

GROUP 1

Immersion heaters, drums heaters and accessories

1.29 – Flexible silicone heating bands for drums — AFBS / AFAFS



FLEXIBLE SILICONE HEATING BANDS FOR DRUMS, “AFBS” RANGE

- The AFBS silicone heating bands are thin, light, water and ozone proof and allow you to heat surfaces metallic resistors could not heat easily.
- The AFBS silicone heating bands stick to the drum thanks to a system of elastic springs located on the ends. Thanks to its flexibility, the heating band adapts to the surface of the drum, thus improving on the performance of conventional clamps because it avoids the creation of air bubbles that act as thermal insulators.

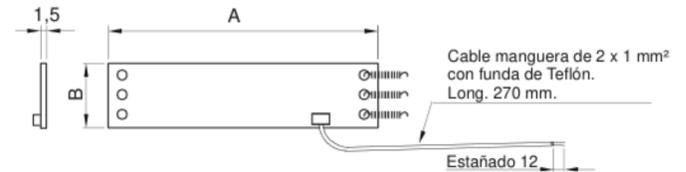
General characteristics

- Thermal range: Up to +180 °C under continuous regime. Overtemperature +230 °C in peaks.
- Standard voltage ~230 V
- Class II
- Thickness: between 0,7 mm and 1,5 mm.
- Tolerance: Up to 150 mm + 0,15 mm
Over 150 mm: ± 0,31 mm

Available Options

- Built-in thermocouples, thermostats and thermal fuses.
- Voltage: up to 480 V.
- Limit W/cm²: possibility of density load up to 5,5 W/cm² with the adequate applications and in controlled conditions.
- Optional: With an acrylic self-adhesive backing.
- Other materials: Fiberglass reinforced with insulating plastic (up to 135 °C)

Code	Safety thermostat fitted	Dimensions in mm		Watts	W/cm ²	Weight in Kg
		A	B			
AFBS001	NO	1700	110	800	0,47	0,50
AFBS001T	Sí - 90 °C	1700	110	800	0,47	0,50



“AFAFS” RANGE

- The AFAFS band heater due to their conception (resistive thread under vulcanized silicone), allow an extraordinary flexibility of use.
- The dimensions of the AFAFS bands cover most standard drums.
- The installation in drums of specific dimensions is possible due to the fixing system.



General characteristics

- Temperature range: +180 °C in continuous use.
- Adjustable thermostat 20 °C to 180 °C protected by silicone.
- Silicone connection cable 2000 mm long.
- Material support: Rubber, silicone plus fiber glass with laminated metallic iron strap.
- Class II.
- Standard voltage ~230 V

Code	Dimensions in mm (Wide x Length)	Suitable for Ø drum	Capacity	Watts	Weight in Kg
AFAFS20	96 x 850	275 / 300	20 Lts	400	0,50
AFAFS55	96 x 1100	295 / 355	55 Lts	750	0,65
AFAFS200	96 x 1700	550 / 600	200 Lts	1000	0,80

“AFHSSD” RANGE

- The AFHSSD silicone side drum heater is a simple and effective method of applying heat to drums and multiple units up to a maximum of three can be used to give quicker warm up times and higher product temperatures.

The AFHSSD is specifically designed for the melting or reducing the viscosity of soaps, fats, varnishes and oil based type products. It can also be used in conjunction with the AFBCB base drum heater to increase product heat up

- The heating element of the AFHSSD is PTFE coated and sandwiched between multiple layers of silicone coated glass fabric
- A simple spring and clip arrangement that ensures good surface contact with the drum.

General characteristics

- Standard voltage ~230 V
- Class II.
- Supply Lead: 1mm² Twin Core rubber insulated conductors – Neoprene sheathed
- Temp. Control: 20° to 120°C adjustable Capillary Thermostat.
- Heater Material: Silicone rubber / Glass fibre sheet – Double Insulated Construction

Code	Thermostat temperatura range	Drum capacity	Dimensions in mm		Watts	Weight in Kg
			Wide x Length	Heating length		
AFHSSD25	20 / 120 °C	25 Lts	125 x 800	690	300	0,80
AFHSSD50	20 / 120 °C	50 Lts	125 x 940	830	500	0,83
AFHSSD105	20 / 120 °C	105 Lts	125 x 1300	1125	800	1,0
AFHSSD200A	20 / 120 °C	200 Lts	125 x 1665	1490	1000	1,2
AFHSSD200B	20 / 120 °C	200 Lts	180 x 1665	1490	1000	1,5
AFHSSD200C	20 / 120 °C	200 Lts	180 x 1665	1490	1500	1,5



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1.30 – Insulation jackets for drums — AFCHA



INSULATION JACKETS FOR DRUMS. “AFCHA” RANGE

The AFCHA insulation jacket can be used in conjunction with all the drum heaters in the Electricfor range.

- When used with AFBCB and AFBS001T side drum heaters, it can be fitted during heating to reduce warm up time and increase the top range temperature attainable.
- When used with the AFBS, AFAFS and AFCCB side drum heaters, it can be fitted after heating to maintain the temperature for a longer period of time.

General characteristics

- Jacket made from a water resistant, flame reatrdant, polyurethane nylon.

Code	Drum capacity	Weight in Kg
AFCHA200	200 Lts	2,4



FLEXIBLE HEATING BLANKETS FOR DRUMS, AFCCB RANGE

The AFCCB side drum heaters are a simple and effective method of applying heat to drums. Four standard sizes are available for drums 25L, 50L, 105 Lts and the more common 200 Lts.

The AFCCB is specifically designed for use with plastic drums but can be used on any containers where delicate materials require gentle warming.

It can also be used in conjunction with the AFBCB base drum heater to increase product heat up. Non-standard sizes are also available upon request

AFCCB side drum heaters are specifically designed for the melting or reducing the viscosity of soap's, fats, varnishes and oil based type products.

All AFCCB heaters incorporate their own thermic insulation in order to increase thermic efficiency.

General characteristics

- Standard voltage: ~230 V
- 3 Meter Braided Power Cable.
- Class II
- Adjustable thermostat 0 / 90 °C. On demand with adjustable thermostat 0 / 40 °C.
- Outer jacket of nylon polyurethane. IP-40
- Flame-retardant polyester insulation.
- Quick release buckles for easy installation and removal.

Code	Temperature thermostat range	Drum capacity	Dimensions in mm			Watts	Weight in Kg
			Length	Wide	Heating length		
AFCCB25	0 / 90 °C	25 Lts	1020	400	870	200	3,3
AFCCB50	0 / 90 °C	50 Lts	1250	460	1100	250	4,0
AFCCB105	0 / 90 °C	105 Lts	1650	370	1500	400	5,3
AFCCB200	0 / 90 °C	200 Lts	1950	450	1800	450	6,3
AFCCB200B	0 / 90 °C	200 Lts	1950	800	1800	1200	12,0



FLEXIBLE HEATING BLANKETS FOR DRUMS, AFHTB RANGE

The AFHTB side drum heater has the same design and construction as the AFCCB but instead of polyurethane nylon as the jacket material, it uses a silicone impregnated glass cloth: up to 200 °C.

Four standard sizes are available – 25L, 50L, 105L and most popular the 200L.

All four sizes of drum heaters AFHTB have their own internal insulation to aid thermal efficiency.

AFHTB side drum heaters are specifically designed for melting or reducing the viscosity of products that require higher temperatures that can be achieved with the AFCCB type.

Designed to work in METALLIC drum.

General characteristics

- Standard voltage: ~230 V
- Class I
- 3 Meter Braided Power Cable.
- Degree protection against moisture IP40
- 20° to 220° C Thermostat.
- Silicone/Glass Fabric Jacket.
- Water resistant and a great variety of chemical agents.
- Attachment to the drum is by adjustable quick release buckles.
- Other sizes and ratings are also available upon request

Code	Temperature thermostat range	Drum capacity	Dimensions in mm			Watts	Weight in Kg
			Length	Wide	Heating length		
AFHTB25	20 / 200 °C	25 Lts	1020	400	870	380	3,3
AFHTB50	20 / 200 °C	50 Lts	1250	460	1100	450	4,0
AFHTB105	20 / 200 °C	105 Lts	1650	370	1500	700	5,3
AFHTB200	20 / 200 °C	200 Lts	1950	800	1800	1200	6,3



FLEXIBLE HEATING BLANKETS FOR DRUMS, RANGE AFHSP

Used to achieve product temperatures at multiple levels and up to 220 °C this jacket provides the industry standard for handling products such as waxes, soaps and materials with high water content.

The outer material of this heater not only performs in heating these solutions but can also specifically target applications for the chemical, acid and food handling.

Constructed with an outer layer of PTFE coated glass fabric the AFHSP has excellent thermal transfer properties and presents a great solution for maintaining consistent product temperatures of innumerable applications

General characteristics

- Standard voltage: ~230 V
- Degree protection against moisture IP40
- Cable supply HO7RN-F with 4000 mm long.
- Adjustable thermostat range 0/90 °C ó 20/200 °C.
- Jacket material. PTFE coated glass fibre cloth
- Insulation E-glass fibre blanket.
- High temperature polyester webbing with quick release adjustable buckles.
- The PTFE material is intended for use with all food stuffs, under any contact time and temperature conditions not exceeding the maximum operating temperature mentioned in each datasheet.
- PTFE Material: Regulatory statement for coated fabrics used in contact with food available on request

Code	Temperature thermostat range	Drum capacity	Dimensions in mm			Watts	Weight in Kg
			Length	Wide	Heating length		
AFHSP200	0 / 90 °C	200 Lts	1950	800	1800	1200	6,3
AFHSP200-220	20 / 220 °C	200 Lts	1950	800	1800	1200	6,3

Method of use for flexible heating blankets AFCCB, AFHTB and AFHSP

- Check the maximum temperature to which the fluid can be heated
- It is recommended that the unit be operated in a dry environment with the drum ventilated to avoid build up of internal pressure. If this circumstance is not possible, it is recommended to place a presostat that limits the pressure inside the drum. Consults our nº 927 Forcosa Division general catalogue.
- It is advisable that power to the drum heater be disconnected when the drum is either empty or being filled, or upon installation or removal of the heater itself

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1.32 – Base drum heater with adjustable thermostat — AFCCB



BASE DRUM HEATER WITH ADJUSTABLE THERMOSTAT. “AFBCB” RANGE

The AFBCB base drum heater is specially recommended for reducing viscosity in soaps, greases, varnishes and heavy oils. The baser diameter allows it to be used in all drums 200 Lts or higher. If the drums are plastic, in principle do not use, consult our Technical Dept.

The AFBCB base drum heaters are manufactured with a 900W silicone rubber insulated heater mat which provides an even distribution of heat to the plate.

If rapid heat up is required and the contents will accept heat rapidly, or solid medium is involved a AFBS, AFABS and AFCCB side drum heater can be used in conjunction with the AFBCB; alternatively a thermally insulated jacket can be used.

The AFBCB is made from 2mm thick mild steel for extra rigidity on uneven surfaces with tapered edges for safe use of drum location and is protected by a resilient high temperature coating. Temperature adjustment through a front aperture in the control unit, with the LED indicating power on and load switching. The base drum heater is controlled by a 20° to 150°C capillary thermostat.

General characteristics

- Standard voltage: ~230 V
- Power: 900 W
- Insulation: 50 mm High-density rock wool
- Adjustable thermostat 20 / 150 °C with ON/OFF LED indicator.
- Supply Lead: 2 Metres flexible armoured SY type 3 -core cable
- Weight: Approximately 15 Kg
- Dimensions

Dimensions:

- Plate
 - Base Ø600 mm
 - Diameter top 550 mm
 - Height 70 mm
- Control unit
 - Protrusion 280 mm
 - height 105 mm
- Overall unit
 - wide 600 mm
 - Length 880 mm
 - Height 105 m

Code	Volts	Watts	Wight in Kg
AFBCB001	~230	900	15,0

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1.33 – 1000 Lts intermediate bulk container heaters — HIBC



IBC TYPE 1000 Lts INTERMEDIATE BULK CONTAINER HEATERS. HIBC MODELS

HIBC container heaters are designed to heat products stored in 1000 Litre intermediate bulk containers.

HIBC/A Model

HIBC/A is a silicone mat heater for placement below the container liner before filling. An insulation jacket covering four sides and the lid is also available to aid warm up time. Control is via a 0° C to 90° C Digital Thermostat housed in an enclosure along with a residual current device

General characteristics HIBC/A model

- Standard voltage: ~230 V
- Degree protection against moisture IP55
- A PTC temperature sensor is also embedded between the sheets. It provides accurate measurement and fast response to temperature changes.
- 20°C-90°C Electronic Controller (Digital Readout). Also is possible with 0 / 40 °C electronic controller
NOTE: The electronic controller is supplied independent from the heater.
- The insulation jacket is not part of the HIBC/A silicone heater mat and has to be ordered as an extra, if required.
- Performance: Water temp. from 15°C to 70°C in 42 hours (NO Insulation Jacket)
Water temp. from 15°C to 70°C in 30 hours (WITH Insulation Jacket)

Insulation jacket HIBC/A characteristics

- Jacket made from a water resistant, flame retardant, polyurethane nylon.
- Quick release buckles for easy installation and removal.

NOTE: Is important determine the exact dimensions of the container in case of order.

Code	Description	Dimensions in mm		Volts	Watts	Weight in Kg
		Wide	Length			
HIBC/A	HEating element	850	1035	~230 V	2700 W	
HIBC/A-CHA	Insulation jacket	1000	4400	--	--	
HIBC/A-REG	0 / +90 °C Electronic controller			~230 V	--	

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1.33 – 1000 Lts intermediate bulk container heaters — HIBC



HIBC/B Model

The HIBC/B insulated nylon heater jacket has a heating element stitched into an insulated jacket made from a water-resistant, flame retardant, polyurethane nylon, insulated with a double layer of flame retardant needled polyester. The jacket has two separate heating circuits for its upper and lower halves; each circuit is controlled by an integral capillary thermostat.

General characteristics HIBC/B model

- Standard voltage: ~230 V
- Degree protection against moisture IP51
- -5 / 40 °C Adjustable thermostat per circuit. Optionally with +20 / +90 °C adjustable thermostat.
- With release buckles for ease of installation and removal.
- Insulated jacket made from a water-resistant, flame retardant, polyurethane nylon
- Insulated with a double layer of flame retardant needled polyester.
- Performance:
Water temp. from 15°C to 55°C in 56 hours (NO Insulation Lid)
Water temp. from 15°C to 80°C in 56 hours (WITH Insulation Lid)

Code	Description	Temperature thermostat range	Dimensions in mm		Volts	Watts	Weight in Kg
			Wide	Long			
HIBC/B	Heater jacket with insulated lid	-5 / +40 °C	1000	4400	2 x ~230 V	2 x 1000 W	19



Heating blanket for IBC containers

The IBC drum and container heater is the perfect solution when it comes to heating fluids and materials quickly and efficiently, making them very easy to empty with minimal or no product residue.

The IBC heater comes with a 1-zone thermostat. The thermostat is adjustable from 0 to 90°C, making the heater fast and safe for heating liquids and maintaining the desired viscosity for the contents in the container. The heaters are designed with a durable high quality lightweight design.

Its construction, together with the quick-release adjustable buckles, make the leg warmers easy to mount and/or remove.

General characteristics

- Polyester insulating jacket
- Silicone insulated heating element
- Adjustable fastening buckles for quick and easy installation
- Performance:
Water heating from 15°C to 50°C in 48 hours (WITH insulation cap)
- 3 meter long power cable (without plug)
- Degree of protection against moisture IP40
- 1 heating zone of 2000 W
- Adjustable thermostat from 0 / 90 °C
- Built-in insulation cap

Applications:

- Water.
- Oil
- Diesel oil.
- Resin.
- Vaseline.
- Wax
- fats.

Code	Description	Temperature thermostat range	Dimensions in mm		Volts	Watts	Weight in Kg
			Wide	Long			
3329110000	Manta calefactora con tapa aislante	0 / +90 °C	1000	4400	~230 V	2000 W	19

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1.34 – 1000 Lts intermediate bulk container immersion heaters — SIBC



"L" SHAPE HEATERS for intermediate and bulk containers

General characteristics

- Connection box in polyamide, with IP-66 degree of protection against humidity.
- AISI 316L stainless steel tube Ø10 mm.
- Adjustable bulb thermostat 0/90 °C with automatic reset
- Ø200mm round plate to hold the resistance at the inlet mouth
- Normalized voltage ~230 V

On request: Other dimensions, voltages and powers.

Manufactured in Titanium tube Ø 10mm, Incoloy-825 Ø10mm or austenitic stainless steel alloy 254-SMO in Ø12.5mm

Code	Watts	Volts	W/cm ²	Tube material	Dimensions in mm			Electricfor's constructive thermic class	Peso en Kg
					L	LC	Passes through Ø		
SIBC1,8	1800 W	~230 V	2,5	AISI 316L	900	480	Ø50	T-601-S	