# FloraNova®
## Expert Recirculating

- Nutrient solution runoff drains to reservoir and is reused.
- Typically, "soil" gardens are NOT recirculating.

| | | | FloraNova Grow | FloraNova Bloom | RapidStart | Diamond Nectar | Liquid KoolBloom | Floralicious Plus † | FloraBlend | Flora Nectar | KoolBloom (dry) | FloraKleen |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | BASE NUTRIENT | | ROOTS | WEIGHT | | AROMA & SIZE | | FLAVOR | RIPENING \ FLUSH | |
| GROWTH PHASE 18 HOUR PHOTOPERIOD | WEEK 1 400 - 600 total ppm | Seedling | 2.5ml | ~ | 2.5ml | 5ml | ~ | 1ml | 10ml | ~ | ~ | ~ |
| | WEEK 2* 800 - 1000 total ppm | Early Growth | 5ml | ~ | 2.5ml | 10ml | ~ | 1ml | 10ml | ~ | ~ | ~ |
| | WEEK 3* 1100 - 1300 total ppm | Late Growth | 7.5ml | ~ | 2.5ml | 10ml | ~ | 1ml | 10ml | ~ | ~ | ~ |
| BLOOM PHASE 12 HOUR PHOTOPERIOD | WEEK 4 800 - 1000 total ppm | Transition | 2.5ml | 2.5ml | 1ml | 5ml | ~ | 1ml | 5ml | 5ml | ~ | ~ |
| | WEEK 5 1100 - 1300 total ppm | Early Bloom | ~ | 7.5ml | 1ml | 5ml | 2.5ml | 1ml | 5ml | 5ml | ~ | ~ |
| | WEEK 6** 1100 - 1300 total ppm | Early Bloom | ~ | 7.5ml | 1ml | 5ml | 2.5ml | 1ml | 5ml | 5ml | ~ | ~ |
| | WEEK 7** 1200 - 1300 total ppm | Mid Bloom | ~ | 7.5ml | ~ | 5ml | 2.5ml | 1ml | ~ | 10ml | ~ | ~ |
| | WEEK 8 1300 - 1300 total ppm | Mid Bloom | ~ | 7.5ml | ~ | 5ml | 2.5ml | 1ml | ~ | 10ml | ~ | ~ |
| | WEEK 9 1200 - 1400 total ppm | Late Bloom | ~ | 7.5ml | ~ | ~ | 5ml | 1ml | ~ | 10ml | ~ | ~ |
| | WEEK 10 1200 - 1400 total ppm | Late Bloom | ~ | 7.5ml | ~ | ~ | 5ml | 1ml | ~ | 10ml | ~ | ~ |
| | WEEK 11 1000 - 1200 total ppm | Ripen | ~ | 5ml | ~ | ~ | ~ | 1ml | ~ | 10ml | 0.5 tsp | ~ |
| | WEEK 12 0 - 200 total ppm | Flush | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ | 10ml |

*For additional weeks of growth, repeat week 2 or 3.
**For additional weeks of bloom, repeat week 6 or 7.

Do not premix nutrients, add to water only.

Monitor plants for signs of stress when feeding aggressive formulas

Amounts per 3.79 liters (1 US Gallon)

| 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 |

### 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.

**† For specific growth stages, Floralicious Grow or Bloom may be used in place of Floralicious Plus**

### 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.

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| | | | FloraNova Grow | FloraNova Bloom | RapidStart | Liquid KoolBloom | Floralicious Plus † | FloraKleen |
|---|---|---|---|---|---|---|---|---|
| | | | BASE NUTRIENT | | ROOTS | WEIGHT | AROMA | FLUSH |
| GROWTH PHASE 18 HOUR PHOTOPERIOD | WEEK 1 300 - 500 total ppm | Seedling | 2.5ml | ~ | 2.5ml | ~ | 1ml | ~ |
| | WEEK 2* 700 - 900 total ppm | Early Growth | 5ml | ~ | 2.5ml | ~ | 1ml | ~ |
| | WEEK 3* 1000 - 1200 total ppm | Late Growth | 7.5ml | ~ | 2.5ml | ~ | 1ml | ~ |
| BLOOM PHASE 12 HOUR PHOTOPERIOD | WEEK 4 1000 - 1200 total ppm | Transition | 4ml | 4ml | 1ml | ~ | 1ml | ~ |
| | WEEK 5 1000 - 1200 total ppm | Early Bloom | ~ | 7.5ml | 1ml | 2.5ml | 1ml | ~ |
| | WEEK 6** 1000 - 1200 total ppm | Early Bloom | ~ | 7.5ml | 1ml | 2.5ml | 1ml | ~ |
| | WEEK 7** 1000 - 1200 total ppm | Mid Bloom | ~ | 7.5ml | ~ | 2.5ml | 1ml | ~ |
| | WEEK 8 1000 - 1200 total ppm | Mid Bloom | ~ | 7.5ml | ~ | 2.5ml | 1ml | ~ |
| | WEEK 9 1100 - 1300 total ppm | Late Bloom | ~ | 7.5ml | ~ | 5ml | 1ml | ~ |
| | WEEK 10 1100 - 1300 total ppm | Late Bloom | ~ | 7.5ml | ~ | 5ml | 1ml | ~ |
| | WEEK 11 600 - 800 total ppm | Ripen | ~ | 5ml | ~ | ~ | 1ml | ~ |
| | WEEK 12 0 - 200 total ppm | Flush | ~ | ~ | ~ | ~ | ~ | 10ml |

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