

GENERAL HYDROPONICS®

FLORANOVA®

Recirculating Program



All Amounts per 3.79 Liters (1 US Gallon)

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.
- 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.

| | | 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 | 7.5ml | 5ml | ~ |
| | | Roots | RapidStart | ~ | 2.5ml | 2.5ml | 1ml | 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 | 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 | ~ |

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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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 | ~ |

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| simple program | expert program | Base Nutrient | FloraNova Grow | | | | | | | | | | | | |
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| | | Roots | RapidStart | | | | | | | | | | | | |
| | | Weight | Liquid KoolBloom | | | | | | | | | | | | |
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| | | Aroma | FloraBlend | | | | | | | | | | | | |
| | | Flavor | FloraNectar | | | | | | | | | | | | |
| | | Ripening | Dry KoolBloom | | | | | | | | | | | | |

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