

# Chlorination / DeChlorination

with the

## 5M H<sub>2</sub>O Neutralizer<sup>®</sup>

4 1/2" FNST  
swivel connection

Custom threads  
available at an  
additional cost

Flow Ranges From  
500 - 4,500+ GPM

The H<sub>2</sub>O Neutralizer<sup>®</sup> features a lateral by-pass venturi design which achieves a full vacuum at pressures as low as 20 psi and maintains a constant feed solution flow of 1 gallon per minute throughout the entire flow range.



Tacoma Water - Tacoma, Washington

U.S. Patent # 6,264,846 & 6,464,885  
International Patents Pending



*The H<sub>2</sub>O Neutralizer<sup>®</sup>  
is the original  
Chlorination / DeChlorination Device*

Photo courtesy of San Francisco Water Department - San Francisco, California



### Available packages:

5M-5100 or 5M-5100U

- OR -

5M-5150 Total Solution Package

5M-5150U Total Solution Package

including:

5" x 20'-0" Nitrile Rubber Discharge Hose

5" Full Flow Diffuser

5" Dust Cap

Measurement Technologies, Inc.

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www.H<sub>2</sub>ONeutralizer.com



## 5M-5100 Package includes:

### 5M H<sub>2</sub>O Neutralizer®



Nominal Size:	5"
Overall Length:	19.5" (49.5 cm)
Overall Height:	12" (30.5 cm)
Width:	7.5" (19.1 cm)
Weight:	26 lbs.
Flow rate:	500 - 4,500 GPM
Feed Solution rate:	60 GPH
Power requirements:	None
5M-5100:	Orifice Inserts - 3.5", 3.0", & 2.5"
5M-5100 Ultimate:	Orifice Inserts - 3.5", 3.0", 2.5", 2.0", 1.5", 1.0", 0.75"
Inlet:	4.5" FNST swivel, other sizes & threads are available
Outlet:	5" Male Cam Lock
Tubing:	(2) 3/8" x 5'-0"
Storage Case:	Blow molded with custom foam cutout

## 5M H<sub>2</sub>O Neutralizer®

The 5M H<sub>2</sub>O Neutralizer® is designed primarily for high volume flushing of potable drinking water; however, it can also be used to DeChlorinate Super Chlorinated water and to super chlorinate.

The high limit of the residual level of Super chlorinated water to be dechlorinated is determined by the discharge rate. Super chlorinated water with a residual level in the 50 ppm range can be discharged in the 500 - 3,000 GPM flow range. As the residual level drops, the discharge rate can be increased. Down stream conditions must be considered when flushing at high volumes. In low pressure conditions, or when discharge rates are low, the 5M Ultimate H<sub>2</sub>O Neutralizer® may need to be used. If flows over 4,500 gpm are required, multiple devices can be installed on a header system.

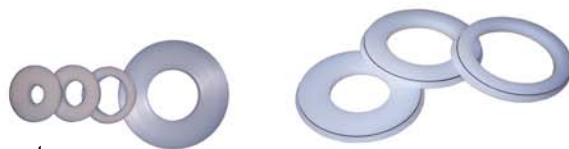
## 5M-5150 Package includes:

5M-5100 or 5100U Package (above)

5' x 20'-0" Nitrile Rubber Discharge Hose

5" Full Flow™ Diffuser

5" Dust Cap



5M-5150 or 5M-5150 Ultimate



The dechlorination device will have a 5" nominal diameter with a 4½" FNST swivel inlet with male Cam Lock outlet, for connecting to fire hydrants, blow-off assemblies and discharge hoses. The device will have one fixed orifice with additional orifices, which can be placed in the fixed orifice to reduce the orifice opening to create differential pressure and allow control of the water flow based on the by-pass pressure coming into the device. The device will have a flow range of 450 to 4,500 gpm with no change in the feed solution rate (60 gallons per hour) entering the lateral by-pass venturi. The device must have a make-up water control valve, which will allow the user to make additional batches of feed solution while dechlorinating through the feed solution valve. This make-up water control valve must also allow the user to determine what the incoming chlorine levels are by drawing water samples from this outlet. The device must be able to use any of the common reagents to dechlorinate chlorinated or chloraminated water. Dechlorination of super chlorinated water can be achieved up to 100 ppm with discharge rates to 1,500 gpm. The device will have a feed solution control valve equipped so that it will allow the user to balance the amount of reagent entering the water or chlorine solution for chlorination. This will allow the user to conserve on the amount of reagent products that are introduced into the waterway, and add only the proper amount of reagent to remove the chlorine. The unit will work with water pressure only; no outside power will be required. The water pressure will create a vacuum that will induce the feed solution into the waterway. The vacuum will only work in one direction. Once the flow has stopped, the vacuum will cease. No backflow or reverse flow will occur with the reagent solution. The device is furnished with a custom storage case, including vinyl tubing and hose adapter. Included with this package: one-5"x20'-0" discharge hose made from Nitrile rubber with Cam Lock connections, one – 5" Full Flow Diffuser™, one – 5" dust cap. Dechlorination device shall be equal to the H<sub>2</sub>O Neutralizer® Model 5M-SC, as manufactured by Measurement Technologies, Inc. of Redmond, Washington or prior approved equal.

5M-5100 or 5100 Ultimate (ONLY)

**For 5M-5100 or 5100 Ultimate specifications, remove the following sentence from above:**

*Included with this package; one-5"x20'-0" discharge hose made from Nitrile rubber with Cam Lock connections, one – 5" Full Flow Diffuser™, one – 5" dust cap.*