The Nutrient Delivery System (NDS) is an assembly of high-quality dosers connected with easy-to-configure kits. The NDS thrives anywhere, from greenhouse environments to outdoors, allowing installation in any application.

The NDS features both Water-Powered Dosatron Dosers, and Electric Etatron Dosing Pumps, whose proven technology of reliability and accuracy has been upheld for over 40 years.

With total dilution control in mind, customizing the system is easy, based on your personal nutrient program. It provides increased quality, and makes the process of blending and dispensing nutrients easier and more accurate.

- Automate the Nutrient Delivery process to reduce human error
- Decrease labor cost and increase profits
- Repeatable performance with a simple interface
- No Venturi tips, no clogs
- Modular kit concept allows for a customized system to fit every application
- Outstanding customer service and technical support
Dosatron Dosers
Water-Powered

Water-powered, no electricity is needed

Easy to adjust, just turn the dial to set the necessary dosage rate

Volumetric proportioning, ensuring the mixture remains consistent, regardless of variations in pressure and flow

Piston technology, mixing the water flowing through the doser with the concentrate for a blended solution

Eetatron Pumps
Electric

Energy saving, microprocessor metering pump

Provides consistent dosing

Standard PVDF solenoid head

Compact design

IP65 acid resistant housing

Programmable dosing, automatically adjusts the frequency of the dose based on the flow rate
The NDS Series

Perfect for: Nutrients • Fertilizers • Insecticides • Fungicides
Acids • Caustics • Wetting Agents • Disinfectants • Cleaners

Lo-Flo Series
- Water-Powered - 3/4 inch System Kits
  (Flow range of 2 - 10 GPM)
- Electric - 3/4 inch System Kits
  (Flow range of 0.5 - 20 GPM)
- Micro-Doser System - 3/4 inch Kit
  (Flow range of 0.5 - 20 GPM)

Hi-Flo Series
- Water-Powered - 1 1/2 inch System Kits
  (Flow range of 5 - 40 GPM)
- Electric - 1 1/2 inch System Kits
  (Flow range of 5 - 60 GPM)
- Micro-Doser System - 1 1/2 inch Kit
  (Flow range of 5 - 60 GPM)

Mega-Flo Series
Flow range of 5 - 400 GPM
- Dosatron D20S - 100 GPM
  2 inch NPT
- Dosatron D132 - 132 GPM
  3 inch NPT
- Dosatron D400 - 400 GPM
  4 inch Flange
HOW IT WORKS

Water-Powered NDS

Applications:  Drip Irrigation  ●  Vertical Farming  ●  Overhead Irrigation
Grow Towers  ●  Octo-Bubbler System  ●  Batch Tank Fill

Water-powered, energy saving
Customizable and expandable by adding more dosers
Works with various substrates and irrigation methods
Easily doses different nutrients, additives, or supplements, plus a pH adjuster for a perfect, well-blended solution
Makes the time draining practice of “measure and pour” a thing of the past, saving you time and money
HOW IT WORKS

Electric NDS

Applications: Drip Irrigation • Vertical Racking Systems • Ebb and Flow Batch Tank Management • Pulse Irrigation Method • Controlled Dosing

Turnkey fertigation system

Includes flow control pre-wired components and all necessary installation hardware

Wide selection of dosing pumps capable of dosing high-concentrate chemistries

Can achieve lower dilution rates

Expandable up to 12 dosing pumps

Ideal for pulse irrigation

ETATRON

NDS™

NUTRIENT DELIVERY SYSTEM
LO-FLO SERIES

3/4 inch Water-Powered NDS

How to configure your Lo-Flo System with Dosatron and the customizable Nutrient Delivery System Kits

**Mixing Chamber sleeve Sunshade sold separately**
Part #: MC34-SHADE

**3/4” DAB Starter Kit**
This kit includes all the parts you need for the inlet of your Nutrient Delivery System.
Item #: HYKSTART-DAB

For high pressure situations use the Standard Starter Kit - Item #: HYKSTART

**3/4” Mixing Chamber Kit**
This kit will enhance the blending as the solution passes through. It’s a must have for silicates!
Item #: HYKMC34

If you have any questions, call 1-800-451-6628 or CHAT at www.dosatronusa.com or www.dilutionsolutions.com

NOTE: Installation illustrations are for reference only.
It is easy

1. Determine the number of products being dosed and their application rate/ranges
2. Determine the flow requirements of the irrigation system that will be fed by the NDS
3. Choose the appropriate Dosatron dosers by referring to the Dosatron Doser Selection Chart
4. Pick the Water-Powered NDS Kits that you need from the graphic below

**3/4” Water Hammer Arrestor Kit**
This kit protects the NDS from water hammer, keeping the system clicking for years to come.

*Item #: WHA34-SS-KIT*

**3/4” Monitor Kit**
The in-line nutrient monitor measures and displays the well-blended outgoing solution providing peace of mind.

*Item #: HYKMON*

*Multiple Monitor options available*
How to configure your Lo-Flo System with Etatron and the customizable Nutrient Delivery System Kits

1 **STARTER KIT**
   Item # ESTART-L
   This kit includes all the parts you need for the inlet of your Nutrient Delivery System

2 **FLOW CONTROL KIT**
   Item # EFC-K
   Measures and communicates the flow rate to the dosing pumps

3 **EXPANSION BOX KIT**
   Item # EEB-K
   Connects with the flow control for the easy addition of dosing pumps

4 **eOne PUMP KIT**
   See pump selection chart for Item #
   Includes a pre-wired cable for an easy connection into the system

**NOTE:** Installation illustrations are to be used as a reference guide only.
It is easy

1. Determine the number of products being dosed and their application rate/ranges
2. Determine the flow requirements of the irrigation system that will be fed by the NDS
3. Choose the appropriate Etatron pumps by referring to the eOne Selection Chart
4. Pick the Electric NDS Kits that you need from the graphic below

**5** PRV KIT
Item # EPRV
Assures consistent pressure, pre-tunes dosage rates, and prevents siphoning of valuable nutrients

**6** INJECTION MIXING KIT
See kit chart for Item #
Creates homogeneous blending of nutrients with the passing solution. Multiple options available

**7** MONITOR KIT
Item # EMON-L
Monitors pH and EC levels, and displays a snap-shot of the nutrient solution as it passes over the probes

**8** END KIT
Item # EEND-WL
Protects the system from harm caused by abrupt changes in the line-pressure

**9** HARDWARE KIT
Item # EHPMK
Contains the horizontal unistrut and components for the mounting of your Electric NDS

**10** HARDWARE KIT
Item # EVPMK
Contains the vertical unistrut and components for the mounting of your Electric NDS
How to configure your Hi-Flo System with Dosatron and the customizable Nutrient Delivery System Kits

1 1/2 inch Water-Powered NDS

HI-FLO SERIES

If you have any questions, call 1-800-451-6628 or CHAT at www.dosatronusa.com or www.dilutionsolutions.com

NOTE: Installation illustrations are to be used as a reference guide only.

1 1/2” Starter Kit
This kit includes all the parts you need for the inlet of your Nutrient Delivery System.
Item #: HYKSTART150

1 1/2” Mixing Chamber Kit
This kit will enhance the blending as the solution passes through. It’s a must have for silicates!
Item #: HYKMC150

If you have any questions, CHAT at www.dosatronusa.com

NOTE: Installation illustrations are to
It is easy

1. Determine the number of products being dosed and their application rate/ranges
2. Determine the flow requirements of the irrigation system that will be fed by the NDS
3. Choose the appropriate Dosatron dosers by referring to the **Dosatron Doser Selection Chart**
4. Pick the Water-Powered NDS Kits that you need from the graphic below.

**1 1/2” Water Hammer Arrestor Kit**

This kit protects the NDS from water hammer, keeping the system clicking for years to come.

*Item #: WHA150-SS-KIT*

**1 1/2” Monitor Kit**

The in-line nutrient monitor measures and displays the well blended outgoing solution providing peace of mind.

*Item #: HYKMON150*

*Multiple Monitor options available*
**HI-FLO SERIES**

**1 1/2 inch Electric NDS**

How to configure your Lo-Flo System with Etatron and the customizable Nutrient Delivery System Kits

---

**1 STARTER KIT**
Item # ESTART-H

This kit includes all the parts you need for the inlet of your Nutrient Delivery System

**2 FLOW CONTROL KIT**
Item # EFC-K

Measures and communicates the flow rate to the dosing pumps

**3 EXPANSION BOX KIT**
Item # EEB-K

Connects with the flow control for the easy addition of dosing pumps

**4 eOne PUMP KIT**
See pump selection chart for Item #

Includes a pre-wired cable for an easy connection into the system

---

**NOTE:** Installation illustrations are to be used as a reference guide only.
It is easy

1. Determine the number of products being dosed and their application rate/ranges
2. Determine the flow requirements of the irrigation system that will be fed by the NDS
3. Choose the appropriate Etatron pumps by referring to the **eOne Selection Chart**
4. Pick the Electric NDS Kits that you need from the graphic below

5. **PRV KIT**  
   Item # EPRV  
   Assures consistent pressure, pre-tunes dosage rates, and prevents siphoning of valuable nutrients

6. **INJECTION MIXING KIT**  
   See kit chart for Item #  
   Creates homogeneous blending of nutrients with the passing solution.  
   Multiple options available

7. **MONITOR KIT**  
   Item # EMON-H  
   Monitors pH and EC levels, and displays a snap-shot of the nutrient solution as it passes over the probes

8. **END KIT**  
   Item # EEND-WH  
   Protects the system from harm caused by abrupt changes in the line-pressure

---

9. **HARDWARE KIT**  
   Item # EHPMK  
   Contains the horizontal unistrut and components for the mounting of your Electric NDS

10. **HARDWARE KIT**  
    Item # EVPMK  
    Contains the vertical unistrut and components for the mounting of your Electric NDS

*Multiple Monitor options available
**REFERENCE CHARTS**

Use these charts when selecting the proper Dosatron Water-Powered Dosers or Etatron Electric Dosing Pumps to be used with your Nutrient Delivery System.

For more information or for any help selecting your dosers and kits that better suit your application, call **1-800-451-6628**, or CHAT with us @ www.dilutionsolutions.com.

### Dosatron Doser Selection Chart

#### For use with **Lo-Flo Series** Water-Powered NDS

<table>
<thead>
<tr>
<th>Lo-Flo Series Flow Range: 2 to 10 GPM</th>
<th>MODEL</th>
<th>INJECTION RANGE</th>
<th>MAX PRESSURE</th>
<th>CONNECTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>D25RE09VFBPHY (*D25RE09VFBPHY-M)</td>
<td>4 to 34 mL/gal</td>
<td>85 PSI</td>
<td>3/4” NPT</td>
</tr>
<tr>
<td></td>
<td>D14MZ3000VFBPHY (*D14MZ3000VFBPHY-M)</td>
<td>1.25 to 11 mL/gal</td>
<td>85 PSI</td>
<td>3/4” NPT</td>
</tr>
<tr>
<td></td>
<td>D14MZ2VFBPHY</td>
<td>7.5 to 75 mL/gal</td>
<td>85 PSI</td>
<td>3/4” NPT</td>
</tr>
<tr>
<td></td>
<td>D14MZ10VFBPHY</td>
<td>37.5 to 375 mL/gal</td>
<td>85 PSI</td>
<td>3/4” NPT</td>
</tr>
</tbody>
</table>

*Available with metric system scale.

#### For use with **Hi-Flo Series** Water-Powered NDS

<table>
<thead>
<tr>
<th>Hi-Flo Series Flow Range: 5 to 40 GPM</th>
<th>MODEL</th>
<th>INJECTION RANGE</th>
<th>MAX PRESSURE</th>
<th>CONNECTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>D8RE3000VFBPHY</td>
<td>1.25 to 4.85 mL/gal</td>
<td>116 PSI</td>
<td>1 1/2” NPT</td>
</tr>
<tr>
<td></td>
<td>D8RE2VFBPHY</td>
<td>7.5 to 75 mL/gal</td>
<td>116 PSI</td>
<td>1 1/2” NPT</td>
</tr>
<tr>
<td></td>
<td>D8RE5VFBPHY</td>
<td>37.5 to 190 mL/gal</td>
<td>116 PSI</td>
<td>1 1/2” NPT</td>
</tr>
</tbody>
</table>

Dosatrons include: mounting bracket, suction hose, weighted strainer, one union*, and quick start guide. Please review the basic installation drawing for recommended accessories. MAXIMUM TEMPERATURE: 104 °F. *Each doser comes with a single union to connect to the next doser or kit.
# eOne MF Pump Selection Chart

For use with **Lo-Flo** and **Hi-Flo Series** Electric NDS

<table>
<thead>
<tr>
<th>Pump Model</th>
<th>Kit Item #</th>
<th>Single Stroke Volume at 50 PSI</th>
<th>mL/Gal at 10 GPM</th>
<th>mL/Gal at 20 GPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>0110 eOne MF</td>
<td>E0110MF-M</td>
<td>0.20</td>
<td>4</td>
<td>2</td>
</tr>
<tr>
<td>0216 eOne MF</td>
<td>E0216MF-M</td>
<td>0.32</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>0420 eOne MF</td>
<td>E0420MF-M</td>
<td>0.36</td>
<td>11</td>
<td>5</td>
</tr>
<tr>
<td>0607 eOne MF</td>
<td>E0607MF-M</td>
<td>0.37</td>
<td>11</td>
<td>6</td>
</tr>
<tr>
<td>0710 eOne MF</td>
<td>E0710MF-M</td>
<td>0.56</td>
<td>17</td>
<td>8</td>
</tr>
<tr>
<td>1012 eOne MF</td>
<td>E1012MF-M</td>
<td>0.73</td>
<td>22</td>
<td>11</td>
</tr>
<tr>
<td>1505 eOne MF</td>
<td>E1505MF-M</td>
<td>0.85</td>
<td>26</td>
<td>13</td>
</tr>
<tr>
<td>2007 eOne MF</td>
<td>E2007MF-M</td>
<td>1.17</td>
<td>35</td>
<td>18</td>
</tr>
<tr>
<td>3005 eOne MF</td>
<td>E3005MF-M</td>
<td>1.67</td>
<td>50</td>
<td>25</td>
</tr>
</tbody>
</table>

**NOTE:** Dosing rates may vary based on water flow, pressure, and chemical viscosity. Please contact Dilution Solutions experts for specific recommendations.

## Injection Mixing Kits for **Lo-Flo Series** Electric NDS

<table>
<thead>
<tr>
<th>Injection Mixing Kit - Item #</th>
<th>Description</th>
<th>Kit Length Installed</th>
<th>Gallons (Configured spacing for common tank sizes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EIM-LS</td>
<td>Lo-Flo Injection Mixing Kit - Small</td>
<td>11”</td>
<td>1 to 5</td>
</tr>
<tr>
<td>EIM-LM</td>
<td>Lo-Flo Injection Mixing Kit - Medium</td>
<td>21”</td>
<td>5 to 15</td>
</tr>
<tr>
<td>EIM-LL</td>
<td>Lo-Flo Injection Mixing Kit - Large</td>
<td>29”</td>
<td>25 to 55</td>
</tr>
<tr>
<td>EIM-LXL</td>
<td>Lo-Flo Injection Mixing Kit - X-Large</td>
<td>53”</td>
<td>275 tote</td>
</tr>
</tbody>
</table>

## Injection Mixing Kits for **Hi-Flo Series** Electric NDS

<table>
<thead>
<tr>
<th>Injection Mixing Kit - Item #</th>
<th>Description</th>
<th>Kit Length Installed</th>
<th>Gallons (Configured spacing for common tank sizes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EIM-HS</td>
<td>Hi-Flo Injection Mixing Kit - Small</td>
<td>15”</td>
<td>1 to 5</td>
</tr>
<tr>
<td>EIM-HM</td>
<td>Hi-Flo Injection Mixing Kit - Medium</td>
<td>21”</td>
<td>5 to 15</td>
</tr>
<tr>
<td>EIM-HL</td>
<td>Hi-Flo Injection Mixing Kit - Large</td>
<td>29”</td>
<td>25 to 55</td>
</tr>
<tr>
<td>EIM-HXL</td>
<td>Hi-Flo Injection Mixing Kit - X-Large</td>
<td>57”</td>
<td>275 tote</td>
</tr>
</tbody>
</table>
MICRO-DOSER SYSTEMS

Lo-Flo and Hi-Flo Series NDS

The Etatron eOne Micro-Doser can accurately inject super-concentrated products and can be integrated into an existing fertigation system. The Micro-Doser is able to hit target rates of many high-value products on the market.

These kits can work in combination with a Dosatron Water-Powered NDS, or as a stand-alone solution, to provide the ultimate in reliability and functionality in one system:

- Applications include dosing acids (pH down), caustics (pH up), plant health additives, and water treatment products
- Ability to micro-dose down to 0.1 mL per gallon, depending on the flow rate

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDE0110MF.75KIT</td>
<td>Lo-Flo Micro-Doser Kit Etatron eOne Kit w/ Water Meter &amp; Pressure Relief Valve Connections - 3/4” NPT</td>
</tr>
<tr>
<td>MDE0110MF1.5KIT</td>
<td>Hi-Flo Micro-Doser Kit Etatron eOne Kit w/ Water Meter &amp; Pressure Relief Valve Connections - 1 1/2” NPT</td>
</tr>
</tbody>
</table>

NOTE: Installation illustrations are to be used as a reference guide only.
MEGA-FLO SERIES
Water-Powered Injectors
Dosatron’s Mega-Flo Series
Fertilizer and Chemical Injectors

D20S
100 GPM

Non-electric, water-powered
Volumetric and proportional

Perfect for: Fertilizers • Insecticides • Fungicides • Algaecides
Nutrients • Disinfectants • Compost Tea • Organics • Acids

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dilution Range</td>
<td>1:500 to 1:50 (.2% to 2%)</td>
</tr>
<tr>
<td>Water Flow Range</td>
<td>5 to 100 GPM</td>
</tr>
<tr>
<td>Operating Pressure Range</td>
<td>2 to 120 PSI</td>
</tr>
<tr>
<td>Available Housing Materials</td>
<td>Aluminum (Standard Blue)</td>
</tr>
<tr>
<td>Seal Materials</td>
<td>Viton®</td>
</tr>
<tr>
<td>Dimensions</td>
<td>55” x 15” (with legs); 42” x 15” (no legs)</td>
</tr>
<tr>
<td>Weight</td>
<td>47 lbs</td>
</tr>
<tr>
<td>Connection Size</td>
<td>2” NPT</td>
</tr>
<tr>
<td>Maximum Temperature</td>
<td>104 °F</td>
</tr>
<tr>
<td>Recommended Accessories</td>
<td>200 mesh filter, check valve</td>
</tr>
</tbody>
</table>

Unit includes: Set of legs, manual bypass, 6 ft clear suction tube, strainer, vacuum breaker and operating manual. MAXIMUM TEMPERATURE: 104°F
Water-Powered Injectors

MEGA-FLO SERIES

Dosatron’s Mega-Flo Series
Fertilizer and Chemical Injectors

D132
132 GPM

Non-electric, water-powered
Volumetric and proportional
Externally adjustable injection rate
Built-in bypass
3 inch NPT

Low injection rate model (1:30,000) is perfect for direct injection of water treatment chemicals

Perfect for: Fertilizers • Insecticides • Fungicides • Algicides
Chlorine • Disinfectants • Water Treatment • Caustics • Acids

<table>
<thead>
<tr>
<th>MODEL</th>
<th>D132WL30000</th>
<th>D132WL50000</th>
<th>D132MZ1</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAX. FLOW</td>
<td>132 GPM</td>
<td>132 GPM</td>
<td>132 GPM</td>
</tr>
<tr>
<td>MIN. FLOW</td>
<td>35.2 GPM</td>
<td>35.2 GPM</td>
<td>35.2 GPM</td>
</tr>
<tr>
<td>INJECTION PERCENTS</td>
<td>0.003% to 0.03%</td>
<td>0.02% to 0.2%</td>
<td>0.1% to 1%</td>
</tr>
<tr>
<td>INJECTION RATIO</td>
<td>1:30,000 to 1:3,000</td>
<td>1:5,000 to 1:500</td>
<td>1:1,000 to 1:100</td>
</tr>
<tr>
<td>PRESSURE RANGE</td>
<td>7 - 87 PSI</td>
<td>7 - 87 PSI</td>
<td>7 - 87 PSI</td>
</tr>
<tr>
<td>CONNECTIONS</td>
<td>3” NPT</td>
<td>3” NPT</td>
<td>3” NPT</td>
</tr>
</tbody>
</table>

Unit includes: suction hose, weighted strainer, and quick start guide. MAXIMUM TEMPERATURE: 104°F
D400
400 GPM

Non-electric, water-powered
Volumetric and proportional
Externally adjustable injection rate
Built-in bypass
4 inch flange
Engineered Diversion Technology

Perfect for: Fertilizers • Insecticides • Fungicides • Algaecides
Nutrients • Disinfectants • Compost Tea • Organics • Acids

<table>
<thead>
<tr>
<th>MODEL</th>
<th>D400MZ02</th>
<th>D400MZ05</th>
<th>D400MZ30000</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAX. FLOW</td>
<td>400 GPM</td>
<td>400 GPM</td>
<td>400 GPM</td>
</tr>
<tr>
<td>MIN. FLOW</td>
<td>110 GPM</td>
<td>110 GPM</td>
<td>110 GPM</td>
</tr>
<tr>
<td>INJECTION PERCENTS</td>
<td>0.02 to 0.2%</td>
<td>0.1 to 0.5%</td>
<td>0.003 to 0.0125%</td>
</tr>
<tr>
<td>INJECTION RATIO</td>
<td>1:5,000 to 1:500</td>
<td>1:1,000 to 1:200</td>
<td>1:30,000 to 1:8,000</td>
</tr>
<tr>
<td>PRESSURE RANGE</td>
<td>7.25 to 116 PSI</td>
<td>7.25 to 116 PSI</td>
<td>7.25 to 116 PSI</td>
</tr>
<tr>
<td>CONNECTIONS</td>
<td>4&quot; Flange</td>
<td>4&quot; Flange</td>
<td>4&quot; Flange</td>
</tr>
<tr>
<td>OPTIONAL ACCESSORY</td>
<td>Flange Kit (Item #: D400FL-KIT) 4&quot; female NPT</td>
<td>Flange Kit (Item #: D400FL-KIT) 4&quot; female NPT</td>
<td>Flange Kit (Item #: D400FL-KIT) 4&quot; female NPT</td>
</tr>
</tbody>
</table>

Unit includes: Built-in bypass, externally adjustable injection rate. MAXIMUM TEMPERATURE 104°F
MEGA-FLO SERIES
Water-Powered D400 Installation Options

● PARALLEL INSTALLATION
Allows for water flow rates up to 1,200 GPM

**D400 x 3 - 1200 GPM**

● SERIES INSTALLATION
Allows for simultaneous dosing of three different solutions at different dilution rates

**D400 x 3 - 400 GPM**

**NOTE:**
Installation illustrations are to be used as a reference guide only.

Please meet all state and local requirements for backflow prevention.