KALANCHOES

OVERVIEW

Calandiva®

Kalanchoe blossfeldiana

An elegant option for premium applications, Calandiva® is the original double flowering Kalanchoe that created the market for an affordable luxury. Highly uniform with good branching, Calandiva® is the perfect choice to compliment standard single-flowering Calanday® cultivars.

<table>
<thead>
<tr>
<th>STATUS</th>
<th>CULTIVAR</th>
<th>VARIETY CODE</th>
<th>RESPONSE TIME</th>
<th>VIGOR</th>
<th>LEAF SIZE</th>
<th>AVAILABLE (URC SIZE)</th>
<th>RECOMMENDED POT SIZE</th>
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<tbody>
<tr>
<td>Berry</td>
<td>Birkin</td>
<td>52005</td>
<td>9</td>
<td>S</td>
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<td>4&quot; (10cm)</td>
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<td>52050</td>
<td>12</td>
<td>M</td>
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<td>3&quot; (7.5cm), 4&quot; (10cm), 6&quot; (15cm)</td>
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</table>

- Compact
- Medium-compact
- Medium
- Medium-vigorous
- Vigorous

* indicates limited availability
# KALANCHOES

## PROPAGATION & VEGETATIVE PHASE

**Calandiva®**

*Kalanchoe blossfeldiana*

### MEDIA

| Rooting Hormone? | No |
| Direct Stick Instructions | 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. |

### FERTILITY

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

### TEMPERATURE

| Average Soil Temperature | 68°F (20°C) |
| Average Air Temperature | 68-72°F (20-22°C) |

### IRRIGATION

| Irrigation Frequency (after day 14) | Level 3 (keep media moderately moist at all times) |

### LIGHT

| Vegetative Photoperiodic Requirements | Long Day |
| Supplemental | 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). |
| Benefits From Shade? | 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. |

### 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 3rd 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 2nd 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 Dümmen Orange.
- European growers oftentimes apply Propiconazole (41.8%) at 2-4ppm the 3rd or 4th week of long days. Although primarily used as a fungicide, one treatment can be applied to control leaf size on large-leaved cultivars.

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KALANCHOES
FLOWERING PHASE
Calandiva®
Kalanchoe blossfeldiana

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

TEMPERATURE
Day Temperature    68-74°F (20-23°C)
Night Temperature  66-70°F (19-21°C)

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

LIGHT
Flowering Photoperiodic requirements Short Day
Photoperiodic Instructions Minimum 14 hours of darkness for 7 weeks minimum (black out conditions)
Supplemental        Optional on cloudy days
Benefits From Shade 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.

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 3rd or 4th 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 cool (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.