POT MUMS
OVERVIEW
CHRYSANTHEMUM X MORIFOLIUM

CHRYSANTHEMUM X MORIFOLIUM

Chrystal represents the flagship double-flowering series ideal as a high-end option for consumers searching for a luxurious aesthetic. With low PGR requirements, excellent branching, and a rounded habit, Chrystal is manageable for the grower, yet magnificent for the consumer.

<table>
<thead>
<tr>
<th>STATUS</th>
<th>CULTIVAR</th>
<th>CULTIVAR CODE</th>
<th>RESPONSE TIME (WEEKS)</th>
<th>VIGOR</th>
<th>FLOWER TYPE</th>
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<tbody>
<tr>
<td></td>
<td>Chrystal Blanche</td>
<td>65537</td>
<td>7</td>
<td>★★★★★★</td>
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<tr>
<td>NEW</td>
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</tbody>
</table>

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

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POT MUMS
PRODUCTION
CHRYSANTHEMUM X MORIFOLIUM

STICKING
Rooting Hormone? Optional with 1,200-1,500 ppm Indole-3-butyric acid (IBA)
Direct Stick Instructions Stick cuttings in a ring towards the outside of the pot at a slight outward-facing
Misting instructions Keep leaves coated and turgid (without saturating the media) until callus forms
Rooting Humidity 100% from day 0-8
Reduce from 95% to 70% from day 9-14

<table>
<thead>
<tr>
<th>CONTAINER SIZE</th>
<th>PLANTS PER POT</th>
<th>VEGETATIVE TIME (WEEKS)</th>
</tr>
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<tbody>
<tr>
<td>4”-4.5” (10-11cm)</td>
<td>1-3</td>
<td>3-4</td>
</tr>
<tr>
<td>6 in. (15 cm)</td>
<td>4-5</td>
<td>3-4</td>
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FERTILITY
Fertilizer Rate Moderate: 200 ppm N with 17-5-17 or 20-10-20 to charge media once callus forms.
Long-Day EC Range 0.6-1.0 mS via SME
pH Range 5.8-6.2

TEMPERATURE
Average Soil Temp 68-70°F (20-21°C)
Average Air Temp 68-72°F (20-22°C)

IRRIGATION
Irrigation Frequency Level 4: Keep media moderately moist at all times

LIGHT
Vegetative Photoperiod Long Day
Supplemental To maintain vegetative growth: Night interruption from 10pm-2am using
Benefits From Shade? Keep light levels below 4200 fc (45000 lux) until callus forms. Full sun conditions

PINCHING
Pinch when roots reach the sides and bottom of the pot leaving at least 4-7 leaves. Usually about 16-25 days after stick.

POTENTIAL DISEASES
Botrytis, Pythium, Rhizoctonia, powdery mildew

POTENTIAL PESTS
Aphids, spider mites, thrips, mealy bugs

GROWTH REGULATION
- B-Nine (85% Daminozide) at 1250-2500 ppm: (7-10 day summer rotation) (10-15 day spring/rotation) (14-21 day winter rotation).
- Pot mums can be grown in a negative DIF environment with night temps at 68°F (20°C) and day temps at 64°F (18°C).

TIPS
- Place cuttings in cooler upon arrival at 46-50°F (8-10°C).
FINISHING
CHRYSANTHEMUM X MORIFOLIUM

FERTILITY
Fertilizer Rate 100-125 ppm N with 17-5-17
Short Day EC Range 1.0-1.5 mS via SME
pH Range 5.7-6.2

TEMPERATURE
Day Temperature 67-72°F (19-22°C)
Night Temperature 62-65°F (17-18°C)

IRRIGATION
Irrigation Frequency Level 3: Keep media moderately moist at all times
Humidity Humidity should remain between 70-85%. Humidity above 95% increases the risk of disease and should be avoided.

LIGHT
Flowering Photoperiodic requirements Short Day
Photoperiodic Instructions Between 12.75-13.5 hours of darkness until flower color is visible.
Supplemental Optional on cloudy/overcast days
Benefits From Shade? No

BUD INSTRUCTIONS
Bud removal not required. However, the Chrystal series can be center budded or disbudded.

POTENTIAL DISEASES
Botrytis, Pythium, Rhizoctonia, powdery mildew

POTENTIAL PESTS
Aphids, spider mites, thrips, mealy bugs

GROWTH REGULATION
• B-Nine (85% Daminozide) at 1250-2500 ppm:
  • 7-10 day summer rotation
  • 10-15 day spring/autumn rotation
  • 14-21 day winter rotation.

TIPS
• Switching to clear water when plants are in 30% color will extend shelf life at retail and for the consumer.
• 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.
• Ensure plants are adequately spaced to promote a strong healthy crop with a rounded habit. Proper spacing accommodates plants touching slightly when full grown.
• Night temperatures above 73°F (23°C) will result in heat delay which will postpone the listed response time. Open blackcloth when complete darkness has fallen to vent stagnate hot air.