



## CROP MANUAL

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# Argyranthemum frutescens

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North Europe  
Central Europe



Molimba C  
Molimba M  
Molimba L

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# Finished Plant *Argyranthemum*

Series 	Type 	Leaf colour 	Pot size 	Comment
Molimba C	compact	green	10.5–12 cm	recommended to pinch
Molimba M	medium	green	12–13 cm	recommended to pinch
Molimba L	vigorous	green	12–15 cm	recommended to pinch

## Remarks

Culture information reflects that crop is transplanted outdoor and kept outdoor until week 50. If grown in greenhouse minimum temperature is frost free (3 -5 °C). If grown outside crop has to be protected from frost (with cover). Flowering time is depending on temperature and light sum,

Calendar Week	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13		
Scheduling from standard rooted material without pinch	P																					F	F					
		P																				F	F					
			P																				F	F				
				P																			F	F	F			
					P																			F	F			
						P																		F	F			
							P																	F	F	F		

# Cultivation Advice

Alter temperature setpoints according to light levels. In fall and winter light levels generally are low and temperature setpoints are best decreased for optimum plant quality. Please note that lower temperatures will increase culture time.



## Fertilization & Substrate

Constant feed, with a balanced fertilizer (200-250 ppm N), that contains average levels of micronutrients with a slightly increased level of iron. Use clear water with every third watering if high soluble salt problems occur



## Diseases and Pests

Common diseases: Botrytis,  
Common Diseases: Botrytis, Pythium, Phytophthora, Powdery mildew  
Common Pests: Aphids, Thrips, Spidermites Whitefly



## Light

Keep light intensities at 60,000 to 90,000 Lux. Low light levels promote stem stretch. Flowering is best under long days of Spring and Summer. Crop time will be longer under short daylength. For fastest flowering during short daylength, maintain night temperatures 14°C to 16°C



## PGR Applications

Be careful with PGR with the C and M type. Dazide; CCC and Bonzi can be used. **Substate** Use a well-drained disease-free potting mix. pH: 5.5-6.0

## Tip

because of higher uniformity mowing of the "C" and the "M" types are recommended






# Recommendations

Culture guideline at optimum average daily temperature 14–16°C:





Culture week	1	2	3	4	5	6	7	8	9
Handling	P			S					F
PGR	PGR		PGR						
Temperature D/N	16–18°C		12–14°C			14–16°C			
Light	in winter for earlier flowering								
Shading	full sun								
Humidity	50–70%								
Moisture	3–2								
pH	5,8–6,0								
EC growing medium	1,2 mS/cm		1.25-1,5 mS/cm						
EC feeding in mS/cm	1,5 mS/cm			2,0 mS/cm					
Fertilizer	N : K 1 : 1			N : K 1 : 1,5					

## Legend







### Soil moisture level

	<b>5 saturated:</b> water is easily observed. When the substrate is touched, water moves out freely from top to bottom.
	<b>4 wet:</b> water is not easily observed. When the substrate is touched, there is very little movement of water from top to bottom.
	<b>3 moist:</b> the substrate is black but not glistening. When the substrate is touched, there is water, but virtually no water movement.
	<b>2 medium:</b> the substrate turns from dark to medium brown. There is no water movement when touched.
	<b>1 dry:</b> the substrate changed color to very light brown.








### Culture stages Cuttings / Seeds

	callus development / germ1, radicle emergence
	root development / germ2, cotyledon expansion
	leaf development / plug bulking
	plug finishing / plug finishing










### EC zones feeding mS/cm

	<b>1</b> 0,5–1,0 mS/cm
	<b>2</b> 1,0–1,5 mS/cm
	<b>3</b> 1,5–2,0 mS/cm
	<b>4</b> 2,0–2,5 mS/cm
	<b>5</b> 2,5–3,0 mS/cm
	<b>6</b> 3,0–3,5 mS/cm







### EC zones growing medium mS/cm (Sonneveld 1:1,5)

	<b>1</b> 0,5–0,75 mS/cm
	<b>2</b> 0,75–1,0 mS/cm
	<b>3</b> 1,0–1,25 mS/cm
	<b>4</b> 1,25–1,5 mS/cm
	<b>5</b> 1,5–1,75 mS/cm
	<b>6</b> 1,75–2,0 mS/cm
	<b>7</b> 2,0–2,25 mS/cm




### Temperature zones

	<b>1</b> 0–5°C
	<b>2</b> 5–8°C
	<b>3</b> 8–12°C
	<b>4</b> 12–14°C
	<b>5</b> 14–16°C
	<b>6</b> 16–18°C
	<b>7</b> 18–20°C
	<b>8</b> 20–22°C
	<b>9</b> >22°C

### Light zones

	<b>1</b> total darkness
	<b>2</b> short day <12 h/short day treatment
	<b>3</b> shaded
	<b>4</b> no-shading / natural light
	<b>5</b> supplemental light > 14 h/long day treatment
	<b>6</b> night interruption

### Shading

	<b>1</b> shading > 250 W/m2
	<b>2</b> shading > 450 W/m2
	<b>3</b> shading > 750 W/m2

<b>ST</b>	sticking URC	<b>PC</b>	plastic cover
<b>RD</b>	root development	<b>L</b>	lift cover
<b>SC<sub>0</sub></b>	sowing no Vermiculite cover	<b>G</b>	gapping
<b>SC<sub>1</sub></b>	sowing plus light Vermiculite cover	<b>TP</b>	transplanting
<b>SC<sub>2</sub></b>	sowing plus medium Vermiculite cover	<b>T</b>	ypl transplanting
<b>SC<sub>3</sub></b>	sowing plus thick Vermiculite cover	<b>C</b>	cover to protect from frost
<b>RE</b>	radicle emergence	<b>PGR</b>	PGR treatment (spray)
<b>Cot</b>	cotyledon	<b>PD</b>	PGR treatment (drench) or heavy spray
<b>M<sub>1</sub></b>	mist day and night	<b>&gt;C</b>	pinch
<b>M<sub>2</sub></b>	mist day – dry night	<b>DB</b>	disbud
<b>W</b>	end mist	<b>P</b>	potting
<b>FC</b>	fleece cover	<b>S</b>	spacing
<b>PC</b>	plastic cover	<b>F</b>	flowering
		<b>LF</b>	leaf removal and maintenance