

Family: Caryophyllaceae

Native of Mediterranean region

Carnations are excellent for cut flowers, bedding, pots, borders, edging and rock gardens.

Individual blooms can also be used in bouquets and floral arrangements.

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Carnation

Authorized propagator and distributor
for Dummen Orange (Holland)

**Temperature:**

Day temperature: 28 °C

Night temperature: 16 °C to 18 °C.

**Photoperiod / Light:**

50,000 – 60,000 Lux

**Relative Humidity:**

80 - 85%: Initial growth stage, 60 - 65%: Full growth stage

Hot and humid condition is not suitable for carnation cultivation.

Soil: Highly porous, well drained, pH: 5.5 - 6.5

Electrical Conductivity: < 1mS/cm

**Nutrition:**

The amount, type and frequency of fertilizer application depends upon the crop growth stage.

Vegetative stage: EC of fertigation: 1.2 mS/cm**Generative stage:** EC of fertigation: 1.5 - 1.7 mS/cm, pH of fertigation: 5.5 - 6.5**Planting & support system:**

Carnation crop needs to be supported with 4-5 layers of support material to get quality flowers.

Plant Population:

Gross plant population: 20 plants per sq. mt.

**Irrigation:**

- The need and frequency of watering depends on several factors like, temperature, aeration, light intensity, presence of moisture in media etc.
- Water pH: 6.5 to 7.0, EC: <0.7 mS/cm
- Drip irrigation system is suitable for irrigation as well as fertigation.

**Growth and Flowering pattern:**

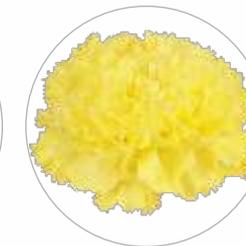
- Pinching should be done to facilitate side shoots and is done 3 weeks after plantation.
- Disbudding should be carried out to remove undesirable side buds leaving terminal bud in standard variety and remove terminal bud to develop side buds in spray variety.
- It is advisable to maintain 5 - 6 strong shoots per plant for good quality flowers.

Harvesting and Production:

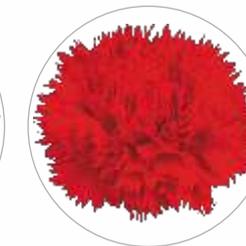
- Harvesting of flowers should be done in morning hours by cutting with sharp knife.
- Harvest Index: Just elongation of petals outside the calyx.
- Average flower production per plant per year - 10 nos

CARNATION VARIETIES

BALTICO



KIRO



MASTER



REALISM



CERVANTES



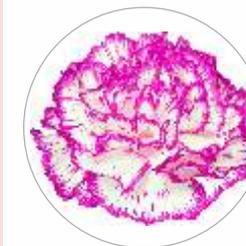
MANUELA



CORTES



PURPLE DAMASCUS



HOLMES



ZEPPELIN



MERIDA



LEONARD