

## ATEX industrial heating jacket series WHI



These heating jackets are specifically designed for use in potentially explosive atmosphere and are employed in many areas in the pharmaceutical, chemical and metal recycling industries.

| Features                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Structure |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| <ul style="list-style-type: none"> <li>• Heating using explosion-proof mineral insulated heating cable</li> <li>• Heating cable is secured with mounting clips to the carrier basket to prevent shifting</li> <li>• Four eyebolts (M12, L=100 mm) for mounting the heating jacket</li> <li>• Outer jacket made of antistatic black PTFE material with a high chemical and mechanical resistance</li> <li>• ATEX terminal boxes (power and sensors) fixed on the outside</li> <li>• Two built-in PT100 temperature sensors (for controller and limiter)</li> <li>• Extensive documentation for the explosion protection document according to §6 para. 9 of the German Ordinance on Hazardous Materials (GefStoffV)</li> </ul> |           |
| Explosion protection marking                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |
| <p><b>Marking</b></p> <p>Gas  II 2G Ex eb IIC T6...T1 Gb</p> <p>Dust  II 2D Ex tb IIIC T450°C Db</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |
| <p><b>EC-type examination certificates</b></p> <p>MI heating cable      BVS 12 ATEX E 041 U</p> <p>Terminal boxes        EPS 09 ATEX 1 237</p> <p>PT100 sensor          SEV 13 ATEX 0197</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |

| Specifications                      |                                                                      | Dimensions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |              |                                                        |
|-------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------|--------------------------------------------------------|
| Nominal voltage                     | 230 VAC <sup>1</sup>                                                 | <b>Volume</b> <sup>3</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Flask Ø</b> | <b>Power</b> | <b>Base opening Ø</b>                                  |
| Max. operating temperature          | +450 °C                                                              | 10 l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 280 mm         | 1250 W       | standard: 60 mm<br><br>to be specified if non-standard |
| Temperature class                   | T6...T1                                                              | 20 l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 350 mm         | 2000 W       |                                                        |
| Electrical connection               | terminal boxes for network (EX-e) / sensor (EX-i)                    | 50 l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 490 mm         | 3500 W       |                                                        |
| Protection degree/ Protection class | IP65 / I                                                             | 100 l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 610 mm         | 5000 W       |                                                        |
| Zones                               | 1/2 (gas); 21/22 (dust)                                              | 200 l                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 750 mm         | 6000 W       |                                                        |
| Sensor Pt100 (EX-i) (optional EX-e) | standard: 2<br>optional: 3, 4, 5...                                  | <p><b>Important note:</b></p> <p>The outer diameter of the glass flask may vary depending on the manufacturer. The outer diameter of the glass flask must correlate with the inner diameter of the heating jacket, otherwise it will not sit properly and may be damaged.</p> <p>Use only temperature control devices certified and approved for ATEX zones. An earth leakage circuit breaker (RCD/ELCB) should be used in the electric circuit to which the heating jacket is connected.</p> |                |              |                                                        |
| Heating zones <sup>2</sup>          | 1 heating zone: 10 l / 20 l / 50 l<br>2 heating zones: 100 l / 200 l |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |              |                                                        |
|                                     | <p>1 heating zone      2 heating zones</p>                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |              |                                                        |

<sup>1</sup> Other nominal voltage upon request

<sup>2</sup> More heating zones upon request

<sup>3</sup> Other volumes on request