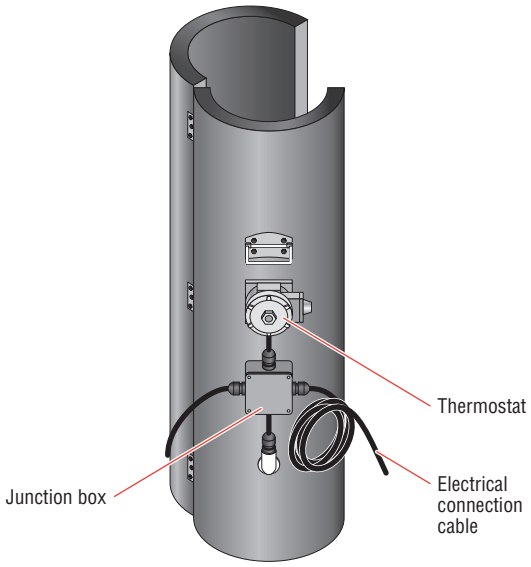
Hazardous area gas bottle heaters

Gases today are usually supplied in metal bottles and whilst the removal of the gas is no problem in many applications, in the case of higher-quality gases the cylinder needs to be heated to guarantee complete removal of all of the gas. The heaters keep the bottles free from ice, maintain a constant pressure within the bottle, and enable the gas to be kept at an optimum processing temperature.

In hazardous area conditions additional safety is recommended.
These gas bottle heaters are designed to control gaseous media within their classified area and temperature class. These heaters are fully component approved according to the latest standards of ATEX. They can be used in hazardous or nonhazardous, ordinary areas.

A solid metal housing provides full protection against external forces. Self regulating heating cables ensure safe operation within the several temperature classes additionally controlled by a mechanical thermostat for maintaining individual required gas temperature. Quick-snap fasteners and castors provide ease of installation around the gas bottle.



Area Specifications	
Area classification	Hazardous area
Zone	Gas 1, 2 Dust 21, 22
Temperature class	T2, T4, T6
Ingress protection	IP6X (IP65)
Electrical protection class	Class I
Ambient temperature range	–40 to +50°C

Certifications	
Approvals	component approval
Number of certificate	0598
Marking	Ex II GD Ex de IIC T2 ... T6 Ex tD A21 IP6X T240°C ... T80°C
Norms	EN, IEC Standard

Standard Manufacturing Sizes	
Height	750, 1130, 1350, 1400 mm
Inner diameter	150, 214, 239, 328 mm
Outer diameter	250, 314, 339, 428 mm
Other dimensions available on request	

Heater Construction	
Type	Self-regulating heating cable
Carrier	Sheet metal steel
Material of thermal insulation	Glass-fibre
Thickness	40 mm
Outer protection	Sheet metal steel
Paint	Matt black heat resistant and structured blue paint
Fixation and closure type	Quick-snap fastener

Connection	
Junction box (type)	STAHL Series 8118
Ingress protection	IP66
Maximum ambient temperature	–50 to +55°C
Maximum connecting cross section	4 mm²
Terminals	8
Glands	4 x M25
Housing material	Polyester glass-fibre reinforced
Connection lead length	2 m
Lead cross section	4 mm²
Maximum operating temperature	180°C
Connection lead insulation material	Silicone

Temperature Control	
Thermostat (type)	RAYSTAT-EX-02
Sensor type	Capillary tube
Controller range	–4 to +163°C
Ingress protection	IP65
Maximum ambient temperature	–40 to +60°C
Housing material	Aluminium

Technical Data	
Frequency	50-60 Hz
Maximum operating voltage	277 Vac (~1ph)
Maximum operating temperature	65 to 120°C (depends on heating cable type and temperature class)
Operating voltage and power output depending on design	

Options

Design with other housing materials (e.g. stainless steel)
Alternative junction box type JBU-100-L-E with signal lamp for operating status (ON/OFF)

Ordering Information

Part number	For standard sizes (Ltr)	Height[1] (H) (mm)	Inner diameter[1] (ID) (mm)	Outer diameter[1] (OD) (mm)	Nominal power[2] (W)	Nominal voltage (Vac)	Weight (kg)
1235-08250101	10	750	150	250	630	230	14
1235-08250102	10	750	150	250	640	230	14
1235-08250103	10	750	150	250	290	230	14
1235-08250201	20	750	214	314	820	230	18
1235-08250202	20	750	214	314	830	230	18
1235-08250203	20	750	214	314	380	230	18
1235-08250401	40	1400	214	314	1550	230	30
1235-08250402	40	1400	214	314	1570	230	30
1235-08250403	40	1400	214	314	710	230	30
1235-08250501	50	1350	239	339	1490	230	32
1235-08250502	50	1350	239	339	1510	230	32
1235-08250503	50	1350	239	339	680	230	32
1235-08250801	79	1130	328	428	1510	230	37
1235-08250802	79	1130	328	428	1540	230	37
1235-08250803	79	1130	328	428	700	230	37

(1) Tolerances according to DIN ISO 2768 c
(2) Tolerances ±10% at 230 Vac and +10°C



CONTACT

CHROMALOX GERMANY
Chromalox Isopad GmbH
Englerstrasse 11
D-69126 HEIDELBERG
GERMANY
Tel.: +49 6221 3043-0
Fax: +49 6221 3043-956
isopad.info@chromalox.com

CHROMALOX USA
Chromalox
103 Gamma Drive
Pittsburgh, PA 15238
USA
Tel.: +1 967-3800
Fax: +1 967-5148
sales@chromalox.com

www.chromalox.com
isopad.info@chromalox.com

CHROMALOX ISOPAD

Management System
ISO 9001:2015
ISO 14001:2015

www.tuv.com

Our products satisfy the requirements of the relevant European Directives.

0598

10/2021