

Formula 1

Multi-Ingredient, Single Formula Dispenser



In some applications, the dispenser only needs to repeat the same formula continuously. While this type of dispenser can have many ingredients, a single formula usually requires no more than 10 ingredients. A common applications for this type of dispenser are Toll Blending and Chemical Batch Production. Our **Formula 1** dispenser can handle up to 10 ingredients and comes with a simple to use Operator Control panel.

Tel: 888-488-8555
Fax: 419-843-1420
www.genericfluidsystems.com

 **GENERIC
FLUID SYSTEMS**

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The Standard of *Accurate Speed*

There are accurate dispensers and some large volume fast dispensers, but speed usually comes at compromising accuracy. The Formula 1, on the other hand, competes with all other equipment in terms of speed, but few can even come close to challenging Formula 1 accuracy.

Blend On Demand

The Formula 1 can save you time and money by dispensing the formula needed, quickly and accurately on a just in time basis.



Any Materials

Whether your blend components are aggressive solvents, aqueous solutions, highly viscous materials or any other challenging media...the Formula 1 can handle them.

Any Size Batch

If you need a few ounces in a small container or 50 gallons in a drum, or 300 gallons in a tote....no problem for the Volumetric.

Multi-Mode Dispense Capabilities

The Formula 1 can run batches in *Volumetric* simultaneous dispense (all ingredients dispensed at the same time), *Gravimetric* mode (ingredients dispensed one at a time), in *Priority* mode (depending on a material's "priority" setting, it will begin dispensing when its' turn in the batch comes). The Formula 1 also can *Ratio* up to 10 ingredients simultaneously.



Industrial Strength

We provide systems for industry which dispense formulas and liquids into various size containers for distribution. This is not Retail or Point-of-Sale equipment; these are robust, reliable, fast and accurate dispensers for industrial uses. Whether your process uses solvent based or aqueous solutions, or a wide range of viscosities, our equipment can handle it.

Clean

All structural and surface materials are stainless steel. The wing tops are perimeter welded, leak proof stainless steel designed for easy clean up of spills and the prevention of cross contamination of materials..

Recirculation and Agitation

Automated, configurable fluids recirculation keep materials "fresh" and prevent solids from settling. Optional mechanical agitation is available for supplied canisters.

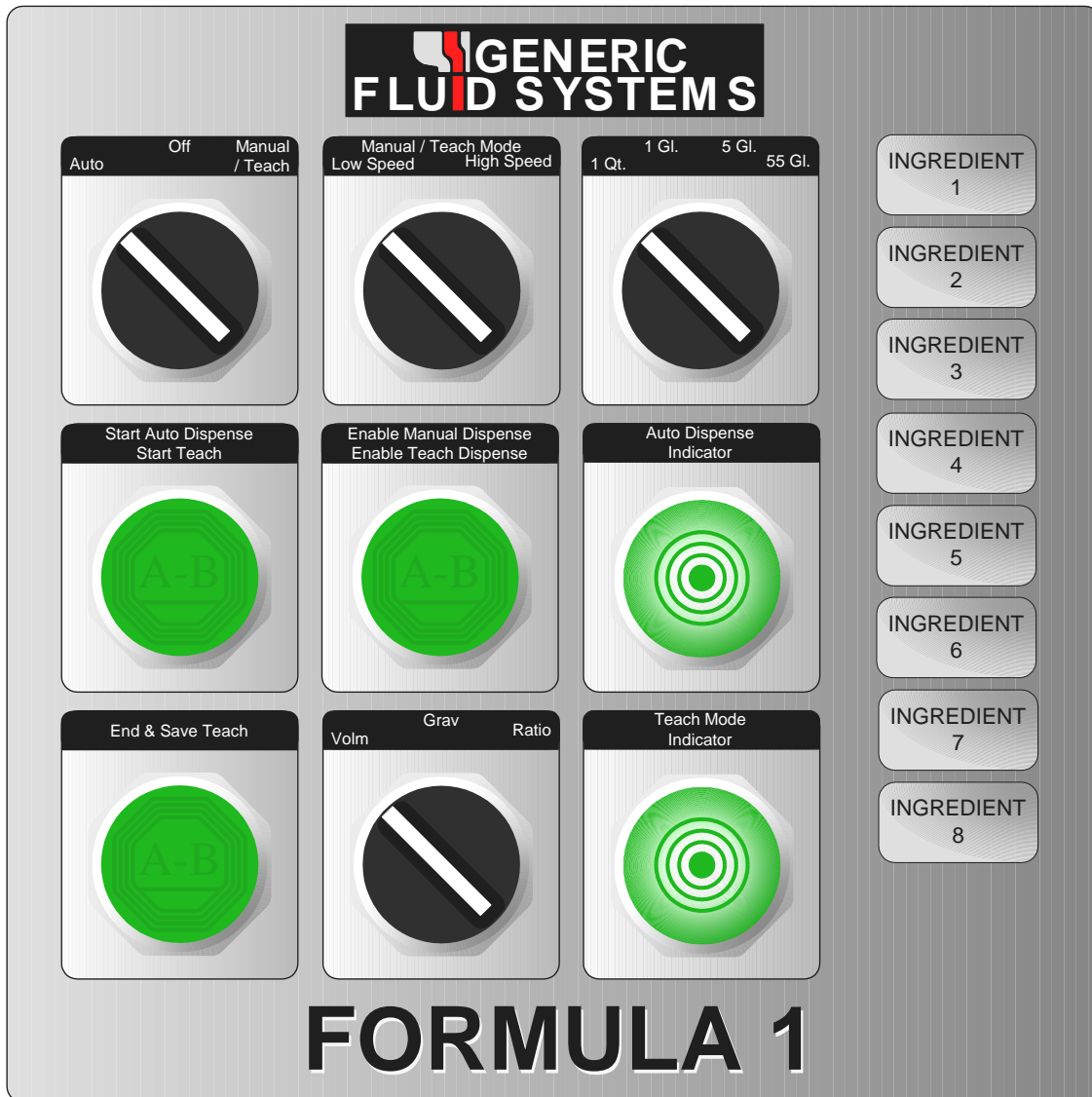
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Ease of Use and Maintenance

The Formula 1 does not require a PC. A simple Operator Panel controls all Manual and Automatic functions of the dispenser. Reliable industrial electronics, with no worry of computer support, upgrades or hard drive crashes.



Operator Panel (8 Ingredient Dispenser)

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6 Ingredient Formula 1

Minimum Floor Space

Considering the large volume and speed the Formula can dispense, its' 200 square feet minimum floor space (for a typical 8 circuit unit), makes the greatest use of your floor space compared to competitors' machines.

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Specifications

Dispense Size Range.....5 Switch selectable container sizes
Dispense Speed: 1 gallon (typical formula).....20 seconds
Dispense repeatable minimum shot size.....1/10 gram

Fluid Requirements

Viscosity Range for supply materials.....0 cp - 7,000 cp
Materials supported.....solvent borne or aqueous

Machine Design Specs

Supply of materials (internal).....3 or 6 gallon canisters
Supply of materials (external).....unlimited via Remote Bulk Supply
Fluid Circuit capacity.....1 to 60 circuits (can be configured with 128)
Operating Environment.....from unclassified up to Class 1/Division 1
Machine composition materials.....Stainless Steel
Footprint (8 circuit machine).....approximately 200 sq ft
Weight (8 circuit machine empty).....approximately 1850 lb

Utility Specs

Electric480 - 560 V 3phase
Pneumatic.....120 psi @ 2 cfm



Pump Train Assembly



Optional Canister Wings (covers removed)

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Standard Features

- PLC based industrial controls platform. Robust and reliable.
- Hardwired Operator Control Panel.
- All Stainless Steel Construction. No PC needed.
- All covers can be removed without tools, SS appliance style sheet metal cover panels.
- Integrated laboratory grade certified scale.
- Machine was designed with easy access and plenty of room for maintenance.
- Dispense head opening can accommodate cans as small as 1 quart.
- Proprietary high speed, bubble-tight dispense valves.
- Class 1/Division 1. No purged components.

Options

- Bulk or remote feed systems direct to Formula 1
- Canister wing assemblies containing 3 or 6 gallon ingredient storage.
- Active Mixer assembly with cip nozzle (for Ratio Dispense Method).
- Integrated secondary Floor Scale for certification of drum based dispenses.
- Conveyors, Shuttles can shakers.
- Optional Data logging to external Dispense Database.
- Dispense label printer
- Service Contracts.
- Robotic based handling systems.

Applications

- Chemical Blending and custom formulation.
- Toll Blending.
- Paint Tinting.
- Ink Formulation and Tinting.
- Textile Dyes manufacturing or tinting.
- Adhesive manufacturing.
- Wood stains and varnishes.
- Beverage Blending or composition.
- Chemical Blending and custom formulation.
- Liquid Vitamins and Food products.



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Formula 1 Build Template



Brief Description of Application

Number of Ingredients

These are the number of ingredients you wish to automatically dispense with the Formula 1. Very low runner ingredients or dry powders can be left off the dispenser machine and added by hand, when they are called for in a formula. The Formula 1 supports the concept of "hand adds".

Ingredient Material Type (check appropriate)

- Solvent Based
- Aqueous (water based)
- Both

Feedstock Supply Selection

Based on the total Number of Ingredients in the above section, determine your Feedstock supply options. It is best to select supply methods to the Volumetrix based on how you currently stock the ingredients, whether it be cans, pail, drums, totes or mother tanks.

3 or 6 gallon SS Canisters. Supplied in canister wings with Formula 1. Preferred for materials supplied to you in cans or pails.

Direct feed (gravity) from customer supplied Drums.

Direct feed (gravity) from customer supplied day Tanks or totes.

Bulk Taps. When material is pumped to the Formula 1 from remote Mother tanks.

Other Options (check appropriate)

- Second Dispense Scale (1000 lb capacity for drums)
- Integrated Dispense Label printer
- Active Mixer Adapter with CIP nozzle. Used for Ratio dispense method.
- Integrated Dispense Label printer
- Quarterly Service Contract (North America)
- Quarterly Service Contract (International)
- Semi-Annual Service Contract (North America)
- Semi-Annual Service Contract (International)
- Auto Feed conveyors (Cans, Pails) to Formula 1
- Optional Dispense data logging.
- Recommended spare parts kit.

Canister Agitators

If recirculation of Ingredient is not sufficient to keep it blended, optional mechanical agitators may be added to the canister. This option is for 3 or 6 gallon SS canisters.

Production Batch Sizes

Enter the Size And Approximate Number of Container Batches produced daily for production.

Pints	Quarts	1 Gal. Cans	5 Gal. Pails	20 Gal. Kegs	55 Gal. Drums	300 Gal. Totes	1000 Gal. Totes
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

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Pricing Guide

The pricing table below will give you an idea of the Price Range for a Formula 1 System. These are budget estimates only, and a firm quotation cannot be rendered without an engineering site visit to determine exact specifications and options needed for a complete Formula 1 System. The table contains 2 variables: Size and Environment.

Size

Refers to the number of ingredients you wish to load into the Formula 1, the table provides for 3 common size selections; 4, 8, and 10 Ingredients. It should be noted however that any size of ingredients can be specified, for example 3, 7, etc...

Environment

Refers to NEC Classification for the environment where the Formula 1 will be installed. Typically solvent based ingredients will require NEC Class 1/Division 1 (explosive environment) or NEC Class 1/Division 2 (flammable environment). Aqueous (water based) ingredients will typically be in an unclassified or non-hazardous area.

Typical Formula 1 Price Ranges (Dollars USD)		
Formula 1 Size	Non-Hazardous Enviromet	Hazardous Enviromet
4 Ingredients	\$54,000 - \$62,000	\$73,000 - \$85,000
8 Ingredients	\$63,000 - \$76,000	\$89,000 - \$101,000
10 Ingredients	\$72,000 - \$87,000	\$105,000 - \$118,000

Contact

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