



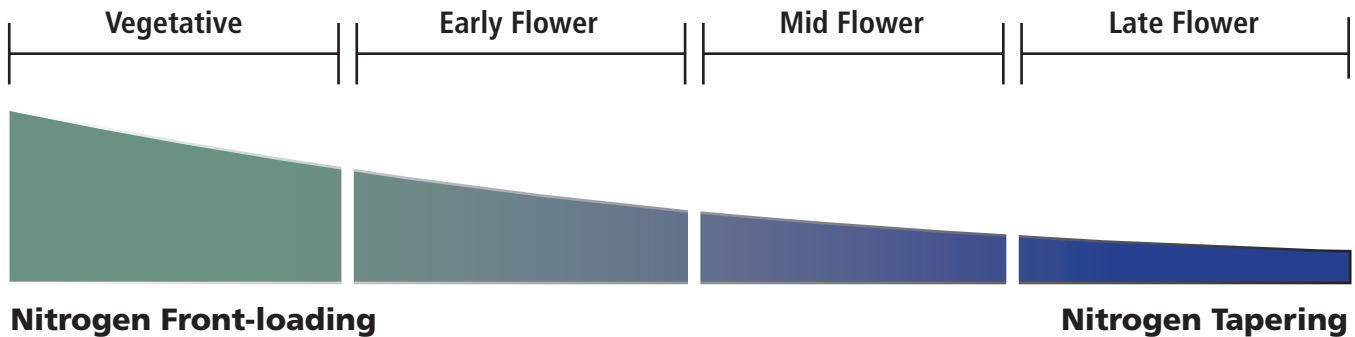
PLANT FIRST. COMMERCIAL READY.

LIQUID PROGRAM

By:  **GENERAL
HYDROPONICS®**

SYSTEM ARCHITECTURE: MODE OF ACTION

The Natural Senescence Signal: The FloraPro Family of Fertilizers leverage a precision Nitrogen-tapering signal to amplify senescence and color change. By restricting Nitrogen rather than abruptly eliminating it, this system maintains the delivery of essential elements throughout the finish. This allows for a natural genetic expression without flooding the rootzone with Chloride or forcing a premature finish.



Fortified Foundation (Grow & Bloom A/B): The FloraPro Liquid is comprised of a 2-part base system fortified with multiple sources of Calcium. By utilizing multi-source calcium—including a Nitrogen-free source—the base nutrients achieve a high Ca:N ratio from day one. This provides optimum feed control throughout the program without the need for a standalone Calcium supplement.

PK+ Bulking & Ripening: A zero-Nitrogen tool used to bulk and ripen. Shifting rates from the Bloom A/B to PK+ allows for the tapering of Nitrogen delivery while keeping P, K, and S in the target range for critical flower development and late-stage ripening..

FUL+ Expression: A proprietary supplement providing the nutrients necessary to help increase plant resin production and aid in final yield and finish quality.

TrueFlo® Irrigation Line Cleaner: Integrated into the daily feed to mitigate buildup. Because FUL+ is a complex, proprietary formulation, TrueFlo™ is a recommended system component to ensure operational reliability and clean-running standards at scale.



THE LIQUID ADVANTAGES

Operational Velocity:

Eliminate powder preparation with a plug and play liquid concentrate.

Batch Precision:

Liquid concentrates provide consistent EC and predictable pH ranges across each batch.

Fertigation Ready:

Plug and Play into any injection system.

Commercial cultivation demands a balance between scale, expertise, and biological performance. FloraPro® Liquid was engineered to deliver operational speed, efficiency, and nutritional delivery. By establishing a calcium-fortified base nutrient and leveraging precision nitrogen-tapering, this system provides the repeatable consistency required for facilities to perform at a high level.

More than a nutrient program; this is a technical framework designed to simplify operations while supporting the plant's full genetic potential. By optimizing the Ca:N ratio and providing an operational pathway for FUL+ to aid in resin production and terpene expression, FloraPro® Liquid ensures that your brand's quality is never sacrificed for production at scale.



PRODUCT LINEUP & TECHNICAL ANALYSIS

Grow A (4-0-1) & Grow B (1-2-4):

This duo provides the foundation for crop steering. It delivers the balanced nutrition and structural integrity required for the vegetative phase.

Bloom A (3-0-1) & Bloom B (1-5-5):

Optimized for heavy-feeding varieties, this pairing focuses plant energy on flower size and resin precursors. It maintains a fortified calcium architecture to support peak development during the plant's most demanding stage.

PK+ (0-4-6):

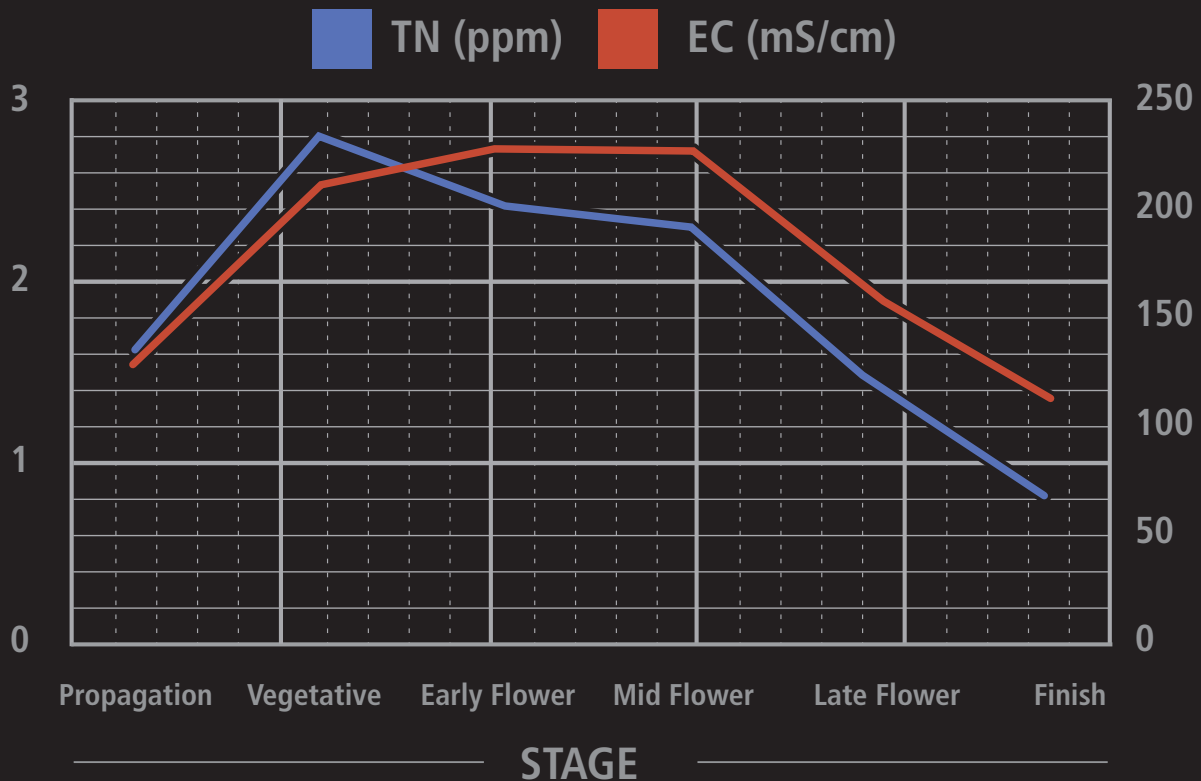
This zero-nitrogen mineral boost helps to signal natural senescence and color shift, allowing the plant to redirect its energy to final flower swelling and ripening.

FUL+ (0.6-3-2):

A proprietary supplement providing the nutrients necessary to help increase plant resin production and aid in final yield and finish quality.

TECHNICAL OVERVIEW

FLORAPRO® LIQUID FEED PROGRAM EC DELIVERY



N

Nitrogen Front-Loading:

We front-load Nitrogen to support rapid vegetative growth and establish the structural integrity needed for the generative transition. This peak ensures the plant has the physical framework and momentum to support heavy floral sets through the finish.



The PK+ Effect:

This delta is created by the shift from Base A/B towards PK+ and FUL+. Enabling the program to maintain high mineral density that supports flower weight and resin production, while the reduction in Nitrogen triggers the "Natural Senescence Signal" (color change and ripening).



The Generative Shift:

Between Early Flower and Mid Flower, you can see the beginnings of Nitrogen Restriction in action. The TN drops at a higher rate than EC.



The Finish:

At the Finish stage, Nitrogen is at its lowest, allowing the plant to fully mobilize its internal reserves, bringing out the final genetic potential of the cultivar.

THE VEG PROGRAM: LIQUID FEED PROGRAM | VEGETATIVE LAYOUT



Efficient Nitrogen Delivery:
Combined with FUL+, the Grow A/B base allows for precision nutrient delivery across the vegetative phase, enabling nutrition for structural integrity during periods of rapid growth and preparation for the generative transition.

TrueFlo™: Integrated into the daily feed to automate line maintenance and mitigate the potential for buildup, allowing operators to focus on the canopy rather than the plumbing.

Configurations are recommendations and to be used as reference for dosing FloraPro.

TO DECREASE FEED STRENGTH:
Proportionally scale all FloraPro components downward by 10–15%. Monitor plant response before further adjustments.

TO INCREASE FEED STRENGTH IN VEG:
Proportionally scale all FloraPro components upward by 10–15%. Monitor plant response before further adjustments.

	FLORAPRO® LIQUID Feed rates in mL/gal	Propagation	Vegetative
← Mixing Order	FloraPro® Grow A	7	12
	FloraPro® Grow B	7	12
	FloraPro® Bloom A	—	—
	FloraPro® Bloom B	—	—
	FloraPro® PK+	—	—
	FloraPro® FUL+	—	2
	TrueFlo	3	5
	Nitrogen (ppm)	130	230
	Target pH	5.5 - 5.8	5.6 - 6.1
	EC (mS/cm)	1.4 - 1.6	2.4 - 2.6

Tip: When topping off existing nutrient solutions in a batch tank or when nutrient solutions sit for 24 hours or more, increase TrueFlo rate range to 6-9 mL/gal.

Tip: TrueFlo is most effective when applied to a solution between a pH range of 4 to 6.

— Coco & Rockwool

THE FLOWER PROGRAM: LIQUID FEED PROGRAM | FLOWER LAYOUT



PK+: A zero-nitrogen tool used to bulk and ripen. Shifting rates from the base to PK+ allows you to remove Nitrogen delivery while keeping P, K, and S in the target range for critical flower formation and bulking.

FUL+: Intended to help aid in resin, flavonoid, and terpene biosynthesis. By working in tandem with our fortified base, FUL+ supports the plant's ability to express its genetic potential.

TrueFlo™: Maintains cleanliness in plumbing and batch tanks, ensuring operational reliability through flowering and finish.

Configurations are recommendations and to be used as reference for dosing FloraPro.

TO DECREASE FEED STRENGTH:
Proportionally scale all FloraPro components downward by 10–15%. Monitor plant response before further adjustments.

TO INCREASE FEED STRENGTH IN FLOWER:
Incrementally adjust the FloraPro PK+ rate by 10–15%. This targeted approach prevents over-delivering nitrogen. Monitor plant response before further adjustments.

	FLORAPRO® LIQUID Feed rates in mL/gal	Early Flower	Mid Flower	Late Flower	Finish
← Mixing Order	FloraPro® Grow A	—	—	—	—
	FloraPro® Grow B	—	—	—	—
	FloraPro® Bloom A	14	13	8	4
	FloraPro® Bloom B	14	13	8	4
	FloraPro® PK+	2	4	5	7
	FloraPro® FUL+	2	4	4	4
	TrueFlo	5	5	5	5 - 9
	Nitrogen (ppm)	200	190	120	65
	Target pH	5.7 - 6.2			
	EC (mS/cm)	2.6 - 2.8	2.5 - 2.7	1.8 - 2.0	1.2 - 1.4

Tip: When topping off existing nutrient solutions in a batch tank or when nutrient solutions sit for 24 hours or more, increase TrueFlo rate range to 6-9 mL/gal.

Tip: TrueFlo is most effective when applied to a solution between a pH range of 4 to 6.

— Coco & Rockwool

LIQUID FEED PROGRAM

FLORAPRO® LIQUID Feed rates in mL/gal	Propagation	Vegetative	Early Flower	Mid Flower	Late Flower	Finish
FloraPro® Grow A	7	12	–	–	–	–
FloraPro® Grow B	7	12	–	–	–	–
FloraPro® Bloom A	–	–	14	13	8	4
FloraPro® Bloom B	–	–	14	13	8	4
FloraPro® PK+	–	–	2	4	5	7
FloraPro® FUL+	–	2	2	4	4	4
TrueFlo	3	5	5	5	5	5 - 9
Nitrogen (ppm)	130	230	200	190	120	65
Target pH	5.5 - 5.8	5.6 - 6.1	5.7 - 6.2			
EC (mS/cm)	1.4 - 1.6	2.4 - 2.6	2.6 - 2.8	2.5 - 2.7	1.8 - 2.0	1.2 - 1.4

Using a mixing chamber is recommended between the injection of each input.

Coco & Rockwool

FLORAPRO® LIQUID Feed rates in mL/gal	Propagation	Vegetative			Early Flower			Mid Flower			Late Flower		Finish
	Wk 1	Wk 1	Wk 2	Wk 3	Wk 1	Wk 2	*Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9
FloraPro® Grow A	7.0	12	12	12	–	–	–	–	–	–	–	–	–
FloraPro® Grow B	7.0	12	12	12	–	–	–	–	–	–	–	–	–
FloraPro® Bloom A	–	–	–	–	14	14	14	13	13	13	8	8	4
FloraPro® Bloom B	–	–	–	–	14	14	14	13	13	13	8	8	4
FloraPro® PK+	–	–	–	–	2	2	2	4	4	4	5	5	7
FloraPro® FUL+	–	2	2	2	2	2	2	4	4	4	4	4	4
TrueFlo	3	5	5	5	5	5	5	5	5	5	5	5	5 - 9
Nitrogen (ppm)	130	230	230	230	200	200	200	190	190	190	120	120	65
Target pH	5.5 - 5.8	5.6 - 6.1			5.7 - 6.2								
EC (mS/cm)	1.4 - 1.6	2.4 - 2.6			2.6 - 2.8			2.5 - 2.7			1.8 - 2.0		1.2 - 1.4

*For an 8-week flowering schedule, reduce the 'Early Flower' phase by one week.

DOSATRON INTEGRATION

Configurations are recommendations and to be used as reference for dosing FloraPro.

Tag	Qty	Part Number	Description
A	1	HYKSTART-STD	Lo-Flo 3/4" Standard Starter Kit
*B	4	D14MZ3000VFBPHY D14MZ3000AFBPHY	14 GPM Dosing Pump 1.25 – 11 mL
C	5	HYKMC34	Lo-Flo 3/4" Mixing Chamber Kit
D	2	D14MZ1000BPVFHY	14 GPM Dosing Pump 3.75 – 37.5 mL
E	1	HYKMON	Lo-Flo 3/4" Monitor Kit
F	1	WHA34-SS-KIT	Water Hammer Arrestor Kit

GENERAL HYDROPONICS

If you have questions or are looking for alternative options please contact Sales@GeneralHydroponics.com or Dosatron support at 1-800-523-8499

***SEAL OPTIONS**

Viton Seals (VF) For products with neutral to acidic pH.
(pH Down, PK+, FUL+ & TrueFlo)

Aflas Seals (AF) For products with a higher than neutral to alkaline pH. (Silicates & pH Up)

Configurations: Available design specifications for both Dosatron Lo-Flo and Hi-Flo systems and FloraPro Liquid.

FAQs:

WHAT IS THE SHELF LIFE?

Product is good indefinitely if stored in a cool, dry, location, avoiding exposure to extreme temperatures or sunlight. General Hydroponics guarantees nutrient products for a full one year from the date of purchase.

IS THERE A SPECIFIC ORDER THAT THE DIFFERENT PARTS MUST BE MIXED IN?

Yes, follow the mixing order referenced on the feed program. Part A must always be introduced before Part B and Supplements.

WHAT ARE THE MULTIPLE SOURCES OF CALCIUM?

FloraPro Grow A and Bloom A formulas utilize varying ratios of Calcium Nitrate and Calcium Glucoheptonate in order to achieve targeted Calcium to Nitrogen ratios.

WHAT IS FUL+ PROVIDING IN VEG?

FUL+ is working hard for your plants in every growth stage, setting the stage for increased plant resin production and aid in final yield and finish quality.

ARE THESE PRODUCTS SOLUBILIZED VERSIONS OF THE FLORAPRO POWDERS?

No. While FloraPro® Liquid shares the same commercial-grade backbone as our Powder lineup, it is a completely distinct formulation.

The Liquid system was engineered from the ground up to utilize multiple Calcium sources—including a completely Nitrogen-free source—allowing you to achieve a high Ca:N ratio to drive the crop steering strategy. It is a framework built specifically to eliminate powder preparation and provide users and dosing systems with effortless, batch-to-batch consistency.

ARE FLORAPRO LIQUID AVAILABLE IN SIZES SMALLER THAN 6 GALLONS?

No, this system was designed specifically for commercial use and not available in sizes below 6 gallon. Explore other options from General Hydroponics wide selection of base nutrients and supplements on Generalhydroponics.com

HOW DO I MAKE ADJUSTMENTS TO THE EC WITHOUT NEGATIVELY AFFECTING CERTAIN ELEMENTAL RATIOS?

To decrease feed strength: Proportionally scale all FloraPro components downward by 10–15%. Monitor plant response before further adjustments.

To increase feed strength in Veg: Proportionally scale all FloraPro components upward by 10–15%. Monitor plant response before further adjustments.

To increase feed strength in Flower: Incrementally adjust the FloraPro PK+ rate by 10–15%. This targeted approach prevents over-delivering nitrogen. Monitor plant response before further adjustments.

GROWER RESOURCES



- Technical Support & Resources
- Feed Program - In English, Spanish, French, Armenian, Mandarin, Vietnamese and Hmong.
- Dosatron Configurations

Our technical team is available for facility-specific consultations to ensure your transition to FloraPro® Liquid is seamless.



LIQUID



For more details,
email sales@genhydro.com, visit: GeneralHydroponics.com
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