

Bulk-Heaters for IBCs, Drums, Hobbocks, Buckets & Gas Bottles



1. IBC-Heaters
2. Drum Heaters
 - 2.1 Drum Heaters
 - 2.2 Drum Heating Bands
 - 2.3 Base Drum Heaters
3. Gas Bottle Heaters
4. Unique Selling Points
5. Examples of Customized Heaters
6. Your contact

IBC-Heater

Tmax 90 °C



Technical features

- Each heating circuit with 2x Pt100 + Bi-metal switch
- NEW: Controller/Monitor L-430
- 1 or 2 Heating zones
- Appliance class II (optional I)
- Robust for industrial usage
- Optional: Insulation lid ('required')
- One-man handling

ATEX IBC-Heater

Tmax 200 °C



Technical features

- ATEX EC - Type Examination Certificate for zones 1/2 (gas) and 2/2 (dust)
- Temperature control via ATEX controller/limitor
- Appliance class I (with protective conductor braiding)
- IP65

Drum Heater Tmax 90 °C



Technical features

- NEW: Controller/Monitor L-430
- 2x Pt100 + Bi-metal switch
- **Appliance class II** (optional I)
- Optional: Insulation lid
- One-man handling
- Incl. insulation
- IP54

Drum Heater Tmax 200 °C



Technical features

- NEW: Controller/Monitor L-430
- 2x Pt100 + Bi-metal switch
- **Appliance class I**
- Optional: Insulation lid
- One-man handling
- Incl. insulation
- IP54

ATEX Drum Heater Tmax 200 °C

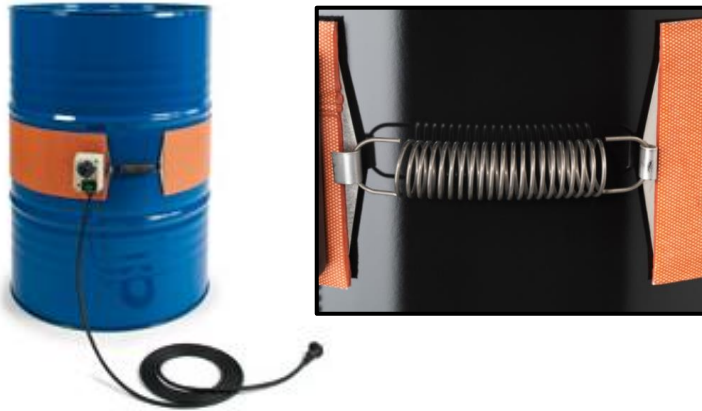


Technical features

- ATEX EC –
Type Examination Certificate
for zones 1/2 (gas) and 2/2 (dust)
- Temperature control
e.g. via ATEX controller/limitor
- Appliance class I (with protective
conductor braiding)
- IP65

Silicone Heating Band

Tmax 120 °C



Technical features

- Safety-Capillary Thermostat
- High power and heat transfer
- Appliance class II
- IP40

PTFE-coated Heating Band (200 l)

Tmax 200 °C



Technical features

- NEW: Controller/Monitor
- 2x Pt100 + Bi-metal switch
- **Appliance class I**
with protective conductor braiding
- IP54

Remark: all heaters except the Silicone Heating Band are silicone-free !

2.3 Base Drum Heater (200 L)

Tmax 150 °C



Technical features

- NEW: Controller/Monitor L-430
- 2x Pt100 + Bi-metal switch
- **Appliance class I**
- Light weight design
- Easy handling – Blade design
- **Remark:** good combination with drum heaters, for quicker heat-up process

Gas Bottle Heaters 50 °C (Tmax 90 °C)



Technical-Features

- NEW: Controller/Monitor L-430
- Magnetical surface sensor
- 2x Pt100 + bi-metal switch (USP)
- **Appliance class I**
- Incl. insulation
- IP54

ATEX Gas Bottle Heaters 50 °C (Tmax 200 °C)



Technical-Features

- ATEX EC - Type Examination Certificate for zones 1/2 (gas) and 2/2 (dust)
- Temperature control via ATEX controller/limitor
- Appliance class I (with protective conductor braiding)
- IP65

Advantages

- Far cheaper than a heating chambers
- One-man handling of [bulk heaters](#) jackets
- Light weight heating systems: 'Heating at the spot' of production
- Industrial design of heating mantles and controllers for long endurance
- Delivery from stock

Unique Selling Points

- High security standard through combination of 2x Pt100 and Controller/Monitor (L-430)
- Long-life Controller can be disassembled and reused with new heating mantles
- For higher electrical safety: Appliance class I (series WODT, WOBP included or on request)

On top

- Customized- or OEM-design in a time frame of 3 – 6 week

Advantages

- Plug & Play Temperature Controller/Monitor
- Easy assembling via hook & loop fastener and multiple socket
- Intuitive and secure two bottom handling
- Options to order: limiter function, individual set-point range, etc.



Unique Selling Points

Long-life Controller (>> 2,5 Mio. switching cycles)

Options to use with standard L-430:

Medium-sensor (900 mm) + bungee hole adapter

→ for faster Heat-up time

or exact temperature measurement inside

Optional Controllers:

- WRW730 – additional safety & options
- WRL330 – robust & economical



5. Impression of Customized Heaters





Michael Walter
Head of Sales Division
Drum and Laboratory Heaters,
Temperature Controllers

Telephone: +49-6221-3646-15
Mobile: +49-151-1086-6566

Winkler AG
Englerstrasse 24
69126 Heidelberg
Germany

Telephone: +49-6221-3646-0

sales@winkler.org
www.winkler.org