ELEMENTOS CALEFACTORES

Special heating systems

BFVIBC TANK-HEATERS

Electric heating system for IBC/tote tanks of 1.000 L (275 gal)

Catalogue

Standard IBC/Tote tanks-heaters

2023

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IBC 1.000 L (275 gal) standard tank-heaters

BFVIBC tank-heaters

Standard range of heating blankets for **IBC** tanks of 1.000 L (275 gal), specially designed for heating by surface.

Function

The main function of these heating blankets is to avoid and compensate for the heat losses suffered by certain fluids during the production process.

BFV
IBC/Tote

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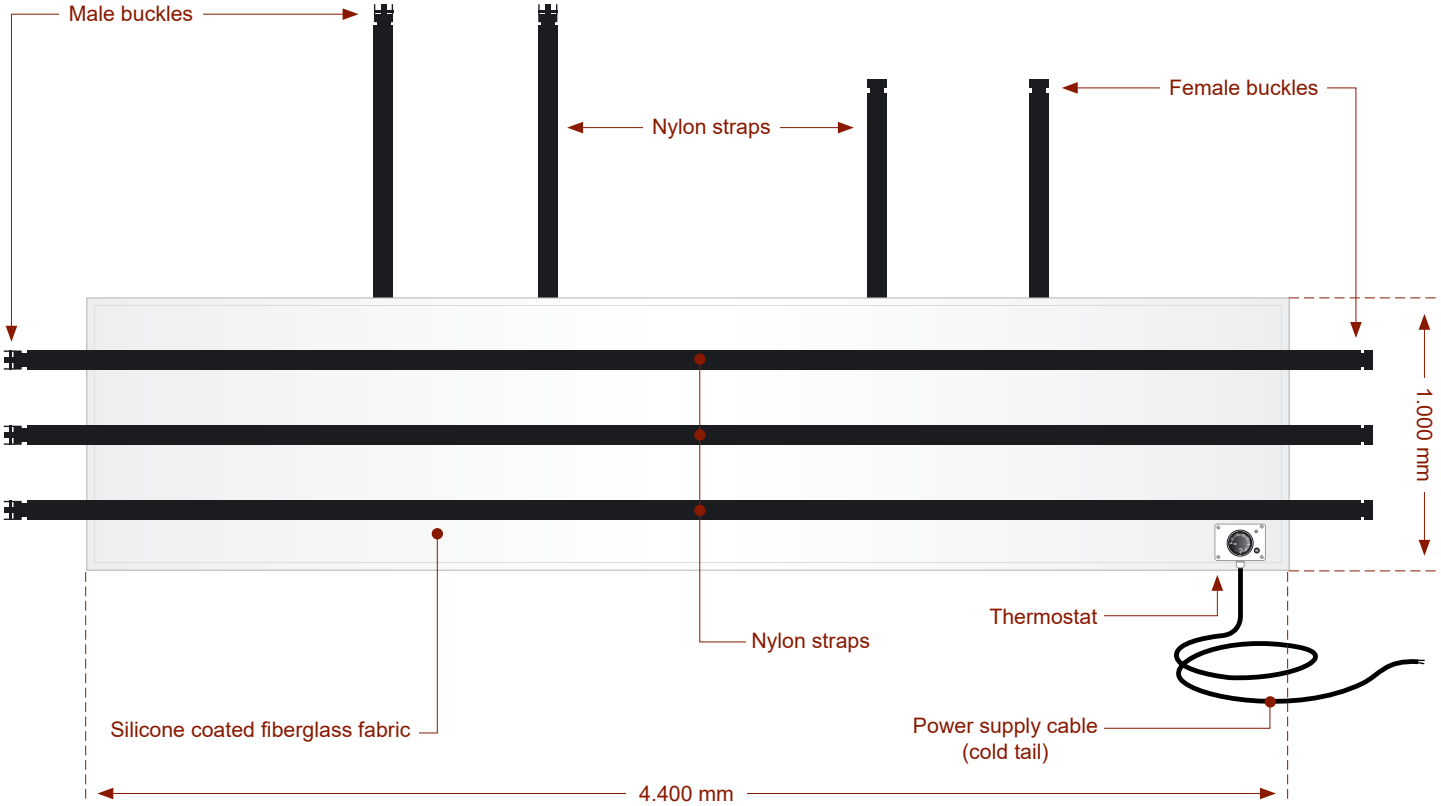
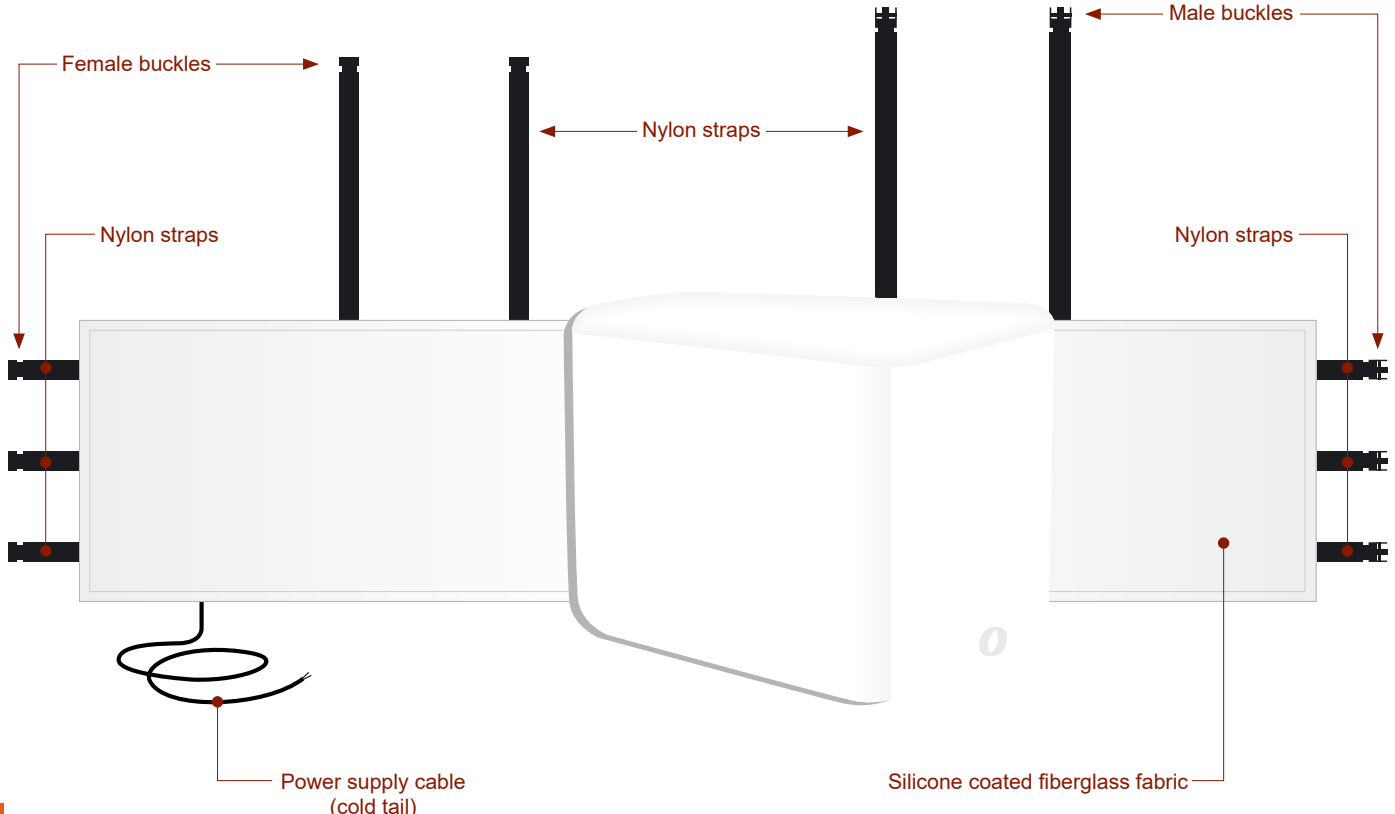
Scheme of the heating blanket BFV IBC





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Main features

• **Fabric**

Silicone coated fiberglass

• **Fastening device**

Nylon straps and buckles

• **Label**

Technical characteristics and CE marking

• **AT056-i**

Analog thermostat 0-90ºC

• **Power cable**

Cable 3 x 2,5 mm² H07RN-F

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IBC/tote tank-heaters

BFVIBC440010002800: Heating jackets for IBC tanks 1.000 L (275 gal)

BFVIBC

Model	IBC 1.000 Litres
Reference	BFVIBC440010002800
Length	4.400 mm
Width	1.000 mm
Power (W)	2.800 W
Voltage (V)	230 V - 50 Hz
Temp. range	0 - 90º C
Fastening device	Nylon belts with plastick buckles

Important: The **BFV-IBC** line of heating jackets for 1.000 liter IBC/GRG tanks includes an adjustable thermostat with a temperature range of 0 to 90º C. It also includes a safety micro-thermostat with a tolerance of ± 5º C or a thermal fuse.

This heating jacket can reach a temperature of 90º C, with a hysteresis: 30 K ± 15 K

AT056-i: Analog adjustable thermostat

AT056-i

Model	Description
AT056-i	• Analog thermostat. • Temperature range: -10/90º C • Voltage: 230 V - 50 Hz • Maximum load current: 16 A • On/Off differential: 4º C • Sensor: Built-in the heater

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Technical characteristics

Model:	BFVIBC440010002800
Application areas:	Control and maintenance of the temperature of IBC tank 1.000 L (275 gal)
Power delivery at 230 V - 50 Hz:	2.800 W
Maximum working temperature:	90º C ± 5º C
Minimum working temperature:	- 40º C ± 5º C
Heating conductor:	Ni/Cr 80/20
Conductor insulation:	Thermal silicone double insulation
Maximum working temp. of the conductor:	- 40 / 180º C
Heating blanket insulation:	Siliconed fiberglass fabric
	100% Textured filament fiberglass
	Treatment: One side silicone translucent
	Weft: EC-9-136 Tex * 1
	Warp: EC-9-136 Tex * 1
	Tensile strength
	Weft: 5000N/5 cm
	Warp: 3000N/5 cm
	Total thickness of the heating blanket: 14 mm
	Fabric: Cross Twill
	Fire resistance: IMO Res. MSC.61(67) FTP - Cod
Approximate dimensions:	4.400 x 1.000 x 14 mm
Type of fastener device:	Nylon belts with plastick buckles
Dielectric strength:	1.500 V 1 min. ≥ 50GΩ
Power cable:	Cable 3 x 2,5 mm² H07RN-F
Standards:	2014 / 35 / UE
	2014 / 30 / UE
	EN60335-1
	EN ISO 12100-1 & 2
Safety sensor:	Thermal fuse 130º C
Thermostat:	AT056: -10 / 90º C | ±4º C | 16A | 230 V - 50 Hz | Acerinox bulb and capillary sensing

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IBC/tote tank-heaters

BFVIBC440010002800/400: Heating jackets for IBC tanks 1.000 L (275 gal)

• Voltage: 400 V (biphasic)

BFVIBC

Model	IBC tank 1.000 litres
Reference	BFVIBC440010002800/400
Length	4.400 mm
Width	1.000 mm
Power (W)	2.800 W
Voltage (V)	400 V (biphasic) - 50 Hz
Temp. range	0 - 90º C
Fastening device	Nylon belts with plastick buckles

Important: The **BFV-IBC** line of heating jackets for 1.000 liter IBC/GRG tanks includes an adjustable thermostat with a temperature range of 0 to 90º C. It also includes a safety micro-thermostat with a tolerance of ± 5º C or a thermal fuse.

This heating jacket can reach a temperature of 90º C, with a hysteresis: 30 K ± 15 K

AT058-i: Analog adjustable thermostat

AT058-i

Model	Description
AT058-i	• Analog thermostat. • Temperature range: -10/90º C • Voltage: 400 V - 50 Hz • Maximum load current: 16 A • On/Off differential: 4º C • Sensor: Built-in the heater

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Technical characteristics

Model:	BFVIBC440010002800/400
Application areas:	Control and maintenance of the temperature of IBC tank 1.000 L (275 gal)
Power delivery at 400 V a 50 Hz:	2.800 W
Maximum working temperature:	90º C ± 5º C
Minimum working temperature:	- 40º C ± 5º C
Heating conductor:	Ni/Cr 80/20
Conductor insulation:	Thermal silicone double insulation
Maximum working temp. of the conductor:	- 40 / 180º C
Heating blanket insulation:	Siliconed fiberglass fabric
	100% Textured filament fiberglass
	Treatment: One side silicone translucent
	Weft: EC-9-136 Tex * 1
	Warp: EC-9-136 Tex * 1
	Tensile strength
	Weft: 5000N/5 cm
	Warp: 3000N/5 cm
	Total thickness of the heating blanket: 14 mm
	Fabric: Cross Twill
	Fire resistance: IMO Res. MSC.61(67) FTP - Cod
Approximate dimensions:	4.400 x 1.000 x 14 mm
Type of fastener device:	Nylon belts with plastick buckles
Dielectric strength:	1.500 V 1 min. ≥ 50GΩ
Power cable:	Cable 3 x 2,5 mm² H07RN-F
Standards:	2006/95/EEC
	2004/108/EEC
	CEI INTERNATIONAL IEC 1423-1
	CEI INTERNATIONAL IEC 1423-2
Safety sensor:	Thermal fuse 130º C
Thermostat:	AT058-i: -10 / 90º C | ±4º C | 16A | 230 V - 50 Hz | Acerinox bulb and capillary sensing

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IBC/tote tank-heaters

BFVIBC440010002000/TH2: Heating jackets for IBC tanks 1.000 L (275 gal)

- Two independent heating zones

BFVIBC

Model	IBC tank 1.000 litres
Reference	BFVIBC440010002000/TH2
Length	4.400 mm
Width	1.000 mm
Power (W)	2 x 1.000 W
Voltage (V)	2 x 230 V - 50 Hz
Temp. range	0 - 90º C
Fastening device	Nylon belts with plastick buckles

Important: The **BFV-IBC** line of heating jackets for 1.000 liter IBC/GRG tanks includes an adjustable thermostat with a temperature range of 0 to 90º C. It also includes a safety micro-thermostat with a tolerance of ± 5º C or a thermal fuse.

This heating jacket can reach a temperature of 90º C, with a hysteresis: 30 K ± 15 K

AT056-i: Analog adjustable thermostat (x2)

AT056-i

Model	Description
AT056-i	• Analog thermostat. • Temperature range: -10/90º C • Voltage: 230 V - 50 Hz • Maximum load current: 16 A • On/Off differential: 4º C • Sensor: Built-in the heater

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Technical characteristics

Model:	BFVIBC440010002000/TH2
Application areas:	Control and maintenance of the temperature of IBC tank 1.000 L (275 gal)
Power delivery at 230 V - 50 Hz:	2 x 1.000 W
Maximum working temperature:	90º C ± 5º C
Minimum working temperature:	- 40º C ± 5º C
Heating conductor:	Ni/Cr 80/20
Conductor insulation:	Thermal silicone double insulation
Maximum working temp. of the conductor:	- 40 / 180º C
Heating blanket insulation:	Siliconed fiberglass fabric
	100% Textured filament fiberglass
	Treatment: One side silicone translucent
	Weft: EC-9-136 Tex * 1
	Warp: EC-9-136 Tex * 1
	Tensile strength
	Weft: 5000N/5 cm
	Warp: 3000N/5 cm
	Total thickness of the heating blanket: 14 mm
	Fabric: Cross Twill
	Fire resistance: IMO Res. MSC.61(67) FTP - Cod
Approximate dimensions:	4.400 x 1.000 x 14 mm
Type of fastener device:	Nylon belts with plastick buckles
Dielectric strength:	1.500 V 1 min. ≥ 50GΩ
Power cable:	Cable 3 x 2,5 mm² H07RN-F
Standards:	2006/95/EEC
	2004/108/EEC
	CEI INTERNATIONAL IEC 1423-1
	CEI INTERNATIONAL IEC 1423-2
Safety sensor:	Thermal fuse 130º C
Thermostat:	AT056-i: -10 / 90º C | ±4º C | 16A | 230 V - 50 Hz | Acerinox bulb and capillary sensing

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IBC/tote tank-heaters

BFVIBC440010002000/TH3: Heating jackets for IBC tanks 1.000 L (275 gal)

- Three independent heating zones

BFVIBC

Model	IBC tank 1.000 Litres
Reference	BFVIBC440010002000/TH3
Length	4.400 mm
Width	1.000 mm
Power (W)	3 x 1.000 W
Voltage (V)	3 x 230 V
Temp. range	0 - 90º C
Fastening device	Nylon belts with plastick buckles

Important: The **BFV-IBC** line of heating jackets for 1.000 liter IBC/GRG tanks includes an adjustable thermostat with a temperature range of 0 to 90º C. It also includes a safety micro-thermostat with a tolerance of ± 5º C or a thermal fuse.

This heating jacket can reach a temperature of 90º C, with a hysteresis: 30 K ± 15 K

AT056-i: Analog adjustable thermostat (x3)

AT056-i

Model	Description
AT056-i	• Analog thermostat. • Temperature range: -10/90º C • Voltage: 230 V - 50 Hz • Maximum load current: 16 A • On/Off differential: 4º C • Sensor: Built-in the heater

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Technical characteristics

Model:	BFVIBC440010002000/TH3
Application areas:	Control and maintenance of the temperature of IBC tank 1.000 L (275 gal)
Power delivery at 230 V:	3 x 1.000 W
Maximum working temperature:	90º C ± 5º C
Minimum working temperature:	- 40º C ± 5º C
Heating conductor:	Ni/Cr 80/20
Conductor insulation:	Thermal silicone double insulation
Maximum working temp. of the conductor:	- 40 / 180º C
Heating blanket insulation:	Siliconed fiberglass fabric
	100% Textured filament fiberglass
	Treatment: One side silicone translucent
	Weft: EC-9-136 Tex * 1
	Warp: EC-9-136 Tex * 1
	Tensile strength
	Weft: 5000N/5 cm
	Warp: 3000N/5 cm
	Total thickness of the heating blanket: 14 mm
	Fabric: Cross Twill
	Fire resistance: IMO Res. MSC.61(67) FTP - Cod
Approximate dimensions:	4.400 x 1.000 x 14 mm
Type of fastener device:	Nylon belts with plastick buckles
Dielectric strength:	1.500 V 1 min. ≥ 50GΩ
Power cable:	Cable 3 x 2,5 mm² H07RN-F
Standards:	2006/95/EEC
	2004/108/EEC
	CEI INTERNATIONAL IEC 1423-1
	CEI INTERNATIONAL IEC 1423-2
Safety sensor:	Thermal fuse 130º C
Thermostat:	AT056-i: -10 / 90º C | ±4º C | 16A | 230 V - 50 Hz | Acerinox bulb and capillary sensing

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IBC/tote tank-heaters - IP65

BFVIBC440010002000/400/3: Heating jackets for IBC tanks 1.000 L (275 gal)

- Voltage: 3~400 V (triphasic)
- IP-65

BFVIBC

Model	IBC tank 1.000 litres
Reference	BFVIBC440010002000/400/3
Length	4.400 mm
Width	1.000 mm
Power (W)	2.000 W
Voltage (V)	3~400 V - Triphasic With or without neutral (consult)
Temp. range	0 - 60º C
Fastening device	Nylon belts with plastick buckles

Important: This model of heating jacket, from the **BFV-IBC** line for 1.000 liter IBC/GRG tanks, in addition to a **DP400** programmable digital thermostat, also includes an internal safety micro-thermostat with a tolerance of ± 5ºC, or a thermal fuse.

This heating jacket can reach a temperature of 60º C, with a hysteresis: 30 K ± 15 K

DP400: Programmable digital thermostat

DP400

Model	Description
DP400	• Programmable digital thermostat • Magnetothermic • Temperature range: -40/140º C • Voltage: 3~400 V (Triphasic) - 50 Hz • Connector: RSTN with grounding

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Technical characteristics

Model:	BFVIBC440010002000/400/3 - IP65
Application areas:	Control and maintenance of the temperature of IBC tank 1.000 L (275 gal)
Power delivery at 3~400 V:	2.000 W
Maximum working temperature:	60º C ± 5º C
Minimum working temperature:	- 20º C ± 5º C
Heating conductor:	Ni/Cr 80/20
Conductor insulation:	Thermal silicone double insulation
Maximum working temp. of the conductor:	60º C
Heating blanket insulation:	Outer cover: Waterproof polyester fabric AT 1100 Dtx
	Resistant to:
	• (UV) ultraviolet rays
	• rip 30 daN
	• traction 270 daN/5cms
	Fireproof: FR M2
Approximate dimensions:	4.400 x 1.000 x 20 mm
Type of fastener device:	Nylon belts with plastick buckles
Dielectric strength:	1.500 V 1 min. ≥ 50GΩ
Power cable:	Cable 5 x 1,5 mm² H07RN-F
Standards:	2006/95/EEC
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	CEI INTERNATIONAL IEC 1423-1
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Safety sensor:	----------
Thermostat:	Control board panel DP400

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IBC/tote tank-heaters

BFVIBC440010002800/400/3: Heating jackets for IBC tanks 1.000 L (275 gal)

• Voltage: 3~400 V (triphasic)

BFVIBC

Model	IBC tank 1.000 litres
Reference	BFVIBC440010002800/400/3
Length	4.400 mm
Width	1.000 mm
Power (W)	2.800 W
Voltage (V)	3~400 V - Triphasic With or without neutral (consult)
Temp. range	0 - 90º C
Fastening device	Nylon belts with plastick buckles

Important: This model of heating jacket, from the **BFV-IBC** line for 1.000 liter IBC/GRG tanks, in addition to a **DP400** programmable digital thermostat, also includes an internal safety micro-thermostat with a tolerance of ± 5ºC, or a thermal fuse.

This heating jacket can reach a temperature of 90º C, with a hysteresis: 30 K ± 15 K

DP400: Programmable digital thermostat

DP400

Model	Description
DP400	• Programmable digital thermostat • Magnetothermic • Temperature range: -40/140º C • Voltage: 3~400 V (Triphasic) - 50 Hz • Connector: RSTN with grounding

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Technical characteristics

Model:	BFVIBC440010002800/400/3
Application areas:	Control and maintenance of the temperature of IBC tank 1.000 L (275 gal)
Power delivery at 3~400 V:	2.800 W
Maximum working temperature:	90º C ± 5º C
Minimum working temperature:	- 40º C ± 5º C
Heating conductor:	Ni/Cr 80/20
Conductor insulation:	Thermal silicone double insulation
Maximum working temp. of the conductor:	- 40 / 180º C
Heating blanket insulation:	Siliconed fiberglass fabric
	100% Textured filament fiberglass
	Treatment: One side silicone translucent
	Weft: EC-9-136 Tex * 1
	Warp: EC-9-136 Tex * 1
	Tensile strength
	Weft: 5000N/5 cm
	Warp: 3000N/5 cm
	Total thickness of the heating blanket: 14 mm
	Fabric: Cross Twill
	Fire resistance: IMO Res. MSC.61(67) FTP - Cod
Approximate dimensions:	4.400 x 1.000 x 14 mm
Type of fastener device:	Nylon belts with plastick buckles
Dielectric strength:	1.500 V 1 min. ≥ 50GΩ
Power cable:	Cable 5 x 1,5 mm² H07RN-F
Standards:	2006/95/EEC
	2004/108/EEC
	CEI INTERNATIONAL IEC 1423-1
	CEI INTERNATIONAL IEC 1423-2
Safety sensor:	----------
Thermostat:	Control board panel DP400

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IBC/tote tank-heaters

IBC top lid *(optional)*: Top lid to complement the range of IBC / Tote tank heating blankets.

- Non-heating insulating element.

BFVIBC

Model:	Top cover
Application areas:	Top cover complement for 1.000 liter IBC / Tote heating blankets
Heating blanket insulation:	Siliconed fiberglass fabric
	100% Textured filament fiberglass
	Treatment: One side silicone translucent
	Weft: EC-9-136 Tex * 1
	Warp: EC-9-136 Tex * 1
	Tensile strength
	Weft: 5000N/5 cm
	Warp: 3000N/5 cm
	Total thickness of the heating blanket: 14 mm
	Fabric: Cross Twill
	Fire resistance: IMO Res. MSC.61(67) FTP - Cod
Approximate dimensions:	1.200 x 1.000 x 100 mm

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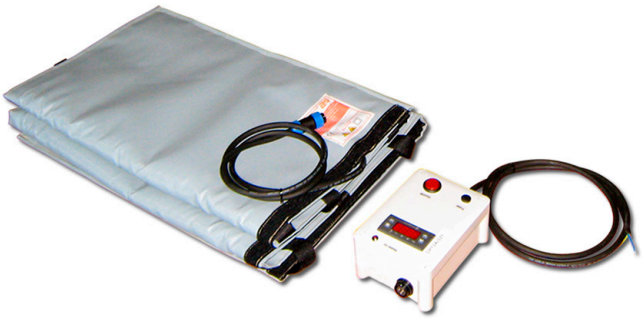
Our other heating blankets

BFV: Drum-heaters for 25, 50, 100 and 200 L. drums.
Learn more: https://www.elementoscalefactores.com/applications-en/drum-heaters-200L.htm

BFV-EM: Heating bands for electric motors.
Learn more: https://www.elementoscalefactores.com/aplicaciones-es/calentadores-motores.htm



BFV-AT: Heating blankets for high voltage cables.
Learn more: https://www.elementoscalefactores.com/applications-en/heating-blanket-HV-cables.htm

BFV-CC: Heating blankets for curing and hardening.
Learn more: https://www.elementoscalefactores.com/applications-en/heating-blankets-curing.htm

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