

Helianthus annuus dwarf F1

Choco Sun

annual
30-50 s/gr

BEDDING / POT CULTURE	SOWING DETAILS	GROWING ON
<p>culture greenhouse/open field</p> <p>sowing method TP (DS)</p> <p>sowing season mid winter to mid summer (NL wk 4 to wk 30)</p> <p>germ temp. 21-24°C (70-75°F)</p> <p>growing temp 17-18°C (63-64°F)</p> <p>plug crop time 2,5-3 wks (late spring)</p> <p>total crop duration 10 weeks (late spring and summer)</p> <p>seed requirement 1200 seeds for 1000 plants</p> <p>pests/diseases Aphids, thrips, whitefly, leaf miners, downy mildew. After potting a treatment (Rizolex) against root diseases is advised. Thrips affecting young flower buds are the main cause of malformed flowers.</p> <p>fertilization (f) Moderate requirement. Sunflowers are sensitive to boron deficiency. Supplementation may be necessary. Further: see cultivation tip.</p>	<ul style="list-style-type: none"> • Direct sowing (DS): (Multi-) sowing in 13 cm (5 in.) and larger pots is possible, resulting in vigorous plant growth. • Pre-sow and transplant (TP): soil : sterile sowing mix, pH 5,5-6,5 and 2.0 EC* in the soil sow : 1 seed per plug (200 tray/ preferably deep plugs) cover: lightly cover with sand <p>days 1 - 4 (m) level 4 (t) 21-24°C (70-75°F) (l) optional (f) < 100 ppm N, < 0.7 EC</p> <p>days 5 - 6 (m) level 3-4 (t) 20-21°C (68-64°F) (l) 27.000 lux (2500 fc) (f) < 100 ppm N, < 0.7 EC</p> <p>days 7 - 9 (m) level 3 (t) 16-22°C (61-72°F) (l) 54.000 lux (5000 fc) (f) 50-75 ppm N, < 0,7 EC</p> <p>days 10-16 Transplant at 2 true leaf stage. See note.</p>	<p>soil/media pH 5,5-6,5 and 1.2 EC</p> <p>pinching Pinching is optional.</p> <p>plants per pot 1 plug per 12-13 cm (5 in.) pot 3 plugs per 15 cm (6 in.) pot</p> <p>plant density (garden) Pot size 12-13 cm: 10-14 plants per m², depending on growing method and time of year.</p> <p>moisture (m) Moderate requirement/quite dry especially 2-3 weeks after potting. Avoid leaf burn caused by overhead irrigation and excessive sun.</p> <p>temperature (t) Optimum temperature is 17-18°C (63-64°F) with a soil temp. of 18°C (64°F). Low soil temp. results in poor root growth and malformed flowers. Ventilate when temp. is over 20°C.</p> <p>light (l) High light/full sun. Short days conditions can be applied 5 weeks after sowing (NL as from week 12-13) for 11,5 hours/day and 13 ours/night. See the note below.</p>

CULTIVATION TIPS	NOTE	PGR
<p>* Higher EC levels have a positive effect plant compactness. An EC level of 3 causes a stronger plant reaction than a higher potassium or sulfate level. Also, this would lessen leaf yellowing.</p> <p>- Root penetration in the underground must be avoided as much as possible.</p>	<p>- Until late winter (NL week 9) additional light is applied (16 hours) for optimum result.</p> <p>- Short day culture (11,5 h/day) means smaller flowers. Long days after a short day period results in larger flowers. DIF is optional. This results in a shorter crop time and more uniformity in flowering.</p>	<p>Limited requirement.</p> <p>Apply GPR (e.g. 2-4 gr Alar 64/l) when the first real leaf pair is fully developed. Bonzi can be applied in the final stage. GPR's on open flowers are not recommended.</p>

moisture levels (m): 1 = dry 2 = normal to dry 3 = normal 4 = moist 5 = wet

This information is for general guidance only, and is in some cases specific for West European conditions. No guarantee is given for the result of the crop, nor is liability accepted for the consequences of applying the indications given.