

MERLIN[®]

SODIUM PERMANGANATE DILUTION SYSTEM

OPTIMIZES GREEN
SAND CHARGING

PREVENTS SAND
FILTERS FROM
CLOGGING

FOR USE WITH 20%
OR 40% SOLUTION

ELIMINATES
OPERATOR ERRORS
WITH MANUAL
DILUTION

IDEAL FOR IRON &
MANGANESE
REMOVAL



ANY SOLUTION STRENGTH AT THE TOUCH OF A BUTTON !

The MERLIN gives TOTAL flexibility by allowing you to enter any strength of Sodium Permanganate from 20-40%

NEAT STRENGTH
PERCENT= 20.5

And then simply choosing a desired ending strength as low as 0.1%.

DILUTE STRENGTH
PERCENT= 1.0

As liquid permanganate gains popularity, so do the challenges associated with feeding it. The MERLIN dilution system is a fully automated and redundant system that eliminates operator contact with the chemical. The weight based batching system uses a method of continuously making batches on demand, tracking each step of the batching process to assure that desired concentration is achieved. Because it uses a scale to precisely measure out the amount of water and hypo required, the MERLIN system is not affected by variations of water pressure system chemical tank head and beginning chemical strength.



The heart of our Sodium Permanganate Dilution System is our Merlin Dilution Controller

FORCE FLOW

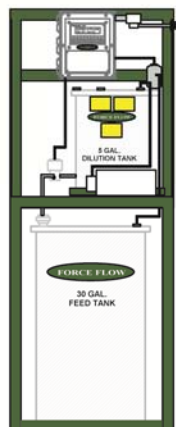
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SODIUM PERMANGANATE DILUTION SYSTEM

MODELS & ORDERING INFORMATION



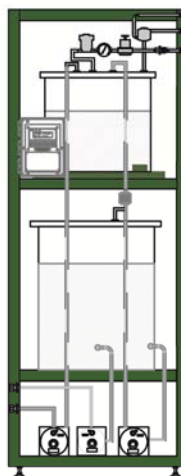
Model: MDS-5D30F
Capacity: 500 GPD



Height: 70"
Width: 22"
Depth: 26"
Batch Tank: 5 Gallon
Feed Tank: 30 Gallon



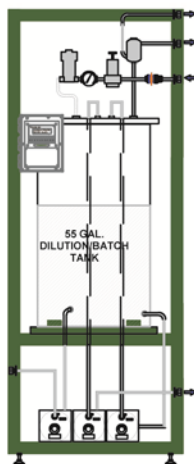
Model: MDS-17D55F
Capacity: 1500 GPD



Height: 78"
Width: 29"
Depth: 31"
Batch Tank: 17 Gallon
Feed Tank: 55 Gallon



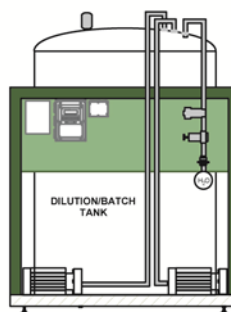
Model: MDS-55D
Capacity: 5000 GPD



Height: 84"
Width: 33"
Depth: 24"
Batch Tank: 55 Gallon
Feed Tank: Specify



Model: MDS-500D
Capacity: 50,000 GPD



Height: 56"
Width: 60"
Depth: 60"
Batch Tank: 500 Gallon
Feed Tank: Specify

TYPICAL SPECIFICATIONS

Dilution system shall use a system of automatically creating small weight based batches on demand to achieve dilution accuracies of up to 1/10th of 1%. Dilution system shall account for the difference of the specific gravity of water and the chemical used. The system shall use a microprocessor based controller to control the opening and closing of a water valve and chemical transfer pump to create a dilution batch. Dilution system shall be capable of diluting any strength of neat chemical solution to as low as a 0.1% chemical solution. Dilution system shall be pre-assembled, calibrated and tested prior to delivery. Complete dilution system shall include all necessary piping, valves, plumbing connections, transfer pumps, dilution tank, weight sensors, controller and relays necessary for sole source responsibility. System shall allow _____ (chemical type) to be delivered from supplier at _____% strength and shall then dilute chemical to _____% solution strength, but shall not be limited to this strength. System shall have a maximum capacity of _____ gallons of diluted chemical per day. Diluted chemical shall be automatically transferred from a _____gallon batch tank to a _____gallon feed tank. Force Flow, 2430 Stanwell Dr., Concord, CA 94520 USA (www.forceflow.com) or equal.

FORCE FLOW