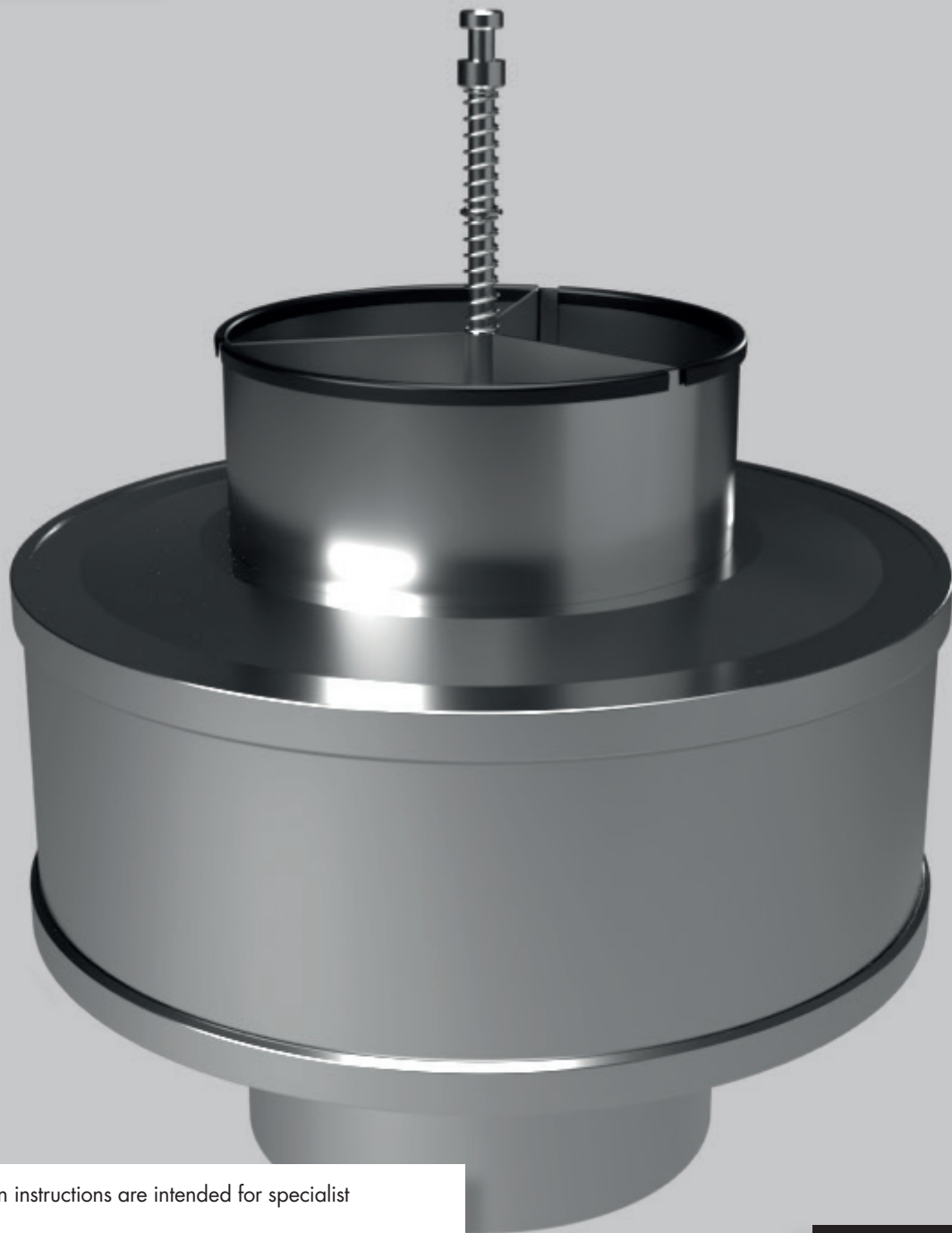


IMPLOSION DAMPER IK 250

for pressurised and negative pressure exhaust systems

OPERATING MANUAL



- These installation instructions are intended for specialist installers.
- Read the installation instructions carefully before starting work!
- Special designs and customised solutions may deviate from these installation instructions in certain respects.

This product complies with the requirements of the relevant EU Directive (2006/42/EC) and the declarations of conformity can be requested from the address listed.

KW
a brand of the
Raab Gruppe 

IMPLOSION DAMPER IK 250

Function and mode of operation

The implosion damper can be used for all types of fuel and is used for fireplaces that are operated in positive and negative pressure, so that no flue gas can escape when the fireplace is operated as intended. During normal, trouble-free operation, the spring keeps the cover plate closed. If the combustion air flap on the burner is closed due to a power failure, the chimney can no longer draw in air via the boiler.

The 'missing' air now flows in via the implosion damper, which prevents the so-called Joukowski surge by immediately opening the cover plate.

Caution:

Relevant laws, standards, regulations and guidelines must be observed. Installation may only be carried out by specialised and competent persons. We recommend consulting the responsible chimney sweep before starting installation. The system must be switched off and de-energised before starting work.



Multiple use of implosion dampers on a pipeline:

Based on the standard for explosion dampers, the pipe cross-section of the pipe should be smaller than the pipe cross-section of the implosion damper. If the pipe cross-section is larger than that of the implosion damper, several implosion dampers must be used.

Example of cross-section calculation:

Flue gas pipe NW 350 mm:

$$(350 \text{ mm} \div 2)^2 \times 3,14 = 96.162,5 \text{ mm}^2$$

IK 250:

$$(250 \text{ mm} \div 2)^2 \times 3,14 = 49.062,5 \text{ mm}^2$$

→ Pipe cross-section **smaller** than that of the pipe.

2 pieces IK 250:

$$(250 \text{ mm} \div 2)^2 \times 3,14 \times 2 = 98.125 \text{ mm}^2$$

→ Pipe cross-section **bigger** than that of the pipe.

In this example, 2 pieces of IK 250 should be used.

Pipe-Ø mm	Pipe cross-section mm ²	Number of IK required
250	49.062,5	1
300	70.650,0	2
250	96.162,5	2
400	125.600,0	3
450	158.963,0	4
500	196.250,0	4
600	282.600,0	6
800	502.400,0	11

Installation

Mounting position

The implosion damper must be mounted vertically and in the immediate vicinity of the flue gas connection.

Installation

The connection piece of the implosion dampers is pluggable in accordance with DIN 1298. Insert the implosion damper into the corresponding fitting (T-piece or elbow). In the case of pressurised flue gas systems and/or condensate accumulation, the joints (plug connections) must be sealed accordingly.

Fastening

It must be checked whether the implosion damper must be additionally secured, for example with brackets or pipe clamps.

Commissioning/functional test

Before handing over the system, the entire flue gas duct and the function of the implosion damper must be checked for leaks.

Maintenance

When servicing the fireplace, but at least once a year, check that the implosion damper and the flue gas duct are functioning properly. If necessary, clean the inside and outside of the housing, the cover plate and the shaft.

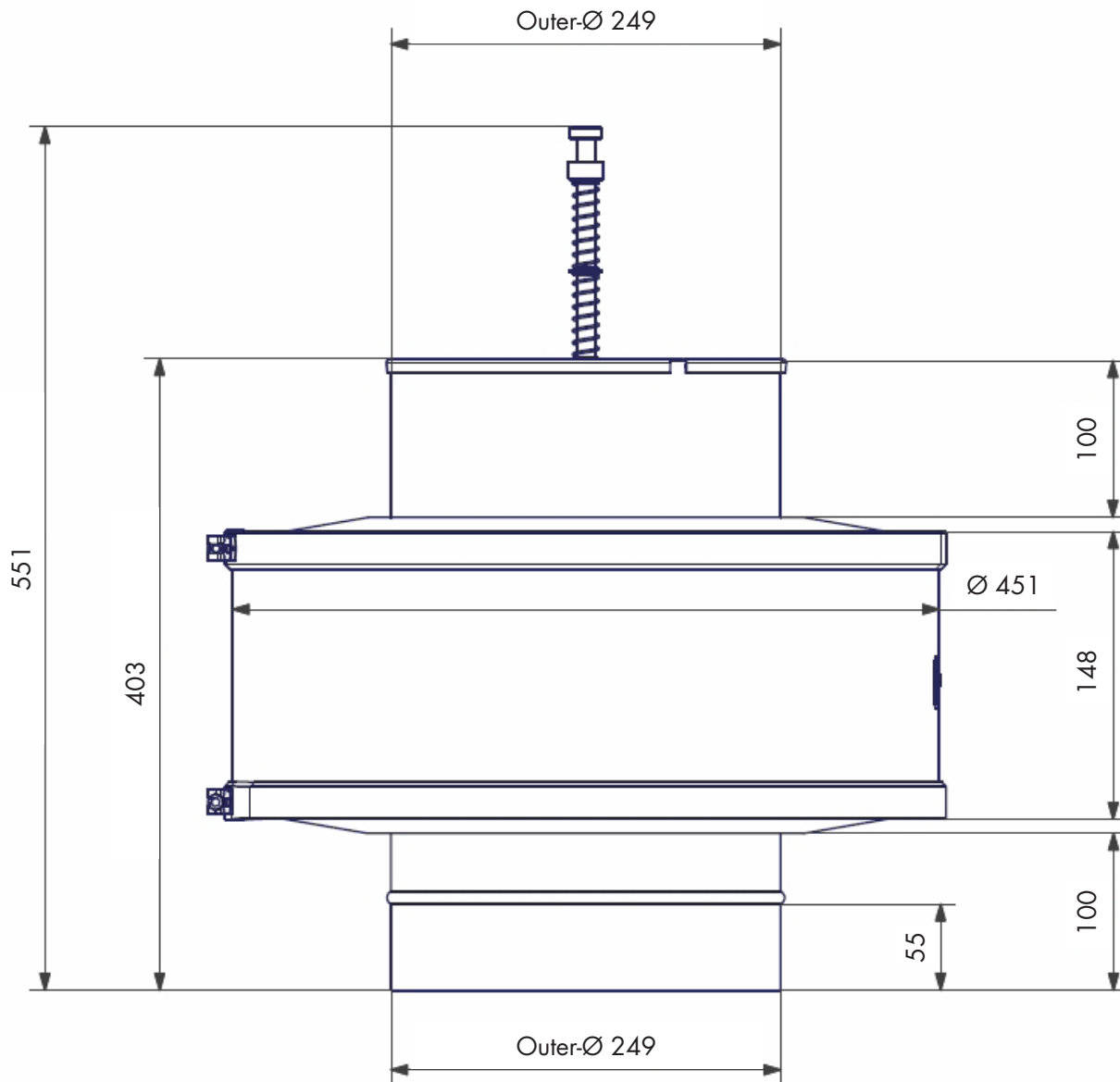
Technical Data

Device type IK 250

Max. flue gas temperature:	up to 200 °C
Start of vertical opening (upright):	approx. 300 Pa
Start of horizontal opening (horizontal):	approx. 500 Pa
Connection spigot:	NW 250
Tightness class according to DIN EN 1443 P1 (overpressure)	up to 200 Pa
Weight	7.33 kg

IMPLOSION DAMPER IK 250

Dimensions



Konformitätserklärung / Declaration of conformity

Produktbezeichnung:
product description Implosionsklappe / implosion relief

Typ/type: IK 250 ID-1002431

Hersteller:
manufacturer Kutzner + Weber GmbH

Anschrift:
address Frauenstraße 32
D-82216 Maisach
Tel.: +49 (0) 8141 / 957- 0
Fax: +49 (0) 8141 / 957- 500
www.kutzner-weber.de
info@kutzner-weber.de

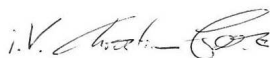
Die alleinige Verantwortung für die Ausstellung dieser Konformitätserklärung trägt der Hersteller. Der oben beschriebene Gegenstand der Erklärung erfüllt die einschlägigen Harmonisierungsvorschriften der Union:

This declaration of conformity is issued under the sole responsibility of the manufacturer. The object of the declaration described above is in conformity with their relevant Union harmonization legislation:

2006/42/EG Maschinenrichtlinie / machine directive

Überwachungsverfahren:
quality assurance system DIN EN ISO 9001: 2015

Unterzeichnet für und im Namen
von:
signed for and on behalf of Kutzner + Weber GmbH
Maisach, 2018-04-30



i.V. Christian Freis
(Technischer Leiter/Technical director)

Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Richtlinien, ist jedoch keine Beschaffenheits- oder Haltbarkeitsgarantie. Die Installations- und Sicherheitshinweise der Produktdokumentation sind zu beachten.
This declaration is an attestation of conformity with the indicated Directive but does not imply any guarantee of quality or durability. The installation and safety instructions of the product documentation shall be observed.