

# HIGH STRENGTH HYPO GIVING YOU A HEADACHE ? 603

## SOLUTION: MERLIN HYPO DILUTION SYSTEMS

ELIMINATE  
VAPOR LOCKED  
PUMPS

REDUCE OR  
ELIMINATE  
SCALING IN PIPES

SAFETY OF  
LOW STRENGTH  
HYPO

HIGHER PUMP  
SPEEDS MEAN  
BETTER CONTROL.

ELIMINATE  
MESSY LEAKING  
PIPE JOINTS



### MAKE 0.8% HYPO AT THE TOUCH OF A BUTTON !

The MERLIN gives TOTAL flexibility by allowing you to enter any beginning hypo strength.

NEAT STRENGTH  
PERCENT= 14.2

and then simply choosing a desired ending strength, such as 0.8%.

DILUTE STRENGTH  
PERCENT= 0.8

As onsite hypo generators have become more common, users began to realize the benefits of feeding 0.8% Sodium Hypochlorite. Until now, however, onsite generators were the only effective way to produce this low strength hypo on site. The Merlin Hypo Dilution System gives you an alternative that is less expensive, less complicated and easier to maintain.

Sodium Hypochlorite off gasses at a much higher rate in high concentrations than it does at low concentrations, and therefore dilution can help eliminate vapor locked pumps, exploding ball valves and liquid/gas separation that causes inconsistent feed. In addition, feeding conventional strength hypo exploits weak spots in piping and joints causing leaks, which increase maintenance and operator exposure to chemicals. Feeding low strength hypo is also very effective at eliminating pipe scaling at the process injection point. By lowering the source hypo strength, the pH of the hypo is closer to that of the process water which helps reduce the dissolved solids from precipitating on piping as scale. Lastly, feeding low strength hypo can give better mixing, and better residual control by allowing you to run your metering pumps at higher speeds.



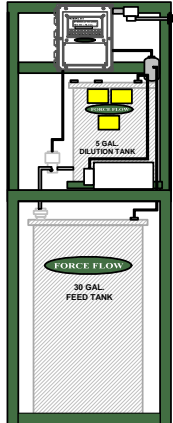
The heart of our Hypo Dilution System is the Merlin Dilution Controller.

**FORCE FLOW**

## MERLIN HYPO DILUTION SYSTEMS

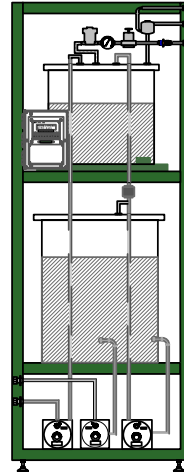
## MODELS &amp; ORDERING INFORMATION

☐ Model: MDS-5D30F  
Capacity: 50 PPD c12



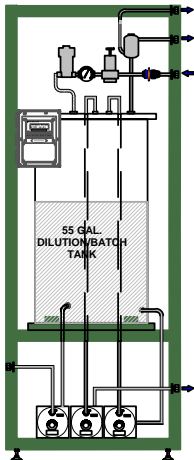
Height: 70"  
Width: 22"  
Depth: 26"  
Batch Tank: 5 Gallon  
Feed Tank: 30 Gallon

☐ Model: MDS-17D55F  
Capacity: 200 PPD c12



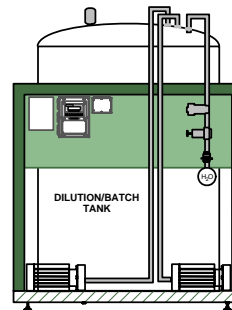
Height: 78"  
Width: 29"  
Depth: 31"  
Batch Tank: 17 Gallon  
Feed Tank: 55 Gallon

☐ Model: MDS-55D  
Capacity: 500 PPD c12



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

☐ Model: MDS-500D  
Capacity: 5000 PPD c12



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](http://www.forceflow.com)) or equal.

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