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MAGNUM Ideal

Installatievoorschriften

Installation manual

Installationsanleitung

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Installation instructions for MAGNUM frost-free ribbon cable

MAGNUM frost-free ribbon cable has been developed specially for keeping (water) pipework, stop cocks, waste pipes, etc. safe from freezing. This product offers a relatively economic solution (both in terms of purchase, installation and use) in situations where freezing and frost damage could lead to problems. MAGNUM frost-free ribbon cable is ready to connect. At the end of the ribbon cable (often the coldest spot!) it has a built-in bi-metal thermostat. The thermostat is activated when the pipeline temperature drops below 5°C and switches off automatically when the pipeline temperature rises above 5°C. This prevents freezing and reduces energy consumption to a minimum. The ribbon cable is exceedingly easy to fit to pipework using the supplied PVC tape or plastic quick fasteners (tie wraps). It is recommended to use MAGNUM ribbon cable in combination with (polyethylene) pipework insulation with a minimum wall thickness of 10mm.

Applications:

Anti-frost system for: External and internal (water) pipework, Outdoor stop cocks and waste pipes, Fire-extinguishing lines, Sprinkler systems, Pumps

Installation instructions:

- Never switch on MAGNUM frost-free ribbon cable when it is rolled up.
- Never shorten or lengthen MAGNUM frost-free ribbon cable.
- Use MAGNUM frost-free ribbon cable for pipework that reaches a maximum temperature of 65°C.
- Only use MAGNUM frost-free ribbon cable in combination with polyethylene pipework insulation with a minimum wall thickness of 10 mm to ensure optimum protection and operation of the anti-frost-system.
- The flat part of the contact thermostat must be fitted to the pipework, preferably on the coldest part of the pipework. It should then be taped up completely with insulation tape.
- If the pipework comes out of the ground, it should be installed up to the frost line.
- The pipework, including MAGNUM frost-free ribbon cable, should be insulated with pipework insulation.
- Never mount MAGNUM frost-free ribbon cross-wise or in overlapping fashion.
- Connect MAGNUM frost-free ribbon cable to a 220V socket with earth connection.
- Because many places where MAGNUM frost-free ribbon cable must be fitted fall under the regulation concerning the use of an earth-leak switch, it is recommended to take this into account. If this device is not already installed in the system, a movable earth-leak switch can be used.

Product specifications:

Frost-free ribbon cable, available in lengths of 1 - 48 metres.
 Capacity: 10 watt per metre
 Switching temperature: + 15°C
 Provided with 2-metre connecting cord with earthed plug and automatic thermostat (bi-metal), including PVC fixing tape.

Articlenr.	Length	Power	Voltage
155001	1 meter	10 watt	230 Volt
155002	2 meter	20 watt	230 Volt
155004	4 meter	40 watt	230 Volt
155006	6 meter	60 watt	230 Volt
155008	8 meter	80 watt	230 Volt
155010	10 meter	100 watt	230 Volt
155014	14 meter	140 watt	230 Volt
155018	18 meter	180 watt	230 Volt
155022	22 meter	220 watt	230 Volt
155026	26 meter	260 watt	230 Volt
155030	30 meter	300 watt	230 Volt
155034	34 meter	340 watt	230 Volt
155040	40 meter	400 watt	230 Volt
155048	48 meter	480 watt	230 Volt

Diameter of pipework (max.)	15mm	20mm	25mm	30mm	40mm	50mm	100mm
Method of mounting:	Protection factor of water pipework in °C						
Linearly (along pipe)	: -30°C	-30°C	-25°C	-20°C	-15°C	-10°C	- 5°C
10 windings per metre	: --	--	-30°C	-30°C	-25°C	-25°C	-20°C
20 windings per metre	: --	--	--	--	-30°C	-30°C	-30°C

Calculate the cable:	Length of pipework x						
10 windings per metre (x)	1,25	1,50	1,75	2	2,25	2,5	4
20 windings per metre (x)	2	2,25	2,50	2,75	3,25	4	8

