GX 50
LIQUID METERING SOLUTION
N-FUSE

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 CAUTION 

Read this document carefully before installing, testing and using the AgXcel GX50 N-FUSE injection system.

- Follow all safety information presented within this document.
- Keep safety labels in good condition. Replace missing or damaged safety labels as necessary and verify labels are included on replacement parts or new equipment components.
- If you require assistance with any portion of the installation or service of this solution contact your local AgXcel Dealer or contact AgXcel directly.

Chemical Handling and Safety

Chemicals used in agricultural applications may be harmful to your health or the environment if not used responsibly. Review the safe, effective, and legal use and disposal of agricultural chemicals with the chemical supplier.

- Always follow safety labels and instructions provided by the chemical manufacturer or supplier.

 CAUTION – The GX50 N-FUSE is capable of injecting up to 290 PSI 

The installation of the GX50 N-FUSE unit is very versatile however for the best performance please follow the best practices below.

A. Positioning the Unit – The GX50 N-FUSE may be placed in any location that is not a high traffic area. However, the unit must be secured, and must be positioned on level ground or platform. Ensure that it is not in a location where vehicles, fork lifts, or pill tanks will directly hit the unit as these could damage the outer casing of the pump or filters and hoses.

B. Tank Feed – When plumbing the product tote to the unit, be sure tote is no more than 30 Feet in length. AgXcel Recommends keeping tote level with the Unit. This will ensure that the unit does not have to work harder to draw the chemical from the tank. Shorter Hose length will ensure easier flushing of the unit. Less chemical will be in the tank to pump line.

C. Injection Feed – The injection hose is 1" in diameter and 30 feet in length. The quick acting valve has a special locking clop on the valve's operating handle, which minimizes the chance of accidental opening. This also helps to minimize the loss of product when disconnecting, by locating the seat disc in the bottom of the filler coupling.

a. Check Valve - A 1" Stainless steal check valve is located just before the injection coupler. This will ensure no chemical or vapors will push back into the product hose.

D. High Pressure – The GX50 N-Fuse is a high-pressure injection unit with the ability to inject up to 290 PSI. However, AgXcel highly recommends the following precautions:

a. Pressure Relief Valve - The Kunkle valve is designed for liquid relief. The valve set relief pressure is 230 PSI. Each of these valves are tested and inspected for correct pressure setting and leakage. Take note that back pressure increases set pressure on a one to one basis and reduces capacity. Back pressure in excess of 10% of set pressure is not recommended.

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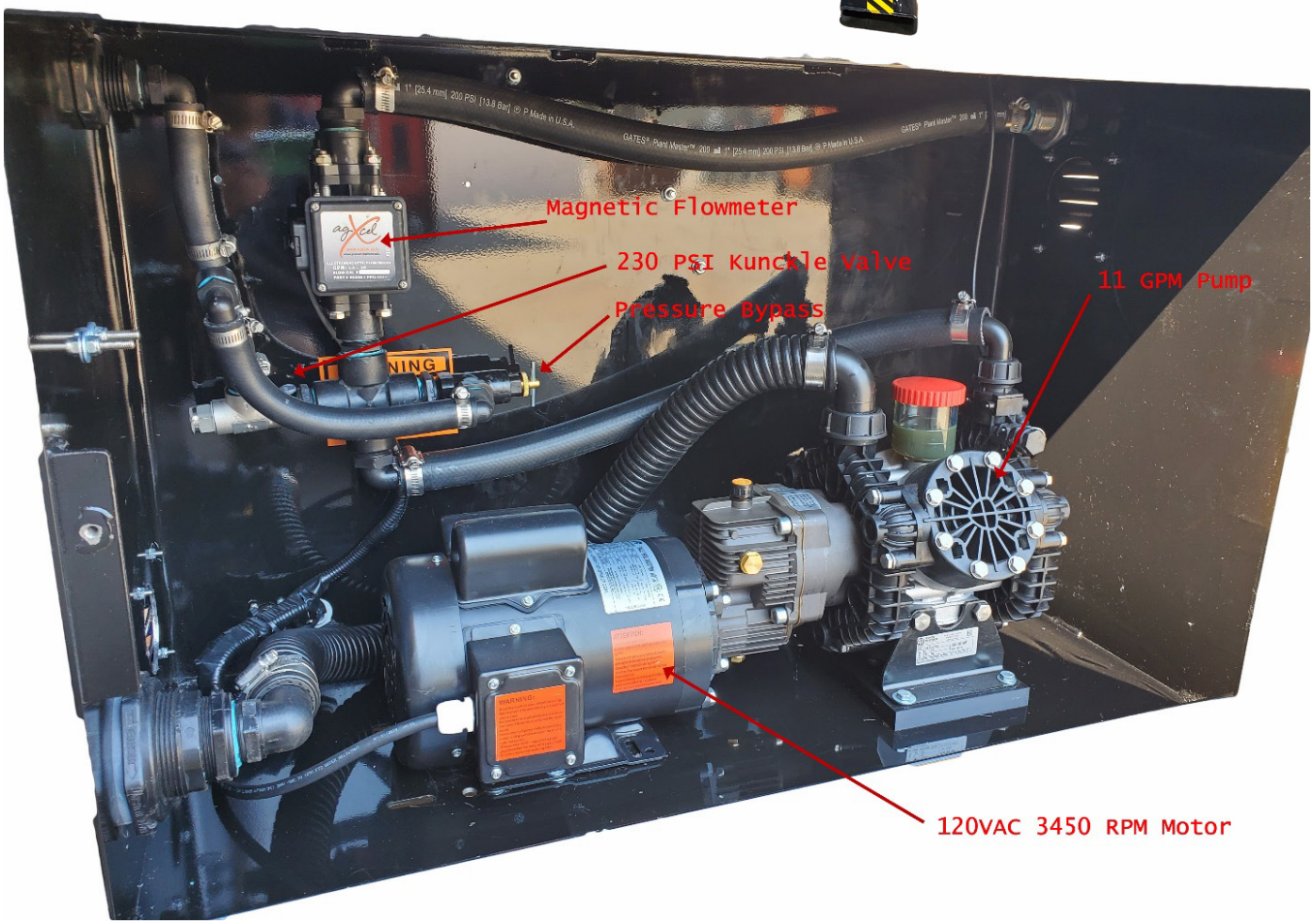
GX50 N-FUSE BREAKDOWN



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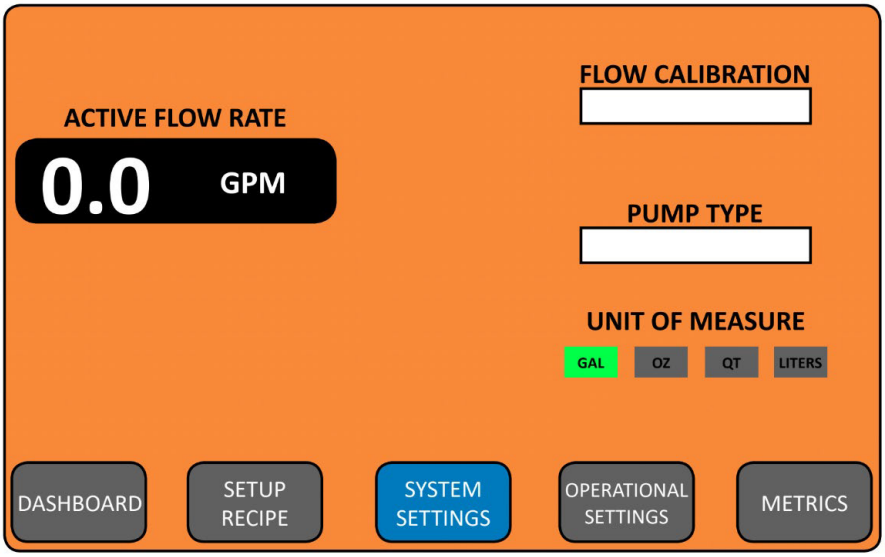
SYSTEM SETUP

This section will assist you in setting up your GX50 N-Fuse. The unit needs to be placed on a level surface. Doing so will ensure proper functionality of the pump and motor system.

The GX50 unit uses an industrial 5-20P Nema Straight Blade Plug. This will be able to used a 125v 20amp non GFI outlet. The unit has a industrial grade GFI built into the cord. Once power is provided to the system the screen should power up and display the GX50 operating interface. (Note – if system does not power up when plugged in, locate emergency shut off switch at the bottom of the electrical box on the unit. Turn opposite way and power will be restored to main display.)

Program Setup – From the PUMP STATUS starting screen. Press the SYSTEM SETTINGS menu button at bottom of display.



Flow Calibration – This calibration number should be preset in the system. If no number resides in this box, enter in the calibration number that is associated with the flowmeter inside the lower part of the unit.

Pump Type – this is based off of the GPM the pump is rated for.

Unit of Measure – You can set the counters to read Gallons, Ounces, Quarts, and Liters. Pressing each button will automatically calibrate it to the unit of measure you select. This can also be done while system is running.

Active Flow Rate – Here is where the system will display speed of pump.

FLOW RANGE (GPM)	PULSES PER GALLON
0.8 - 1.6	37850
0.13 - 2.6	22710
0.3 - 5	11355
0.6 - 13	4542
1.3 - 26	2271
2.6 - 53	1135

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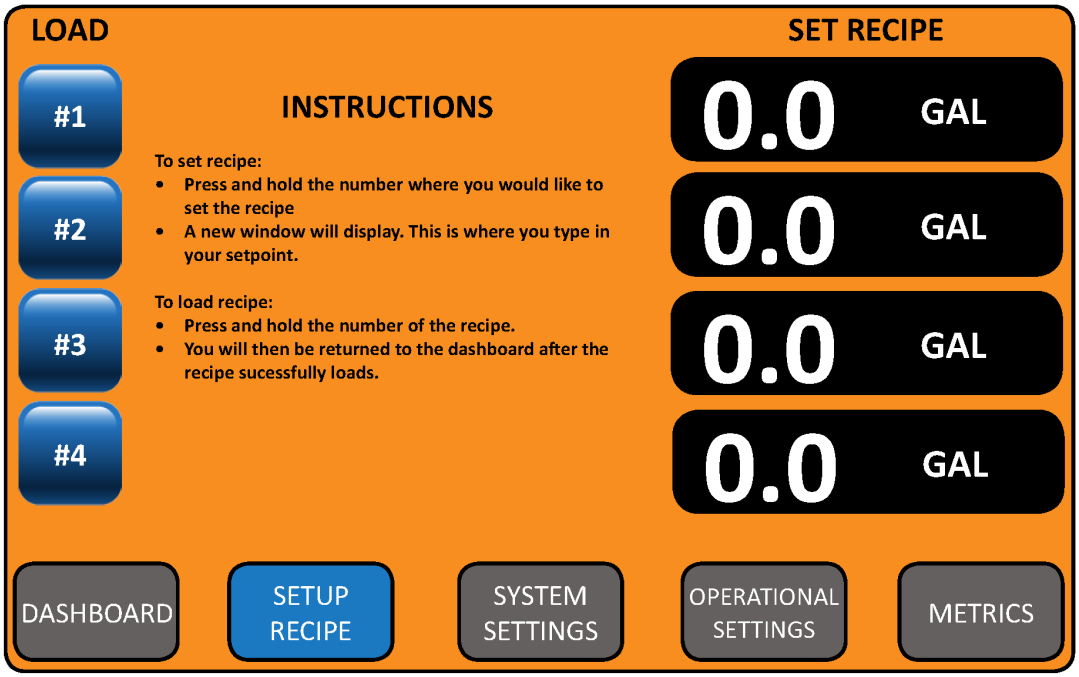
RECIPE SETUP

Setup Recipe – Navigate to this menu. Here you will be able to program each mechanical button on the main display box.



To create a recipe:

Press the blue numbered button you want to program. #1 - #4 will correspond to each of the mechanical buttons on the front panel.

Press once to select the desired recipe. Press again to display a calculator style screen.

Using the keypad enter in the desired amount of product for the recipe you want dispensed. Decimals can be entered as well.

Once you have programmed each recipe your mechanical buttons on the display panel can activate.

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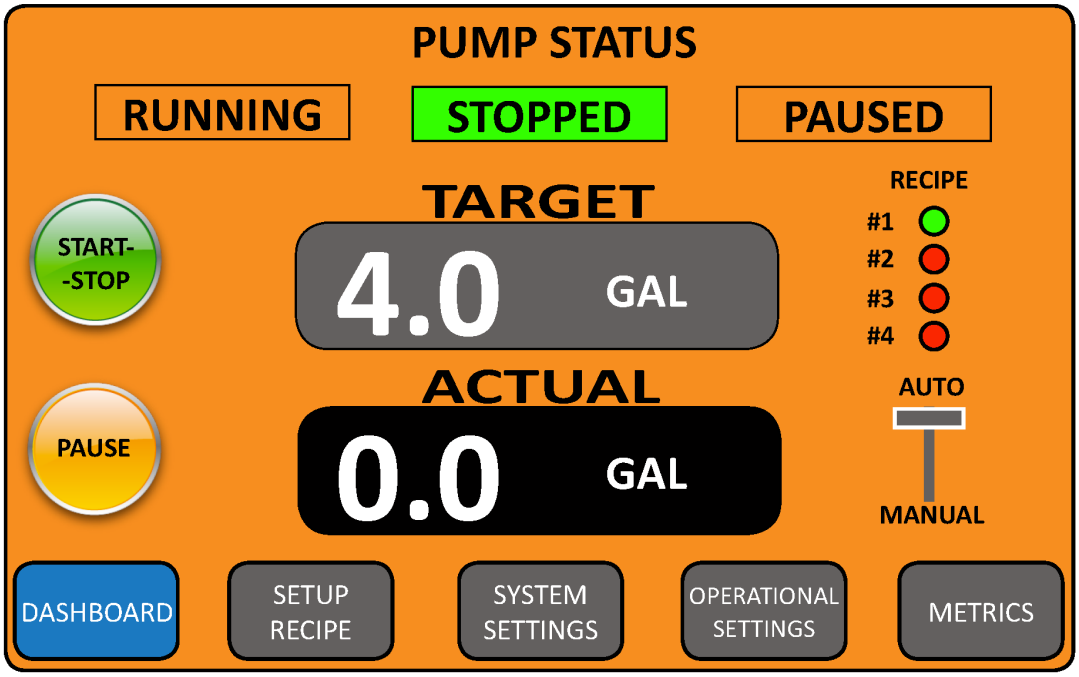
RUNNING A BATCH

Once System has been setup and Recipes have been programmed. Navigate back to the Dashboard.



Dashboard – This screen is your home screen. It shows the active status of the system.

Running – When highlighted means the pump is running and dispatching product into anhydrous tank.

Stopped – When highlighted means the pump is stopped and recipe can be selected.

Paused – When highlighted means system is in hold mode. Pressing the start button will resume the batch. Also pressing the pause button on the display will resume.

Target – This will show you the amount in the current selected recipe.

Actual – This displays the current amount of product that has been dispensed.

Auto/Manual – This slider while in Auto will allow you to use the recipe buttons to auto stop when a batch is complete. When manual is selected, recipe buttons are disabled and system can be ran manually with the green start button and red stop button located on main panel.

Recipe – A green highlighted circle will appear by the currently selected recipe. Once your recipe is selected you can press the Green start button on the touch screen to start your injection. Another option is to press and hold (for 3 seconds) down 1 of the 4 mechanical buttons on the enclosure. Once system starts, let go of the mechanical button.

If at anytime you want to pause the system during an injection, you can press the Pause button on the screen, or the green mechanical start button on the enclosure. If you want to clear the injection recipe and not resume, you would press the red stop button on the enclosure. This will allow you to select a new recipe.