

Echinacea Artisan™ Collection F₁ Series

Perennials Culture (revised 01/06/20)

(*Echinacea x hybrida*)

The first F1 hybrid seed Echinacea collection is just better!

The NEW Artisan Collection™ elevates seed Echinacea to offer consistency of plant structure for uniform and highly branched, full plants. It also provides uniformity of flowering, so all plants are ready to sell at the same time. Plus, the benefit of a seed input provides flexibility for production so it fits better in your schedule.

Plug crop time: 5 to 6 weeks

Transplant to finish: 13 to 17 weeks

- The first F1 hybrid Echinacea collection from seed!
- Offers consistency of plant structure for a uniform, highly branched, full plant.
- Features uniform flowering, so all plants are ready to sell at the same time.
- Seed input provides flexibility for production and labour management.
- NEW Amplified seed form is enhanced through a proprietary process, resulting in faster and more uniform germination compared to non-enhanced seed.

General Information

Exposure	Bloom Season	Height	Spread	Spacing
Sun	Late Spring, Summer, Late Summer, Autumn, Winter	16-28 in. (41-71 cm)	10-25 in. (25-64 cm)	10-14 in. (25-36 cm)

Germination

Seed Form	Recommended Plug Size	Seeds/Cell	Plug Crop Weeks	Days to Germinate	Initial Media pH/EC	Cover Seed
COT	128	1	5-6	4-14	5.8-6.2 pH	Yes
	72	1	11-13		0.75 mmhos/cm	

Plug Production

	Stage 1	Stage 2	Stage 3	Stage 4
Moisture	Level 4	Level 3-4	Level 2-4	Level 2-4
Temperature	71-76°F (22-24°C)	71-73°F (22-23°C)	68-70°F (20-21°C)	65-67°F (18-19°C)
Light	Optional	5-8 mol·m ⁻² ·d ⁻¹	10 mol·m ⁻² ·d ⁻¹	10-15 mol·m ⁻² ·d ⁻¹
Fertilizer	Less than 100 ppm N - Less than 0.7 EC		100 to 175 ppm N - 0.7 to 1.2 EC	100 to 175 ppm N - 0.7 to 1.2 EC

Vernalization

No - but beneficial

Juvenility

Up to the 2 fully mature leaf stage.

Propagation Key Tips

Forcing Protocol: Produce plug or liner to the 2 fully mature leaf stage. At the 2 fully mature leaf stage, begin short day conditions. Continue short day conditions until plants reach at least 7 fully mature leaves. The 72 size for forcing reflects this schedule. For more forcing info: See Perennials Forcing Guide.

Growing on to Finish

Growing on Temperature	Target Media pH/EC	Fertilizer	Daylength
(day) 65-75°F (18-24°C) (night) 60-65°F (16-18°C)	5.8-6.5 pH 1.5-2.0 mmhos/cm	175 to 225 ppm N - 1.2 to 1.5 EC	Short Day-Long Day

Daylength Notation

Best plant structure comes with short day conditions (12 hours or less) until 7 mature leaf stage, then long days. For forcing info: See Perennials Forcing Guide.

Crop Scheduling

Crop Type	Container Size	Plugs/Pot	Crop Time	Season	PGR
Overwinter	5"/6"/1 Gallon	1 (ppp)	30-34 (weeks)	Late Spring, ADT 72°F (22°C)	-
Annual	5"/6"/1 Gallon	1 (ppp)	13-17 (weeks)	Late Spring, ADT 72°F (22°C)	-
Forcing	5"/6"/1 Gallon	1 (ppp)	9-11 (weeks)	Late Summer, ADT 72°F (22°C)	-

Common Problems

Too wet soil during overwinter production can result in Root Rot and uneven plant development. Bark media is recommended for best drainage. Powdery Mildew.

Bulking Strategy

Short days are recommended to bulk the liners prior to long day conditions. Produce plugs to the 2 fully mature leaf stage. At the 2 fully mature leaf stage, begin short day conditions. Continue short day conditions until plants reach at least 7 fully mature leaves. Bulking can take place in liner or in finish container. After short day treatment, grow under long day conditions (natural or extended).

NOTE: Growers should use the information presented here as guidelines only. PanAmerican Seed recommends that growers conduct a trial of products under their own conditions. Crop times will vary depending on the climate, location, time of year, and greenhouse environmental conditions. It is the responsibility of the grower to confirm the treatment is available in their region as well as read and follow all the current label directions relating to the products. Nothing herein shall be deemed a warranty or guaranty by PanAmerican Seed of any products listed herein. PanAmerican Seed's terms and conditions of sale shall apply to all products listed herein.

Variety Pictures



Red Ombre



Soft Orange

PanAmericanSeed™

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