

Cultivation Manual

Dianthus

Flow





Cultivation Manual Flow



Pots and planting

Size of pot: 12 15 cm / 5" – 6" (quart)

Transplant the top of the plug directly at substrate level and don't compact the soil by pressing too much.

Place the pots pot-tight for an optimal micro climate.



Substrate

- Coarse, well-draining peat or coconut substrate optionally with 15% perlite
- pH 5.5 ~ 6.5
- EC 1.0 ~ 1.5



Irrigation

- Start with overhead watering for strong root development as soon as the flower buds appear, ebb/flow or drip tubes are preferred.
- Timing: in the morning
- Frequency: depending on substrate, light level and temperature, keep the substrate moderately moist with mild dry cycles.
- Too wet soil conditions, especially during spring, will cause stretching of the plants.
- Pots standing in puddles must be avoided.



Fertilizer

	mmol/ltr	ppm
NH4	1	8
K	6,86	268
Ca	3,56	143
Mg	1,02	25
NO3	13,21	185
Cl	<2,5	
H2PO4	1,25	39
SO4	1,27	41
	umol/ltr	
Fe	30	1,67
Mn	10	0,55
Zn	4	0,26
B	30	0,32
Cu	0,75	0,05
Mo	0,5	0,05

NPK fertilizer: first stage NPK 10-52-10 and later stages NPK+Mg 15-3-15-5

EC

Starting stage: 1.2 ~ 1.6

Growing stage: 1.2 ~ 1.6

Flowering stage: 2.0 ~ 2.8 (N:K = 1:1), higher EC means more compactness

pH

5,5 ~ 5,7



Optimal climate

- Vernalisation: not required.
- Temperature: after pinching a drop of night temperature will encourage branching
- Ventilation: during winter conditions ventilation is important! Max RH 75%
- Outdoor cultivation: from the moment there is no longer a chance of night frost onwards

stage	temp D/N	temp D/N	RH
Start	16 / 12°C	61 / 54°F	< 75%
Growing	15 / 10°C	59 / 50°F	< 75%
Flowering	18 / 12°C	64 / 54°F	< 75%



Pinching and spacing

Pinching: once 2 ~ 3 wks after transplanting
 Spacing : once as soon as the leaves touch.

P9	70 ~ 80 pots/m ²	3.5"	8 pots/ft ²
P10.5:	50 ~ 55 pots/m ²	4"	6 pots/ft ²
P12:	35 ~ 40 pots/m ²	4.5"	4 pots/ft ²

Growth regulator

Depending on the climate and growing conditions PGR must be applied, most common are fall and early spring applications.

Finishing

Timing depends on season, climate, growing method and pot size

End of winter/spring/summer planting

P9/P10.5	3.5/4"	8 ~ 12 wks
P12	4.5"	10 ~ 14 wks

Fall planting (for Flow series not recommend in Northern regions)

P9/P10.5	3,5/4"	18 ~ 22 wks
P12	4.5"	20 ~ 23 wks