

# Calandiva® Single

## *Kalanchoe blossfeldiana*

Calandiva® Single is the classic, single-flowering series ideal for everyday applications. Dark foliage and a rich assortment of colors make Calandiva® Single an excellent choice for indoor and outdoor decoratins. With reliable production and a full pipeline of amazing genetics, Calandiva® Single continues to offer the best varieties in the market.



Coto



Hekla



Lanin



Mere



Mikeno



Kimono

STATUS	CULTIVAR	CULTIVAR CODE	RESPONSE TIME	VIGOR	LEAF SIZE	AVAILABLE (URC SIZE)	RECOMMENDED POT SIZE
	Bromo	52011	9	●●●○○	M	regular	4" (10cm), 6" (15cm)
<b>TOP PICK</b>	Cima	52237	9	●●○○○	S/M	regular	2" (5cm), 4" (10cm), 6" (15cm)
<b>NEW</b>	Classy	52377	9	●●●●○	M/L	both	2" (5cm), 4" (10cm), 6" (15cm)
<b>TOP PICK</b>	Coto	52179	8	●●○○○	M	both	2" (5cm), 4" (10cm), 6" (15cm)
<b>TOP PICK</b>	Dendi	52183	7	●●●○○	M	regular	2" (5cm), 4" (10cm), 6" (15cm)
<b>NEW</b>	Fiery	52374	9	●●●○○	M/L	both	2" (5cm), 4" (10cm), 6" (15cm)
<b>NEW</b>	Flamingo	52411	9	●●○○○	M/L	regular	2" (5cm), 4" (10cm)
	Flores	52347	9	●●○○○	M	regular	2" (5cm), 4" (10cm)
<b>NEW</b>	Florilis	52408	9	●●●●○	M	regular	2" (5cm), 4" (10cm), 6" (15cm)
	Fuego	52038	8.5	●●●○○	S	regular	4" (10cm), 6" (15cm)
	Galera	52039	8.5	●●●○○	M	regular	4" (10cm), 6" (15cm)
<b>TOP PICK</b>	Hekla	52224	9	●●●●●	M/L	regular	2" (5cm), 4" (10cm), 6" (15cm)
	Kerinci	52054	8.5	●●●○○	M	regular	4" (10cm), 6" (15cm)
	Keruna	52056	8.5	●●●○○	M	regular	4" (10cm), 6" (15cm)
<b>NEW</b>	Kimono	52363	8	●●●●○	M	regular	2" (5cm), 4" (10cm), 6" (15cm)
	Lanin	52061	8.5	●●●●○	M	regular	4" (10cm), 6" (15cm)
<b>TOP PICK</b>	Lascar	52233	8.5	●●●○○	M	regular	2" (5cm), 4" (10cm), 6" (15cm)
	Lican	52068	8.5	●●●○○	M	regular	4" (10cm), 6" (15cm)
<b>NEW</b>	Luxury	52380	8	●●●○○	M	both	4" (10cm), 6" (15cm)
<b>TOP PICK</b>	Mere	52198	8.5	●●●●○	M/L	regular	2" (5cm), 4" (10cm)
<b>TOP PICK</b>	Mikeno	52309	9	●●●○○	M	regular	4" (10cm), 6" (15cm)
	Milos	52075	8.5	●●●○○	M	regular	4" (10cm), 6" (15cm)
<b>TOP PICK</b>	Morne	52238	9	●●○○○	M	both	2" (5cm), 4" (10cm)
	Opala	52085	8.5	●●●○○	S/M	regular	4" (10cm), 6" (15cm)
	Paso	52089	9	●●●○○	M	regular	4" (10cm), 6" (15cm)
	Petero	52090	8.5	●●●○○	M	regular	4" (10cm), 6" (15cm)
	Raja	52152	8.5	●○○○○	M/L	regular	4" (10cm), 6" (15cm)
	Rudak	52184	9.5	●○○○○	S	both	2" (5cm), 4" (10cm)
	Saja	52180	8	●●●○○	M	both	2" (5cm), 4" (10cm), 6" (15cm)
	Tenorio	52111	10	●●●●○	M	regular	4" (10cm), 6" (15cm)
	Tomas	52342	9	●●●○○	S/M	mini	2" (5cm), 4" (10cm)
	Tombo	52199	9	●○○○○	M/L	regular	2" (5cm), 4" (10cm)
	Wilis	52348	8	●○○○○	S	both	2" (5cm), 4" (10cm)

●○○○○ Compact ●●○○○ Medium-compact ●●●○○ Medium ●●●●○ Medium-vigorous ●●●●● Vigorous

KALANCHOES

## PROPAGATION & VEGETATIVE PHASE

# Calandiva® Single

*Kalanchoe blossfeldiana*



### MEDIA

Rooting Hormone?	<b>No</b>
Direct Stick Instructions	<b>Fill and saturate containers, wait for at least half a day before sticking, keep media as dry as possible for 6-8 days after stick.</b>

### FERTILITY

Fertilizer Rate	<b>50-75ppm N with 20-10-20 (when roots begin to form)</b>
Long-Day EC Range	<b>0.6-1.0 mS via SME</b>
pH Range	<b>5.5-6.0 (Ideally 5.8)</b>

### TEMPERATURE

Average Soil Temperature	<b>68°F (20°C)</b>
Average Air Temperature	<b>68-72°F (20-22°C)</b>

### IRRIGATION

Irrigation Frequency (after day 14)	<b>Level 3 (keep media moderately moist at all times)</b>
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### LIGHT

Vegetative Photoperiodic Requirements	<b>Long Day</b>
Supplemental	<b>To maintain vegetative growth: 14-18 hours daily or night interruption starting 2-3 hours after sunset and ending 2-3 hours before sunrise. The long-day phase should last between 6-10 weeks after stick depending on container size and cultivar vigor (General rule of thumb, apply long days until the plant is 2/3 the desired height).</b>
Benefits From Shade?	<b>When transitioning out of prolonged low-light conditions, start shading at 4200 fc (45000 lux). During high-light months, shading must be applied at 5500 fc (59200 lux) or as-needed for cooling.</b>

### POTENTIAL DISEASES AND DISORDERS

*Botrytis, Pythium*, powdery mildew, *Fusarium, Phytophthora*, oedema/edema

### POTENTIAL PESTS

Aphids, fungus gnats, mites, thrips

### PGR SUGGESTIONS

- Daminozide (85%) at 2500ppm using an ultra-fine (mist) nozzle. Only one spray in propagation at 3<sup>rd</sup> week of long days.
- Daminozide (85%) at 2000-2500 ppm + Chlormequat (11.8%) at 1000ppm tank mix using an ultra-fine (mist) nozzle to substitute Daminozide-only application.
- Chlormequat (11.8%) at 2000 ppm as an alternative to Daminozide for slow growing cultivars. Apply at 2<sup>nd</sup> week of the long days.

### TIPS

- Bottom heat is suggested to speed rooting and stabilize media temperature. Ensure media temperature does not surpass ambient air temperature.
- Avoid sudden changes to the growing environment; any necessary adjustments should be gradual.
- Avoid use of oil-based liquid chemicals unless otherwise advised by Dümme Orange.
- European growers oftentimes apply Propiconazole (41.8%) at 2-4ppm the 3<sup>rd</sup> or 4<sup>th</sup> week of long days. Although primarily used as a fungicide, one treatment can be applied to control leaf size on large-leafed cultivars.

KALANCHOES

## FLOWERING PHASE

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*Kalanchoe blossfeldiana*



### FERTILITY

Fertilizer Rate	<b>100-200 ppm N with 20-10-20 plus additional micronutrients</b>
Short Day EC Range	<b>0.8-1.3 mS via SME</b>
Finish Flowering EC Range	<b>0.8-1.1 mS via SME</b>
pH Range	<b>5.5-6.1 (ideally 5.8)</b>

### TEMPERATURE

Day Temperature	<b>68-74°F (20-23°C)</b>
Night Temperature	<b>66-70°F (19-21°C)</b>

### IRRIGATION

Irrigation Frequency	<b>Level 3 (keep media moderately moist at all times)</b>
Humidity	<b>70-90% (Ideally 85%)</b>

### LIGHT

Flowering Photoperiodic requirements	<b>Short Day</b>
Photoperiodic Instructions	<b>Minimum 14 hours of darkness for 7 weeks minimum (black out conditions)</b>
Supplemental	<b>Optional on cloudy days</b>
Benefits From Shade?	<b>When transitioning out of prolonged low-light conditions, start shading at 4200 fc (45000 lux). During high-light months, shading must be applied at 5500 fc (59200 lux) or as-needed for cooling.</b>

### POTENTIAL DISEASES AND DISORDERS

*Botrytis, Pythium*, powdery mildew, *Fusarium, Phytophthora*, oedema/edema

### POTENTIAL PESTS

Aphids, fungus gnats, mites, thrips

### PGR SUGGESTIONS

- Daminozide (85%) at 2000-2500ppm + Chlormequat (11.8%) at 1000ppm tank mix 3<sup>rd</sup> or 4<sup>th</sup> week of short days. After this initial tank-mix application, transition to a Daminozide only regimen.
- Daminozide (85%) at 2500-4000ppm: (6-10 day summer rotation) (8-12 day spring/autumn rotation) (10-15 day winter rotation). Start after initial tank mix application.
- Paclobutrazol (0.4%) at 2-4ppm only in emergency situations or long holding periods.

### TIPS

- If you can read a newspaper under blackout, it's not dark enough. Streetlights, moonlight, etc should be taken into account to reduce the chance of short day interruption.
- Avoid overhead watering in general but especially during short days. Never use cold water, always 55°F (13°C) and warmer.
- Maintain a lower EC range when daytime temperatures are above 76°F (24°C).
- Stretching is primarily caused by humidity above 90% and/or a fluctuation of 30% or more.
- A red coloration on the underside of leaves indicates the crop is being kept too dry, too cold (below 62°F [17°C]) or is stressed in another regard.
- Kalanchoes are very sensitive to ethylene. A buildup of more than 0.1ppm should be avoided. Keep this in mind when shipping.