DIRECT TO RESERVOIR
Mixing Instructions

USA - GRAM/GAL, ML/GAL

More Info

1. Fill reservoir to target volume; begin agitation.
2. Add **Front Row Si***; agitate 3-5 minutes.
3. Add **Part A**; agitate 3-5 minutes.
4. Add **Part B**; agitate 3-5 minutes.
5. Add **Bloom**; agitate 3-5 minutes.
6. Add **Clean Up** in 0.05 g/gal steps until target pH is achieved.
7. Validate ph/EC and adjust as necessary.

*Only use Front Row Si if reservoir will be fully used within 48 hours.

DIRECT TO RESERVOIR NOTES

- When using Front Row Si, reservoirs should be fully used within 48 hours.
- Without Front Row Si, reservoirs should be used within 5-7 days.
- Avoid mixing strong oxidizers, especially peroxides into reservoirs. If running a sterile reservoir, use calcium hypochlorite at 1-3g / 100 gallons.
- All feed charts are based on using RO water. If your starting water has any EC, be sure to account for that in the total EC.
- If using PhosZyme, add with Part B.

STEP-BY-STEP

1

ADD R.O. WATER
Fill RTU batch tank to final target volume

2

ADD FRONT ROW
while agitating. Wait 3-5 minutes between each component addition.

3

MIX
Continue agitation, adjust pH and check solution after 5 - 10 minutes

FEED CHART NOTES

These feed charts are not a prescription, but an example of the general ranges and relationship of EC and recipes that can be used. Each facility and cultivation methodology will require customization of EC values. See “EC Considerations”.

FEED EC vs Si USAGE RATE	
Feed EC	**Si Usage Rate (ml/gal)**
< 2.3	0.5
2.3-2.7	0.375
2.7-3.1	0.25
3.1-3.5	0.125
> 3.5	0

EC CONSIDERATIONS

Given the variance in facility infrastructure, cultivation methods, and cultivars, it’s impossible to give a specific EC prescription that applies to all scenarios. Most facilities feed at 2.0-3.0 EC with Front Row Ag, and our “Standard” and “High Strength” Feed Charts reflect effective feeding strategies in this range.

HIGHER EC	LOWER EC
Smaller pots	Larger pots
Frequent irrigation	Infrequent irrigation
Consistent runoff	Less runoff
Substrate monitoring	No substrate monitoring
Higher PPFD	Lower PPFD
Heavy feeding strains	Lower feeding strains
Higher CO2	Lower CO2
Tight environmental control	Less environmental control

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DIRECT TO RESERVOIR (DTR) FEED CHARTS

DTR STANDARD STRENGTH

Week of Flower		1	2	3	4	5	6	7	8	Strain Dependant
Chart Units g/gal	Phase	Veg/Moms	Week 1-2		Week 3-5		Week 6-8/9			Final 1-2 Weeks
	Recipe	Veg	Stretch		Stack*		Swell			Ripen
Base Fertilizer:	EC	2.6	2.4		2.2		2.0			1.6
PART A	g/gal	5.3	4.1		3.5		2.7			1.7
	Part A EC	1.7	1.3		1.1		0.9			0.6
PART B	g/gal	3.5	2.7		2.3		1.8			1.9
	Part B EC	0.9	0.7		0.6		0.5			0.5
BLOOM	g/gal		1.9		2.3		3.3			2.8
	Bloom EC		0.4		0.5		0.7			0.6
Optional Inputs:										
Si (mL)	mL/gal	0.4	0.4		0.5		0.5			0.5
PhosZyme	g/gal	0.4	0.4		0.4		0.4			0.4
	PhosZyme EC	0.1	0.1		0.1		0.1			0.1

DTR HIGH STRENGTH

Chart Units g/gal	Phase	Veg/Moms	Week 1-2	Week 3-5	Week 6-8/9	Final 1-2 Weeks
	Recipe	Veg	Stretch	Stack*	Swell	Ripen
	EC	3.0	3.0	2.7	2.4	1.8
PART A	g/gal	6.1	5.1	4.3	3.3	2.0
	Part A EC	2.0	1.7	1.4	1.1	0.6
PART B	g/gal	4.1	3.4	2.9	2.2	2.1
	Part B EC	1.0	0.9	0.7	0.6	0.5
BLOOM	g/gal		2.4	2.9	3.9	3.2
	Bloom EC		0.5	0.6	0.8	0.6
Si (mL)	mL/gal	0.3	0.3	0.3	0.4	0.5
PhosZyme	g/gal	0.4	0.4	0.4	0.4	0.4
	PhosZyme EC	0.1	0.1	0.1	0.1	0.1

* For facilities that want to run one recipe throughout flower, use “Stack” recipe.

ADDITIVE USAGE RATES

Additive	Usage Rate	Notes
Front Row Si	0 - 0.5 ml/gal	Si usage rate depends on feed EC, please refer to SI vs EC Table.
Triologic	1 - 2 ml/gal	Recommended to be used 1x per week.
BioFlo	30 ml/gal	Use as necessary to remove biofilm from irrigation lines.

PART	CONTRIBUTED EC/G/GAL
PART A	0.322
PART B	0.255
BLOOM	0.200

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