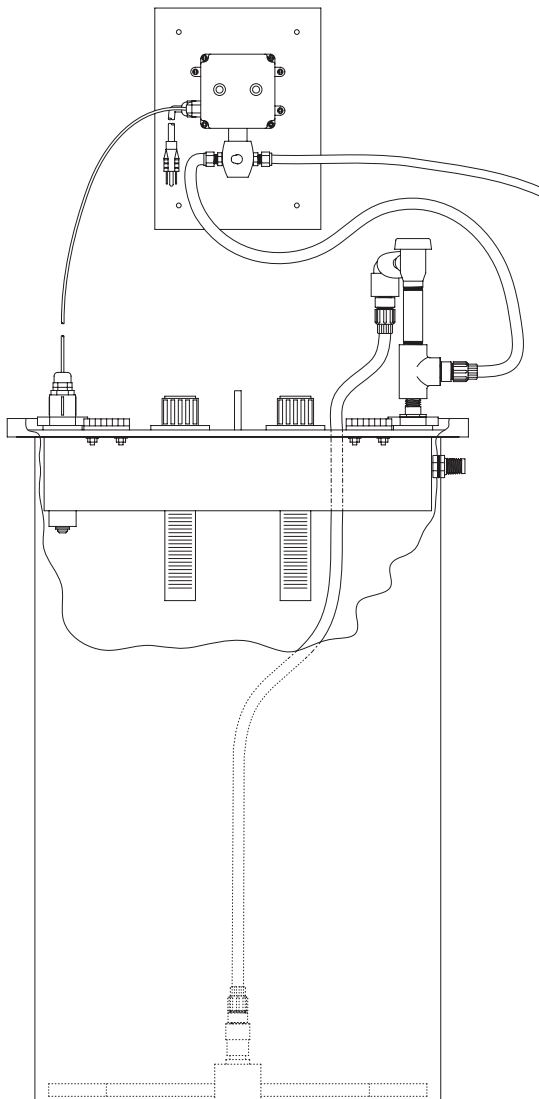


KMNO₄ Saturator

Potassium Permanganate Saturator

The potassium permanganate saturator is the latest in technology for use with technical grade granular potassium permanganate conforming to AWWA Standard B603-83.

NPI saturators use a new design emphasizing simple, rugged construction, corrosion-resistant materials and long lasting components. The units offer base models using proven mechanical float technology with all thermoplastic construction to resist the effect of KMnO₄ over time.



For additional options, including secondary shutoff assemblies and secondary containment systems are available to round out a proper KMnO₄ installation, please call NPI.

Features of the KMnO₄ Saturator

- Rugged 55, 70, or 110 Gallon PE tank.
- Cover Mounted Level Control.
- Upflow solution flow design for reduced maintenance.
- Rigid PE tank cover for supporting dual chemical feed pumps (main and backup pump).
- Potassium Permanganate (KMnO₄) capacity of 350, 450, or 700 lbs.
- All thermoplastic construction for superior chemical resistance.
- Rugged hinged cover offers 50% opening area for easy filling with technical grade (KMnO₄).
- Internal baffle to reduce wave action and protect float assembly.
- Labelled 'fill' and 're-fill' levels for KMnO₄ replenishment.
- Single external tubing connection for easy disassembly.
- Flow Distribution Assembly has 50% greater area for more consistent solution generation.
- Optional concentric secondary containment tank assembly with CLA-VAL secondary shutoff control valve.
- Dual pump pick-up strainers are easily top removable for maintenance.
- Equipped with siphon breaker to prevent over-feed due to siphoning.
- Easily retrofits to installations currently using other fluoride saturators.
- Remote, panel mounted, control box and solenoid valve.

800-378-1500

Northeast Pump & Instrument

www.npipump.com

190 Summer Street, Lunenburg, MA 01462

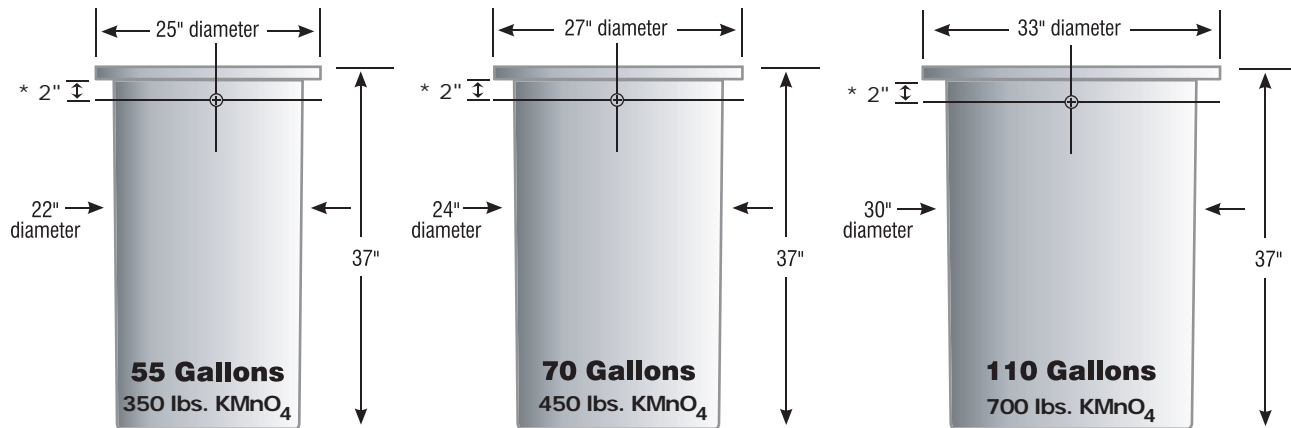
Engineering Specifications

- ❑ Saturator shall be of 55-gallon capacity of the up-flow design and constructed of all thermoplastic materials.
- ❑ Design shall include 6 distribution laterals for best disbursing of incoming water.
- ❑ Saturator shall be equipped with cover mounted float switch, remote mounted solenoid valve and control box.
- ❑ Cover assembly shall be flat for easy mounting of two chemical-feed pumps and should be equipped with an internal baffle to protect the float switch during addition of technical grade KMnO_4 .
- ❑ Cover assembly must have 50% of its area moveable for easy refilling with KMnO_4 and also for easier maintenance.
- ❑ Saturator must be equipped with a syphon breaker to prevent back-syphoning into the water source.
- ❑ Pump pick-up tubes shall be removable from the outside for easy cleaning.

Product Specifications

Incoming Water Pressure:	20 to 80 PSI
Incoming Water Flow Rate:	2 GPM maximum
Maximum Withdrawl Rate:	50=8GPM; 70=10GPH; 110=14GPH
Maximum Solution Feed Rate:	1 GPM
Water Quality Requirements:	< 2 Grains hardness (water softener required for hardness greater than 2 grains)
Electrical Requirements:	115 VAC
Incoming Water Connection:	6' of tubing with 3/8" NPT male fitting provided for supply connection

Dimensions



Ordering Information:

KMnO_4 Saturator

N-PPS1000

N-PPS1070

N-PPS1110

800-378-1500

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