

GUATEMALA™

Echinacea



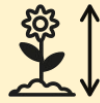
- First year Flowering, no vernalization or bulking required
- The 2nd URC Echinacea in the market (1st is the Danziger Panama™ Red)
- Early blooming - weeks 22 to 24
- Everlasting flower power
- Great hardiness
- Suitable for fall programs



Upright/
compact



18cm
7in



26cm
10in



Heat
Tolerant



Landscape



cm 10-18
+Gal



Zone
4-9



GUATEMALA™ Gold

The GUATEMALA™ Series

1st
YEAR
Flowering



Guatemala™ Papaya



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



Upright/
compact



20cm
8in



30cm
12in



Heat
Tolerant



Landscape



cm 10-18
+Gal



Zone
4-9



PANAMA™ Red

DANZIGER

The PANAMA™ Series

1st
YEAR
Flowering

NEW
27



PANAMA™ Neon Pink

ECH-Z-79

NEW
27



PANAMA™ Yellow

ECH-Z-80



PANAMA™ Rose

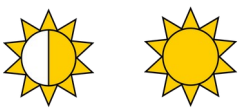


PANAMA™ Red

GUATEMALA™ & PANAMA™



Echinacea hybrid

For additional information and availability: [GUATEMALA™](#) [PANAMA™](#)



Stick on priority – Number 2 out of 4 categories

Average Time	Temperature	Hormone	Fertilization	Fungicide
5 weeks	Weeks 1 - 2 21° - 22°C (70°-72° F)	Optional	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 150 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).
- 12-14 hour daylength and warm temperatures are required during propagation

Rooting	pH	EC	Temp	Feed	Light	PGR	Fungicide	Comments
Week 1	5.6 / 6.0	0.80	21° - 22°C (70°-72° F)	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 (70°-72° F)	50 ppm N in mist			Second fungicide app	
Week 3	5.8 to 6.2	.90 to 1.0	Cool to 18° - 20° C (65° - 68° F)	Feed 100 ppm to 150 ppm				
Week 4	5.8 to 6.2	.90 to 1.0	18° - 20° C (65° - 68° F)	Feed 100 to 150 ppm				
Week 5	5.8 to 6.2	.90 to 1.0	18° - 20° C (65° - 68° F)	Feed 100 to 150 ppm		Daminozide as needed		1500 to 2000 ppm Daminozide

Echinacea hybrid

- No pinch should be needed
- Spray for bacterial leaf blights

Average Time (from liners)	Temperature	Pinch/ Daylength Modification	Fertilization	Plant Growth Regulator
10 to 12 wks	Average Day	Pinch is not required- only to cut the flower buds from the top (but not the whole stem). 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)			
10 to 12 wks	3 plants per container		Soil EC 0.8 - 1.2 pH 5.8 to 6.2	
19 cm (2 gallon) 1 ppp				



- Long Day Flowering Response Natural flowering time is weeks 22 – 24
- 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

Pests	Aphids	ACETAMIPRID, FLONICAMID, IMIDACLOPRID, DICHLORVOS
	Thrips	METHIOCARB, ACRINATHRIN, ABAMECTIN, DICHLORVOS, SPINOSAD
Diseases	Botrytis	CYPRODINIL+FLUDIOXONIL, IPRODIONE, POLYOXIN
	Pythium Phytophthora	PROPAMOCARB / MEFENOXAM
	Rhizoctonia	AZOXYSTROBIN / 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° - 21°C (68°-70° F)	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° - 21°C (68°-70° F)	feed 100 to 150 ppm			Spray fungicide in finishing protocols	Control of Bacterial Leaf Blights