

Declaration of Performance (DOP)

No. 9174 085 DOP 2021-03-30

1. Unique identification code of the product-type:

Multi-wall chimney system type DW-POWER according to EN 1856-1:2009

2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):

Double wall chimney system type DW-POWER with 57.5 mm heat insulation¹⁾

| | | |
|----------------|--------------------------|---|
| Model 1 | DN (100- 300) | T600 – H1 – D – V2 – L50050 – O50 |
| Model 1 | >DN (300- 450) | T600 – H1 – D – V2 – L50050 – O75 |
| Model 1 | >DN (450- 600) | T600 – H1 – D – V2 – L50050 – O100 |

¹⁾ Manufacturer product identification DW-POWER

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Convey the products of combustion from heating appliances to the outside atmosphere

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):

**Jeremias GmbH**
ABGASTECHNIK
Opfenrieder Straße 12
DE-91717 Wassertrüdingen
Tel.: +49 9832 68 68 0
Fax: +49 9832 68 68 68
Email: info@jeremias.de

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

not applicable

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:

System 2+ and System 4

7. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

Notified factory production control certification body no. 0036 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity 0036 CPR 9174 085 of the factory production control.

8. Declared performance:

| | Essential Characteristics | Performance | Harmonized technical specification | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--|--|------------------------------------|-----------------------------------|--------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------|
| 8.1 | Compressive strength Chimney sections, fittings and supports | <p><u>Sections and fittings:</u></p> <table border="1" data-bbox="533 405 1235 730"> <thead> <tr> <th>Pipe tee 45° (DWPW12)</th> <th>Pipe tee 90° (DWPW317)</th> <th>Supporting arch 90° (DWPW1993)</th> </tr> </thead> <tbody> <tr><td>DN (100): max. 42 m</td><td>DN (100): max. 41 m</td><td>DN (100): max. 42 m</td></tr> <tr><td>DN (130): max. 39 m</td><td>DN (130): max. 36 m</td><td>DN (130): max. 37 m</td></tr> <tr><td>DN (150): max. 38 m</td><td>DN (150): max. 32 m</td><td>DN (150): max. 34 m</td></tr> <tr><td>DN (180): max. 35 m</td><td>DN (180): max. 27 m</td><td>DN (180): max. 29 m</td></tr> <tr><td>DN (200): max. 34 m</td><td>DN (200): max. 23 m</td><td>DN (200): max. 26 m</td></tr> <tr><td>DN (250): max. 31 m</td><td>DN (250): max. 22 m</td><td>DN (250): max. 25 m</td></tr> <tr><td>DN (300): max. 29 m</td><td>DN (300): max. 21 m</td><td>DN (300): max. 23 m</td></tr> <tr><td>DN (350): max. 26 m</td><td>DN (350): max. 19 m</td><td>DN (350): max. 22 m</td></tr> <tr><td>DN (400): max. 24 m</td><td>DN (400): max. 18 m</td><td>DN (400): max. 20 m</td></tr> <tr><td>DN (450): max. 21 m</td><td>DN (450): max. 16 m</td><td>DN (450): max. 19 m</td></tr> <tr><td>DN (500): max. 19 m</td><td>DN (500): max. 15 m</td><td>DN (500): max. 17 m</td></tr> <tr><td>DN (600): max. 17 m</td><td>DN (600): max. 13 m</td><td>DN (600): max. 15 m</td></tr> </tbody> </table> <p><u>Max. mounting heights on supports:</u> Model 1 DN (100- 300): up to 20 m Model 1 >DN (300- 450): up to 19 m Model 1 >DN (450- 600): up to 19 m For further information see the installation instruction DW-POWER</p> | Pipe tee 45° (DWPW12) | Pipe tee 90° (DWPW317) | Supporting arch 90° (DWPW1993) | DN (100): max. 42 m | DN (100): max. 41 m | DN (100): max. 42 m | DN (130): max. 39 m | DN (130): max. 36 m | DN (130): max. 37 m | DN (150): max. 38 m | DN (150): max. 32 m | DN (150): max. 34 m | DN (180): max. 35 m | DN (180): max. 27 m | DN (180): max. 29 m | DN (200): max. 34 m | DN (200): max. 23 m | DN (200): max. 26 m | DN (250): max. 31 m | DN (250): max. 22 m | DN (250): max. 25 m | DN (300): max. 29 m | DN (300): max. 21 m | DN (300): max. 23 m | DN (350): max. 26 m | DN (350): max. 19 m | DN (350): max. 22 m | DN (400): max. 24 m | DN (400): max. 18 m | DN (400): max. 20 m | DN (450): max. 21 m | DN (450): max. 16 m | DN (450): max. 19 m | DN (500): max. 19 m | DN (500): max. 15 m | DN (500): max. 17 m | DN (600): max. 17 m | DN (600): max. 13 m | DN (600): max. 15 m | EN 1856-1:2009 |
| Pipe tee 45° (DWPW12) | Pipe tee 90° (DWPW317) | Supporting arch 90° (DWPW1993) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DN (100): max. 42 m | DN (100): max. 41 m | DN (100): max. 42 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DN (130): max. 39 m | DN (130): max. 36 m | DN (130): max. 37 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DN (150): max. 38 m | DN (150): max. 32 m | DN (150): max. 34 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DN (180): max. 35 m | DN (180): max. 27 m | DN (180): max. 29 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DN (200): max. 34 m | DN (200): max. 23 m | DN (200): max. 26 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DN (250): max. 31 m | DN (250): max. 22 m | DN (250): max. 25 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DN (300): max. 29 m | DN (300): max. 21 m | DN (300): max. 23 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DN (350): max. 26 m | DN (350): max. 19 m | DN (350): max. 22 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DN (400): max. 24 m | DN (400): max. 18 m | DN (400): max. 20 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DN (450): max. 21 m | DN (450): max. 16 m | DN (450): max. 19 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DN (500): max. 19 m | DN (500): max. 15 m | DN (500): max. 17 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DN (600): max. 17 m | DN (600): max. 13 m | DN (600): max. 15 m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.2 | Resistance to fire | (Resistance to fire from inside to outside) Model 1 DN (100- 300): T600 – O50 Model 1 >DN (300- 450): T600 – O75 Model 1 >DN (450- 600): T600 – O100 Tested without cover, with back ventilated ceiling duct. | EN 1856-1:2009 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.3 | Gas tightness/leakage | Model 1 DN (100- 600): H1 | EN 1856-1:2009 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.4 | Flow resistance of chimney sections, fittings and terminals | According to EN 13384-1 <table border="1" data-bbox="533 1189 1174 1451"> <thead> <tr> <th>component:</th> <th>ζ (Zeta-value) single resistances</th> </tr> </thead> <tbody> <tr><td>pipe tee 87°:</td><td>1,14</td></tr> <tr><td>pipe tee 45°:</td><td>0,35</td></tr> <tr><td>pipe bend 87°:</td><td>0,40</td></tr> <tr><td>pipe bend 45°:</td><td>0,28</td></tr> <tr><td>pipe bend 30°:</td><td>0,20</td></tr> <tr><td>pipe bend 15°:</td><td>0,10</td></tr> </tbody> </table> | component: | ζ (Zeta-value) single resistances | pipe tee 87°: | 1,14 | pipe tee 45°: | 0,35 | pipe bend 87°: | 0,40 | pipe bend 45°: | 0,28 | pipe bend 30°: | 0,20 | pipe bend 15°: | 0,10 | EN 1856-1:2009 | | | | | | | | | | | | | | | | | | | | | | | | | |
| component: | ζ (Zeta-value) single resistances | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pipe tee 87°: | 1,14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pipe tee 45°: | 0,35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pipe bend 87°: | 0,40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pipe bend 45°: | 0,28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pipe bend 30°: | 0,20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pipe bend 15°: | 0,10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.5 | Thermal resistance | Model 1 DN (100- 600): ≥0.571 m²K/W tested at 200°C | EN 1856-1:2009 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.6 | Thermal shock resistance | Model 1 DN (100- 600): No 2) 2) Because designated O | EN 1856-1:2009 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.7 | Sootfire resistance | Model 1 DN (100- 600): T600 | EN 1856-1:2009 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.8 | Thermal performance under normal operating conditions | Model 1 DN (100- 300): ≤ 4.0 m Model 1 >DN (300- 600): ≤ 3.0 m | EN 1856-1:2009 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.9 | Flexural tensile strength (only for means of connection for chimney sections and fittings) | Model 1 DN (100- 600): Maximum offset between supports 3 m at 90° (inclined run: maximum distance between two fixations, supports at non vertical installation) | EN 1856-1:2009 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |


8. Declared performance:

| | Essential Characteristics | Performance | Harmonized technical specification |
|------|--|--|------------------------------------|
| 8.10 | Components subject to wind load | Model 1 DN (100- 200): Free standing height 3 m above last support. Maximum spacing between lateral supports 4 m . Model 1 >DN (200- 500): Free standing height 2 m above last support. Maximum spacing between lateral supports 4 m . Model 1 >DN (500- 600): Free standing height 1,5 m above last support. Maximum spacing between lateral supports 4 m . | EN 1856-1:2009 |
| 8.11 | Durability: Water and vapour diffusion resistance | Model 1 DN (100- 600): No | EN 1856-1:2009 |
| 8.12 | Condensate penetration resistance | Model 1 DN (100- 600): No | |
| 8.13 | Against corrosion | Model 1 DN (100- 600): V2 | |
| 8.14 | Freeze thaw resistance | Model 1 DN (100- 600): Yes | |

9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Wassertrüdingen, 30. March 2021



 Stefan Engelhardt CEO

Product information

“Chimneys – Requirements for metal chimneys - Part 1:
System chimney products“ EN 1856-1:2009

Manufacturer's identification:

Jeremias GmbH
Opfenrieder Str. 12
91717 Wassertrüdingen
 Tel.: +49 (0) 9832 / 68 68-50
 Fax: +49 (0) 9832 / 68 68-68
 Internet: www.jeremias.de
 E-Mail: info@jeremias.de

Product trade name:

DW-POWER (Double wall chimney system with 57,5 mm heat insulation)

Certification office:

TÜV SÜD Industrie Service GmbH

Name and position of the responsible person:

Stefan Engelhardt CEO

Identification of accompanying documentation

| | | | | | | | | | |
|-----|----------------------|------------------|-------------|-----------|----------|------------------|---|---|---|
| 0.1 | Metal chimney | EN 1856-1 | T600 | H1 | D | V2-L50050 | O50 O75 O100 | DN 100 - 300 >DN 300 - 450 >DN 450 - 600 | Double wall chimney system, with 57,5 mm heat insulation, gasket in outer pipe, ventilated throughout the whole length, without covering. Locking band necessary. Operation mode in positive pressure / high pressure up to 5000Pa. |
|-----|----------------------|------------------|-------------|-----------|----------|------------------|---|---|---|

| | |
|--|--|
| Product description | |
| Standard number | EN 1856-1 |
| Temperature level | T600 |
| Pressure level | H1 |
| Condensate resistance (W: wet / D: dry) | D |
| Corrosion resistance | V2-L50050 |
| Flue liner material specification | O50 O75 O100 |
| Sootfire resistance (G: yes / O: no) and distance to combustible materials (mm) | DN 100 - 300 >DN 300 - 450 >DN 450 - 600 |
| Nominal diameter (Ø inner tube) in mm | |

Properties of a multi-wall metal chimney system

Compressive strength: n.p.d.

Flow resistance:

Average roughness: 1.0 mm, Zeta-values
(see installation instructions) according to EN 13384-1

Thermal resistance: $\geq 0.57 \text{ m}^2\text{K/W}$

Flexural strength:

Angular assembly:
Maximum length between two supports 3 m at 90°

Tensile strength: n.p.d.

Wind load: free standing end above last fixation:

$\leq 3 \text{ m}$, $\text{Ø}100 \text{ mm} - \text{Ø}200 \text{ mm}$
 $\leq 2 \text{ m}$, $>\text{Ø}200 \text{ mm} - \text{Ø}500 \text{ mm}$
 $\leq 1,5 \text{ m}$, $>\text{Ø}500 \text{ mm} - \text{Ø}600 \text{ mm}$

Maximum distance between vertical supports: 4 m

Freeze-thaw resistance: Yes

Cleaning:

The chimney system is only allowed to be cleaned with cleaning devices made of plastic or rust-resistant stainless steel.

Declaration of Performance (DOP)

No. 9174 088 DOP 2021-03-30

1. Unique identification code of the product-type:

Rigid connecting pipe type DW-POWER according to EN 1856-2:2009

2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):

Rigid, double wall connecting pipe type DW-POWER with 57.5 mm heat insulation ¹⁾

Model 1 DN (100- 600) T600 – H1 – D – V2 – L50050 – O100 M ²⁾

¹⁾ Manufacturer product identification DW-POWER connecting pipe

²⁾ Measured (M) / tested and applicable for all specified diameters

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification as foreseen by the manufacturer:

Convey the products of combustion from heating appliances to the chimney

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):


Jeremias GmbH
Opfenrieder Straße 12
DE-91717 Wassertrüdingen
Tel.: +49 9832 68 68 0
Fax: +49 9832 68 68 68
Email: info@jeremias.de

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

not applicable

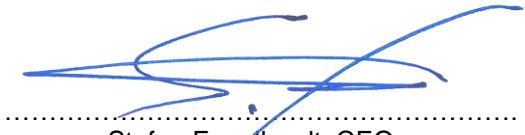
6. System or systems of assessment and verification of constancy of performance of the construction product as set out in CPR, Annex V:

System 2+

7. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

Notified factory production control certification body no. 0036 performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity 0036 CPR 9174 088 of the factory production control.

8. Declared performance:

| | Essential Characteristics | Performance | Harmonized technical specification | | | | | | | | | | | | | | |
|--|---|--|------------------------------------|-----------------------------------|---------------|------|---------------|------|----------------|------|----------------|------|----------------|------|----------------|------|----------------|
| 8.1 | Compressive strength | Model 1 DN (100- 300): n.p.d. Model 1 >DN (300- 450): n.p.d. Model 1 >DN (450- 600): n.p.d. | EN 1856-2:2009 | | | | | | | | | | | | | | |
| 8.2 | Tensile strength | Model 1 DN (100- 600): n.p.d. | | | | | | | | | | | | | | | |
| 8.3 | Non vertical installation | Model 1: Horizontal 3 m between supports* <small>*Please pay attention to the mounting instructions, an incline, all incline has to be arranged for where applicable.</small> | | | | | | | | | | | | | | | |
| 8.4 | Resistance to fire | (Resistance to fire from inside to outside) Model 1 DN (100- 600): T600 - O100 M | EN 1856-2:2009 | | | | | | | | | | | | | | |
| 8.5 | Gasdichtheit/-leakage | Modell 1 DN (100- 600): H1 | EN 1856-2:2009 | | | | | | | | | | | | | | |
| 8.6 | Flow resistance of chimney sections and fittings | According to EN 13384-1 <table border="1" data-bbox="592 808 1201 1061"> <thead> <tr> <th>component:</th> <th>ζ (Zeta-value) single resistances</th> </tr> </thead> <tbody> <tr> <td>pipe tee 87°:</td> <td>1,14</td> </tr> <tr> <td>pipe tee 45°:</td> <td>0,35</td> </tr> <tr> <td>pipe bend 87°:</td> <td>0,40</td> </tr> <tr> <td>pipe bend 45°:</td> <td>0,28</td> </tr> <tr> <td>pipe bend 30°:</td> <td>0,20</td> </tr> <tr> <td>pipe bend 15°:</td> <td>0,10</td> </tr> </tbody> </table> | component: | ζ (Zeta-value) single resistances | pipe tee 87°: | 1,14 | pipe tee 45°: | 0,35 | pipe bend 87°: | 0,40 | pipe bend 45°: | 0,28 | pipe bend 30°: | 0,20 | pipe bend 15°: | 0,10 | EN 1856-2:2009 |
| component: | ζ (Zeta-value) single resistances | | | | | | | | | | | | | | | | |
| pipe tee 87°: | 1,14 | | | | | | | | | | | | | | | | |
| pipe tee 45°: | 0,35 | | | | | | | | | | | | | | | | |
| pipe bend 87°: | 0,40 | | | | | | | | | | | | | | | | |
| pipe bend 45°: | 0,28 | | | | | | | | | | | | | | | | |
| pipe bend 30°: | 0,20 | | | | | | | | | | | | | | | | |
| pipe bend 15°: | 0,10 | | | | | | | | | | | | | | | | |
| 8.7 | Sootfire resistance | Model 1 DN (100- 600): No ²⁾ ²⁾ because designated O | EN 1856-2:2009 | | | | | | | | | | | | | | |
| 8.8 | Thermal performance under normal operating conditions | Model 1 DN (100- 600): T600* <small>*(Heating strain at nominal operating temperature)</small> | | | | | | | | | | | | | | | |
| 8.9 | Durability: Water and vapour diffusion resistance | Modell 1 DN (100- 600): No | EN 1856-2:2009 | | | | | | | | | | | | | | |
| 8.10 | Condensate penetration resistance | Modell 1 DN (100- 600): No | | | | | | | | | | | | | | | |
| 8.11 | Against corrosion | Modell 1 DN (100- 600): V2 | | | | | | | | | | | | | | | |
| 8.12 | Freeze thaw resistance | Modell 1 DN (100- 600): Ja | | | | | | | | | | | | | | | |
| <p>9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.</p> <p>Signed for and on behalf of the manufacturer by:</p> <p>Wassertrüdingen, 30. March 2021</p> <div style="text-align: right;">  Stefan Engelhardt CEO </div> | | | | | | | | | | | | | | | | | |

Product information

“Chimneys – Requirements for metal chimneys - Part 2: Metal flue liners and connecting flue pipes“ EN 1856-2:2009

Manufacturer’s identification:

Jeremias GmbH
Opfenrieder Str. 12
91717 Wassertrüdingen
 Tel.: +49 (0) 9832 / 68 68-50
 Fax: +49 (0) 9832 / 68 68-68
 Internet: www.jeremias.de
 E-Mail: info@jeremias.de

Product trade name:

DW-POWER Connecting pipe
 (rigid connecting pipe, double wall with 57.5 mm insulation)

Certification office:

TÜV SÜD Industrie Service GmbH

Name and position of the responsible person: **Stefan Engelhardt** CEO

Identification of accompanying documentation

| | | | | | | | | | |
|--|-----|-----------|------|----|---|-----------|--------|-----------|--|
| Rigid double wall connecting pipe DW-POWER | 0.1 | EN 1856-2 | T600 | H1 | D | V2-L50050 | O100 M | 100 - 600 | Double wall connecting pipe with 57,5 mm insulation, composed of rigid pipes and elements, gasket in outer pipe, ventilated along the whole length, without covering. Locking band necessary. Operation mode in positive pressure / high pressure up to 5000 Pa. (oil, gas). |
|--|-----|-----------|------|----|---|-----------|--------|-----------|--|

| | | | | |
|---|-----------|--|--|--|
| Product description | | | | |
| Standard number | EN 1856-2 | | | |
| Temperature level | T600 | | | |
| Pressure level | H1 | | | |
| Condensate resistance (W: wet / D: dry) | D | | | |
| Corrosion resistance | V2-L50050 | | | |
| Flue liner material specification | O100 M | | | |
| Sootfire resistance (G: yes / O: no) and distance to combustible materials (in mm) without radiation protection M = tested distance NM = calculated distance | 100 - 600 | | | |
| Nominal diameter (Ø) inner tube in mm | | | | |

Rigid connecting pipe of metal

Compressive strength:

n.p.d.

Flexural strength:

No vertical installation:
 ≤ 3 m between two fixations or supports

Tensile strength:

n.p.d.

Maximal distance between vertical supports:

≤ 4 m between two fixations

Flow resistance:

Average roughness: 1.0 mm,
 Zeta-values according to EN 13384-1

Thermal resistance:

≥ 0.57 m²K/W

Freeze-thaw resistance:

Yes

Cleaning:

The connecting pipe is only allowed to be cleaned with cleaning devices made of plastic or rust-resistant stainless steel.