What is Fertigation?

Fertigation is the delivery of readily available nutrients and conditioners to the crop via irrigation systems to efficiently maximize yield.
NanoDose Fertigation System

Improve Yield

Get greater control over where and when nutrients are delivered to your crop to optimise plant growth.

- Applies fertilizer directly to the root zone
- Allows smaller doses more frequently
- Apply nutrients at any time, as your crop needs it

Save Time & Labor

Stop crop spraying and leverage your irrigation system instead.

- With less time on the tractor, you’ll save on fuel and labour and improve farm productivity
- Systems can be fully automated and integrated into your current irrigation system

Easy Installation into Existing Systems

Simply add an NanoDose Fertigation System to your current irrigation and control systems to start seeing the benefits.

Precise Control of Fertilizer

Manual or automated, infinitely variable control of fertiliser flows during pump operation. And it’s easy to use!

- Variable Speed - Simply dial in the flows you want (GPH)
- No need to stop pump to adjust flows
- Easily integrate pump operation into your existing farm control systems

Solar, AC or DC Powered

Whether you have power at your paddock or not, we’ve got you covered.

- Solar, mains (single and three phase) and other DC input versions available.

System Design & Installation Service

Need help designing and installing your fertigation system? Just call us, we can help.
NanoDose Fertigation Systems

New to fertigation or applying fertigation methods to a new crop?

Our NanoDose Systems offer full packages designed to get you up and running, with all the equipment and features you need as standard, as well as optional extras that can be integrated depending on your specific needs.

All NanoDose Systems are portable via your tractor and can even be mounted in the back of your trailer for easy transportation from one paddock to another.

Solar

No power in your paddocks? No problem! The Solar NanoDose Fertigation System means you can run different fertiliser strategies in different paddocks.

Highly portable and simple to use the system includes:

- Pump/Controller Unit
  - Positive displacement plunger pump
  - Solar/DC Controller
- SiA Solar Pack (sized for your specific needs)
  - Solar Panel
  - Batteries
- Heavy duty frame assembly - forkliftable
- Suction Strainer - to filter out any impurities from the tank
- Relief valves - for safety
- Mounted tank (optional)
- Bund (optional)
If you aren’t looking for a full system, bare Pump/Controller Units with frame are available.

AC

With access to mains power, either single phase or three phase, the AC NanoDose Fertigation System can integrate into your centralised irrigation system or work with your centre pivot or lateral. Portable and simple to use the system includes:

• Pump/Controller Unit
  Positive displacement plunger pump
  AC Controller
• Heavy duty frame assembly - forkliftable
• Suction Strainer - to filter out any impurities from the tank
• Relief valves - for safety
• Mounted tank (optional)
• Bund (optional)
The Pumps

Accurate, Compact & Lightweight - positive displacement plunger pumps.

Precise, Safe & Long-Life Performance

Highly accurate dosing control
No external moving components
Dual Seal Technology for low leakage
Ceramic Plungers
  • Extremely resistant to damage
  • Compatible with all known liquids
  • Almost unlimited life
316 SS or Kynar material used in all areas in contact with fertilisers
SiA Connector allows no-tool removal of the liquid end from the drive for servicing.
Designed & manufactured for the toughest conditions.

<table>
<thead>
<tr>
<th>Flow Rate (min)</th>
<th>Simplex Flow Rate (max)</th>
<th>Duplex Flow Rate (max)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 LPH / GPH</td>
<td>15.5 LPH / 4 GPH</td>
<td>31 LPH / 8 GPH</td>
</tr>
<tr>
<td>0 LPH / GPH</td>
<td>61.5 LPH / 16.25 GPH</td>
<td>123 LPH / 32.5 GPH</td>
</tr>
<tr>
<td>0 LPH / GPH</td>
<td>140 LPH / 36 GPH</td>
<td>280 LPH / 73 GPH</td>
</tr>
<tr>
<td>0 LPH / GPH</td>
<td>280 LPH / 73 GPH</td>
<td>560 LPH / 146 GPH</td>
</tr>
</tbody>
</table>

Not sure what size pump you need. We can help you - just call 251-952-GROW
The Controllers

Accessing the pump’s precise dosing capabilities is easy with our range of controllers. Simply dial up the flow you want (LPH or GPH) and it will immediately adjust the speed of the pump, even when the system is running. Digital displays ensure you always know your flow.

**Solar/DC Model**
- Easy to read digital display
- Up & down arrows to set flows
- Simple start/stop operation
- 4-20mA input to control pump speed option from other local devices

**AC Model**
- Easy to read digital display
- Dial to set flows
- Simple start/stop
- Over-torque protection

**NanoDose Controller**
- Full colour touchscreen display
- Soft touch buttons to input
- Full proportional flow adjustment
- Network capabilities, allowing full integration to farm systems via Modbus or Ethernet
- Ability to connect to multiple pumps
- Software upgradable via USB
- Fuse protection
- Available across all power types and voltages

If you aren’t looking for a full system, bare Pump/Controller Units with frame are available.
Efficiently Feeding Your Crop

• BETTER YIELD
• HIGHER QUALITY

Contact Us
10505A County Road 65, Foley, AL, 36535
Ph. 251-952-GROW
sales@gcogrows.com
www.gcogrows.com