

GUATEMALA™

Echinacea

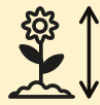
- First year Flowering, no vernalization or bulking required
- The 2nd URC Echinacea in the market (1st is the Danziger Panama™ Red)
- Early blooming - weeks 22 to 24
- Everlasting flower power
- Great hardiness
- Suitable for fall programs



Upright/
compact



18cm
7in



26cm
10in



Heat
Tolerant



Landscape



10-18 cm
Gal+



Pollinator
Friendly



Zone
4-9



GUATEMALA™ Gold



The GUATEMALA™ Series



Guatemala™ Papaya

ECH-Z-75



Guatemala™ Gold

PANAMA™

Echinacea

- First year Flowering, no vernalization or bulking required
- The 1st URC Echinacea in the market, Early blooming weeks 22 to 24
- Everlasting flower power
- Great hardiness
- Suitable for fall programs



PANAMA™ Red



Upright/
compact



20cm
8in



30cm
12in



Heat
Tolerant



Landscape



10-18 cm
Gal+



Pollinator
Friendly



Zone
4-9

The PANAMA™ Series



PANAMA™ Rose

ECH-Z-75



PANAMA™ Red

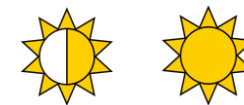
GUATEMALA™ & PANAMA™

Echinacea hybrid

For additional information and availability:

[GUATEMALA™](#)

[PANAMA™](#)



Stick on priority – Number 2 out of 4 categories

PROPAGATION TIPS

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 21° - 22°C (70°-72° F)	No	Weeks 1-2 50 ppm N	Spray fungicide to control Botrytis and bacteria day of sticking
	Weeks 3 - 5 18° - 20° C (65° - 68° F)		Weeks 3-5 100 to 125 ppm N	Day of sticking & Week 2



– **Irrigation specification** – Spray with adjuvant the day of sticking/Remove from mist as soon as possible



– K-IBA spray application will hasten and even rooting response. Echinacea Panama™ are long day flowering with the natural flowering response being June (facultative long day plant).

Rooting	pH	EC	Temp	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 / 6.0	0.80	21 / 22 C	50 ppm N in mist	Required 12 hr daylength		Day of sticking	
Week 2	5.6 to 6.0	.80 to .90	21 / 22 C	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 20 / 21 C	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	.90 to 1.0	20 to 21 C	Feed 100 to 150 ppm				
Week 5	5.8 to 6.2	.90 to 1.0	20 to 21 C	Feed 100 to 150 ppm		Daminozide as needed		1500 to 2000 ppm Daminozide

GUATEMALA™ & PANAMA™

Echinacea hybrid

- No pinch should be needed
- Naturally compact plant habit
- Spray for bacterial leaf blights

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
8 to 10 wks	Average Day	Pinch not required/ extend daylength to 12 hours for early flowering	100 - 150 ppm N	Daminozide spray application @ 2000 – 2500 ppm
15 cm (1 gallon) 1 ppp	(20°C)			
8 to 10 wks	3 plants per container		Soil EC 0.8 - 1.2 pH 5.8 to 6.2	
20 cm (2 gallon) 1 ppp				



- Long Day Flowering Response Natural flowering time is weeks 24 – 27
- Maintain warm temperatures during finishing at 20° C (68° F) average daily temperature to allow continued growth and progression of new leaves
- PGR - Spray Daminozide at 2000 to 2500 ppm if needed
- Maintain good airflow and allow plants to dry before nightfall/spray for bacterial leaf blights
- Drench after transplant for Rhizoctonia and Pythium / Phytophthora

For additional information and availability:

[GUATEMALA™](#)

[PANAMA™](#)

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID, DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRDIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTRONBIN / ETRIDIAZOLE / FLUDIOXONIL / PCNB

Finishing	pH	EC	Temp	Feed	Light	PGR	Fungicide	Comments
Week 6 Transplant	5.8 to 6.2	0.8 to 1.0	20° to 21° C	feed 100 to 150 ppm		Daminozide as needed	Drench fungicide after transplant	Control of Pythium & Phytophthora
Week 6 to 13	5.8 to 6.2	0.8 to 1.2	20° to 21° C	feed 100 to 150 ppm			Spray fungicide in finishing protocols	Control of Bacterial Leaf Blights