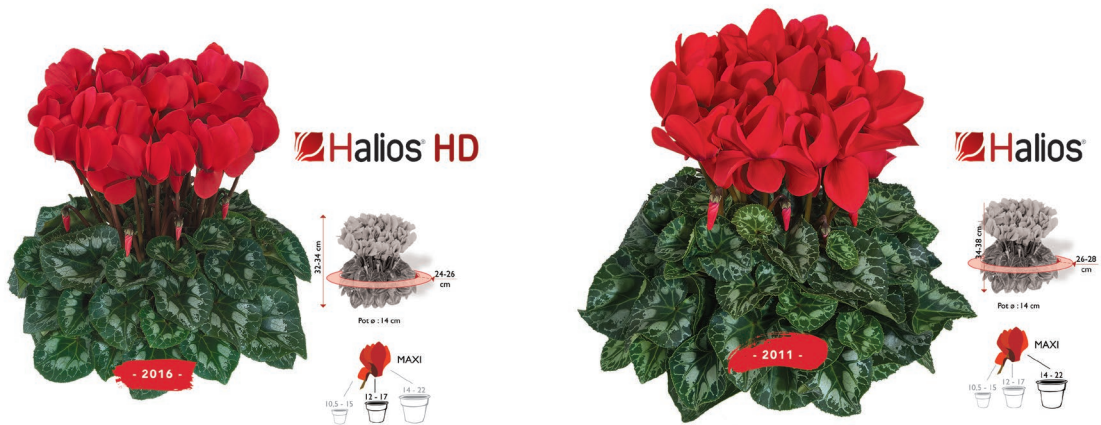




Two special red cyclamen with Large flowers: HALIOS[®] REBELLE[®] and HD REBELLE[®]

Characteristics of RED REBELLE[®] cyclamen with large flowers:

- A very aesthetic flat and round petal
- A specifically round and compact plant habit
- Long lasting blooms and excellent re-flowering power, numerous buds
- Straight and strong flower stems
- Many small leaves



Remarkable growing performances:



- REBELLE[®] genetics have an excellent germination
- These varieties are robust and very well adapted for big pots
- The RED REBELLE[®] show very good performance and a regular growth under heat conditions

Actually, the breeding pressure in a Southern climate type allows us to obtain genetics such as Halios[®] and Halios[®] HD Red Rebelle[®], with a very consistent growth in high temperature conditions that can exceed an ADT (a) of 77°F.

Thanks to their regular and harmonious growth, REBELLE[®] also withstand sudden changes in temperature without requiring the addition of growth regulators. It is even strongly advised not to use it. The use of growth regulators on our genetics would lead to reduced growth and delayed flowering. This is even more relevant with our REBELLE[®] varieties!

- An excellent root system

The REBELLE[®] varieties have a very good root system allowing better resistance of the plant during periods of stress, which thus limits the appearance of root diseases.

This better absorption capacity of the roots also limits the risk of tip burns on the leaves and flowers in case the plant is in a high-water demand.

For more data on tip burns: <https://www.cyclamen.com/pdf/technews/201702/cyclamen-burn-leaf-en.pdf>



HALIOS[®] Red REBELLE[®] ref. 2011, Holland (5.5" pot)



HALIOS[®] HD Red REBELLE[®] ref. 2016 Spain (5.5" pot)








Very good root system - HALIOS[®] Red REBELLE[®]



CHOOSE your Red REBELLE®: Halios® or Halios® HD depending on your forecasted flowering period

You have the option to choose between two REBELLE® Reds: Halios® and Halios® HD depending on your sales period and your climate. These two varieties are indeed ideally adapted to higher or lower ADT* during flowering stage.

For example, in a European climate type, for a flowering in autumn: choose Halios® HD REBELLE® (shorter stems)
 for flowering in winter: choose Halios® REBELLE®
 for flowering in end of summer: better choose Latinia® SUCCESS® Bright red

	Pot Ø in.	Advised ADT (a) at flowering stage in greenhouse				DENSITY plants/yard ²	CULTURE TIME	
		 68° ~ 77°F	 59° ~ 68°F	 54° ~ 59°F	 59° ~ 68°F		From sowing	From plug size > 1.4 in. (d)
Halios® HD Red REBELLE®	5				(b)	12	32 ~ 34 weeks	16 ~ 18 weeks
	6					10		
	6.5 (c)					4	36 ~ 38 weeks	20 ~ 22 weeks
Halios® Red REBELLE®	6				(b)	8	32 ~ 35 weeks	16 ~ 19 weeks
	6.5 (c)					4	36 ~ 39 weeks	20 ~ 23 weeks

*To grow a red in pot > 6.5", we advise to choose Halios® Scarlet red – (ref 2015) its vigor would help to succeed more easily.

- (a) ADT flowering stage: Average Daily Temperature in the greenhouse during the flowering stage.
- (b) Please note for a flowering in spring it may be necessary to add artificial light during vegetative growth.
- (c) Flower removal recommended
- (d) Plug size > 1.4" (age 16 weeks)

Not advised	Possible	Optimal

PREPARE your growing program using the table here above to get the key data

For example, for a flowering date in week 42 (without removing flowers), being in a Northern Europe climate type therefore with an ADT around 64°F during the flowering period, the variety to choose is Halios® HD Red REBELLE® in a 6" pot. As the cultivation period is 32 to 34 weeks from sowing, it would be necessary to sow in weeks 8 to 10. If starting from a 16 weeks old plug (plug size > 1.4"), the remaining cultivation time being 16 to 18 weeks, it would be necessary to pot in week 24 to 26.

Thus you optimize the inherent qualities of REBELLE® and will obtain the best resistance of the plants, color, robustness, flowering power...

SUCCEEDING with your REBELLE® culture: technical advice

The REBELLE® varieties are suitable for pot sizes between 5 - 6,5". During flowering stage, it is strongly recommended to reduce the Nitrogen doses (ppm N) while keeping the same balance (10/5/30).

Nitrogen doses during the growth stage according to the ADT and light for different pot sizes

ADT (in the greenhouse)	Maximum light level ⁽¹⁾	Ø pot (in.)	Dose of fertilizer per watering in ppm N-NO ₃ ⁽²⁾		Growth
			Halios® HD Red Rebelle®	Halios® Red Rebelle®	
59-64°F	50 000 lux 550 W/m ² 5 000 fc	5	75-100	50-75	Reduced growth
		5.5 - 6	≥ 100	75-100	
		6.5	Not advised	≥ 100	
64-68°F	40 000 lux 450 W/m ² 4 000 fc	5	50- 75	Not advised	Optimal growth
		5.5 - 6	75-100	50- 75	
		6.5	Possible	75-100	
68-77°F	30 000 lux 350 W/m ² 3 000 fc	5	25-50	Not advised	Average growth
		5.5 - 6	50- 75	25-50	
		6.5	75-100	50- 75	
>77°F	25 000 lux 325 W/m ² 2 500 fc	5	25	Not advised	Reduced growth
		5.5 - 6	25-50	25	
		6.5	50- 75	25-50	

(1) Maximum acceptable level of light in relation to the ADT, above which shade is required

(2) 1 g/L = 1000 mg/L and 100 mg/L = 100 ppm ; For 1 g/L with a balance of 10/5/30 we get 100 ppm N, 50 ppm P₂O₅ and 300 ppm K₂O