ELEKTRA

ELEKTRA *SelfTec*® 10

ready2heat'n control

ANTIFROST PROTECTION
OF DECORATIVE PLANTS CULTIVATED OUTDOORS

elektra.eu

ELEKTRA *SelfTec*®10 ready2heat'n control

These are heating cables of 10 W/m output with a built-in thermostat to automatically disengage operation of the heating system in ambient temperatures perceivably above 0°C. They are terminated with a power supply conductor with a plug and designed to install yourself.
The cables are optimal for antifrost protection of pot plants – both in your garden, as well as on the terrace.
Also suitable for on-pipe installation under a layer of insulation, to secure systems against freezing.

BUILT-IN THERMOSTAT

ADVANTAGES

- easy to install yourself
- invisible after installation – heating cables hidden inside pots, pot covers or in the soil
- built-in thermostat to automatically disengage heating in ambient temperatures perceivably above 0°C
- low operating costs

HEATING BALCONY AND TERRACE POT PLANTS

The most severe danger to pot plants cultivated outdoors is physiological drought. This phenomenon most frequently occurs in the early spring, when the sun intensifies its operation warming up the plant, while the ground remains frozen, making it impossible for plants to draw water.

WHY TO HEAT UP A PLANT POT?

- to protect the plant's root system against freezing
- to minimize risk of damage to the plant caused by low temperatures
- optimal temperature of the root system will speed up vegetation process, support healthy growth and boost immunity

HOW TO SELECT SUITABLE HEATING CABLES?

Select the suitable heating output of the cable per the plant pot volume measured in litres, accounting for required level of insulation to be obtained, as well as wind exposure. Recommendation: select your heating cable assuming 5 – 8 W per each 10 litres of the pot's volume.

EXAMPLE:
A 100-litre plant pot will need 5 – 8 metres of the heating cable.

Secure against winter pot plants in your garden!

HOW TO INSTALL YOUR HEATING CABLE IN PLANT POTS

01 Install **ELEKTRA *SelfTec®10* ready2heat'n control cable** inside pots when planting. Consider insulating rectangular plant pots by in-padding with a layer of extruded polystyrene (XPS) or min. 2 cm-thick PE foam. Insulate the round plant pots with PE foam insulation on rolls.

02 Insert cable from the top of the pot, lay a connecting joint part with a thermostat on the pot's bottom or filtering layer (if present).

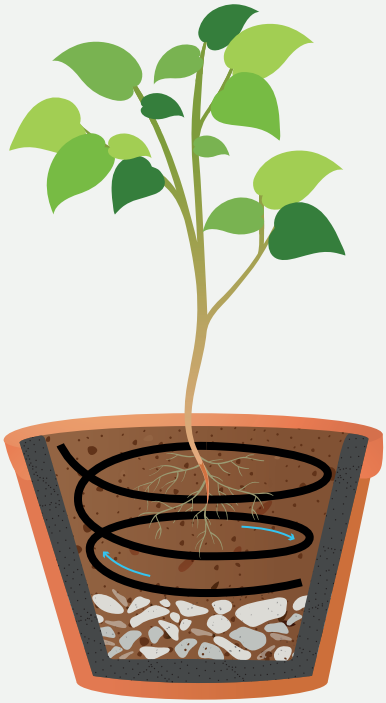
03 Heating cable can alternatively be introduced inside pots via holes drilled in pots' bottoms. This method will ensure that the power supply conductor will remain invisible.

04 Pot your plant.

05 Distribute evenly the heating cable inside the pot while gradually adding potting soil, adjusting the cable's layout to the pot's volume.

06 Distribute a layer of bedding soil or expanded clay by the plant's base, to protect against soil freezing-through.

07 To run your new pot plant heating system – just connect the power conductor's plug to the mains. Early spring is the best time to engage the heating system. However, also run the system anytime during winter upon heavy freezing conditions, to secure your plant's root system.



SECURE AGAINST FREEZING YOUR EXOTIC TREES AND BUSHES

Palm trees, olive trees and bushes, fig trees and other thermophilic plants poorly tolerate low temperatures. Upon deciding upon cultivation of exotic plants in the garden, it is worth considering adequate protection of such plants against winter conditions. For palm trees, it is especially important to protect the growth cone (palm heart) located inside leaves, as well as the trunk and root system.

Exotic plants especially deserve to be safe from freezing!

GET YOUR PALM TREE WINTER-READY

01 Install **ELEKTRA *SelfTec*®10 ready2heat'n control cables** in the autumn, prior to first frosts.

02 Delicately tie the leaves upwards, creating a compact crown and baring the trunk.

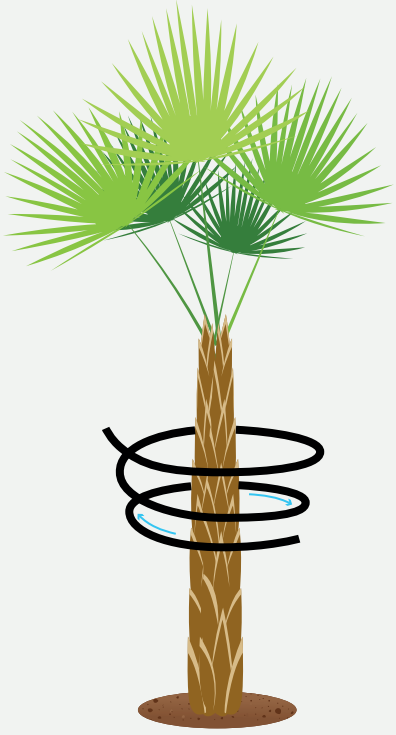
03 Wrap the tied leaves and palm trunk with agrotextile which will protect the plant against wind operation and frost, while allowing the plant to "breathe".

04 Wrap the palm tree's trunk spirally with the heating cable, starting from the base working upwards towards the crown, retaining spacing of 15 – 20 cm.

05 Wrap the entire plant with straw mat to limit heat loss and ensure stable temperature within the cover. Wrapping the straw mat with agrotextile will additionally secure against excessive moisture.

06 Distribute a layer of bedding soil around the plant's base to protect against soil freezing-through.

07 To run your new pot plant heating system – just connect the power conductor's plug to the mains. The system needs to be engaged in temperatures below freezing, depending on the declared natural anti-freezing properties of the palm tree itself.



HOW TO SELECT SUITABLE HEATING CABLES?

Select the heating set of the length which will allow to wrap the cable spirally around the tree, from its base up towards the crown, retaining spacing of 15 – 20 cm. This will help your tree to safely survive the wintertime.

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TECHNICAL SPECIFICATION

CHARACTERISTICS	POWER OUTPUT (+10°C):	10 W/m
	POWER SUPPLY:	230 V ~ 50/60 Hz
	CONTROL (BUILT-IN BIMETAL THERMOSTAT):	switch-on at +3°C, switch-off at +10°C
	MIN. INSTALLATION TEMPERATURE:	-25°C
	MAX. WORKING TEMPERATURE:	+65°C
	MAX. EXPOSURE TEMPERATURE:	+65°C
	INGRESS PROTECTION:	IPX7
CABLE'S STRUCTURE	TYPE OF HEATING CABLE:	self-regulating, single-side power supply
	EXTERNAL DIMENSION:	~ 6 × 9 mm
	MIN. RADIUS OF BENDING:	20 mm
	DEFORMATION STRENGTH:	> 1500 N
	PULLING STRENGTH:	> 300 N
	SCREEN:	100% coverage, PET covered aluminum foil, tinned copper braiding
	CONDUCTORS:	tin-coated copper 2 × 0.6 mm²
	INSULATION:	modified polyolefin
	OUTER SHEATH:	halogen free polyolefin, UV resistant
	CONDUIT CABLE:	3 m, 3 × 1.0 mm² with the plug

DECLARATIONS AND CERTIFICATES

EPD Environmental Product Declaration

CE

COMPLIANCE WITH STANDARDS

EN 60335-1
EN 62233
IEC 60800:2021
EN IEC 55014-1
EN IEC 55014-2
EN IEC 61000-3-2
EN IEC 61000-3-3

ELEKTRA *SelfTec*®10 ready2heat'n control

TYPE	LENGHT [m]	POWER (+10°C) [W]
SelfTec®10/1/T	1.0	10
SelfTec®10/2/T	2.0	20
SelfTec®10/3/T	3.0	30
SelfTec®10/5/T	5.0	50
SelfTec®10/7/T	7.0	70
SelfTec®10/10/T	10.0	100
SelfTec®10/15/T	15.0	150
SelfTec®10/21/T	21.0	210
SelfTec®10/30/T	30.0	300
SelfTec®10/42/T	42.0	420
SelfTec®10/X/T	up to 80.0 m	length acc. to order

ELEKTRA

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PREMIUM QUALITY for everyone

EPD Environmental Product Declaration

ISO9001 QUALITY SYSTEM