



Drum and Gas Bottle Heaters

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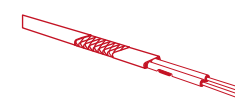
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The latest IT, planning and testing systems ensure quality and timely manufacturing processes.

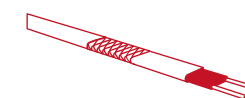
In close collaboration with the customers, eltherm develops individually tailored solutions, supporting them when planning, proposing and assembling electrical heating systems. A perfected, high-quality product program enables eltherm to find the most reasonable economical solution for you.

Our results are convincing.

Further documents are available with information about our high quality-products



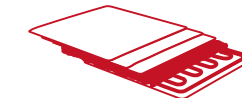
Heating Cables /
Heating Tapes



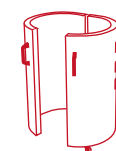
Self-regulating
Heating Cables



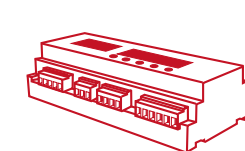
Heated Hoses



Heating Mats
Heating Jackets



Special Heating
Systems



Measurement
and Control

Drum Heating Jacket

with high Flexibility

The ELBH drum heating jackets are ideally suited for use where process media have to be heated up or kept warm in 200 litre stand-ard drums. Warming a liquid reduces its viscosity, thereby facilitating pumping and filling operations. It also prevents crystallisation and flocculation. Solids can be liquefied.

Thanks to their design ELBH drum heating jackets provide uniform heat distribution on the drum providing high flexibility of use. The integrated controller simplifies the handling. A hook and spring fastening arrangement makes it easy to assemble and to remove the jacket.

Advantages:

- Flexible use
- Integrated controller
- Improved pumping and filling operations
- Prevents crystallisation and flocculation of liquids
- Physical contact with the drum
- Compact packaging size

Applications:

- Foodstuffs
- Automotive
- Fats
- Soaps
- Chemicals
- Varnishes

Type ELBH



Technical Information Type ELBH

Material	Silicone rubber, glass fibre reinforced
Fastening	Stainless steel hooks with springs
Power cable	2 m, without plug
IP rating	IP 40
Thermostat 0 – 120 °C, included	
Protective conductor, included	

Type	Dimensions (mm)	Wattage (W)	Voltage (V) *	Drum size (l)	Temperature range	Operating temperature, max.	Art. No.
ELBH-300	125 x 800	300	230	25	0 - 120 °C	180 °C	0721103
ELBH-500	125 x 940	500	230	50	0 - 120 °C	180 °C	0721105
ELBH-800	125 x 1300	800	230	105	0 - 120 °C	180 °C	0721108
ELBH-1000	125 x 1665	1000	230	200	0 - 120 °C	180 °C	0721110
ELBH-1500	180 x 1665	1500	230	200	0 - 120 °C	180 °C	0721115

*also available for 110 V.

Drum Heating Jacket

Dimensionally Stable, for 200 l Drums

ELPW drum heating jackets are ideally suited for use where process media have to be heated up or kept warm in 200 litre standard drums. Warming a liquid reduces its viscosity, thereby facilitating pumping and filling operations. It also prevents crystallisation and flocculation. Solids can be liquefied. These heating jackets provide efficient heat transfer thanks to their design and the physical contact with the drum. They prevent heat accumulation, thereby protecting the drum content from damages resulting from heat. Quick-release fasteners simplify assembly and removal. Moreover, the metal sheet shell protects the heating element against damages. The heating jacket ELPW-200I can either be used individually with a control unit or together with two other heating jackets ELPW-200I-E which can be connected to it.

Advantages:

- Uniform temperature across the drum
- Prevents heat accumulation
- Improved pumping and filling operations
- Prevents crystallisation and flocculation of liquids
- Efficient heat transfer through physical contact with the drum

Applications:

- Foodstuffs
- Automotive
- Fats
- Soaps
- Chemicals
- Varnishes

Type **ELPW-200I / ELPW-200I-E**



Technical Information Type ELPW-200I

Material	Glass fibre with siliconized cover fibre, outer shell made of galvanized metal sheet, quick-release fasteners
Nominal temperature	180 °C
IP rating	IP54
Power cable	2 m silicone power cable with plug, suitable to ELPW-200 I
Excess temperature switch, 180 °C, latch type, incl.	
Thermal safety degree according to EN 60519-1 and -2 with the controls specified	
For use together with Art. No. 0710006 only!	

Technical Information Type ELPW-200I-E

Material	Glass fibre with siliconized cover fibre, outer shell made of galvanized metal sheet, quick-release fasterns
Nominal temperature	180 °C
IP rating	IP54
Power cable	2 m silicone power cable
Suitable controls	ELTC/H1-14 (Art. No. 0620001) or ELT-GP1-H16 LED (Art. No. 0611023)
7-pole plug to fit the control, included	
2 bushings to connect other heating mats, type ELPW-200I-E, included	
Temperature sensor Pt100 incl.	
Excess temperature switch, 180 °C, latch type, incl.	
Thermal safety degree according to EN 60519-1 and -2 with the controls specified	

Type	Dimensions (mm)	Wattage (W)	Voltage (V)	Drum size (l)	Art. No.
ELPW-200I	580 x 250	1000	230	200	0710006
ELPW-200I-E	580 x 250	1000	230	200	0710007

Drum Bottom Heaters

for 200-litre Standard Drums

ELBO drum heaters are ideally suited for use where process media have to be heated up or kept warm in 200 litre standard drums. Warming a liquid reduces its viscosity, thereby facilitating pumping and filling operations. It also prevents crystallisation and flocculation. Solids can be liquefied. These heaters provide a reliable, space-saving solution for the uniform heating of a drum. ELBO floor-standing heaters can be used in conjunction with ELFH gas cylinder heaters.

It is of course possible to produce individual solutions according to the customer's wishes – just ask us.

Advantages:

- Reliable and space-saving
- Can be used in conjunction with ELFH drum heaters
- Prevents crystallisation and flocculation of liquids

Applications:

- Foodstuffs
- Glues
- Fats, oils
- Soaps
- Waxes, resins
- Chemicals
- Paints, varnishes

Type **ELBO-1500**



Technical Information Type ELBO-1500

Material	Metal sheet
Heating element	Integrated heating element
Insulation	60 mm mineral wool
Power cable	1.5 m long with CEE plug
Control	Capillary tube thermostat (or equivalent upon request)
Control range	50-300 °C
Thermal safety	class 0
Ambient temperature	0 °C up to +60 °C
IP rating	IP 52
Weight	Approx. 15 kg
Finish	Gentian-blue, RAL 5010, heating surface: black

Type	Diameter (mm)	Height (mm)	Wattage (W)	Voltage (V)	Drum size (l)	Temperature range	Art. No.
ELBO-1500	550	80	1500	230	200	50 - 300 °C	0720005
ELBO-1500	550	80	1500	400	200	50 - 300 °C	0720010

Drum Heaters on Casters

ELFH drum heaters are ideally suited for use where process media have to be heated or kept warm in 200 litre standard drums. Warming a liquid reduces its viscosity, thereby facilitating pumping and filling operations. It also prevents crystallisation and flocculation. Solids can be liquefied. The drum heater is on casters and can be fitted around the drum quickly and easily using the convenient hand-grips, and is easy to close using the practical quick-release fastener. The mounted handles are dimensioned to allow operation while wearing protective gloves. To minimise heat loss and to shorten heating time, an optional insulated cover is also available. It is of course possible to produce individual solutions according to the customer's wishes – just ask us.

We also provide versions for use in hazardous areas.

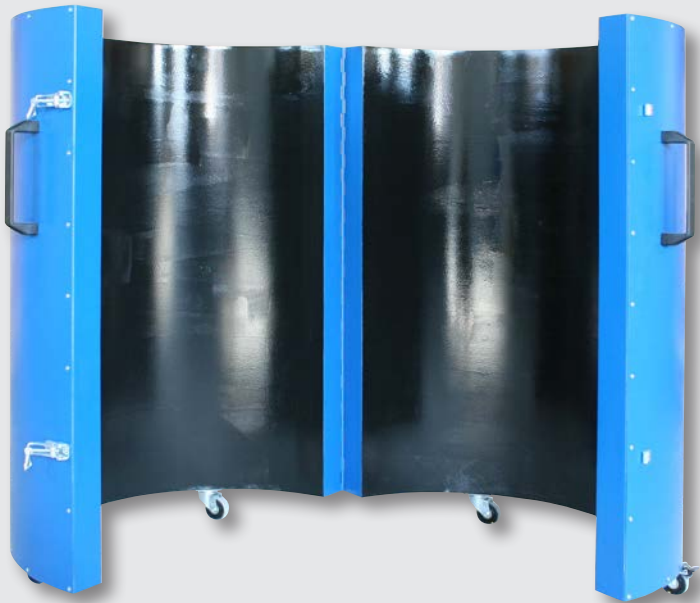
Advantages:

- Reliable and space-saving
- Optimum insulation for minimum outward heat loss
- 4 casters, 2 fitted with brakes
- Practical quick-release fastener
- Prevents crystallisation and flocculation of liquids

Applications:

- Foodstuffs
- Adhesives
- Fats, oils
- Soaps
- Waxes, resins
- Chemicals
- Paints, varnishes

Type **ELFH**



Technical Information Type **ELFH**

Material	Metal sheet casing
Fastening	Quick-release fasteners
Heating element	PTFE insulated
Insulation	60 mm mineral wool WLG 035
Power cable	1.5 m long with CEE plug
Control	Capillary tube thermostat (or equivalent upon request)
Control range	50 – 300 °C
Thermal safety	Class 0
IP rating	IP 52
Ambient temperature	-25 °C up to +60 °C
Weight	Approx. 50 kg
Finish	Gentian-blue, RAL 5010, inner surface: black

Type	Designation	Art. No.
ELID-1	Insulated cover	0720060
ELID-2	Insulated cover, with suction hole	0720065
ELID-3	Insulated cover, split design, with suction hole	0720070

Type	Inner dia. (mm)	Outer dia. (mm)	Height (mm)	Wattage (W)	Voltage (V)	Drum size (l)	Temperature range	Art. No.
ELFH-3200	650	780	975	3200	230	200	50 - 300 °C	0720025
ELFH-4000	650	780	975	4000	400	200	50 - 300 °C	0720040

Drum Heaters

for Hazardous Areas



ELFH drum heaters are ideally suited for use where process media have to be heated or kept warm in 200 litre standard drums in a potentially explosive atmosphere. Warming a liquid reduces its viscosity, thereby facilitating pumping and filling operations. It also prevents crystallisation and flocculation. Solids can be liquefied. These heaters provide a reliable, space-saving solution for the uniform temperature across the drum. The drum heater is on casters and can be fitted around the drum quick and easy using the convenient hand-grips, and is easy to close using the practical quick-release fastener. The mounted handles are dimensioned to allow operation while wearing protective gloves. To minimise heat loss and to shorten heating time, an optional insulated cover is also available. It is of course possible to produce individual solutions according to the customer's wishes – just ask us.

Advantages:

- Reliable and space-saving
- Optimum insulation for minimum outward heat loss
- 4 casters, 2 fitted with brakes
- Practical quick-release fastener
- Prevents crystallisation and flocculation of liquids

Applications:

- Foodstuffs
- Power stations (nuclear power plants)
- Greases, oils
- Soaps, adhesives
- Waxes, resins
- Chemicals
- Paints, varnishes

Type ELFH-2600-Ex



Technical Information Type ELFH-2600-Ex

Hazardous area category	II 2G Ex ed IIB T4 Gb II 2D Ex tb IIIC T135°C Db
Certificates	IBExU04 ATEX 1005X, PTB 09 ATEX 1029 U, IBE-xU03 ATEX 1130 X
Operating temp. max.	80 °C
Thermal safety	Class 2
IP rating	IP 65 (controller, heating cable connectors), IP 52 (sheet metal enclosure)
Ambient temperature	-25 °C up to +60 °C
Weight	Approx. 60 kg
Finish	Gentian-blue, RAL 5010, inner surface: black

Type	Designation	Art. No.
ELID-1	Insulated cover	0720060
ELID-2	Insulated cover, with suction hole	0720065
ELID-3	Insulated cover, split design, with suction hole	0720070

Type	Inner dia. (mm)	Outer dia. (mm)	Height (mm)	Wattage (W)	Voltage (V)	Drum size (l)	Temperature control	Classification	Art. No.
ELFH-2600-Ex	650	780	975	2600	230	200	controller 30-85 °C limiter +100 °C factory preset	II 2G Ex ed IIB T4 Gb II 2D Ex tb IIIC T135°C Db	0720021

For 200l standard drum. Consisting of the cylindrical metal sheet enclosure, mobile and folding type (quick-release fasteners). All Ex-relevant components with ATEX approval for potentially explosive atmospheres; manufacturer's declaration on compliance with all requirements of type examination certificates for the final product are available.

Heaters for Gas Bottles

in Standard Sizes

ELFL gas cylinder heaters are ideal for controlling temperature and stabilising pressure in gas bottles. It is necessary to heat cylinders until they are completely empty, particularly in the case of higher value gases. In many areas of use, keeping the cylinder's contents free of ice is also an important aspect. For quick and easy use, the appliances are hinged, and fitted with a quick-release fastener and handles.

It is of course possible to produce individual solutions according to the customer's wishes – just ask us. Versions for use in a potentially explosive atmosphere are also available, if required.

Advantages:

- Ensures optimum working temperature for all processes
- Quick and easy to use
- High-quality insulation for energy-efficient use
- Possible for application in Ex areas

Applications:

- Propane
- Nitrogen
- Sulphur hexafluoride SF6
- Oxygen
- Tungsten hexafluoride WF6
- Hafnium Hf
- Boronchloride Cl3

Type **ELFL**



Technical Information Type ELFL

Material	Metal sheet
Heating element	Fluoropolymer insulated
Insulation	50 mm mineral wool
Fastening	Quick-release fasteners
Power cable	1.5 m long with CEE plug
Control	Capillary tube thermo controller, capillary safety tube thermo limiter (or equivalent upon request)
Thermal safety	Class 2
Ambient temperature	-20 °C up to +60 °C
IP rating	IP 52
Weight	Approx. 19 kg
Finish	Gentian-blue, RAL 5010, heating surface: black

Type	Diameter (mm)	Height (mm)	Wattage (W)	Voltage (V)	Bottle size (l)	Temperature control	Art. No.
ELFL-10	146	750	350	230	10	controller 0 - 50 °C limiter 20 up to 150 °C	0722010
ELFL-20	210	750	430	230	20	controller 0 - 50 °C limiter 20 up to 150 °C	0722020
ELFL-40	210	1345	840	230	40	controller 0 - 50 °C limiter 20 up to 150 °C	0722040
ELFL-50	235	1350	1000	230	50	controller 0 - 50 °C limiter 20 up to 150 °C	0722050



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