

GENERAL HYDROPONICS®

FLORANOVA® All amounts per 3.79 Liters (1 US Gallon)

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Drain to Waste Nutrient Solution Tips:

- Keep nutrient solution temperature below 75° F (24° C).
- Allow 5% - 25% runoff during each irrigation.
- Consider fresh water irrigation after 1 - 3 nutrient applications.
- To flush apply fresh water irrigation after three nutrient applications to flush excess mineral accumulation.
- Keep nutrient solution aerated.
- For best results maintain nutrient solution pH between 5.5 - 6.5.

Troubleshooting factors to consider:

- Arid, bright, hot environments cause plants to drink more than if they are grown where it's humid, dim, and cool. Thus gardeners should use less concentrated nutrient solutions when growing conditions are more intense in order to lessen the risk of overfeeding.
- The pH (acidity or alkalinity) of a nutrient solution affects the availability of the elements contained within. Use GH pH adjusters to maintain nutrient pH between 5.5 - 6.5.

Drain To Waste Program

		WEEK # GROWTH STAGE: PPM RANGE:	GROWTH (18h photoperiod)				BLOOM (12h photoperiod)								
			1 Seedling 200-300	2 Early Growth 450-600	3 Late Growth 600-900	4 Transition 600-800	5 Early Bloom 500-700	6 Early Bloom 600-850	7 Mid Bloom 600-800	8 Mid Bloom 600-800	9 Mid Bloom 700-900	10 Late Bloom 550-700	11 Ripen 300-550	12 Flush 0-50	
simple program	expert program	Base Nutrient	FloraNova Grow	1.5ml	3ml	5ml	2.5ml	~	~	~	~	~	~	~	~
			FloraNova Bloom	~	~	~	2.5ml	5ml	5ml	5ml	5ml	5ml	5ml	3ml	~
		Roots	RapidStart	~	2.5ml	2.5ml	1ml	1ml	1ml	1ml	1ml	1ml	~	~	~
		Weight	Liquid KoolBloom	~	~	~	~	1ml	2ml	2ml	2ml	2.5ml	2.5ml	~	~
		Aroma	Floralicious Plus	~	1ml	1ml	1ml	1ml	1ml	1ml	1ml	1ml	1ml	1ml	~
		Flush	FloraKleen	~	~	~	~	~	~	~	~	~	~	~	10ml
		Defense	Armor Si	~	0.5ml	1ml	1.5ml	1.5ml	1.5ml	1.5ml	1.5ml	1ml	0.5ml	~	~
		Weight	Diamond Nectar	2.5ml	5ml	5ml	2.5ml	2.5ml	2.5ml	2.5ml	2.5ml	~	~	~	~
		Vigor	CALiMAGic	~	1.5ml	2.5ml	2.5ml	2.5ml	2.5ml	2.5ml	2.5ml	2.5ml	1.5ml	~	~
		Aroma	FloraBlend	5ml	5ml	5ml	2.5ml	2.5ml	2.5ml	~	~	~	~	~	~
		Flavor	FloraNectar	~	~	~	2.5ml	2.5ml	2.5ml	5ml	5ml	5ml	5ml	5ml	~
		Ripening	Dry KoolBloom	~	~	~	~	~	~	~	~	~	~	0.25tsp	~

Which comes first, Armor Si or CALiMAGic?

- When using both **Armor Si** and **CALiMAGic**, add **Armor Si** to the reservoir **first**.
- When using **Armor Si** and/or **CALiMAGic**, with **Flora Series**, these products should be added **prior to adding FloraMicro**.

CREATE YOUR OWN FEEDCHART

Personalized Program

		WEEK # GROWTH STAGE:	GROWTH (18h photoperiod)				BLOOM (12h photoperiod)								
			1 Seedling	2 Early Growth	3 Late Growth	4 Transition	5 Early Bloom	6 Early Bloom	7 Mid Bloom	8 Mid Bloom	9 Mid Bloom	10 Late Bloom	11 Ripen	12 Flush	
simple program	expert program	Base Nutrient	FloraNova Grow												
			FloraNova Bloom												
		Roots	RapidStart												
		Weight	Liquid KoolBloom												
		Aroma	Floralicious Plus												
		Flush	FloraKleen												
		Defense	Armor Si												
		Weight	Diamond Nectar												
		Vigor	CALiMAGic												
		Aroma	FloraBlend												
		Flavor	FloraNectar												
		Ripening	Dry KoolBloom												

Useful Conversions

1 TSP	=	5 ml
1 TBSP	=	15 ml
1 oz	=	30 ml
1 Qt	=	946 ml
1 Gal	=	3.785 L
1 Gal	=	128 oz

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Recirculating Nutrient Solution Tips:

- Keep nutrient solution temperature below 75° F (24° C).
- Change nutrient solution every 7-10 days and top off with fresh water between nutrient changes.
- Keep nutrient solution aerated.
- For best results maintain nutrient solution pH between 5.5-6.5.

Troubleshooting factors to consider:

- Arid, bright, hot environments cause plants to drink more than if they are grown where it's humid, dim, and cool. Thus gardeners should use less concentrated nutrient solutions when growing conditions are more intense in order to lessen the risk of overfeeding.
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Recirculating Program

		WEEK # GROWTH STAGE: PPM RANGE:	GROWTH (18h photoperiod)					BLOOM (12h photoperiod)						
			1 Seedling 400-600	2 Early Growth 900-1200	3 Late Growth 1300-1650	4 Transition 1000-1300	5 Early Bloom 1000-1600	6 Early Bloom 1100-1650	7 Mid Bloom 1100-1550	8 Mid Bloom 850-1400	9 Mid Bloom 900-1300	10 Late Bloom 650-900	11 Ripen 150-400	12 Flush 0-50
simple program	expert program	Base Nutrient	FloraNova Grow	2.5ml	5ml	7.5ml	4ml	~	~	~	~	~	~	~
			FloraNova Bloom	~	~	~	4ml	7.5ml	7.5ml	7.5ml	7.5ml	7.5ml	5ml	~
		Roots	RapidStart	~	2.5ml	2.5ml	1ml	1ml	1ml	1ml	1ml	~	~	~
		Weight	Liquid KoolBloom	~	~	~	~	1ml	2.5ml	2.5ml	2.5ml	5ml	5ml	~
		Aroma	Floralicious Plus	~	1ml	1ml	1ml	1ml	1ml	1ml	1ml	1ml	1ml	~
		Flush	FloraKleen	~	~	~	~	~	~	~	~	~	~	10ml
		Defense	Armor Si	~	1.5ml	2ml	2.5ml	2.5ml	2.5ml	2.5ml	2.5ml	2ml	1.5ml	~
		Weight	Diamond Nectar	5ml	10ml	10ml	5ml	5ml	5ml	5ml	5ml	~	~	~
		Vigor	CALiMAGic	~	2.5ml	5ml	5ml	5ml	5ml	5ml	5ml	5ml	2.5ml	~
		Aroma	FloraBlend	10ml	10ml	10ml	5ml	5ml	5ml	~	~	~	~	~
		Flavor	FloraNectar	~	~	~	5ml	5ml	5ml	10ml	10ml	10ml	10ml	10ml
		Ripening	Dry KoolBloom	~	~	~	~	~	~	~	~	~	~	0.5tsp

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simple program	expert program	Base Nutrient	FloraNova Grow											
			FloraNova Bloom											
		Roots	RapidStart											
		Weight	Liquid KoolBloom											
		Aroma	Floralicious Plus											
		Flush	FloraKleen											
		Defense	Armor Si											
		Weight	Diamond Nectar											
		Vigor	CALiMAGic											
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