



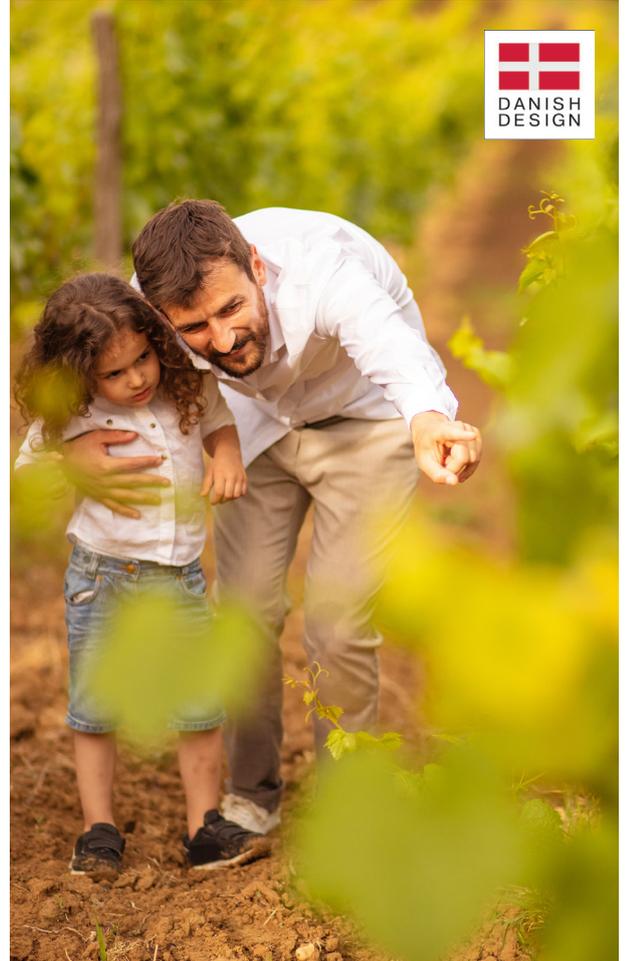
VINEYARD - FROST PROTECTION

Protect Your Vineyard from Devastating Spring Frosts with Advanced Electric Heating Solutions

Spring frost is one of the biggest threats to vineyards worldwide. As temperatures drop below freezing, delicate buds and young shoots become highly vulnerable. A single night of frost can wipe out up to 50% of a vineyard's yield, drastically reducing grape production and leading to significant financial losses.

Frost damage occurs because the water inside plant cells freezes, expanding and rupturing the delicate tissue inside the buds. Once damaged, these buds either fail to produce grapes or grow deformed, reducing both the quality and quantity of your harvest. Traditional frost protection methods such as wind machines, smudge pots, or water sprinklers are costly, labor-intensive, and not always effective.

That's where our electric heating cables and smart control systems come in.



ADVANTAGES:

- Easy installation, long-term performance
- Customizable for any vineyard
- Plug & play connections
- Eco-friendly & sustainable
- UV-resistant, weatherproof heating cables
- Maintenance-free
- Available in a wide range of sizes
- Covered by a 20-year warranty



Version 2-032025

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Our innovative heating system prevents frost from forming on vines, keeping the air and plant temperature above critical levels. The system consists of:

Specialized heating cables installed along the wires and cordons of the wine plant, near the buds and fruiting canes.

Smart temperature sensors that detect frost conditions in real time.
Automated control units that activate the system only when needed, ensuring energy efficiency.

As the temperature drops to dangerous levels, the system activates, gently radiating heat and preventing frost formation—ensuring that grape buds survive and flourish despite freezing conditions.



TECHNICAL DATA

Power output	18 W/m (customizable)
Voltage	230 V - 50Hz
Cable diameter	Ø7,2 +/-0,2mm
Heating conductor	Dual, Fluoropolymer
Supply cable	3G H07RN-F, 10m
Screen	Aluminium tape and copper drain wire
Outer sheath	Polyolefin
Reaction to fire, CPR	E _{CA}
IP rating	IPx7
Max. permissible cable temperature	90° C
Min. bending radius	40 mm
Warranty	20 years
Standards	IEC 60800
Tolerance, resistance	-5 %/+10 %
Tolerance, length	+/- 2 %

ACCESSORIES

Thermostat
Protection tubing
Extension f. supply cable
Junction point f. supply cable
Control cabinet
Repair kit f. cable

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HEATING CABLE 7 MM - 18 W/M - 230V

PRODUCT DESCRIPTION	POWER	CURRENT	RESISTANCE
Heating cable Ø7 mm, 18 W/m - 11 m, 230V	200 W	0.9 A	264 Ω
Heating cable Ø7 mm, 18 W/m - 22 m, 230V	400 W	1.7 A	133 Ω
Heating cable Ø7 mm, 18 W/m - 33 m, 230V	610 W	2.6 A	87 Ω
Heating cable Ø7 mm, 18 W/m - 44 m, 230V	800 W	3.5 A	66 Ω
Heating cable Ø7 mm, 18 W/m - 65 m, 230V	1190 W	5.2 A	44.5 Ω
Heating cable Ø7 mm, 18 W/m - 73 m, 230V	1350 W	5.9 A	39.1 Ω
Heating cable Ø7 mm, 18 W/m - 94 m, 230V	1680 W	7.3 A	31.5 Ω
Heating cable Ø7 mm, 18 W/m - 112 m, 230V	2010 W	8.7 A	26.3 Ω
Heating cable Ø7 mm, 18 W/m - 130 m, 230V	2330 W	10.1 A	22.8 Ω
Heating cable Ø7 mm, 18 W/m - 160 m, 230V	2880 W	12.5 A	18.4 Ω
Heating cable Ø7 mm, 18 W/m - 185 m, 230V	3360 W	14.6 A	15.7 Ω

HEATING CABLE 7 MM - 18 W/M - 400V

PRODUCT DESCRIPTION	POWER	CURRENT	RESISTANCE
Heating cable Ø7 mm, 18 W/m - 19 m, 400V	350 W	0,9 A	457 Ω
Heating cable Ø7 mm, 18 W/m - 28 m, 400V	490 W	1,2 A	325 Ω
Heating cable Ø7 mm, 18 W/m - 38 m, 400V	700 W	1,7 A	229 Ω
Heating cable Ø7 mm, 18 W/m - 58 m, 400V	1050 W	2,6 A	153 Ω
Heating cable Ø7 mm, 18 W/m - 77 m, 400V	1390 W	3,5 A	116 Ω
Heating cable Ø7 mm, 18 W/m - 92 m, 400V	1680 W	4,2 A	95 Ω
Heating cable Ø7 mm, 18 W/m - 113 m, 400V	2070 W	5,2 A	77 Ω
Heating cable Ø7 mm, 18 W/m - 128 m, 400V	2340 W	5,8 A	68 Ω
Heating cable Ø7 mm, 18 W/m - 162 m, 400V	2950 W	7,4 A	54 Ω
Heating cable Ø7 mm, 18 W/m - 195 m, 400V	3490 W	8,7 A	45,8 Ω
Heating cable Ø7 mm, 18 W/m - 225 m, 400V	4060 W	10,2 A	39,4 Ω

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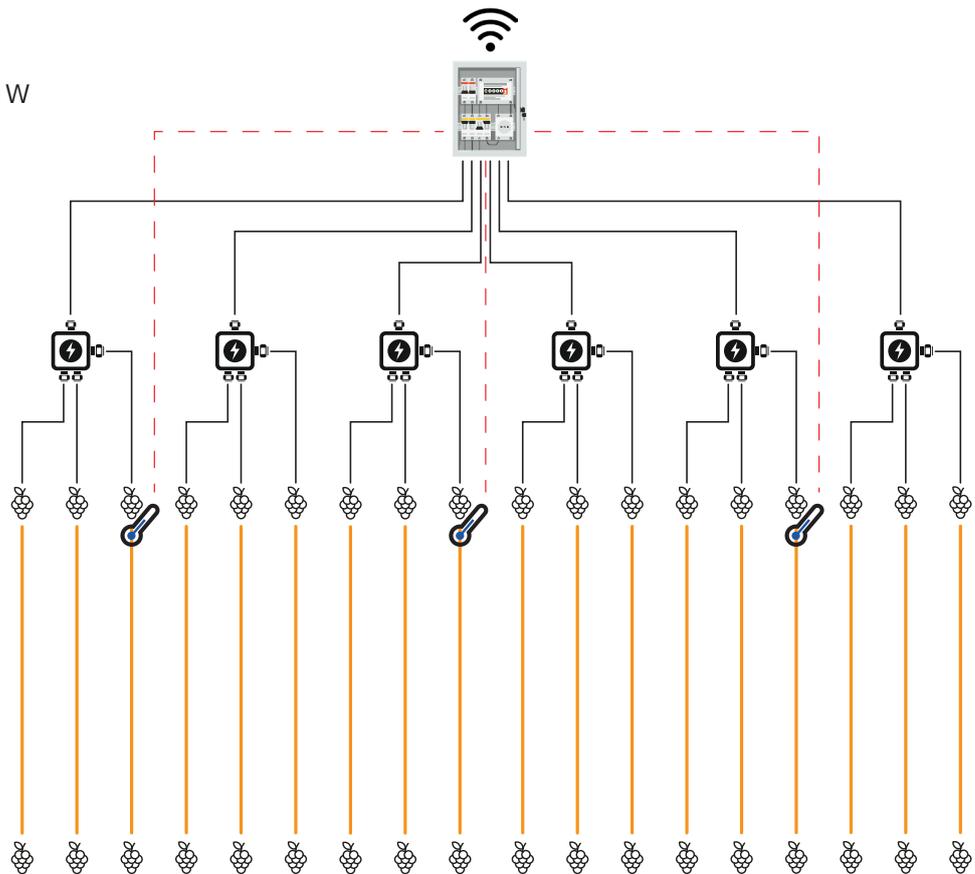


ACCESSORIES

DESCRIPTION	DETAILS
Thermostat	16 A output, 20 m sensor, DIN-rail mounting
Protection tubing	100 m/roll, ø20 mm
Extension f. supply cable	5 m, IP67 connectors
Extension f. supply cable	10 m, IP67 connectors
Junction point f. supply cable	1 in, 2 out, IP67 connectors
Control cabinet -500	1 Thermostat, CE16A input, 3 outputs 16 A, 11 kW
Control cabinet -1100	3 Thermostats, CE32A input, 6 outputs 16 A, 22 kW
Repair kit f. cable	Shrink tubing & lugs
Binding tool f. protection tubing	Rechargeable battery

EXAMPLE OF INSTALLATION

- Control cabinet - 1100
- 6 outputs - each max 3600 W
- 3 built-in thermostats with own external sensor
- Remote 4G surveillance optional



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