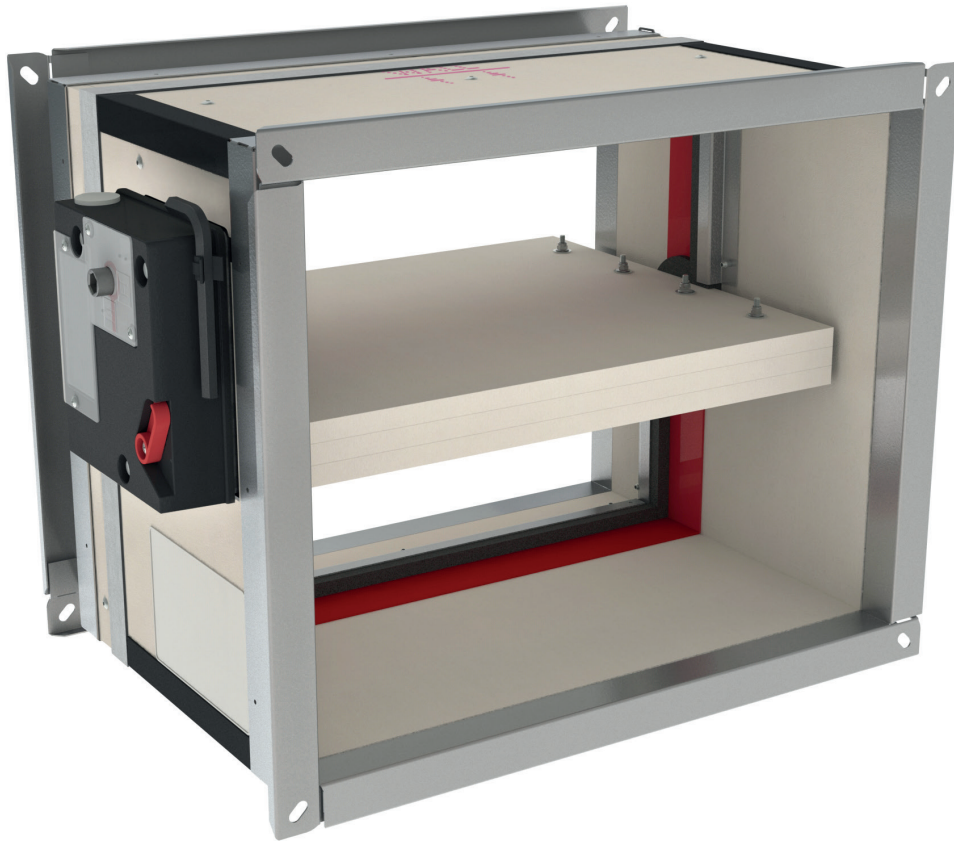


CU2

Wide-ranging rectangular fire damper up to 120'



CE
0749



UK
CA












Table of content

| | |
|--|----|
| Declaration of performance | 4 |
| Product presentation CU2 | 5 |
| Range and dimensions CU2 | 6 |
| Variant CU2L | 6 |
| Range and dimensions CU2L | 6 |
| Variant CU2-L500 | 7 |
| Range and dimensions CU2-L500 | 7 |
| Variant CU2 ATEX | 7 |
| Range and dimensions CU2 ATEX | 7 |
| Variant CU2L ATEX | 8 |
| Range and dimensions CU2L ATEX | 8 |
| Evolution - kits | 9 |
| Options - at the time of order | 12 |
| Flange types - at the time of order | 13 |
| Storage and handling | 14 |
| Installation | 14 |
| Installation at a minimal distance from another damper or from an adjacent supporting construction | 15 |
| Installation in rigid wall and floor | 16 |
| Installation in flexible wall (metal stud gypsum plasterboard wall) | 18 |
| Installation in flexible wall (metal stud gypsum plasterboard wall), sealing with gypsum | 21 |
| Installation in flexible wall (metal stud gypsum plasterboard wall), sealing with mortar | 23 |
| Installation in gypsum block wall | 25 |
| Installation in flexible and rigid wall, sealing with rigid rock wool boards with coating | 27 |
| Installation in rigid floor, sealing with rigid rock wool boards with coating | 30 |
| Installation in shaft wall | 32 |
| Battery assembly | 33 |
| Operation and mechanisms | 34 |
| Electrical connection | 41 |
| Weights | 43 |
| Selection data | 59 |
| Example | 59 |
| Sample order | 71 |
| Approvals and certificates | 72 |

Explanation of the abbreviations and pictograms

| | | |
|--|--|---|
| Wn = nominal width | E.TELE = power supply magnet | Sn = free air passage |
| Hn = nominal height | E.ALIM = power supply motor | ζ [-] = pressure loss coefficient |
| Dn = nominal diameter | V = volt | Q = airflow |
| E = integrity | W = watt | ΔP = static pressure drop |
| I = thermal insulation | Auto = automatic | v = air speed in the duct |
| S = smoke leakage | Tele = remote controlled | Lwa = A-weighted sound power level |
| Pa = pascal | Pnom = nominal capacity | Lw oct = sound power level per octave midband |
| ve = vertical wall penetration | Pmax = maximum capacity | dB(A) = A-weighted decibel value |
| ho = horizontal floor penetration | GKB (type A) / GKF (type F): "GKB" | ΔL = correction factor |
| o -> i = meets the criteria from the outside (o) to the inside (i) | stands for standard plasterboards (type A according to EN 520) while "GKF" plasterboards offer a higher fire resistance for a similar plate thickness (type F according to EN 520) | |
| i <-> o = fire side not important | Cal-Sil = calcium silicate | |
| V AC = Volt alternating current | OP = option (delivered with the product) | |
| V DC = Volt direct current | KIT = kit (delivered separately for repair or upgrade) | |
| | PG = connection flange to the duct | |

| | | | |
|---|---|---|--|
|  | large dimensions |  | battery assembly tested in rigid wall |
|  | air tightness in accordance with EN 1751: class B (class C in option) |  | Hygiene certificate (www.HYG.de) |
|  | suitable for built-in installation |  | intermediate dimensions on request |
|  | minimal distance allowed |  | sealing with fire resistant stone wool boards allowed, also for asymmetric opening |
|  | ATEX certificate TÜV 14 ATEX 7540 X | | |

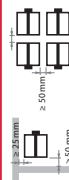
DECLARATION OF PERFORMANCE

CE_DoP_Rf-t_G2_EN - I-01/07/2023

| | |
|--|---|
| 1. Unique identification code of the product-type: | CU2 |
| 2. Intended use(s): | Rectangular fire damper to be used in conjunction with partitions to maintain fire compartments in heating, ventilating and air conditioning installations. |
| 3. Manufacturer: | Rf-Technologies NV, Lange Ambachtstraat 40, B-9860 Oosterzele |
| 4. System(s) of AVCP: | System 1 |
| 5. Harmonised standard / European Assessment Document: notified body / European Technical Assessment, Technical Assessment Body, notified body, certificate of constancy of performance: | EN 15650:2010, BCCA with identification number 0749; BCCA-0749-CPR-BC1-606-0464-15650.03-0464-2822-UKCA-CPR-0057 |
| 6. Declared performance according to EN 15650:2010 | (Fire resistance according to EN 1366-2 and classifications according to EN 13501-3) |

| Essential characteristics | Wall | | Sealing | Installation | Performance Classification | Harmonised standard EN 15650:2010 |
|---------------------------------|---|---|--|--------------|--|--------------------------------------|
| | Wall type | Wall | | | | |
| 200x200 mm ≤ CU2 ≤ 1500x1000 mm | Rigid wall | Aerated concrete ≥ 100 mm | Gypsum | 1 | EI 120 (V _e , I ↔ O) S - (500 Pa) | |
| | Flexible wall | Metal studs gypsum plasterboard Type F (EN 520) ≥ 100 mm | Mortar | 1 | EI 90 (V _e , I ↔ O) S - (300 Pa) | |
| 200x200 mm ≤ CU2 ≤ 1200x800 mm | Rigid floor | Paroc-System Panel Sandwich panel type Paroc AST S ≥ 100 mm | Gypsum | 1 | EI 120 (V _e , I ↔ O) S - (500 Pa) | |
| | Flexible wall | Gypsum blocks ≥ 100 mm | Hilti CFS-CT B 15 | 1 | EI 90 (V _e , I ↔ O) S - (300 Pa) | |
| 200x200 mm ≤ CU2 ≤ 1200x800 mm | Rigid wall | Aerated concrete ≥ 150 mm | Block glue | 1 | EI 120 (V _e , I ↔ O) S - (500 Pa) | |
| | Flexible wall | Aerated concrete ≥ 100 mm | Mortar | 2 | EI 120 (V _e , I ↔ O) S - (500 Pa) | |
| 200x200 mm < CU2 ≤ 1500x1000 mm | Rigid floor | Metal studs gypsum plasterboard Type A (EN 520) ≥ 100 mm | Mortar | 2 | EI 120 (V _e , I ↔ O) S - (500 Pa) | |
| | Flexible wall | Metal studs gypsum plasterboard Type F (EN 520) ≥ 100 mm | Gypsum | 2 | EI 90 (V _e , I ↔ O) S - (300 Pa) | |
| 200x200 mm < CU2 ≤ 1500x800 mm | Rigid floor | Gypsum blocks ≥ 70 mm | Stone wool + coating ≥ 140 kg/m ³ | 1 | EI 60 (V _e , I ↔ O) S - (500 Pa) | |
| | Flexible wall | Aerated concrete ≥ 150 mm | Stone wool + coating ≥ 140 kg/m ³ | 2 | EI 60 (V _e , I ↔ O) S - (500 Pa) | |
| 200x200 mm ≤ CU2 ≤ 1500x1000 mm | Rigid wall | Aerated concrete ≥ 100 mm | Stone wool + coating ≥ 140 kg/m ³ | 1 | EI 60 (V _e , I ↔ O) S - (500 Pa) | |
| | Flexible wall | Aerated concrete ≥ 100 mm | Mortar / Gypsum | 2 | EI 60 (V _e , I ↔ O) S - (500 Pa) | |
| 200x200 mm < CU2 ≤ 1500x800 mm | Rigid wall | Aerated concrete ≥ 100 mm | Mortar | 2 | EI 120 (V _e , I ↔ O) S - (500 Pa) | |
| | Flexible wall | Metal studs gypsum plasterboard Type F (EN 520) ≥ 100 mm | Stone wool + coating ≥ 40 kg/m ³ + cover plates | 1 | EI 90 (V _e , I ↔ O) S - (300 Pa) | |
| 200x200 mm ≤ CU2 ≤ 1500x800 mm | Asymmetrical flexible wall (shaft wall) | Metal studs gypsum plasterboard Type F (EN 520) ≥ 82.5 mm | Stone wool + coating ≥ 40 kg/m ³ + cover plates | 3 | EI 60 (V _e , I ↔ O) S - (300 Pa) | |
| | Rigid floor | Aerated concrete ≥ 125 mm | Mortar | 2 | EI 120 (V _e , I ↔ O) S - (300 Pa) | |

1 Type of installation: built-in 0°/180°
Minimal distances authorised.



2 Type of installation: built-in 0°/90°/180°/270° - Minimal distances authorised.



3 Type of installation: built-in 0°/180°



| | |
|--|---|
| Nominal activation conditions/sensitivity: | Pass |
| Response delay / (response time): closure time | Pass |
| Operational reliability: cycling | CFTH - 50 cycles; MANO - 300 cycles; BUL(F)(T) - 10000 cycles; BFL(T) - 10000 cycles; BFNT(T) - 10000 cycles; ONE - 10000 cycles; ONE-X - 10000 cycles; UNIQ - 10000 cycles |
| Durability of response delay: | Pass |
| Durability of operational reliability: | Pass |
| Protection against corrosion according to EN 60068-2-52: | Pass |
| Damper casing leakage according to EN 1751: | ≥ class B |

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:
Mathieu Steenland, Technical Manager

Oosterzele, 01/07/2023



Product presentation CU2

Rectangular fire damper available in the largest dimensions, with battery conform to the European norm up to 3050x1650 mm. Fire resistance up to 120 minutes. The refractory casing is made of asbestos-free panels, which are resistant to humidity. Its many options make the CU2 damper a universal reference on the market.

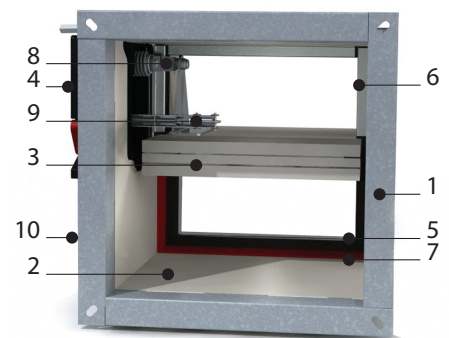
Fire dampers are installed where air ducts penetrate fire-resistant compartment walls. Their role is to restore the fire resistance grade of the penetrated wall and to prevent smoke propagation. Fire dampers are distinguished by their degree of fire resistance, by their aerualic properties as well as by their installation ease. Rf-Technologies' fire dampers are all CE marked. They can be equipped with various types of mechanisms depending on the specific needs linked to the project or to the local regulations.

- ✓ large dimensions
- ✓ many options and variants
- ✓ battery assembly tested in rigid wall
- ✓ model available for use in potentially explosive atmospheres



- suitable for built-in installation
- minimal distance allowed
- suitable for rigid wall, rigid floor and light wall (metal stud gypsum plasterboard wall), gypsum blocks and sandwich panel wall
- sealing with fire resistant stone wool boards allowed, also for asymmetric opening
- air tightness in accordance with EN 1751: class B (class C in option)
- tested according to EN 1366-2 up to 500 Pa
- operating mechanism outside the wall
- maintenance-free
- for indoor use
- operating temperature: max. 50°C
- intermediate dimensions on request
- Hygiene certificate for CU2: H > 600 or W > 800 (option when ordering)

1. connection flange PG30
2. casing made of refractory material
3. damper blade
4. operating mechanism
5. sealing cold smoke
6. blade bumper
7. intumescent strip
8. transmission with locking (open/closed)
9. fusible link
10. product identification



Range and dimensions CU2

Range and dimensions CU2

Wn/Hn in steps of 50 mm; intermediate dimensions are subject to extra cost (heights between ≥ 275 and ≤ 299 mm are not possible).
Exceeding blade: X = on the mechanism side, Y = on the wall side

| Hn (mm) | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| x | - | - | - | - | - | 1 | 26 | 51 | 76 | 101 | 126 | 151 | 176 | 201 | 226 |
| y | 2 | 27 | 52 | 77 | 102 | 127 | 152 | 177 | 202 | 227 | 252 | 277 | 302 | 327 | 352 |

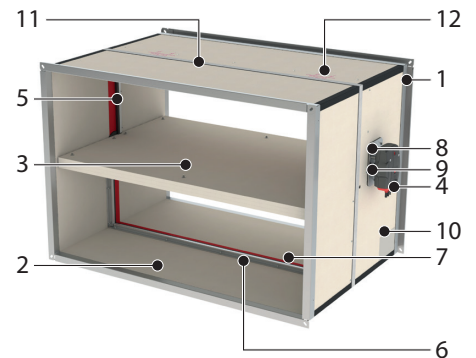
| (W x H) mm | IV | V |
|------------|----|---|
| 200x200 | | |
| 1500x1000 | | |

Variant CU2L

Damper with a tunnel casing extension at one or both sides so that the damper blade does not exceed the tunnel. This version allows to connect a grill or a bend directly on the damper flange or to use a circular connection.

- extension: a = $Hn/2 - 230$ mm (on the side of the mechanism);
b = $Hn/2 - 100$ mm (on the wall side)

1. connection flange PG30
2. casing made of refractory material
3. damper blade
4. operating mechanism
5. sealing cold smoke
6. blade bumper
7. intumescent strip
8. transmission with locking (open/closed)
9. fusible link
10. product identification
11. graphite strip
12. wall limit



Range and dimensions CU2L

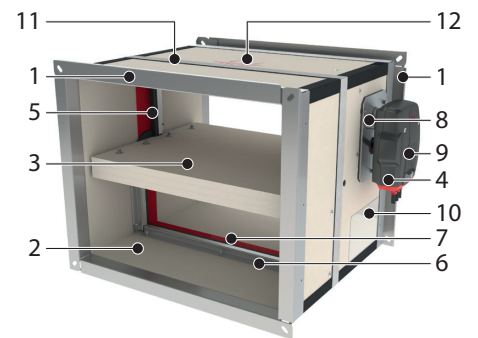
extension: a = $Hn/2 - 230$ mm (on the side of the mechanism); b = $Hn/2 - 100$ mm (on the wall side)

| (W x H) mm | IV | V |
|------------|----|---|
| 200x200 | | |
| 1500x1000 | | |

Variant CU2-L500

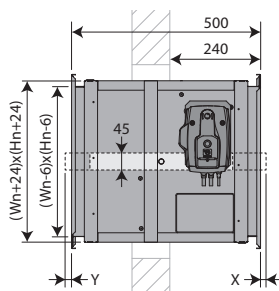
CU2 damper with a tunnel casing extension at the wall side to facilitate the connection to the duct when the supporting construction is thicker than 100 mm. This version also ensures that the damper blade doesn't exceed the casing at the wall side (up to a height of 500 mm), which allows to connect a grill or a bend directly on the damper flange or to use a circular connection.

1. connection flange PG30
2. casing made of refractory material
3. damper blade
4. operating mechanism
5. sealing cold smoke
6. blade bumper
7. intumescent strip
8. transmission with locking (open/closed)
9. fusible link
10. product identification
11. graphite strip
12. wall limit



Range and dimensions CU2-L500

Wn/Hn in steps of 50 mm; intermediate dimensions are subject to extra cost (heights between ≥ 275 and ≤ 299 mm are not possible).



| Hn (mm) | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| x | - | 1 | 26 | 51 | 76 | 101 | 126 | 151 | 176 | 201 | 226 |
| y | 2 | 27 | 52 | 77 | 102 | 127 | 152 | 177 | 202 | 227 | 252 |



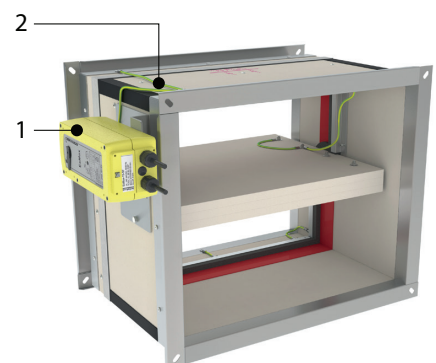
Variant CU2 ATEX

Explosion protected fire damper for use in zone 1,2 (gas) and zone 21,22 (combustible dust). The option is available on all dimensions of the CU2.

- ATEX certificate TÜV 14 ATEX 7540 X



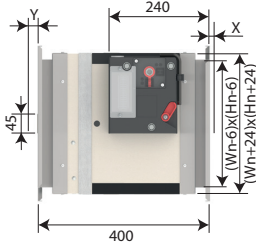
1. explosion proof mechanism
2. equipotential connection



Variant CU2L ATEX

Range and dimensions CU2 ATEX

Wn/Hn in steps of 50 mm; intermediate dimensions are subject to extra cost (heights between ≥ 275 and ≤ 299 mm are not possible).
Exceeding blade: X = on the mechanism side, Y = on the wall side



| Hn (mm) | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 950 | 1000 |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| x | - | - | - | - | - | 1 | 26 | 51 | 76 | 101 | 126 | 151 | 176 | 201 | 226 |
| y | 2 | 27 | 52 | 77 | 102 | 127 | 152 | 177 | 202 | 227 | 252 | 277 | 302 | 327 | 352 |

| (W x H) mm | 200x200 | 1500x1000 |
|------------|---------|-----------|
| IV | | |
| IA | | |

Variant CU2L ATEX

Explosion protected fire damper for use in zone 1,2 (gas) and zone 21,22 (combustible dust) with a tunnel casing extension at one or both sides so that the damper blade does not exceed the tunnel. This extension makes it possible to use a circular connection (PRJ flange).

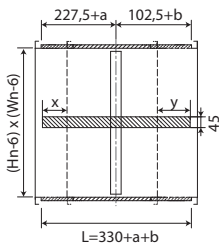
☑ ATEX certificate TÜV 14 ATEX 7540 X

- extension: a = $H_n/2 - 230$ mm (on the side of the mechanism);
b = $H_n/2 - 100$ mm (on the wall side)



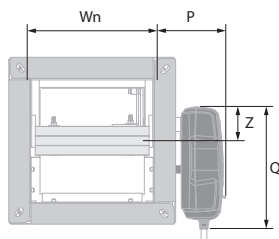
Range and dimensions CU2L ATEX

Wn/Hn in steps of 50 mm; intermediate dimensions are subject to extra cost (heights between ≥ 275 and ≤ 299 mm are not possible).
Exceeding blade: X = on the mechanism side, Y = on the wall side

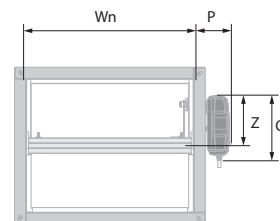


| (W x H) mm | 200x200 | 1500x1000 |
|------------|---------|-----------|
| IV | | |
| IA | | |

Hn < 300 mm




Hn ≥ 300 mm



| | CFTH | ONE(X) | BFL(T) | E/RMEX(T) | | CFTH | ONE(X) | BFL(T) | BFN(T) | E/RMEX(T) |
|----------|------|--------|--------|-----------|----------|------|--------|--------|--------|-----------|
| P | 78 | 104 | 96 | 118 | P | 78 | 104 | 96 | 100 | 118 |
| Q | 180 | 191 | 110 | 95 | Q | 180 | 191 | 110 | 110 | 95 |
| Z | 62 | 47 | 74 | 72,5 | Z | 157 | 147 | 180 | 180 | 167,5 |

Evolution - kits

| | | |
|---|------------------------------|---|
|  | KIT ONE T 24 FDCB | Spring return actuator ONE 24V (with fusible link T) + bipolar beginning- and end-of-range switch |
|  | KIT ONE T 24 FDCU | Spring return actuator ONE 24V (with fusible link T) + unipolar beginning- and end-of-range switch |
|  | KIT ONE T 24 FDCU ST | Spring return actuator ONE 24V (with fusible link T) + unipolar beginning- and end-of-range switch + plug (ST) |
|  | KIT ONE T 230 FDCB | Spring return actuator ONE 230V (with fusible link T) + bipolar beginning- and end-of-range switch |
|  | KIT ONE T 230 FDCU | Spring return actuator ONE 230V (with fusible link T) + unipolar beginning- and end-of-range switch |
|  | KIT ONE T 230 FDCU ST | Spring return actuator ONE 230V (with fusible link T) + unipolar beginning- and end-of-range switch + plug (ST) |
|  | KIT ONE-X 24 | Spring return actuator ONE-X 24V (with fusible link T) |
|  | KIT ONE-X 230 | Spring return actuator ONE-X 230V (with fusible link T) |
|  | KIT CFTH | Automatic unlocking mechanism CFTH with FCU and without FTH 72 |



KIT BFL24

Spring return actuator BFL 24V



KIT BFL24-ST

Spring return actuator BFL 24V with plug (ST)



KIT BFL230

Spring return actuator BFL 230V



KIT BFLT24

Spring return actuator BFL 24V with thermo-electric fuse (T)



KIT BFLT24-ST

Spring return actuator BFL 24V with thermo-electric fuse (T) and plug (ST)



KIT BFLT230

Spring return actuator BFL 230V with thermo-electric fuse (T)



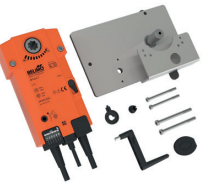
KIT BFLT230-ST

Spring return actuator BFL 230V with thermo-electric fuse (T)








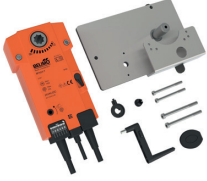



KIT BFN24

Spring return actuator BFN 24V



KIT BFN24-ST

Spring return actuator BFN 24V with plug (ST)

| | | |
|---|-------------------------------|---|
|  | <p>KIT BFN24</p> | <p>Spring return actuator BFN 24V (BFN kits must be used instead of BFL kits for fire dampers produced before 1/7/2015)</p> |
|  | <p>KIT BFN230</p> | <p>Spring return actuator BFN 230V</p> |
|  | <p>KIT BFNT24</p> | <p>Spring return actuator BFN 24V with thermo-electric fuse (T)</p> |
|  | <p>KIT BFNT24-ST</p> | <p>Spring return actuator BFN 24V with thermo-electric fuse (T) and plug (ST)</p> |
|  | <p>KIT BFNT230</p> | <p>Spring return actuator BFN 230V with thermo-electric fuse (T)</p> |
|  | <p>KIT BFNT230-ST</p> | <p>Spring return actuator BFN 230V with thermo-electric fuse (T)</p> |
|  | <p>KIT BF24</p> | <p>Spring return actuator BF 24V (BF kits must be used instead of BFN kits for fire dampers produced before 1/7/2015)</p> |
|  | <p>KIT FDC CFTH</p> | <p>1 limit switch (FCU/DCU/FCB/DCB)</p> |
|  | <p>KIT SN2 BFL/BFN</p> | <p>Auxiliary limit switch 'open/closed'</p> |



KIT FTH72

Fusible link FTH 72°C (for CFTH)



KIT ZBAT 72

Black spare part for thermo-electric fuse for BFLT/BFNT



FUS72 ONE

Fusible link 72°C



MECT

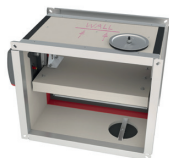
Testbox for mechanisms 24/48 V (magnet, motor, beginning and end of range switches)



KITS EQ

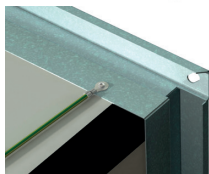
Kit equipotential connection (per set of 5 pieces)

Options - at the time of order



UL

Inspection shutter (set of 2)



EQ

Equipotential connection



EN1751_C

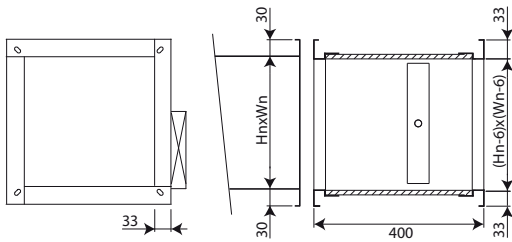
Air-tightness class C (note: for CU2 H > 600 mm or W > 800 mm).



HY

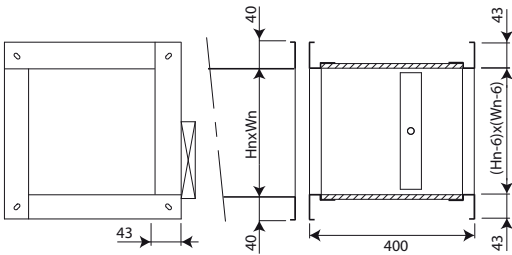
Hygiene certificate according to VDI 6022-1 (note: for CU2 H > 600 mm or W > 800 mm)

Flange types - at the time of order



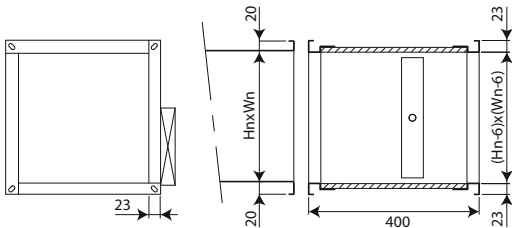
PG30

Connection to ducts with 30 mm flanges (either by sliding profile, or with bolts, or with clamps). Elliptical holes $\varnothing 8,5 \times 16$ mm.



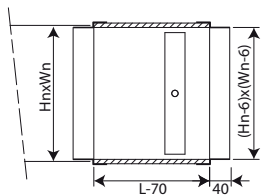
PG40

Connection to ducts with 40 mm flanges (either by sliding profile, or with bolts, or with clamps). Elliptical holes $\varnothing 8,5 \times 16$ mm.



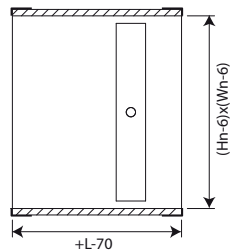
PG20

Connection to ducts with 20 mm flanges (either by sliding profile, or with bolts, or with clamps). Elliptical holes $\varnothing 6,5 \times 16$ mm.



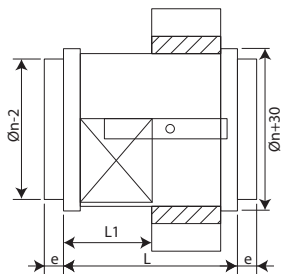
PM

Connection to ducts by insertion. This type of frame is used in case of lack of space for a standard PG30 frame.



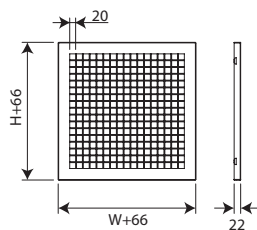
PP

No connection. This type of frame is used on one side of a damper that ends into a room.



PRJ

Circular connection with rubber sealing ring.



PPT

Grill. Very well suited as protection grill on the end piece of a duct system.

Storage and handling

Storage and handling

As this product is a safety element, it should be stored and handled with care.

Avoid:

- any kind of impact or damage
- contact with water
- deformation of the casing

It is recommended:

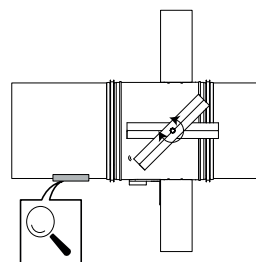
- to unload in a dry area
- not to flip or roll the product to move it
- not to use the damper as a scaffold, working table, etc.
- not to store smaller dampers inside larger ones

Installation

General points

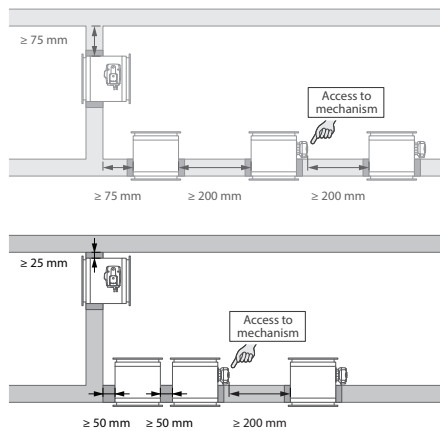
- The installation must comply with the installation manual and the classification report.
- Axis orientation: see the declaration of performance.
- Avoid obstruction of adjoining ducts.
- Product installation: always with closed damper blade.
- Verify if the blade can move freely.
- Please observe safety distances with respect to other construction elements. The operating mechanism must also remain accessible: allow for a clearance of 200 mm around the housing.
- The air tightness class will be maintained if the damper is installed according to the installation manual.
- Rf-t fire dampers are always tested in standardised constructions according to EN 1366-2. The achieved results are valid for similar supporting constructions with a fire resistance, thickness and density equal or superior to the supporting construction used during the test.
- If the wall thickness exceeds the minimum thickness specified in our installation instructions, the following conditions apply to the sealing depth:
 - For flexible walls and sandwich panel system walls, the seal must always be applied over the full depth of the wall.
 - With rigid walls, rigid floors and plaster block walls, the minimum sealing depth as indicated in our installation instructions (often equal to the minimum wall thickness) is sufficient. Apply the seal at the height of the damper blade (from the wall limit indication).
- When installing a fire damper in a flexible metal stud wall, some installation methods do not require reinforcing profiles around the wall opening from a fire protection point of view (see below). Always follow the general instructions of the manufacturer of these wall systems when building this type of wall.
- The damper must remain accessible for inspection and maintenance.
- Schedule at least 2 visual checks each year.

| | TEST | |
|------|-------------------------------------|-------------------------------------|
| 2021 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2022 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2023 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2024 | <input type="checkbox"/> | <input type="checkbox"/> |
| 2025 | <input type="checkbox"/> | <input type="checkbox"/> |



Installation at a minimal distance from another damper or from an adjacent supporting construction

1



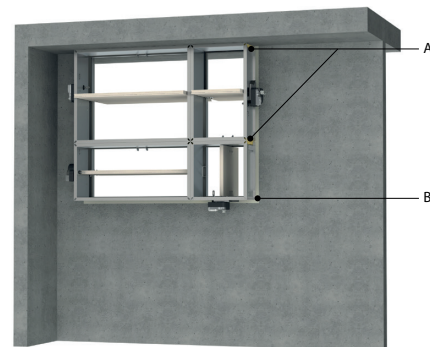
1. Principle

According to the European test standard, a fire damper must be installed at a minimum distance of 75 mm from an adjacent wall and 200 mm from another damper, unless the solution was tested at a shorter distance.

This range of Rf-t fire dampers has been successfully tested and can be installed in a vertical or horizontal supporting construction, at a distance below the minimum set by the standard.

For rectangular dampers, the minimal distance is set to 50 mm between 2 dampers or between a damper and a vertical wall, and to 25 mm between a damper and a floor/ceiling.

2



2. Certified solution

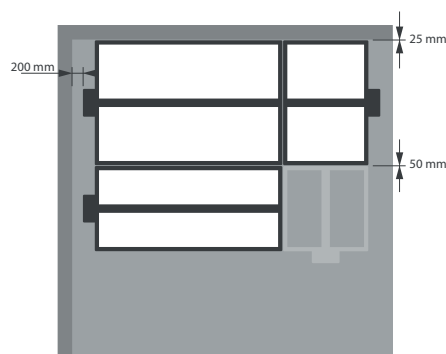
For the Rf-t fire dampers, the solution consists of the following elements: A: Universal sealing for minimal distance; B: Sealing compliant with existing classifications (Declaration of Performance).

A. Sealing of the opening at the side with minimal distances between damper and wall/ceiling or another fire damper: rigid stone wool panels (150 kg/m^3) are applied to a depth of min. 400 mm, of which 150 mm on the mechanism side of the wall. On the non-mechanism side of the wall, the stone wool panels must be at least flush with the wall. This sealing is applied over the whole width/height of the damper(s).

When the damper is installed at a distance of 25 mm from a floor/ceiling, the rigid high-density stone wool panels (A) may be replaced with standard 40 kg/m^3 stone wool, compressed by at least 40%.

B. Sealing of the rest of the opening according to the existing classifications for the fire damper (Declaration of Performance). Detailed information for each wall/sealing combination can be found in the respective installation methods.

3



3. Restrictions

The installer may choose the direction of the blade axis freely: horizontal or vertical axis.

A maximum of 2 rectangular dampers can be installed at a minimum distance from one another, both vertically and horizontally (maximum cluster of 4 dampers).

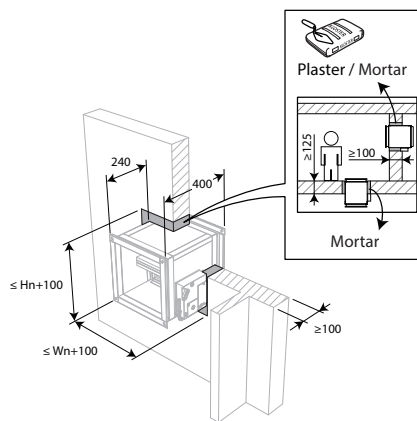
Note: when sealing the opening with panels of fire resistant stone wool, the maximum number of dampers also depends on the maximum "blank seal" allowed for the selected sealing material. Please refer to the manufacturer's instructions for this information.

Installation in rigid wall and floor

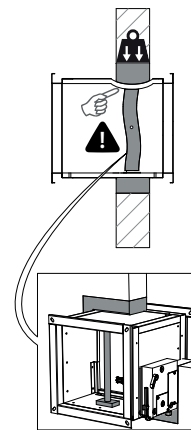
The product was tested and approved in:

| Range | Wall type | Sealing | Classification | |
|--|-------------|--|-----------------|---|
| $200 \times 200 \text{ mm} \leq \text{CU2} \leq 1500 \times 1000 \text{ mm}$ | Rigid wall | Aerated concrete $\geq 100 \text{ mm}$ | Gypsum | El 120 ($v_e i \leftrightarrow o$) S - (500 Pa) |
| $200 \times 200 \text{ mm} \leq \text{CU2} \leq 1500 \times 1000 \text{ mm}$ | Rigid wall | Aerated concrete $\geq 100 \text{ mm}$ | Mortar | El 90 ($v_e i \leftrightarrow o$) S - (300 Pa) |
| $200 \times 200 \text{ mm} \leq \text{CU2} \leq 1500 \times 1000 \text{ mm}$ | Rigid floor | Aerated concrete $\geq 150 \text{ mm}$ | Mortar | El 120 ($h_o i \leftrightarrow o$) S - (500 Pa) |
| $200 \times 200 \text{ mm} \leq \text{CU2} \leq 1200 \times 800 \text{ mm}$ | Rigid wall | Aerated concrete $\geq 100 \text{ mm}$ | Mortar | El 120 ($v_e i \leftrightarrow o$) S - (500 Pa) |
| $200 \times 200 \text{ mm} \leq \text{CU2} \leq 1200 \times 800 \text{ mm}$ | Rigid wall | Aerated concrete $\geq 100 \text{ mm}$ | Gypsum | El 90 ($v_e i \leftrightarrow o$) S - (500 Pa) |
| $1200 \times 800 \text{ mm} < \text{CU2} \leq 1500 \times 1000 \text{ mm}$ | Rigid wall | Aerated concrete $\geq 100 \text{ mm}$ | Mortar / Gypsum | El 60 ($v_e i \leftrightarrow o$) S - (500 Pa) |
| $1200 \times 800 \text{ mm} < \text{CU2} \leq 1500 \times 1000 \text{ mm}$ | Rigid wall | Aerated concrete $\geq 100 \text{ mm}$ | Mortar / Gypsum | E 120 ($v_e i \leftrightarrow o$) S - (500 Pa) |
| $1200 \times 800 \text{ mm} < \text{CU2} \leq 1500 \times 800 \text{ mm}$ | Rigid wall | Aerated concrete $\geq 100 \text{ mm}$ | Mortar | El 90 ($v_e i \leftrightarrow o$) S - (300 Pa) |
| $200 \times 200 \text{ mm} \leq \text{CU2} \leq 1500 \times 800 \text{ mm}$ | Rigid floor | Aerated concrete $\geq 125 \text{ mm}$ | Mortar | El 120 ($h_o i \leftrightarrow o$) S - (300 Pa) |

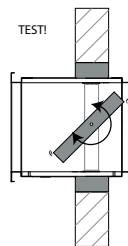
1



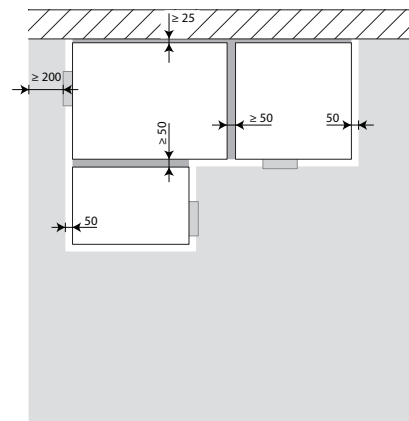
2



3

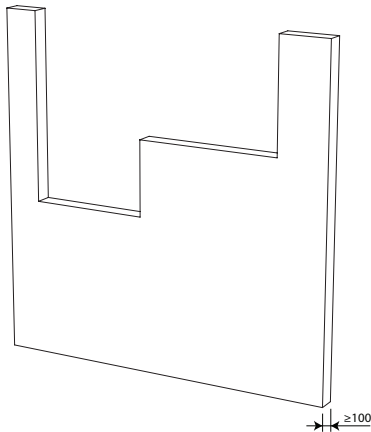


4



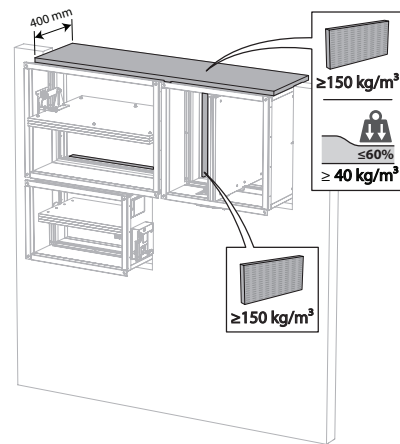
4. The dampers can be installed at a minimum distance from an adjacent floor/ceiling ($\geq 25 \text{ mm}$), from an adjacent wall or from another damper ($\geq 50 \text{ mm}$).

5



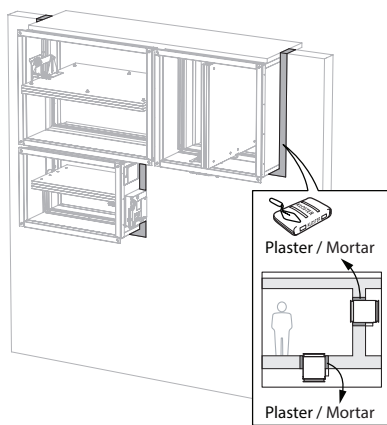
5. Make the necessary openings ($W_n + 100 \text{ mm}$) x ($H_n + 100 \text{ mm}$) in the wall.

6



6. Mount the dampers in the opening.
 Apply rigid stone wool panels ($\geq 150 \text{ kg/m}^3$) to a depth of 400 mm (150 mm on the mechanism side of the wall) to seal the opening at the side with minimal distances.
 This sealing is applied over the whole width/height of the damper(s).
 When the damper is installed at a distance of 25 mm from a floor/ceiling, the rigid high-density stone wool panels may be replaced with standard $\geq 40 \text{ kg/m}^3$ stone wool (e.g. Rockfit 431), compressed by at least 40%.

7



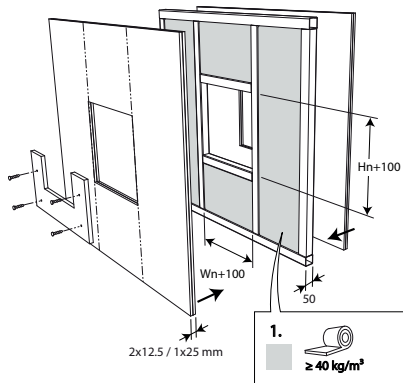
7. Seal the rest of the opening with standard mortar or gypsum (only for vertical walls).

Installation in flexible wall (metal stud gypsum plasterboard wall)

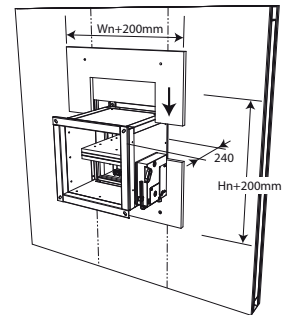
The product was tested and approved in:

| Range | Wall type | Sealing | Classification | |
|---|---------------|---|--|---|
| $200 \times 200 \text{ mm} \leq \text{CU2} \leq 1200 \times 800 \text{ mm}$ | Flexible wall | Metal studs gypsum plasterboard Type A (EN 520) $\geq 100 \text{ mm}$ | Stone wool $\geq 40 \text{ kg/m}^3$ + cover plates | EI 60 (v_e i \leftrightarrow o) S - (500 Pa) |
| $200 \times 200 \text{ mm} \leq \text{CU2} \leq 1200 \times 800 \text{ mm}$ | Flexible wall | Metal studs gypsum plasterboard Type F (EN 520) $\geq 100 \text{ mm}$ | Stone wool $\geq 40 \text{ kg/m}^3$ + cover plates | EI 90 (v_e i \leftrightarrow o) S - (500 Pa) |
| $1200 \times 800 \text{ mm} < \text{CU2} \leq 1500 \times 800 \text{ mm}$ | Flexible wall | Metal studs gypsum plasterboard Type F (EN 520) $\geq 100 \text{ mm}$ | Stone wool $\geq 40 \text{ kg/m}^3$ + cover plates | EI 90 (v_e i \leftrightarrow o) S - (300 Pa) |
| $1200 \times 800 \text{ mm} < \text{CU2} \leq 1500 \times 800 \text{ mm}$ | Flexible wall | Metal studs gypsum plasterboard Type F (EN 520) $\geq 100 \text{ mm}$ | Stone wool $\geq 40 \text{ kg/m}^3$ + cover plates | E 120 (v_e i \leftrightarrow o) S - (300 Pa) |

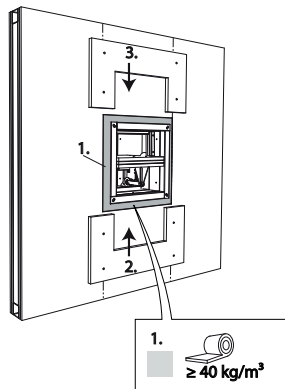
1



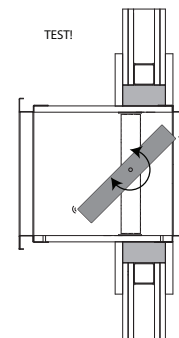
2



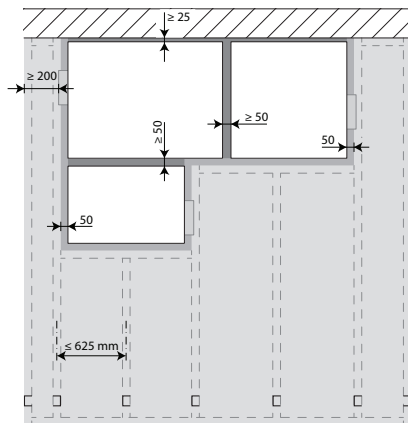
3



4

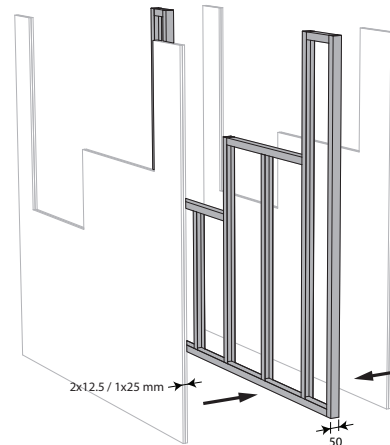


5



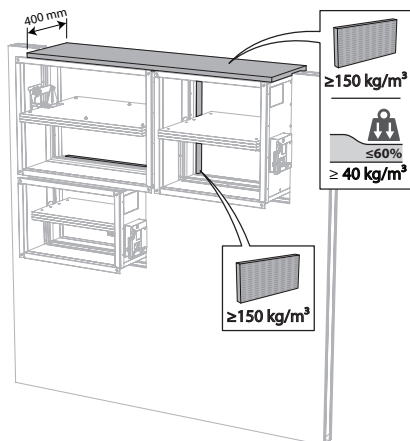
5. The dampers can be installed at a minimum distance from an adjacent floor/ceiling (≥ 25 mm), from an adjacent wall or from another damper (≥ 50 mm).

6



6. Build the drywall and foresee horizontal and vertical studs around the opening.

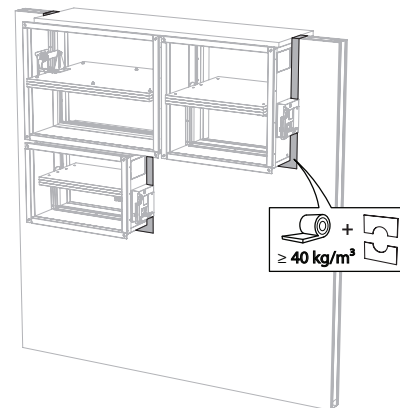
7



7. Mount the dampers in the opening.
Apply rigid stone wool panels (≥ 150 kg/m³) to a depth of 400 mm (150 mm on the mechanism side of the wall) to seal the opening at the side with minimal distances. This sealing is applied over the whole width/height of the damper(s).

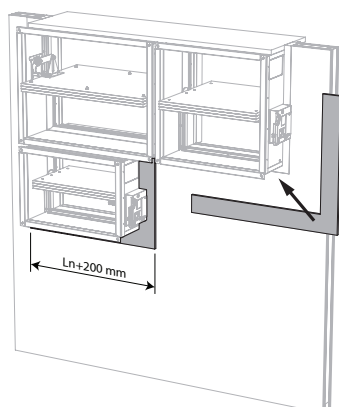
When the damper is installed at a distance of 25 mm from a floor/ceiling, the rigid high-density stone wool panels may be replaced with standard ≥ 40 kg/m³ stone wool (e.g. Rockfit 431), compressed by at least 40%.

8



8. Seal the rest of the opening with standard stone wool 40 kg/m³ across the entire wall thickness.

9

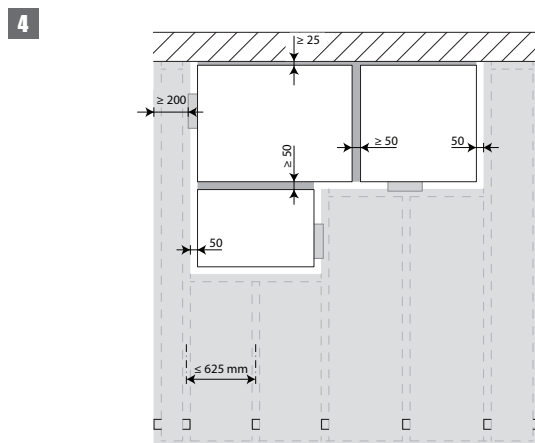
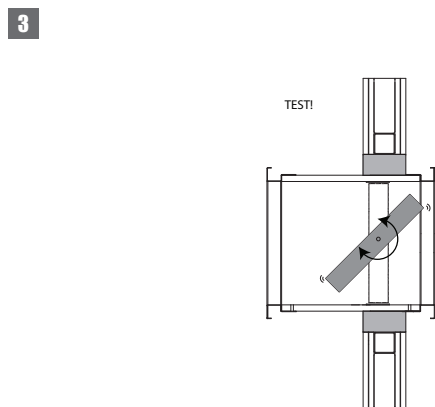
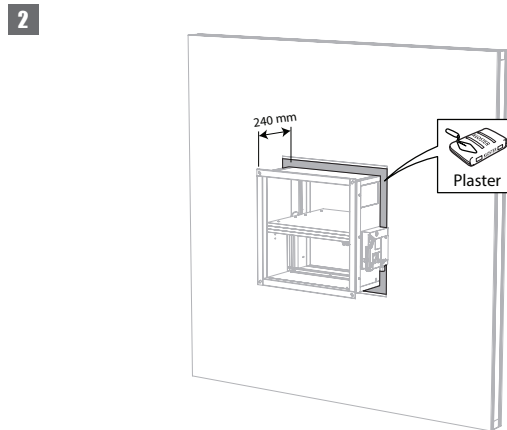
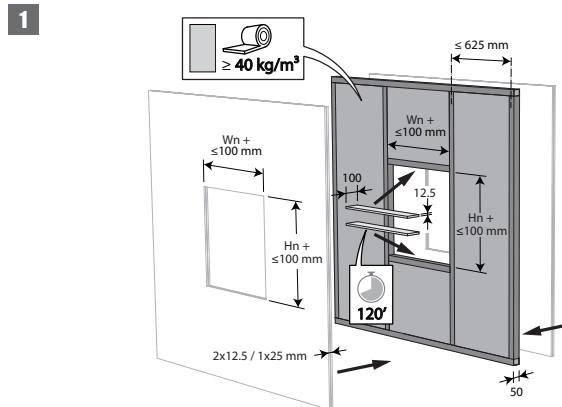


9. Apply cover plates (gypsum plasterboards) to finish the surface at both sides.
Seal off the space between the plasterboards with jointfiller.

Installation in flexible wall (metal stud gypsum plasterboard wall), sealing with gypsum

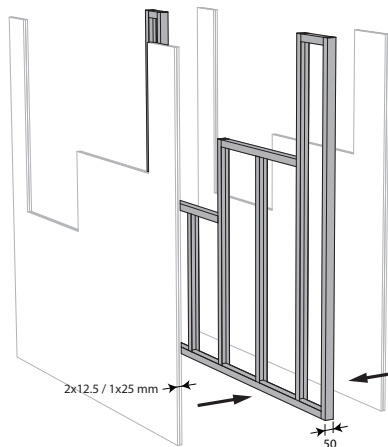
The product was tested and approved in:

| Range | Wall type | Sealing | Classification |
|--|---------------|---------|---|
| $200 \times 200 \text{ mm} \leq \text{CU2} \leq 1500 \times 1000 \text{ mm}$ | Flexible wall | Gypsum | EI 120 ($v_e i \leftrightarrow o$) S - (500 Pa) |
| $200 \times 200 \text{ mm} \leq \text{CU2} \leq 1200 \times 800 \text{ mm}$ | Flexible wall | Gypsum | EI 60 ($v_e i \leftrightarrow o$) S - (500 Pa) |



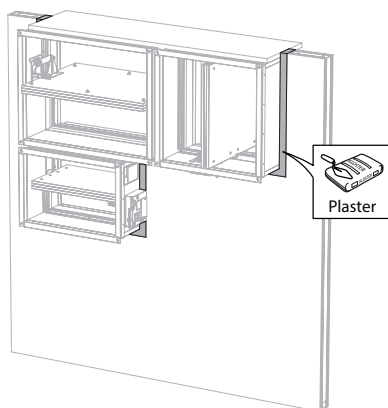
4. The dampers can be installed at a minimum distance from an adjacent floor/ceiling ($\geq 25 \text{ mm}$), from an adjacent wall or from another damper ($\geq 50 \text{ mm}$).

5



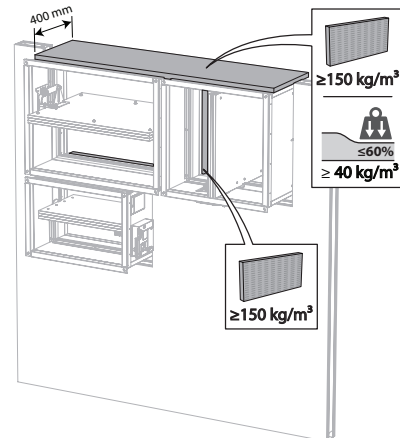
5. Build the drywall and foresee horizontal and vertical studs around the opening.

7



7. Seal the rest of the opening (50 mm) with standard gypsum across the entire wall thickness.

6

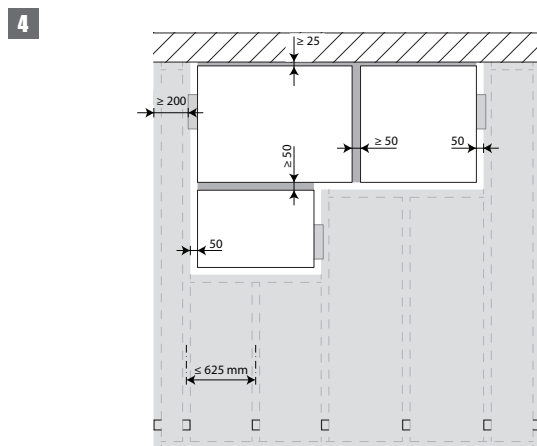
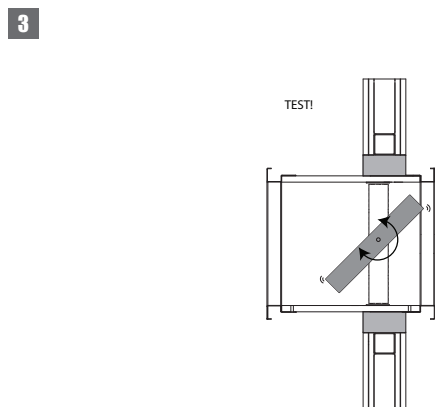
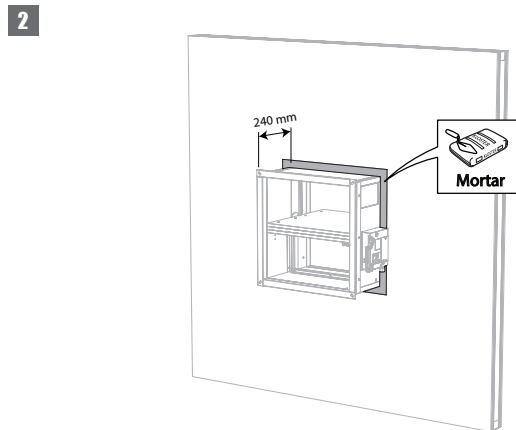
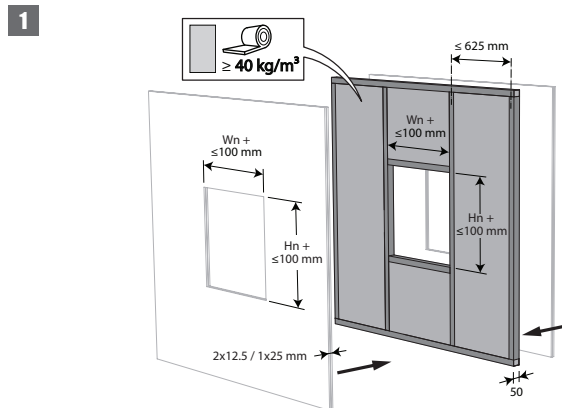


6. Mount the dampers in the opening.
Apply rigid stone wool panels ($\geq 150 \text{ kg/m}^3$) to a depth of 400 mm (150 mm on the mechanism side of the wall) to seal the opening at the side with minimal distances. This sealing is applied over the whole width/height of the damper(s).
When the damper is installed at a distance of 25 mm from a floor/ceiling, the rigid high-density stone wool panels may be replaced with standard $\geq 40 \text{ kg/m}^3$ stone wool (e.g. Rockfit 431), compressed by at least 40%.

Installation in flexible wall (metal stud gypsum plasterboard wall), sealing with mortar

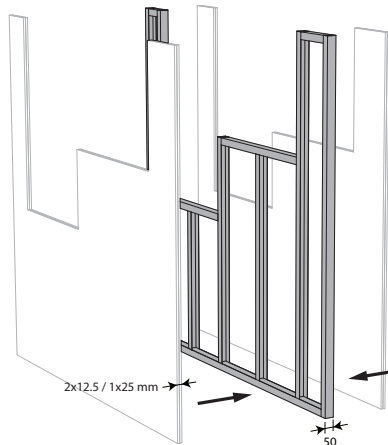
The product was tested and approved in:

| Range | Wall type | Sealing | Classification |
|--|---------------|---------|--|
| $200 \times 200 \text{ mm} \leq \text{CU2} \leq 1500 \times 1000 \text{ mm}$ | Flexible wall | Mortar | El 90 ($v_e i \leftrightarrow o$) S - (300 Pa) |



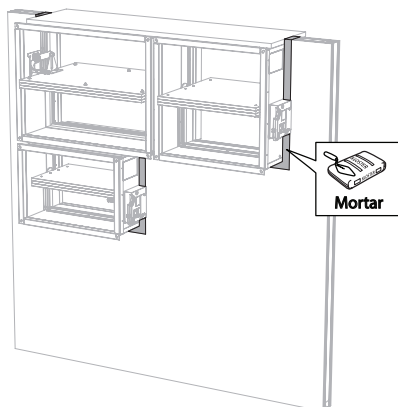
4. The dampers can be installed at a minimum distance from an adjacent floor/ceiling (≥ 25 mm), from an adjacent wall or from another damper (≥ 50 mm).

5



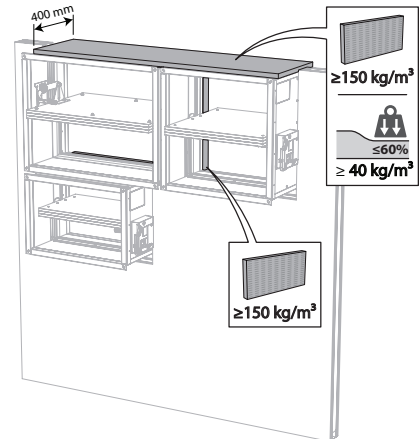
5. Build the drywall and foresee horizontal and vertical studs around the opening.

7



7. Seal the rest of the opening (50 mm) with standard mortar across the entire wall thickness.

6



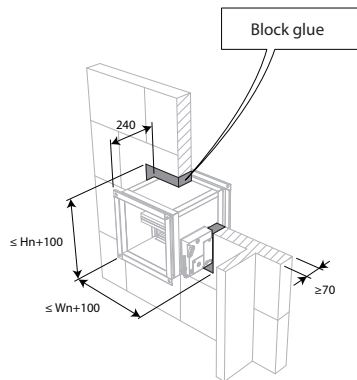
6. Mount the dampers in the opening.
Apply rigid stone wool panels ($\geq 150 \text{ kg/m}^3$) to a depth of 400 mm (150 mm on the mechanism side of the wall) to seal the opening at the side with minimal distances. This sealing is applied over the whole width/height of the damper(s).
When the damper is installed at a distance of 25 mm from a floor/ceiling, the rigid high-density stone wool panels may be replaced with standard $\geq 40 \text{ kg/m}^3$ stone wool (e.g. Rockfit 431), compressed by at least 40%.

Installation in gypsum block wall

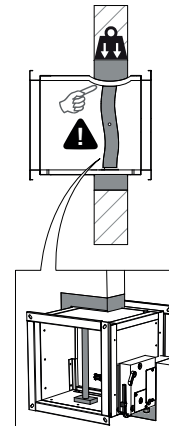
The product was tested and approved in:

| Range | Wall type | Sealing | Classification |
|--|---------------|-------------------------------------|---|
| $200 \times 200 \text{ mm} \leq \text{CU2} \leq 1500 \times 1000 \text{ mm}$ | Flexible wall | Gypsum blocks $\geq 100 \text{ mm}$ | EI 120 ($v_e i \leftrightarrow o$) S - (500 Pa) |
| $200 \times 200 \text{ mm} \leq \text{CU2} \leq 1200 \times 800 \text{ mm}$ | Flexible wall | Gypsum blocks $\geq 70 \text{ mm}$ | EI 120 ($v_e i \leftrightarrow o$) S - (500 Pa) |

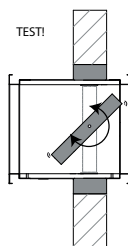
1



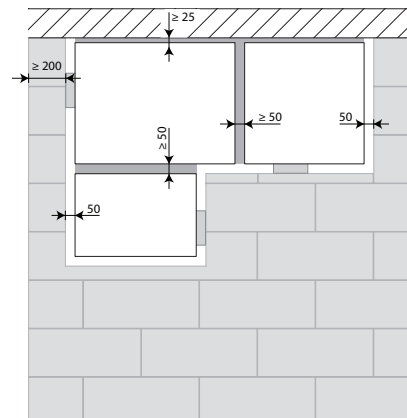
2



3

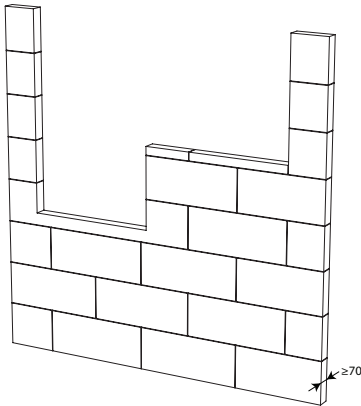


4



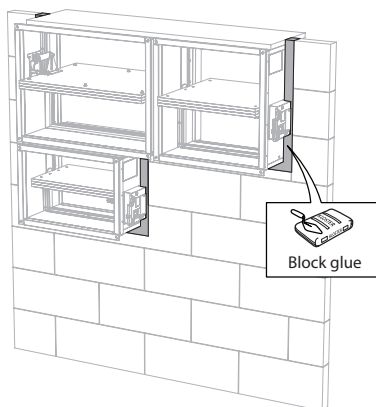
4. The dampers can be installed at a minimum distance from an adjacent floor/ceiling ($\geq 25 \text{ mm}$), from an adjacent wall or from another damper ($\geq 50 \text{ mm}$).

5



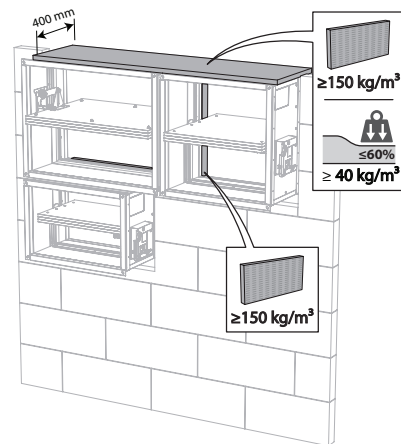
5. Make the necessary openings ($W_n + 100 \text{ mm}$) x ($H_n + 100 \text{ mm}$) in the wall.

7



7. Seal the rest of the opening (50 mm) with block glue across the entire wall thickness.

6

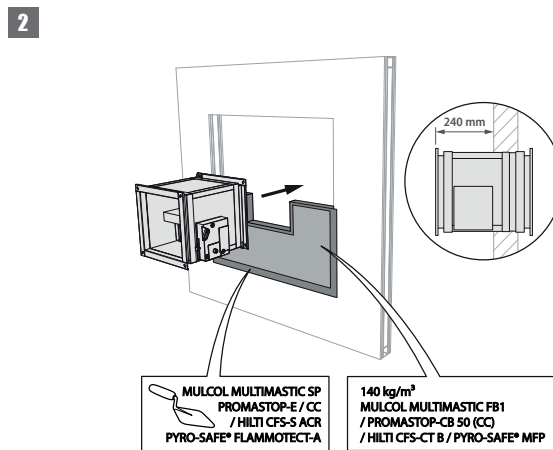
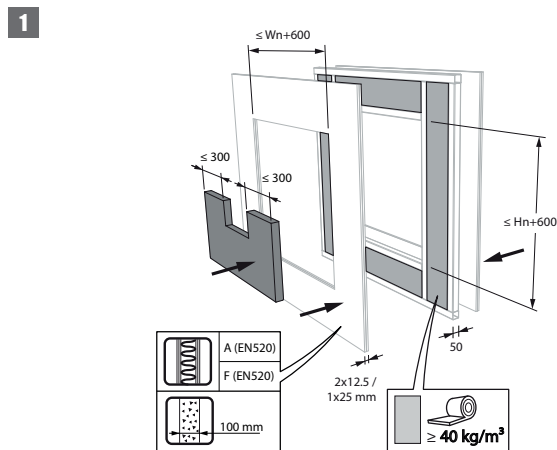


6. Mount the dampers in the opening.
Apply rigid stone wool panels ($\geq 150 \text{ kg/m}^3$) to a depth of 400 mm (150 mm on the mechanism side of the wall) to seal the opening at the side with minimal distances. This sealing is applied over the whole width/height of the damper(s).
When the damper is installed at a distance of 25 mm from a floor/ceiling, the rigid high-density stone wool panels may be replaced with standard $\geq 40 \text{ kg/m}^3$ stone wool (e.g. Rockfit 431), compressed by at least 40%.

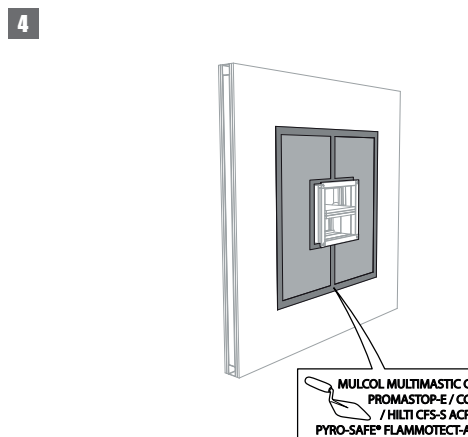
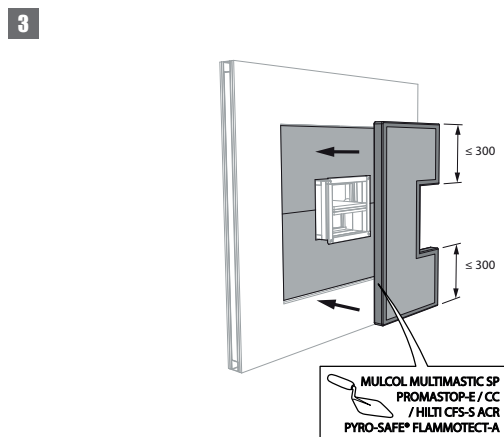
Installation in flexible and rigid wall, sealing with rigid rock wool boards with coating

The product was tested and approved in:

| Range | Wall type | Sealing | Classification |
|---|---------------|---|---|
| $200 \times 200 \text{ mm} \leq \text{CU2} \leq 1200 \times 800 \text{ mm}$ | Rigid wall | Aerated concrete $\geq 100 \text{ mm}$ | El 90 (v_e i \leftrightarrow o) S - (300 Pa) |
| $200 \times 200 \text{ mm} \leq \text{CU2} \leq 1200 \times 800 \text{ mm}$ | Flexible wall | Metal studs gypsum plasterboard Type A (EN 520) $\geq 100 \text{ mm}$ | El 60 (v_e i \leftrightarrow o) S - (300 Pa) |
| $200 \times 200 \text{ mm} \leq \text{CU2} \leq 1200 \times 800 \text{ mm}$ | Flexible wall | Metal studs gypsum plasterboard Type F (EN 520) $\geq 100 \text{ mm}$ | El 90 (v_e i \leftrightarrow o) S - (300 Pa) |

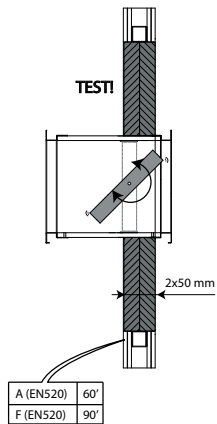


1. The opening around the damper is sealed with 2 layers of 50 mm-thick mineral wool panels with fire resistant coating on one side (type PROMASTOP-CB 50 / PROMASTOP-CB/CC 50 / HILTI CFS-CT B / Mulcol Multimastic FB1 / PYRO-SAFE® MFP).

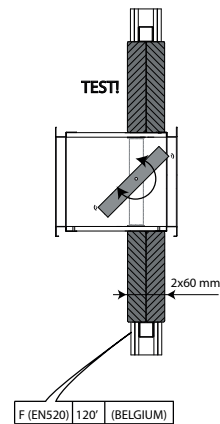


4. The joints on these 2 layers must be installed staggered and covered all around the edge with coating (type PROMASTOP-E / PROMASTOP-CC / HILTI CFS-S-ACR / Mulcol Multimastic SP / PYRO-SAFE® FLAMMOTECT-A).

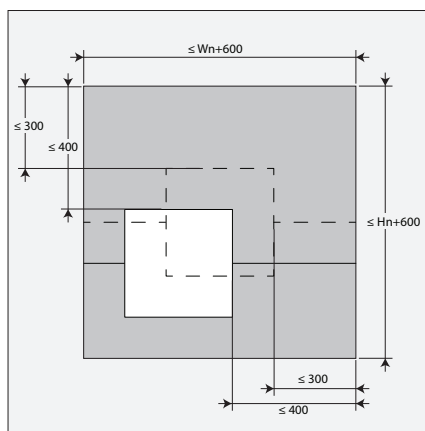
5



6

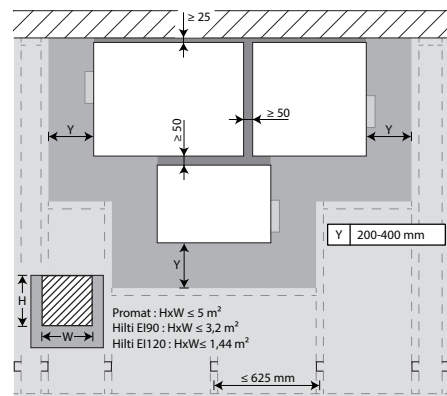


7



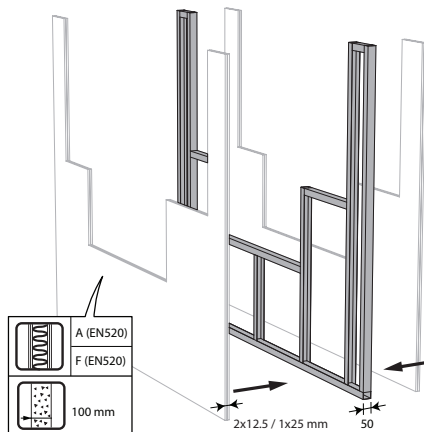
7. The damper does not need to be centered in the opening (with max dimensions fire damper + 600 mm). The maximal distance between the damper and the edge of the opening is 400 mm.

8



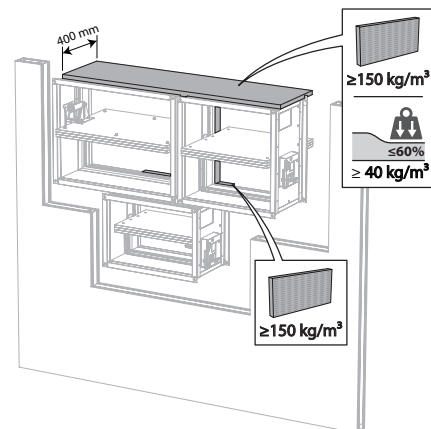
8. The dampers can be installed at a minimum distance from an adjacent floor/ceiling (≥ 25 mm), from an adjacent wall or from another damper (≥ 50 mm).

9



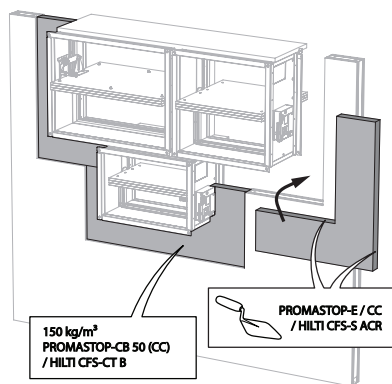
9. Make the necessary opening in the wall.

10



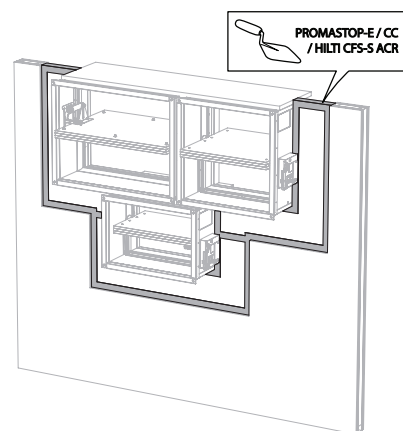
10. Mount the dampers in the opening.
Apply rigid stone wool panels ($\geq 150 \text{ kg/m}^3$) to a depth of 400 mm (150 mm on the mechanism side of the wall) to seal the opening at the side with minimal distances. This sealing is applied over the whole width/height of the damper(s).
When the damper is installed at a distance of 25 mm from a floor/ceiling, the rigid high-density stone wool panels may be replaced with standard $\geq 40 \text{ kg/m}^3$ stone wool (e.g. Rockfit 431), compressed by at least 40%.

11



11. Seal the rest of the opening with 2 layers of 50 mm-thick coated rigid mineral wool panels (see above).

12

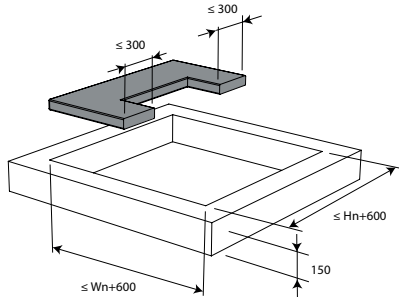


Installation in rigid floor, sealing with rigid rock wool boards with coating

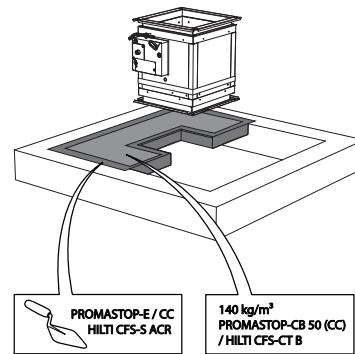
The product was tested and approved in:

| Range | Wall type | Sealing | Classification |
|---|-------------|--|--|
| $200 \times 200 \text{ mm} \leq \text{CU2} \leq 1200 \times 800 \text{ mm}$ | Rigid floor | Aerated concrete $\geq 150 \text{ mm}$ | Stone wool + coating $\geq 140 \text{ kg/m}^3$ |
| | | | El 90 (h_0 i ↔ o) S - (300 Pa) |

1

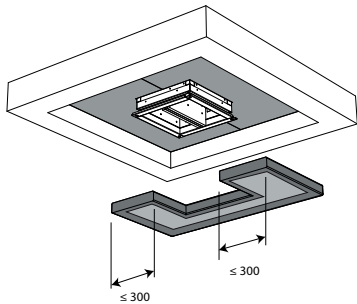


2

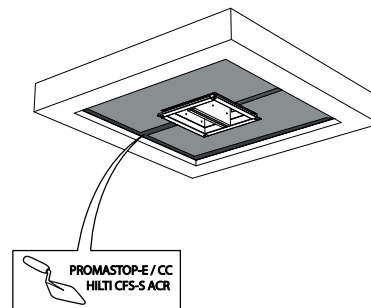


1. The opening around the damper is sealed with 2 layers of 50 mm-thick mineral wool panels with fire resistant coating on one side (type PROMASTOP-CB 50 / PROMASTOP-CB/CC 50 / HILTI CFS-CT B).

3

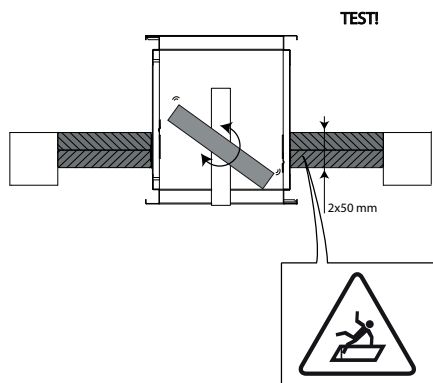


4

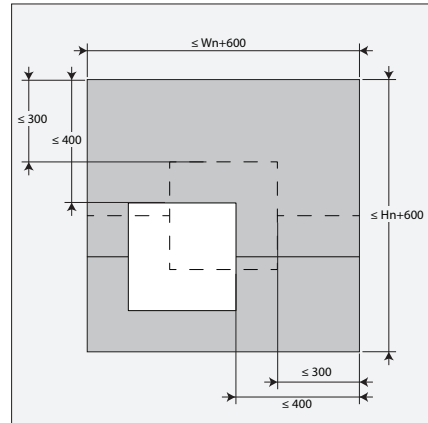


3. The joints on these 2 layers must be installed staggered and covered all around the edge with coating (type PROMASTOP-E / PROMASTOP-CC / HILTI CFS-S ACR).

5

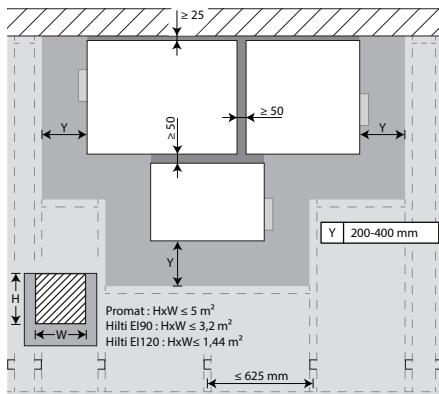


6



6. The damper does not need to be centered in the opening (with max dimensions fire damper + 600 mm). The maximal distance between the damper and the edge of the opening is 400 mm.

7



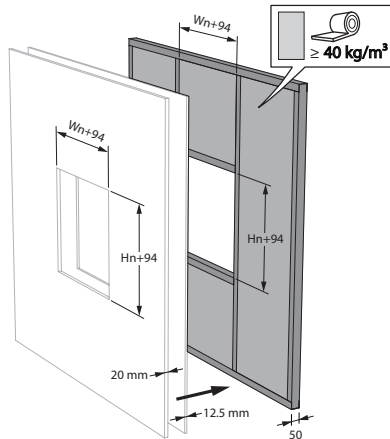
7. The dampers can be installed at a minimum distance from an adjacent floor/ceiling (≥ 25 mm), from an adjacent wall or from another damper (≥ 50 mm).
For details, please refer to 'Installation in flexible and rigid wall, sealing with rigid rock wool boards with coating'

Installation in shaft wall

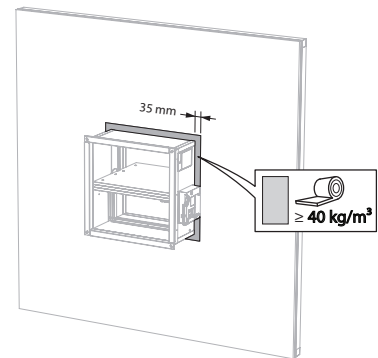
The product was tested and approved in:

| Range | Wall type | Sealing | Classification |
|---|---|--|---|
| $200 \times 200 \text{ mm} \leq \text{CU2} \leq 1500 \times 800 \text{ mm}$ | Asymmetrical flexible wall (shaft wall) Metal studs gypsum plasterboard Type F (EN 520) $\geq 82.5 \text{ mm}$ | Stone wool $\geq 40 \text{ kg/m}^3$ + cover plates | El 60 ($v_e \text{ i} \leftrightarrow \text{o}$) S - (300 Pa) |

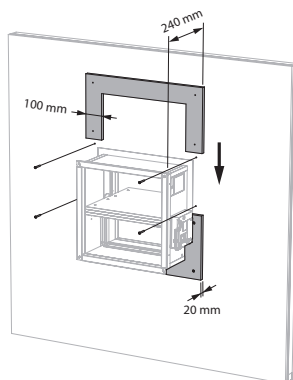
1



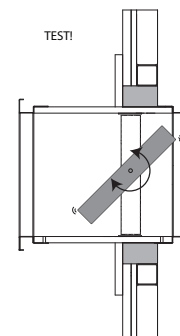
2



3



4

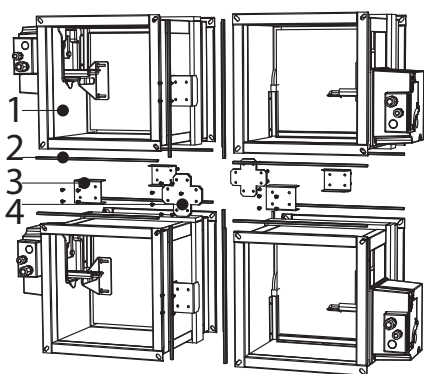


Battery assembly

The product was tested and approved in:

| Range | Wall type | | Sealing | Classification |
|--|------------|------------------------------|---------|--|
| CU2/B ≤ 4 x CU2 (200x200 mm ≤ CU2 ≤ 1200x800 mm) | Rigid wall | Reinforced concrete ≥ 110 mm | Mortar | El 120 (v _e i ↔ o) S - (500 Pa) |
| CU2/B ≤ 4 x CU2 (200x200 mm ≤ CU2 ≤ 1500x800 mm) | Rigid wall | Reinforced concrete ≥ 110 mm | Mortar | El 60 (v _e i ↔ o) S - (500 Pa) |

1



1. Individual damper CU2;
2. EPDM foam;
3. Connection piece;
4. Center plate - B22 (see technical note C31)

Maintenance

- No specific maintenance required.
- Schedule at least 2 visual checks each year.
- Remove dust and all other particles before use.
- Follow local maintenance regulations (i.e. BS9999 Annex V; NF S 61-933) and EN13306.
- Read the maintenance instructions on our website:
https://www.rft.eu/assets//PIM/DOCUMENTS/BROCHURE%20KITS/BRO_K139_MAINTENANCE_C.pdf
- Use the damper at up to 95% humidity, non-condensing.
- The fire damper can be cleaned with a dry or slightly damp cloth. It is forbidden to use abrasive cleaners or mechanical cleaning techniques (brush).

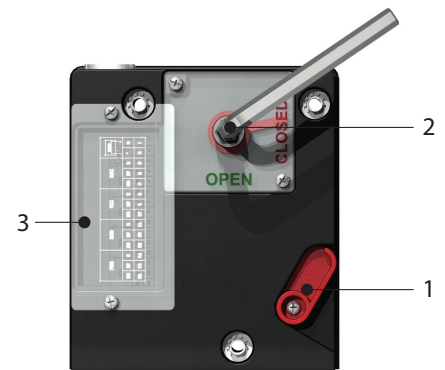
Operation and mechanisms



CFTH Mechanism with fusible link

The unlocking mechanism CFTH automatically unlatches the damper blade when the temperature in the duct rises above 72°C. The damper can also be unlocked and reset manually.

1. unlocking button
2. resetting handle
3. cable entrance



Options - at the time of order

| | |
|-------------|--|
| FCU | Limit switch 'closed' |
| FDCU | Unipolar limit switch 'open/closed' |
| FDCB | Bipolar auxiliary limit switch 'open/closed' |

Unlocking

- **manual unlocking:** use the unlocking button (1).
- **automatic unlocking:** when the fusible link melts at 72° C.
- **remote unlocking:** n/a

Resetting

- **manual resetting:** use the enclosed Hex key and turn clockwise(2).
- **motorised resetting:** n/a

Caution:

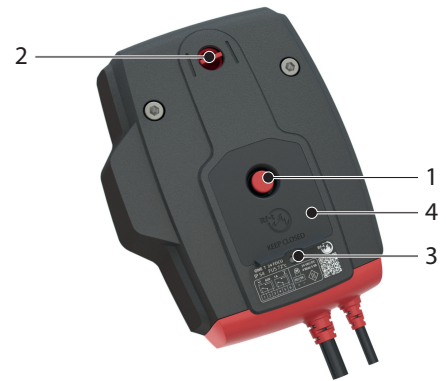
- ▲ The mechanism may never be tested on its own, without being attached to the damper. Such a test might damage the mechanism or the operator might be injured.



ONE Spring return actuator for remote control

The spring-return actuator ONE is designed to easily operate Rf-t fire dampers of all sizes, automatically or remotely. Six models are available, 24 or 230 volt, with FDCU or FDCB position switches; and optionally with plug (ST).

1. unlocking button
2. blade position indicator
3. LED
4. battery compartment to reset motor



Unlocking

- **manual unlocking:** shortly press the unlocking button (1) once.
- **automatic unlocking:** the fusible link reacts as soon as the temperature in the duct reaches 72°C.
- **remote unlocking:** by interrupting the power supply.

Resetting

- **manual resetting:** open the battery compartment (4) and press a 9V battery against the contact springs. Hold this position until the LED (3) emits a continuous light.
Check whether the indicator (2) shows that the damper blade is in the open position.
Remove the battery, the LED fades away.
Close the battery compartment.
- **motorised resetting:** switch off the power supply for at least 5 sec. Power the actuator (respect the prescribed voltage) for at least 75 sec. The resetting stops automatically when the end of range is reached (damper open).

Caution:

- ⚠ If the LED (3) flickers fast (3x/sec.), the battery is discharged: use a new battery.
- ⚠ If the LED (3) flickers slowly (1x/sec), the resetting is in progress.
- ⚠ If the LED (3) is continuously on, the resetting is complete and the motor is powered.
- ⚠ If the actuator detects voltage on the power cable, a brief contact of the battery is enough to start the resetting process.
- ⚠ The power supply of this actuator cannot be individually replaced. If the cable is damaged, the whole unit must be discarded and replaced.
- ⚠ The housing of the mechanism contains a temperature sensor. When the temperature in the housing exceeds 72°C, the mechanism unlocks. The LED flashes twice per second. When the temperature drops below 72°C, the mechanism can only be reset in a motorised manner after a manual reset (with a battery).
- ⚠ The end of range switches need 1 second after operation to adopt a stable position.
- ⚠ Make sure the thermal trigger device is present in the actuator. The actuator might not function properly if this is not the case.

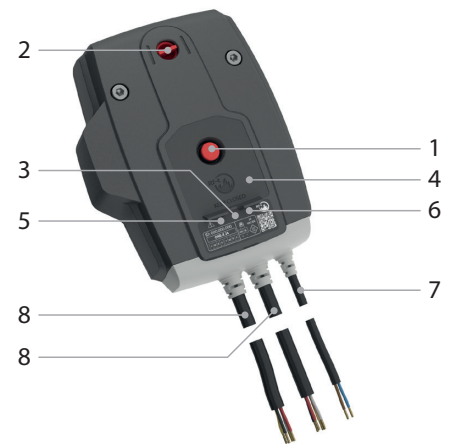
| | prod. < 1/7/2015 | | | | prod. ≥ 1/7/2015 | | | |
|---------|-------------------|-------------------|---------------------|---------------------|-----------------------|-------------------|---------------------|---------------------|
| | CR60(1s) CR120 | CU-LT CU-LT-1s | CR2≤400 CU2≤1200 | CR2>400 CU2>1200 | CR60(1s) CR120(1s) | CU-LT CU-LT-1s | CR2≤400 CU2≤1200 | CR2>400 CU2>1200 |
| Kit ONE | ● | ● | ● | | ● | ● | ● | ● |



ONE-X Spring return actuator with integrated communication module.

The ONE-X is a spring return actuator with integrated communication module designed to simply operate Rf-t fire dampers of all sizes, automatically or remotely. The ONE-X is available in two versions: 24 V and 230 V.

1. unlocking button
2. blade position indicator
3. LED red: status
4. battery compartment
5. LED blue: communication
6. LED orange: error message
7. supply
8. bus cable



Unlocking

- **manual unlocking:** shortly press the unlocking button (1) once.
- **automatic unlocking:** the fusible link reacts as soon as the temperature in the duct reaches 72°C.
- **remote unlocking:** via ZENiX controller

Resetting

- **manual resetting:** Open the battery compartment (4) and press a 9V battery against the contact springs. Hold this position until the red LED (3) emits a continuous light. Control whether the indicator (2) indicates that the damper blade is open. Remove the battery. Close the battery compartment.
- **motorised resetting:** via ZENiX controller. By applying voltage during first use.

Caution:

- ⚠ If the ONE-X detects voltage on the power cable, a brief contact of the battery is enough to start the resetting process, provided the ZENiX controller has sent the damper to open position or the ONE-X is being operated for the first time.
- ⚠ The power supply of this actuator cannot be individually replaced. If the cable is damaged, the whole unit must be discarded and replaced.
- ⚠ The housing of the mechanism contains a temperature sensor. When the temperature in the housing exceeds 72°C, the mechanism unlocks. The LED flashes twice per second. When the temperature drops below 72°C, the mechanism can only be reset in a motorised manner after a manual reset (with a battery).
- ⚠ The end of range switches need 1 second after operation to adopt a stable position.

Safety regulations:

- ⚠ Do not use the ONE-X for any application other than the specified applications, in particular not in aircraft or other airborne vehicles.
- ⚠ The company that purchases and/or installs the ONE-X is fully responsible for the correct operation of the entire system. Only authorised specialists may perform the installation. All rules and regulations, including statutory regulations, must be observed during installation.
- ⚠ This device contains electrical or electronic components and must not be disposed of as household waste. All locally applicable regulations and requirements must be strictly observed.



BFL(T) Remotely controlled spring return actuator

The spring return actuator BFL(T) is especially designed to operate fire dampers remotely. The BFL(T) variant is intended for fire dampers with smaller dimensions (CR60, CR120, CR2 with $\varnothing \leq 400$ mm, CRS60 with $\varnothing \leq 315$ mm, CU2 / CU2-15 / CU4 with B+H ≤ 1200 mm or for CU-LT and CU-LT-1s). For Markage FD with H = 200 mm or H = 2200 mm (in combination with BFT motor).

1. locking button
2. plug (ST)
3. access for manual resetting
4. thermo-electric tripping device (T)



Options - at the time of order

SN2 BFL/BFN Auxiliary limit switch 'open/closed'

Unlocking

- **manual unlocking:** place the locking button on "unlock". (In case of BFLT: the damper can alternatively be unlocked by pushing the "test" button on the thermo-electric fuse)
- **automatic unlocking:** the thermo-electric fuse reacts as soon as the temperature reaches 72°C (type BFLT).
- **remote unlocking:** by interrupting the power supply.

Caution:

- ⚠ The thermo-electric fuse will not move the damper into its safety position (when the temperature reaches 72°C) if the motor is not powered.

Resetting

- **manual resetting:** turn the enclosed handle anti-clockwise. To block the motor, place the locking button on "lock"
- **motorised resetting:** switch off the power supply for at least 10 seconds. Supply the actuator (respect the prescribed voltage) for at least 75 seconds. The resetting stops automatically when the end of range is reached (damper open) - it takes about 60 seconds to reset the damper - or when the power supply is interrupted.

Caution:

- ⚠ Do not use a drill or powered screwdriver.
- ⚠ Stop as soon as the motor is completely rearmed (end of range).

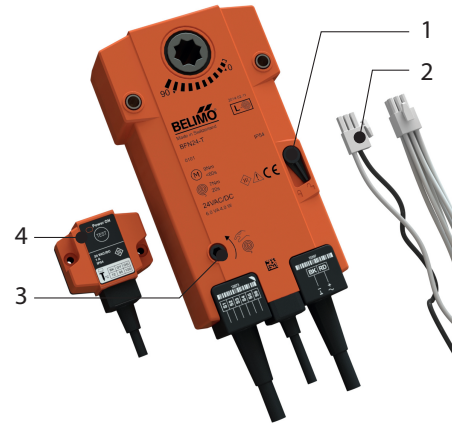
| | prod. < 1/7/2015 | | | | prod. ≥ 1/7/2015 | | | |
|---------|-------------------|-------------------|---------------------|---------------------|------------------------|-------------------|---------------------|---------------------|
| | CR60(1s) CR120 | CU-LT CU-LT-1s | CR2≤400 CU2≤1200 | CR2>400 CU2>1200 | CR60(1s) CR120 (1s) | CU-LT CU-LT-1s | CR2≤400 CU2≤1200 | CR2>400 CU2>1200 |
| Kit BFL | | | | | ● | ● | ● | |
| Kit BFN | ● | ● | ● | | | | | ● |
| Kit BF | | | | ● | | | | |



BFN(T) Remotely controlled spring return actuator

The spring return actuator BFN(T) is especially designed to operate fire dampers remotely. The BFN(T) variant is intended for fire dampers with large dimensions (CRE60, CR2 with $\varnothing > 400$ mm, CRS60 with $\varnothing > 315$ mm or CU2, CU2-15, CU4 with B+H > 1200 mm. For Markage FD with H of 400 and 600 mm or with H = 1200 mm (2 pcs) and with H = 2400 mm (in combination with BFT motor).

1. locking button
2. plug (ST)
3. access for manual resetting
4. thermo-electric tripping device (T)



Options - at the time of order

SN2 BFL/BFN Auxiliary limit switch 'open/closed'

Unlocking

- **manual unlocking:** place the locking button on "unlock". (In case of BFNT: the damper can alternatively be unlocked by pushing the "test" button on the thermo-electric fuse)
- **automatic unlocking:** the thermo-electric fuse reacts as soon as the temperature reaches 72°C (type BFN(T)).
- **remote unlocking:** by interrupting the power supply.

Caution:

- ⚠ The thermo-electric fuse will not move the damper into its safety position (when the temperature reaches 72°C) if the motor is not powered.

Resetting

- **manual resetting:** turn the enclosed handle anti-clockwise. To block the motor, place the locking button on "lock"
- **motorised resetting:** switch off the power supply for at least 10 seconds. Supply the actuator (respect the prescribed voltage) for at least 75 seconds. The resetting stops automatically when the end of range is reached (damper open) - it takes about 60 seconds to reset the damper - or when the power supply is interrupted.

Caution:

- ⚠ Do not use a drill or powered screwdriver.
- ⚠ Stop as soon as the motor is completely rearmed (end of range).

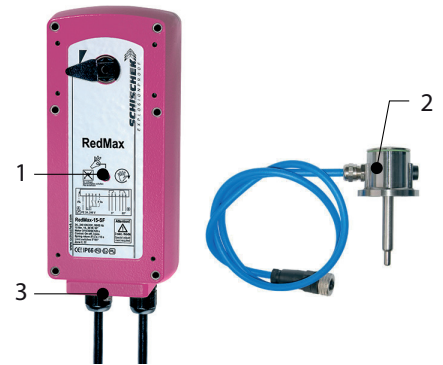
| | prod. < 1/7/2015 | | | | prod. ≥ 1/7/2015 | | | |
|---------|-------------------|-------------------|---------------------|---------------------|------------------------|-------------------|---------------------|---------------------|
| | CR60(1s) CR120 | CU-LT CU-LT-1s | CR2≤400 CU2≤1200 | CR2>400 CU2>1200 | CR60(1s) CR120 (1s) | CU-LT CU-LT-1s | CR2≤400 CU2≤1200 | CR2>400 CU2>1200 |
| Kit BFL | | | | | ● | ● | ● | |
| Kit BFN | ● | ● | ● | | | | | ● |
| Kit BF | | | | ● | | | | |



Ex (ROTORK-SCHISCHEK) Explosion proof (ATEX) motor

Explosion proof (ATEX) motor for different risk areas:• Zone 1/21: average risk of explosion >100h/year explosive environment• Zone 2/22: low risk of explosion <10h/year of explosive environment

1. access for manual resetting
2. thermo-electric tripping device (T)
3. switch S (selection of the running time)



Unlocking

- **manual unlocking:** n.a.
- **automatic unlocking:** as soon as the reaction temperature (72°C) of the thermo-electric tripping device is reached (Types EMEXT/RMEXT).
- **remote unlocking:** by interrupting the power supply.

Caution:

- ▲ Selection of running time spring return: the running time of 3 or 10 sec. spring return is selected by wiring (see electrical connection).

Resetting

- **manual resetting:** use the delivered socket wrench, turn in slow motion and apply enough torque/force.
- **motorised resetting:** supply the actuator (respect the prescribed voltage) for at least 60 sec. The resetting stops automatically.

Caution:

- ▲ Selection of running time (resetting): place the switch (S) into the correct/selected position in accordance to the details below. The selected parameter will work at next operation of the actuator. Adjustment can be done even without supply voltage.
- ▲ 3 sec./90°: S=00; 15 sec./90°: S=01; 30 sec./90°: S=02; 60 sec./90°: S=03; 120 sec./90°: S=04
- ▲ If the motor is powered, turn the switch only if the actuator is not running !

Caution:

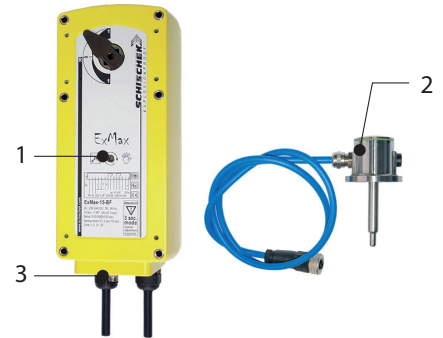
- ▲ The mechanism may never be tested on its own, without being attached to the damper. Such a test might damage the mechanism or the operator might be injured.



Ex (ROTORK-SCHISCHEK) Explosion proof (ATEX) motor

Explosion proof (ATEX) motor for different risk areas:• Zone 1/21: average risk of explosion >100h/year explosive environment• Zone 2/22: low risk of explosion <10h/year of explosive environment

1. access for manual resetting
2. thermo-electric tripping device (T)
3. switch S (selection of the running time)



Unlocking

- **manual unlocking:** n.a.
- **automatic unlocking:** as soon as the reaction temperature (72°C) of the thermo-electric tripping device is reached (Types EMEXT/RMEXT).
- **remote unlocking:** by interrupting the power supply.

Caution:

- ▲ Selection of running time spring return: the running time of 3 or 10 sec. spring return is selected by wiring (see electrical connection).

Resetting

- **manual resetting:** use the delivered socket wrench, turn in slow motion and apply enough torque/force.
- **motorised resetting:** supply the actuator (respect the prescribed voltage) for at least 60 sec. The resetting stops automatically.

Caution:

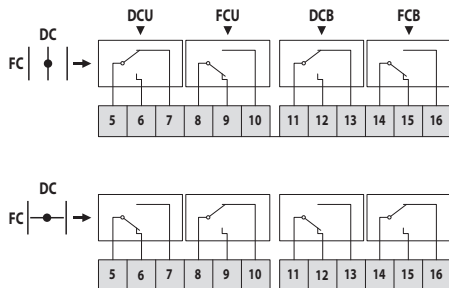
- ▲ Selection of running time (resetting): place the switch (S) into the correct/selected position in accordance to the details below. The selected parameter will work at next operation of the actuator. Adjustment can be done even without supply voltage.
- ▲ 3 sec./90°: S=00; 15 sec./90°: S=01; 30 sec./90°: S=02; 60 sec./90°: S=03; 120 sec./90°: S=04
- ▲ If the motor is powered, turn the switch only if the actuator is not running !

Caution:

- ▲ The mechanism may never be tested on its own, without being attached to the damper. Such a test might damage the mechanism or the operator might be injured.

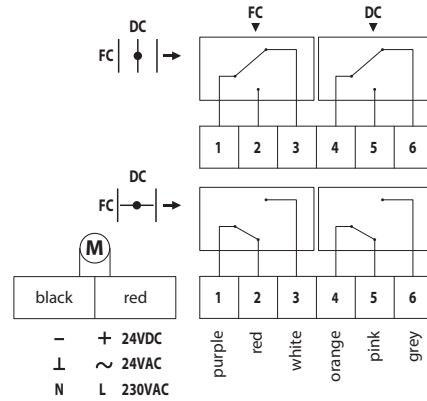
Electrical connection

CFTH



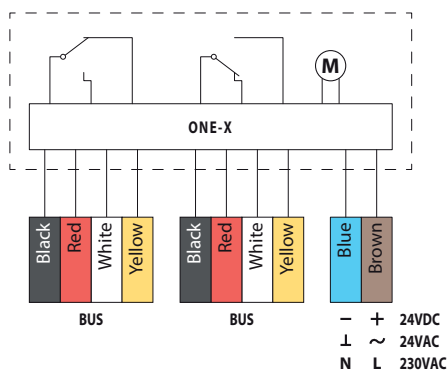
DC: Switch open position fire damper
 FC: Switch closed position fire damper

ONE

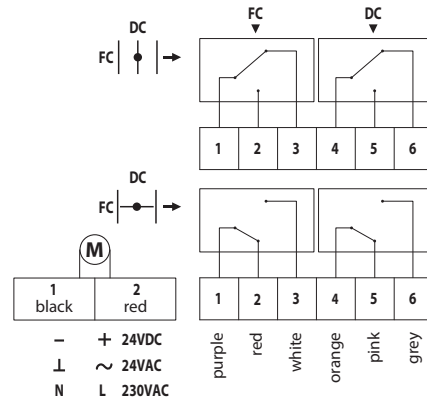


DC: Switch open position fire damper
 FC: Switch closed position fire damper

ONE-X

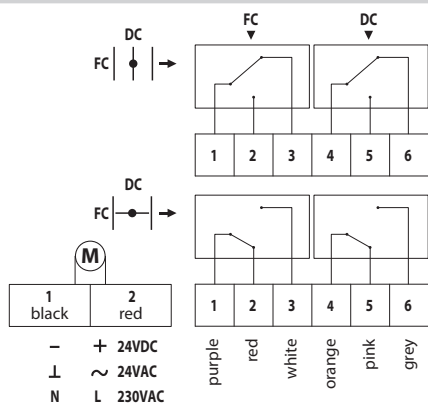


BFL(T)



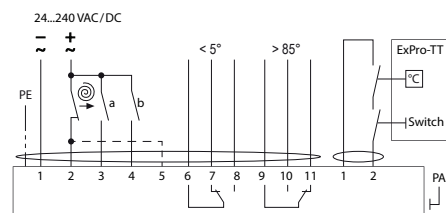
DC: Switch open position fire damper
 FC: Switch closed position fire damper

BFN(T)



DC: Switch open position fire damper
 FC: Switch closed position fire damper

Ex (ROTORK-SCHISCHEK)



| MEC | Nominal voltage motor | Nominal voltage magnet | Power consumption (stand-by) | Power consumption (operating) | Standard switches | Resetting time motor |
|------------------|-----------------------|------------------------|------------------------------|-------------------------------|---------------------------|-----------------------------------|
| CFTH | N/A | N/A | N/A | N/A | 1mA...6A, DC 5V...AC 250V | N/A |
| ONET 24 FDCU | 24 V AC/DC (-10/+20%) | N/A | 0,28 W | 4,2 W | 1mA...1A 60V | < 75 s (cabled) / <85 s (battery) |
| ONET 24 FDCU ST | 24 V AC/DC (-10/+20%) | N/A | 0,28 W | 4,2 W | 1mA...1A 60V | < 75 s (cabled) / <85 s (battery) |
| ONET 230 FDCU | 230 V AC (-15/+15%) | N/A | 0,57 W | 4,2 W | 1mA...100mA 230V | < 75 s (cabled) / <85 s (battery) |
| ONET 230 FDCU ST | 230 V AC (-15/+15%) | N/A | 0,57 W | 4,2 W | 1mA...100mA 230V | < 75 s (cabled) / <85 s (battery) |
| ONE T 24 FDCB | 24 V AC/DC (-10/+20%) | N/A | 0,28 W | 4,2 W | 1mA...1A 60V | < 75 s (cabled) / <85 s (battery) |
| ONE T 230 FDCB | 230 V AC (-15/+15%) | N/A | 0,57 W | 4,2 W | 1mA...1A 60V | < 75 s (cabled) / <85 s (battery) |
| ONE-X 24 | 24 V AC/DC (-10/+20%) | N/A | 0,28 W | 4,2 W | | < 75 s (cabled) / <85 s (battery) |
| ONE-X 230 | 230 V AC (-15/+15%) | N/A | 0,57 W | 4,2 W | | < 75 s (cabled) / <85 s (battery) |
| BFL24 | 24 V AC/DC | N/A | 0,7 W | 2,5 W | 1mA...3A, AC 250V | < 60 s |
| BFL24-ST | 24 V AC/DC | N/A | 0,7 W | 2,5 W | 1mA...3A, AC 250V | < 60 s |
| BFL230 | 230 V AC | N/A | 0,9 W | 3 W | 1mA...3A, AC 250V | < 60 s |
| BFLT24 | 24 V AC/DC | N/A | 0,8 W | 2,5 W | 1mA...3A, AC 250V | < 60 s |
| BFLT24-ST | 24 V AC/DC | N/A | 0,8 W | 2,5 W | 1mA...3A, AC 250V | < 60 s |
| BFLT230 | 230 V AC | N/A | 1,1 W | 3,5 W | 1mA...3A, AC 250V | < 60 s |
| BFLT230-ST | 230 V AC | N/A | 1,1 W | 3,5 W | 1mA...3A, AC 250V | < 60 s |
| BFN24 | 24 V AC/DC | N/A | 1,4 W | 4 W | 1mA...3A, AC 250V | < 60 s |
| BFN24-ST | 24 V AC/DC | N/A | 1,4 W | 4 W | 1mA...3A, AC 250V | < 60 s |
| BFN230 | 230 V AC | N/A | 2 W | 4,5 W | 1mA...3A, AC 250V | < 60 s |
| BFNT24 | 24 V AC/DC | N/A | 1,4 W | 4 W | 1mA...3A, AC 250V | < 60 s |
| BFNT24-ST | 24 V AC/DC | N/A | 1,4 W | 4 W | 1mA...3A, AC 250V | < 60 s |
| BFNT230 | 230 V AC | N/A | 2,1 W | 5 W | 1mA...3A, AC 250V | < 60 s |
| BFNT230-ST | 230 V AC | N/A | 2,1 W | 5 W | 1mA...3A, AC 250V | < 60 s |
| RMEX | 24...230 V AC / DC | N/A | 5 W | 20 W | max. 24V/3A, 230V/0,25A | 3/15/30/60/120s |
| RMEXT | 24...230 V AC / DC | N/A | 5 W | 20 W | max. 24V/3A, 230V/0,25A | 3/15/30/60/120s |
| EMEX | 24...230 V AC / DC | N/A | 5 W | 20 W | max. 24V/3A, 230V/0,25A | 3/15/30/60/120s |
| EMEXT | 24...230 V AC / DC | N/A | 5 W | 20 W | max. 24V/3A, 230V/0,25A | 3/15/30/60/120s |

| MEC | Running time spring | Noise level motor | Noise level spring | Cable supply / control | Cable auxiliary switch | Protection class |
|------------------|---------------------|-------------------|--------------------|--|--|------------------|
| CFTH | 1 s | N/A | N/A | | | IP 42 |
| ONET 24 FDCU | < 30 s | < 64 dB (A) | < 67 dB (A) | 1 m, 2 x 0.75 mm ² (halogen-free) | 1 m, 6 x 0.75 mm ² (halogen-free) | IP 54 |
| ONET 24 FDCU ST | < 30 s | < 64 dB (A) | < 67 dB (A) | 1 m, 2 x 0.75 mm ² (halogen-free) | 1 m, 6 x 0.75 mm ² (halogen-free) | IP 54 |
| ONET 230 FDCU | < 30 s | < 64 dB (A) | < 67 dB (A) | 1 m, 2 x 0.75 mm ² (halogen-free) | 1 m, 6 x 0.75 mm ² (halogen-free) | IP 54 |
| ONET 230 FDCU ST | < 30 s | < 64 dB (A) | < 67 dB (A) | 1 m, 2 x 0.75 mm ² (halogen-free) | 1 m, 6 x 0.75 mm ² (halogen-free) | IP 54 |
| ONE T 24 FDCB | < 30 s | < 64 dB (A) | < 67 dB (A) | 1 m, 2 x 0.75 mm ² (halogen-free) | (2x) 1 m, 6 x 0,75 mm ² (halogen-free) | IP 54 |
| ONE T 230 FDCB | < 30 s | < 64 dB (A) | < 67 dB (A) | 1 m, 2 x 0.75 mm ² (halogen-free) | (2x) 1 m, 6 x 0,75 mm ² (halogen-free) | IP 54 |
| ONE-X 24 | < 30 s | < 64 dB (A) | < 67 dB (A) | 1 m, 2 x 0.75 mm ² (halogen-free) | bus cable: (2x) 1 m, 4 x 0,75 mm ² (halogen-free) | IP 54 |
| ONE-X 230 | < 30 s | < 64 dB (A) | < 67 dB (A) | 1 m, 2 x 0.75 mm ² (halogen-free) | bus cable: (2x) 1 m, 4 x 0,75 mm ² (halogen-free) | IP 54 |
| BFL24 | 20 s | < 43 dB (A) | < 62 dB (A) | 1 m, 2 x 0.75 mm ² (halogen-free) | 1 m, 6 x 0.75 mm ² (halogen-free) | IP 54 |
| BFL24-ST | 20 s | < 43 dB (A) | < 62 dB (A) | 1 m, 2 x 0.75 mm ² (halogen-free) | 1 m, 6 x 0.75 mm ² (halogen-free) | IP 54 |
| BFL230 | 20 s | < 43 dB (A) | < 62 dB (A) | 1 m, 2 x 0.75 mm ² (halogen-free) | 1 m, 6 x 0.75 mm ² (halogen-free) | IP 54 |
| BFLT24 | 20 s | < 43 dB (A) | < 62 dB (A) | 1 m, 2 x 0.75 mm ² (halogen-free) | 1 m, 6 x 0.75 mm ² (halogen-free) | IP 54 |
| BFLT24-ST | 20 s | < 43 dB (A) | < 62 dB (A) | 1 m, 2 x 0.75 mm ² (halogen-free) | 1 m, 6 x 0.75 mm ² (halogen-free) | IP 54 |
| BFLT230 | 20 s | < 43 dB (A) | < 62 dB (A) | 1 m, 2 x 0.75 mm ² (halogen-free) | 1 m, 6 x 0.75 mm ² (halogen-free) | IP 54 |
| BFLT230-ST | 20 s | < 43 dB (A) | < 62 dB (A) | 1 m, 2 x 0.75 mm ² (halogen-free) | 1 m, 6 x 0.75 mm ² (halogen-free) | IP 54 |
| BFN24 | 20 s | ≤ 55 dB (A) | ca. 67 dB (A) | 1 m, 2 x 0.75 mm ² (halogen-free) | 1 m, 6 x 0.75 mm ² (halogen-free) | IP 54 |
| BFN24-ST | 20 s | ≤ 55 dB (A) | ca. 67 dB (A) | 1 m, 2 x 0.75 mm ² (halogen-free) | 1 m, 6 x 0.75 mm ² (halogen-free) | IP 54 |
| BFN230 | 20 s | ≤ 55 dB (A) | ca. 67 dB (A) | 1 m, 2 x 0.75 mm ² (halogen-free) | 1 m, 6 x 0.75 mm ² (halogen-free) | IP 54 |
| BFNT24 | 20 s | ≤ 55 dB (A) | ca. 67 dB (A) | 1 m, 2 x 0.75 mm ² (halogen-free) | 1 m, 6 x 0.75 mm ² (halogen-free) | IP 54 |
| BFNT24-ST | 20 s | ≤ 55 dB (A) | ca. 67 dB (A) | 1 m, 2 x 0.75 mm ² (halogen-free) | 1 m, 6 x 0.75 mm ² (halogen-free) | IP 54 |
| BFNT230 | 20 s | ≤ 55 dB (A) | ca. 67 dB (A) | 1 m, 2 x 0.75 mm ² (halogen-free) | 1 m, 6 x 0.75 mm ² (halogen-free) | IP 54 |
| BFNT230-ST | 20 s | ≤ 55 dB (A) | ca. 67 dB (A) | 1 m, 2 x 0.75 mm ² (halogen-free) | 1 m, 6 x 0.75 mm ² (halogen-free) | IP 54 |
| RMEX | 3/10 s | | | | | IP 66 |
| RMEXT | 3/10 s | | | | | IP 66 |
| EMEX | 3/10 s | | | | | IP 66 |
| EMEXT | 3/10 s | | | | | IP 66 |

Weights

CU2 + CFTH

| Hn\Wn [mm] | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 |
|-------------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 200 | kg | 10,8 | 11,9 | 12,9 | 14,0 | 15,0 | 16,1 | 17,1 | 18,2 | 19,3 | 20,3 | 21,4 | 22,4 | 23,5 | 24,5 | 25,6 |
| 250 | kg | 11,8 | 12,9 | 14,0 | 15,2 | 16,3 | 17,4 | 18,5 | 19,7 | 20,8 | 21,9 | 23,0 | 24,2 | 25,3 | 26,4 | 27,5 |
| 300 | kg | 12,8 | 14,0 | 15,2 | 16,4 | 17,6 | 18,7 | 19,9 | 21,1 | 22,3 | 23,5 | 24,7 | 25,9 | 27,1 | 28,3 | 29,4 |
| 350 | kg | 13,8 | 15,1 | 16,3 | 17,6 | 18,8 | 20,1 | 21,3 | 22,6 | 23,8 | 25,1 | 26,3 | 27,6 | 28,9 | 30,1 | 29,8 |
| 400 | kg | 14,8 | 16,1 | 17,5 | 18,8 | 20,1 | 21,4 | 22,7 | 24,0 | 25,4 | 26,7 | 28,0 | 29,3 | 30,6 | 30,4 | 31,7 |
| 450 | kg | 15,8 | 17,2 | 18,6 | 20,0 | 21,4 | 22,7 | 24,1 | 25,5 | 26,9 | 28,3 | 29,7 | 31,0 | 30,8 | 32,2 | 33,6 |
| 500 | kg | 16,8 | 18,3 | 19,7 | 21,2 | 22,6 | 24,1 | 25,5 | 27,0 | 28,4 | 29,9 | 31,3 | 31,2 | 32,6 | 34,1 | 35,5 |
| 550 | kg | 17,8 | 19,3 | 20,9 | 22,4 | 23,9 | 25,4 | 26,9 | 28,4 | 29,9 | 31,5 | 31,4 | 32,9 | 34,4 | 35,9 | 37,4 |
| 600 | kg | 18,8 | 20,4 | 22,0 | 23,6 | 25,2 | 26,7 | 28,3 | 29,9 | 31,5 | 31,5 | 33,0 | 34,6 | 36,2 | 37,8 | 39,3 |
| 650 | kg | 19,8 | 21,5 | 23,1 | 24,8 | 26,4 | 28,1 | 29,7 | 31,4 | 31,4 | 33,0 | 34,7 | 36,3 | 38,0 | 39,6 | 41,3 |
| 700 | kg | 20,8 | 22,6 | 24,3 | 26,0 | 27,7 | 29,4 | 31,1 | 31,2 | 32,9 | 34,6 | 36,3 | 38,1 | 39,8 | 41,5 | 43,2 |
| 750 | kg | 21,9 | 23,6 | 25,4 | 27,2 | 29,0 | 30,7 | 30,9 | 32,7 | 34,5 | 36,2 | 38,0 | 39,8 | 41,6 | 43,3 | 45,1 |
| 800 | kg | 22,9 | 24,7 | 26,5 | 28,4 | 30,2 | 30,5 | 32,3 | 34,1 | 36,0 | 37,8 | 39,7 | 41,5 | 43,3 | 45,2 | 47,0 |
| 850 | kg | 23,9 | 25,8 | 27,7 | 29,6 | 29,9 | 31,8 | 33,7 | 35,6 | 37,5 | 39,4 | 41,3 | 43,2 | 45,1 | 47,0 | 48,9 |
| 900 | kg | 24,9 | 26,8 | 28,8 | 29,2 | 31,2 | 33,1 | 35,1 | 37,1 | 39,0 | 41,0 | 43,0 | 44,9 | 46,9 | 48,9 | 50,9 |
| 950 | kg | 25,9 | 27,9 | 28,3 | 30,4 | 32,4 | 34,5 | 36,5 | 38,5 | 40,6 | 42,6 | 44,6 | 46,7 | 48,7 | 50,7 | 52,8 |
| 1000 | kg | 26,9 | 27,4 | 29,5 | 31,6 | 33,7 | 35,8 | 37,9 | 40,0 | 42,1 | 44,2 | 46,3 | 48,4 | 50,5 | 52,6 | 54,7 |

| Hn\Wn [mm] | | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | | |
|-------------|----|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| 200 | kg | 26,7 | 27,7 | 27,2 | 28,2 | 29,3 | 30,3 | 31,4 | 32,5 | 33,5 | 34,6 | 35,6 | 36,7 | | | |
| 250 | kg | 28,6 | 28,2 | 29,3 | 30,4 | 31,5 | 32,7 | 33,8 | 34,9 | 36,0 | 37,1 | 38,3 | 39,4 | | | |
| 300 | kg | 29,0 | 30,2 | 31,4 | 32,6 | 33,8 | 35,0 | 36,2 | 37,3 | 38,5 | 39,7 | 40,9 | 42,1 | | | |
| 350 | kg | 31,0 | 32,3 | 33,5 | 34,8 | 36,0 | 37,3 | 38,5 | 39,8 | 41,0 | 42,3 | 43,5 | 44,8 | | | |
| 400 | kg | 33,0 | 34,3 | 35,6 | 36,9 | 38,3 | 39,6 | 40,9 | 42,2 | 43,5 | 44,9 | 46,2 | 47,5 | | | |
| 450 | kg | 35,0 | 36,4 | 37,7 | 39,1 | 40,5 | 41,9 | 43,3 | 44,7 | 46,0 | 47,4 | 48,8 | 50,2 | | | |
| 500 | kg | 37,0 | 38,4 | 39,9 | 41,3 | 42,8 | 44,2 | 45,7 | 47,1 | 48,6 | 50,0 | 51,4 | 52,9 | | | |
| 550 | kg | 38,9 | 40,5 | 42,0 | 43,5 | 45,0 | 46,5 | 48,0 | 49,5 | 51,1 | 52,6 | 54,1 | - | | | |
| 600 | kg | 40,9 | 42,5 | 44,1 | 45,7 | 47,2 | 48,8 | 50,4 | 52,0 | 53,6 | 55,1 | - | - | | | |
| 650 | kg | 42,9 | 44,6 | 46,2 | 47,8 | 49,5 | 51,1 | 52,8 | 54,4 | 56,1 | - | - | - | | | |
| 700 | kg | 44,9 | 46,6 | 48,3 | 50,0 | 51,7 | 53,4 | 55,2 | 56,9 | - | - | - | - | | | |
| 750 | kg | 46,9 | 48,7 | 50,4 | 52,2 | 54,0 | 55,8 | 57,5 | - | - | - | - | - | | | |
| 800 | kg | 48,9 | 50,7 | 52,5 | 54,4 | 56,2 | 58,1 | - | - | - | - | - | - | | | |
| 850 | kg | 50,8 | 52,8 | 54,7 | 56,6 | 58,5 | - | - | - | - | - | - | - | | | |
| 900 | kg | 52,8 | 54,8 | 56,8 | 58,7 | - | - | - | - | - | - | - | - | | | |
| 950 | kg | 54,8 | 56,9 | 58,9 | - | - | - | - | - | - | - | - | - | | | |
| 1000 | kg | 56,8 | 58,9 | - | - | - | - | - | - | - | - | - | - | | | |

CU2 + ONE

| Hn\Wn [mm] | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 |
|------------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 200 | kg | 11,6 | 12,7 | 13,7 | 14,8 | 15,8 | 16,9 | 17,9 | 19,0 | 20,1 | 21,1 | 22,2 | 23,2 | 24,3 | 25,3 | 26,4 |
| 250 | kg | 12,6 | 13,7 | 14,8 | 16,0 | 17,1 | 18,2 | 19,3 | 20,5 | 21,6 | 22,7 | 23,8 | 25,0 | 26,1 | 27,2 | 28,3 |
| 300 | kg | 13,6 | 14,8 | 16,0 | 17,2 | 18,4 | 19,5 | 20,7 | 21,9 | 23,1 | 24,3 | 25,5 | 26,7 | 27,9 | 29,1 | 30,2 |
| 350 | kg | 14,6 | 15,9 | 17,1 | 18,4 | 19,6 | 20,9 | 22,1 | 23,4 | 24,6 | 25,9 | 27,1 | 28,4 | 29,7 | 30,9 | 30,6 |
| 400 | kg | 15,6 | 16,9 | 18,3 | 19,6 | 20,9 | 22,2 | 23,5 | 24,8 | 26,2 | 27,5 | 28,8 | 30,1 | 31,4 | 31,2 | 32,5 |
| 450 | kg | 16,6 | 18,0 | 19,4 | 20,8 | 22,2 | 23,5 | 24,9 | 26,3 | 27,7 | 29,1 | 30,5 | 31,8 | 31,6 | 33,0 | 34,4 |
| 500 | kg | 17,6 | 19,1 | 20,5 | 22,0 | 23,4 | 24,9 | 26,3 | 27,8 | 29,2 | 30,7 | 32,1 | 32,0 | 33,4 | 34,9 | 36,3 |
| 550 | kg | 18,6 | 20,1 | 21,7 | 23,2 | 24,7 | 26,2 | 27,7 | 29,2 | 30,7 | 32,3 | 32,2 | 33,7 | 35,2 | 36,7 | 38,2 |
| 600 | kg | 19,6 | 21,2 | 22,8 | 24,4 | 26,0 | 27,5 | 29,1 | 30,7 | 32,3 | 32,3 | 33,8 | 35,4 | 37,0 | 38,6 | 40,1 |
| 650 | kg | 20,6 | 22,3 | 23,9 | 25,6 | 27,2 | 28,9 | 30,5 | 32,2 | 32,2 | 33,8 | 35,5 | 37,1 | 38,8 | 40,4 | 42,1 |
| 700 | kg | 21,6 | 23,4 | 25,1 | 26,8 | 28,5 | 30,2 | 31,9 | 32,0 | 33,7 | 35,4 | 37,1 | 38,9 | 40,6 | 42,3 | 44,0 |
| 750 | kg | 22,7 | 24,4 | 26,2 | 28,0 | 29,8 | 31,5 | 31,7 | 33,5 | 35,3 | 37,0 | 38,8 | 40,6 | 42,4 | 44,1 | 45,9 |
| 800 | kg | 23,7 | 25,5 | 27,3 | 29,2 | 31,0 | 31,3 | 33,1 | 34,9 | 36,8 | 38,6 | 40,5 | 42,3 | 44,1 | 46,0 | 47,8 |
| 850 | kg | 24,7 | 26,6 | 28,5 | 30,4 | 30,7 | 32,6 | 34,5 | 36,4 | 38,3 | 40,2 | 42,1 | 44,0 | 45,9 | 47,8 | 49,7 |
| 900 | kg | 25,7 | 27,6 | 29,6 | 30,0 | 32,0 | 33,9 | 35,9 | 37,9 | 39,8 | 41,8 | 43,8 | 45,7 | 47,7 | 49,7 | 51,7 |
| 950 | kg | 26,7 | 28,7 | 29,1 | 31,2 | 33,2 | 35,3 | 37,3 | 39,3 | 41,4 | 43,4 | 45,4 | 47,5 | 49,5 | 51,5 | 53,6 |
| 1000 | kg | 27,7 | 28,2 | 30,3 | 32,4 | 34,5 | 36,6 | 38,7 | 40,8 | 42,9 | 45,0 | 47,1 | 49,2 | 51,3 | 53,4 | 55,5 |

| Hn\Wn [mm] | | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | | |
|------------|----|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| 200 | kg | 27,5 | 28,5 | 28,0 | 29,0 | 30,1 | 31,1 | 32,2 | 33,3 | 34,3 | 35,4 | 36,4 | 37,5 | | | |
| 250 | kg | 29,4 | 29,0 | 30,1 | 31,2 | 32,3 | 33,5 | 34,6 | 35,7 | 36,8 | 37,9 | 39,1 | 40,2 | | | |
| 300 | kg | 29,8 | 31,0 | 32,2 | 33,4 | 34,6 | 35,8 | 37,0 | 38,1 | 39,3 | 40,5 | 41,7 | 42,9 | | | |
| 350 | kg | 31,8 | 33,1 | 34,3 | 35,6 | 36,8 | 38,1 | 39,3 | 40,6 | 41,8 | 43,1 | 44,3 | 45,6 | | | |
| 400 | kg | 33,8 | 35,1 | 36,4 | 37,7 | 39,1 | 40,4 | 41,7 | 43,0 | 44,3 | 45,7 | 47,0 | 48,3 | | | |
| 450 | kg | 35,8 | 37,2 | 38,5 | 39,9 | 41,3 | 42,7 | 44,1 | 45,5 | 46,8 | 48,2 | 49,6 | 51,0 | | | |
| 500 | kg | 37,8 | 39,2 | 40,7 | 42,1 | 43,6 | 45,0 | 46,5 | 47,9 | 49,4 | 50,8 | 52,2 | 53,7 | | | |
| 550 | kg | 39,7 | 41,3 | 42,8 | 44,3 | 45,8 | 47,3 | 48,8 | 50,3 | 51,9 | 53,4 | 54,9 | 56,4 | | | |
| 600 | kg | 41,7 | 43,3 | 44,9 | 46,5 | 48,0 | 49,6 | 51,2 | 52,8 | 54,4 | 55,9 | 57,5 | 59,1 | | | |
| 650 | kg | 43,7 | 45,4 | 47,0 | 48,6 | 50,3 | 51,9 | 53,6 | 55,2 | 56,9 | 58,5 | 60,2 | 61,8 | | | |
| 700 | kg | 45,7 | 47,4 | 49,1 | 50,8 | 52,5 | 54,2 | 56,0 | 57,7 | 59,4 | 61,1 | 62,8 | 64,5 | | | |
| 750 | kg | 47,7 | 49,5 | 51,2 | 53,0 | 54,8 | 56,6 | 58,3 | 60,1 | 61,9 | 63,7 | 65,4 | 67,2 | | | |
| 800 | kg | 49,7 | 51,5 | 53,3 | 55,2 | 57,0 | 58,9 | 60,7 | 62,5 | 64,4 | 66,2 | 68,1 | 69,9 | | | |
| 850 | kg | 51,6 | 53,6 | 55,5 | 57,4 | 59,3 | 61,2 | 63,1 | 65,0 | 66,9 | 68,8 | 70,7 | 72,6 | | | |
| 900 | kg | 53,6 | 55,6 | 57,6 | 59,5 | 61,5 | 63,5 | 65,5 | 67,4 | 69,4 | 71,4 | 73,3 | 75,3 | | | |
| 950 | kg | 55,6 | 57,7 | 59,7 | 61,7 | 63,8 | 65,8 | 67,8 | 69,9 | 71,9 | 73,9 | 76,0 | 78,0 | | | |
| 1000 | kg | 57,6 | 59,7 | 61,8 | 63,9 | 66,0 | 68,1 | 70,2 | 72,3 | 74,4 | 76,5 | 78,6 | 80,7 | | | |

CU2 + BFL

| Hn\Wn [mm] | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 |
|-------------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 200 | kg | 10,8 | 11,9 | 13,0 | 14,0 | 15,1 | 16,1 | 17,2 | 18,2 | 19,3 | 20,4 | 21,4 | 22,5 | 23,5 | 24,6 | 25,7 |
| 250 | kg | 11,9 | 13,0 | 14,1 | 15,2 | 16,3 | 17,5 | 18,6 | 19,7 | 20,8 | 22,0 | 23,1 | 24,2 | 25,3 | 26,4 | 27,6 |
| 300 | kg | 12,9 | 14,0 | 15,2 | 16,4 | 17,6 | 18,8 | 20,0 | 21,2 | 22,4 | 23,5 | 24,7 | 25,9 | 27,1 | 28,3 | 29,5 |
| 350 | kg | 13,9 | 15,1 | 16,4 | 17,6 | 18,9 | 20,1 | 21,4 | 22,6 | 23,9 | 25,1 | 26,4 | 27,6 | 28,9 | 30,2 | - |
| 400 | kg | 14,9 | 16,2 | 17,5 | 18,8 | 20,1 | 21,5 | 22,8 | 24,1 | 25,4 | 26,7 | 28,1 | 29,4 | 30,7 | - | - |
| 450 | kg | 15,9 | 17,3 | 18,6 | 20,0 | 21,4 | 22,8 | 24,2 | 25,6 | 26,9 | 28,3 | 29,7 | 31,1 | - | - | - |
| 500 | kg | 16,9 | 18,3 | 19,8 | 21,2 | 22,7 | 24,1 | 25,6 | 27,0 | 28,5 | 29,9 | 31,4 | - | - | - | - |
| 550 | kg | 17,9 | 19,4 | 20,9 | 22,4 | 23,9 | 25,5 | 27,0 | 28,5 | 30,0 | 31,5 | - | - | - | - | - |
| 600 | kg | 18,9 | 20,5 | 22,0 | 23,6 | 25,2 | 26,8 | 28,4 | 29,9 | 31,5 | - | - | - | - | - | - |
| 650 | kg | 19,9 | 21,5 | 23,2 | 24,8 | 26,5 | 28,1 | 29,8 | 31,4 | - | - | - | - | - | - | - |
| 700 | kg | 20,9 | 22,6 | 24,3 | 26,0 | 27,7 | 29,4 | 31,2 | - | - | - | - | - | - | - | - |
| 750 | kg | 21,9 | 23,7 | 25,5 | 27,2 | 29,0 | 30,8 | - | - | - | - | - | - | - | - | - |
| 800 | kg | 22,9 | 24,7 | 26,6 | 28,4 | 30,3 | - | - | - | - | - | - | - | - | - | - |
| 850 | kg | 23,9 | 25,8 | 27,7 | 29,6 | - | - | - | - | - | - | - | - | - | - | - |
| 900 | kg | 24,9 | 26,9 | 28,9 | - | - | - | - | - | - | - | - | - | - | - | - |
| 950 | kg | 25,9 | 28,0 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1000 | kg | 26,9 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| Hn\Wn [mm] | | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | | |
|-------------|----|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| 200 | kg | 26,7 | 27,8 | - | - | - | - | - | - | - | - | - | - | | | |
| 250 | kg | 28,7 | - | - | - | - | - | - | - | - | - | - | - | | | |
| 300 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 350 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 400 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 450 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 500 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 550 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 600 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 650 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 700 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 750 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 800 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 850 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 900 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 950 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 1000 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |

CU2 + BFLT

| Hn\Wn [mm] | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 |
|-------------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 200 | kg | 10,9 | 12,0 | 13,1 | 14,1 | 15,2 | 16,2 | 17,3 | 18,3 | 19,4 | 20,5 | 21,5 | 22,6 | 23,6 | 24,7 | 25,8 |
| 250 | kg | 12,0 | 13,1 | 14,2 | 15,3 | 16,4 | 17,6 | 18,7 | 19,8 | 20,9 | 22,1 | 23,2 | 24,3 | 25,4 | 26,5 | 27,7 |
| 300 | kg | 13,0 | 14,1 | 15,3 | 16,5 | 17,7 | 18,9 | 20,1 | 21,3 | 22,5 | 23,6 | 24,8 | 26,0 | 27,2 | 28,4 | 29,6 |
| 350 | kg | 14,0 | 15,2 | 16,5 | 17,7 | 19,0 | 20,2 | 21,5 | 22,7 | 24,0 | 25,2 | 26,5 | 27,7 | 29,0 | 30,3 | - |
| 400 | kg | 15,0 | 16,3 | 17,6 | 18,9 | 20,2 | 21,6 | 22,9 | 24,2 | 25,5 | 26,8 | 28,2 | 29,5 | 30,8 | - | - |
| 450 | kg | 16,0 | 17,4 | 18,7 | 20,1 | 21,5 | 22,9 | 24,3 | 25,7 | 27,0 | 28,4 | 29,8 | 31,2 | - | - | - |
| 500 | kg | 17,0 | 18,4 | 19,9 | 21,3 | 22,8 | 24,2 | 25,7 | 27,1 | 28,6 | 30,0 | 31,5 | - | - | - | - |
| 550 | kg | 18,0 | 19,5 | 21,0 | 22,5 | 24,0 | 25,6 | 27,1 | 28,6 | 30,1 | 31,6 | - | - | - | - | - |
| 600 | kg | 19,0 | 20,6 | 22,1 | 23,7 | 25,3 | 26,9 | 28,5 | 30,0 | 31,6 | - | - | - | - | - | - |
| 650 | kg | 20,0 | 21,6 | 23,3 | 24,9 | 26,6 | 28,2 | 29,9 | 31,5 | - | - | - | - | - | - | - |
| 700 | kg | 21,0 | 22,7 | 24,4 | 26,1 | 27,8 | 29,5 | 31,3 | - | - | - | - | - | - | - | - |
| 750 | kg | 22,0 | 23,8 | 25,6 | 27,3 | 29,1 | 30,9 | - | - | - | - | - | - | - | - | - |
| 800 | kg | 23,0 | 24,8 | 26,7 | 28,5 | 30,4 | - | - | - | - | - | - | - | - | - | - |
| 850 | kg | 24,0 | 25,9 | 27,8 | 29,7 | - | - | - | - | - | - | - | - | - | - | - |
| 900 | kg | 25,0 | 27,0 | 29,0 | - | - | - | - | - | - | - | - | - | - | - | - |
| 950 | kg | 26,0 | 28,1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1000 | kg | 27,0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| Hn\Wn [mm] | | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | | |
|-------------|----|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| 200 | kg | 26,8 | 27,9 | - | - | - | - | - | - | - | - | - | - | | | |
| 250 | kg | 28,8 | - | - | - | - | - | - | - | - | - | - | - | | | |
| 300 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 350 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 400 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 450 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 500 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 550 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 600 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 650 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 700 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 750 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 800 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 850 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 900 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 950 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 1000 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |

CU2 + BFN

| Hn\Wn [mm] | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 |
|------------|----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 200 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 300 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 30,1 |
| 400 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | 30,7 | 32,0 |
| 450 | kg | - | - | - | - | - | - | - | - | - | - | - | - | 31,2 | 32,6 | 33,9 |
| 500 | kg | - | - | - | - | - | - | - | - | - | - | - | 31,5 | 33,0 | 34,4 | 35,9 |
| 550 | kg | - | - | - | - | - | - | - | - | - | - | 31,7 | 33,2 | 34,8 | 36,3 | 37,8 |
| 600 | kg | - | - | - | - | - | - | - | - | - | 31,8 | 33,4 | 35,0 | 36,5 | 38,1 | 39,7 |
| 650 | kg | - | - | - | - | - | - | - | - | 31,8 | 33,4 | 35,0 | 36,7 | 38,3 | 40,0 | 41,6 |
| 700 | kg | - | - | - | - | - | - | - | 31,6 | 33,3 | 35,0 | 36,7 | 38,4 | 40,1 | 41,8 | 43,5 |
| 750 | kg | - | - | - | - | - | - | 31,3 | 33,0 | 34,8 | 36,6 | 38,4 | 40,1 | 41,9 | 43,7 | 45,5 |
| 800 | kg | - | - | - | - | - | 30,8 | 32,7 | 34,5 | 36,3 | 38,2 | 40,0 | 41,9 | 43,7 | 45,5 | 47,4 |
| 850 | kg | - | - | - | - | 30,2 | 32,1 | 34,0 | 36,0 | 37,9 | 39,8 | 41,7 | 43,6 | 45,5 | 47,4 | 49,3 |
| 900 | kg | - | - | - | 29,5 | 31,5 | 33,5 | 35,4 | 37,4 | 39,4 | 41,4 | 43,3 | 45,3 | 47,3 | 49,2 | 51,2 |
| 950 | kg | - | - | 28,7 | 30,7 | 32,8 | 34,8 | 36,8 | 38,9 | 40,9 | 42,9 | 45,0 | 47,0 | 49,1 | 51,1 | 53,1 |
| 1000 | kg | - | 27,7 | 29,8 | 31,9 | 34,0 | 36,1 | 38,2 | 40,3 | 42,4 | 44,5 | 46,6 | 48,7 | 50,8 | 52,9 | 55,0 |

| Hn\Wn [mm] | | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | | |
|------------|----|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| 200 | kg | - | - | 27,5 | 28,6 | 29,6 | 30,7 | 31,8 | 32,8 | 33,9 | 34,9 | 36,0 | 37,0 | | | |
| 250 | kg | - | 28,5 | 29,6 | 30,8 | 31,9 | 33,0 | 34,1 | 35,2 | 36,4 | 37,5 | 38,6 | 39,7 | | | |
| 300 | kg | 29,4 | 30,6 | 31,8 | 32,9 | 34,1 | 35,3 | 36,5 | 37,7 | 38,9 | 40,1 | 41,3 | 42,4 | | | |
| 350 | kg | 31,4 | 32,6 | 33,9 | 35,1 | 36,4 | 37,6 | 38,9 | 40,1 | 41,4 | 42,6 | 43,9 | 45,1 | | | |
| 400 | kg | 33,3 | 34,7 | 36,0 | 37,3 | 38,6 | 39,9 | 41,3 | 42,6 | 43,9 | 45,2 | 46,5 | 47,8 | | | |
| 450 | kg | 35,3 | 36,7 | 38,1 | 39,5 | 40,9 | 42,2 | 43,6 | 45,0 | 46,4 | 47,8 | 49,2 | 50,5 | | | |
| 500 | kg | 37,3 | 38,8 | 40,2 | 41,7 | 43,1 | 44,6 | 46,0 | 47,5 | 48,9 | 50,4 | 51,8 | 53,2 | | | |
| 550 | kg | 39,3 | 40,8 | 42,3 | 43,8 | 45,4 | 46,9 | 48,4 | 49,9 | 51,4 | 52,9 | 54,4 | 55,9 | | | |
| 600 | kg | 41,3 | 42,9 | 44,4 | 46,0 | 47,6 | 49,2 | 50,8 | 52,3 | 53,9 | 55,5 | 57,1 | 58,7 | | | |
| 650 | kg | 43,3 | 44,9 | 46,6 | 48,2 | 49,8 | 51,5 | 53,1 | 54,8 | 56,4 | 58,1 | 59,7 | 61,4 | | | |
| 700 | kg | 45,2 | 47,0 | 48,7 | 50,4 | 52,1 | 53,8 | 55,5 | 57,2 | 58,9 | 60,6 | 62,3 | 64,1 | | | |
| 750 | kg | 47,2 | 49,0 | 50,8 | 52,6 | 54,3 | 56,1 | 57,9 | 59,7 | 61,4 | 63,2 | 65,0 | 66,8 | | | |
| 800 | kg | 49,2 | 51,1 | 52,9 | 54,7 | 56,6 | 58,4 | 60,3 | 62,1 | 63,9 | 65,8 | 67,6 | 69,5 | | | |
| 850 | kg | 51,2 | 53,1 | 55,0 | 56,9 | 58,8 | 60,7 | 62,6 | 64,5 | 66,4 | 68,3 | 70,3 | 72,2 | | | |
| 900 | kg | 53,2 | 55,2 | 57,1 | 59,1 | 61,1 | 63,0 | 65,0 | 67,0 | 68,9 | 70,9 | 72,9 | 74,9 | | | |
| 950 | kg | 55,2 | 57,2 | 59,2 | 61,3 | 63,3 | 65,3 | 67,4 | 69,4 | 71,5 | 73,5 | 75,5 | 77,6 | | | |
| 1000 | kg | 57,1 | 59,3 | 61,4 | 63,5 | 65,6 | 67,7 | 69,8 | 71,9 | 74,0 | 76,1 | 78,2 | 80,3 | | | |

CU2 + BFNT

| Hn\Wn [mm] | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 |
|------------|----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 200 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 300 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 30,2 |
| 400 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | 30,8 | 32,1 |
| 450 | kg | - | - | - | - | - | - | - | - | - | - | - | - | 31,3 | 32,7 | 34,0 |
| 500 | kg | - | - | - | - | - | - | - | - | - | - | - | 31,6 | 33,1 | 34,5 | 36,0 |
| 550 | kg | - | - | - | - | - | - | - | - | - | - | 31,8 | 33,3 | 34,9 | 36,4 | 37,9 |
| 600 | kg | - | - | - | - | - | - | - | - | - | 31,9 | 33,5 | 35,1 | 36,6 | 38,2 | 39,8 |
| 650 | kg | - | - | - | - | - | - | - | - | 31,9 | 33,5 | 35,1 | 36,8 | 38,4 | 40,1 | 41,7 |
| 700 | kg | - | - | - | - | - | - | - | 31,7 | 33,4 | 35,1 | 36,8 | 38,5 | 40,2 | 41,9 | 43,6 |
| 750 | kg | - | - | - | - | - | - | 31,4 | 33,1 | 34,9 | 36,7 | 38,5 | 40,2 | 42,0 | 43,8 | 45,6 |
| 800 | kg | - | - | - | - | - | 30,9 | 32,8 | 34,6 | 36,4 | 38,3 | 40,1 | 42,0 | 43,8 | 45,6 | 47,5 |
| 850 | kg | - | - | - | - | 30,3 | 32,2 | 34,1 | 36,1 | 38,0 | 39,9 | 41,8 | 43,7 | 45,6 | 47,5 | 49,4 |
| 900 | kg | - | - | - | 29,6 | 31,6 | 33,6 | 35,5 | 37,5 | 39,5 | 41,5 | 43,4 | 45,4 | 47,4 | 49,3 | 51,3 |
| 950 | kg | - | - | 28,8 | 30,8 | 32,9 | 34,9 | 36,9 | 39,0 | 41,0 | 43,0 | 45,1 | 47,1 | 49,2 | 51,2 | 53,2 |
| 1000 | kg | - | 27,8 | 29,9 | 32,0 | 34,1 | 36,2 | 38,3 | 40,4 | 42,5 | 44,6 | 46,7 | 48,8 | 50,9 | 53,0 | 55,1 |

| Hn\Wn [mm] | | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | | |
|------------|----|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| 200 | kg | - | - | 27,6 | 28,7 | 29,7 | 30,8 | 31,9 | 32,9 | 34,0 | 35,0 | 36,1 | 37,1 | | | |
| 250 | kg | - | 28,6 | 29,7 | 30,9 | 32,0 | 33,1 | 34,2 | 35,3 | 36,5 | 37,6 | 38,7 | 39,8 | | | |
| 300 | kg | 29,5 | 30,7 | 31,9 | 33,0 | 34,2 | 35,4 | 36,6 | 37,8 | 39,0 | 40,2 | 41,4 | 42,5 | | | |
| 350 | kg | 31,5 | 32,7 | 34,0 | 35,2 | 36,5 | 37,7 | 39,0 | 40,2 | 41,5 | 42,7 | 44,0 | 45,2 | | | |
| 400 | kg | 33,4 | 34,8 | 36,1 | 37,4 | 38,7 | 40,0 | 41,4 | 42,7 | 44,0 | 45,3 | 46,6 | 47,9 | | | |
| 450 | kg | 35,4 | 36,8 | 38,2 | 39,6 | 41,0 | 42,3 | 43,7 | 45,1 | 46,5 | 47,9 | 49,3 | 50,6 | | | |
| 500 | kg | 37,4 | 38,9 | 40,3 | 41,8 | 43,2 | 44,7 | 46,1 | 47,6 | 49,0 | 50,5 | 51,9 | 53,3 | | | |
| 550 | kg | 39,4 | 40,9 | 42,4 | 43,9 | 45,5 | 47,0 | 48,5 | 50,0 | 51,5 | 53,0 | 54,5 | 56,0 | | | |
| 600 | kg | 41,4 | 43,0 | 44,5 | 46,1 | 47,7 | 49,3 | 50,9 | 52,4 | 54,0 | 55,6 | 57,2 | 58,8 | | | |
| 650 | kg | 43,4 | 45,0 | 46,7 | 48,3 | 49,9 | 51,6 | 53,2 | 54,9 | 56,5 | 58,2 | 59,8 | 61,5 | | | |
| 700 | kg | 45,3 | 47,1 | 48,8 | 50,5 | 52,2 | 53,9 | 55,6 | 57,3 | 59,0 | 60,7 | 62,4 | 64,2 | | | |
| 750 | kg | 47,3 | 49,1 | 50,9 | 52,7 | 54,4 | 56,2 | 58,0 | 59,8 | 61,5 | 63,3 | 65,1 | 66,9 | | | |
| 800 | kg | 49,3 | 51,2 | 53,0 | 54,8 | 56,7 | 58,5 | 60,4 | 62,2 | 64,0 | 65,9 | 67,7 | 69,6 | | | |
| 850 | kg | 51,3 | 53,2 | 55,1 | 57,0 | 58,9 | 60,8 | 62,7 | 64,6 | 66,5 | 68,4 | 70,4 | 72,3 | | | |
| 900 | kg | 53,3 | 55,3 | 57,2 | 59,2 | 61,2 | 63,1 | 65,1 | 67,1 | 69,0 | 71,0 | 73,0 | 75,0 | | | |
| 950 | kg | 55,3 | 57,3 | 59,3 | 61,4 | 63,4 | 65,4 | 67,5 | 69,5 | 71,6 | 73,6 | 75,6 | 77,7 | | | |
| 1000 | kg | 57,2 | 59,4 | 61,5 | 63,6 | 65,7 | 67,8 | 69,9 | 72,0 | 74,1 | 76,2 | 78,3 | 80,4 | | | |

CU2-L500 + CFTH

| Hn\Wn (mm) | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 |
|------------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 200 | kg | 11,6 | 12,8 | 13,9 | 15,1 | 16,2 | 17,4 | 18,6 | 19,7 | 20,9 | 22,0 | 23,2 | 24,3 | 25,5 | 26,6 | 27,8 |
| 250 | kg | 12,7 | 14,0 | 15,2 | 16,4 | 17,6 | 18,9 | 20,1 | 21,3 | 22,5 | 23,8 | 25,0 | 26,2 | 27,4 | 28,7 | 29,9 |
| 300 | kg | 13,8 | 15,1 | 16,4 | 17,7 | 19,0 | 20,3 | 21,6 | 22,9 | 24,2 | 25,5 | 26,8 | 28,1 | 29,4 | 30,7 | 32,0 |
| 350 | kg | 14,9 | 16,3 | 17,7 | 19,0 | 20,4 | 21,8 | 23,1 | 24,5 | 25,9 | 27,2 | 28,6 | 30,0 | 31,4 | 32,7 | 32,3 |
| 400 | kg | 16,0 | 17,5 | 18,9 | 20,3 | 21,8 | 23,2 | 24,7 | 26,1 | 27,5 | 29,0 | 30,4 | 31,9 | 33,3 | 33,0 | 34,4 |
| 450 | kg | 17,1 | 18,6 | 20,1 | 21,7 | 23,2 | 24,7 | 26,2 | 27,7 | 29,2 | 30,7 | 32,2 | 33,7 | 33,5 | 35,0 | 36,5 |
| 500 | kg | 18,2 | 19,8 | 21,4 | 23,0 | 24,6 | 26,1 | 27,7 | 29,3 | 30,9 | 32,5 | 34,0 | 33,9 | 35,5 | 37,0 | 38,6 |
| 550 | kg | 19,3 | 21,0 | 22,6 | 24,3 | 25,9 | 27,6 | 29,2 | 30,9 | 32,5 | 34,2 | 34,1 | 35,8 | 37,4 | 39,1 | 40,7 |
| 600 | kg | 20,4 | 22,1 | 23,9 | 25,6 | 27,3 | 29,0 | 30,8 | 32,5 | 34,2 | 34,2 | 35,9 | 37,6 | 39,4 | 41,1 | 42,8 |
| 650 | kg | 21,5 | 23,3 | 25,1 | 26,9 | 28,7 | 30,5 | 32,3 | 34,1 | 34,1 | 35,9 | 37,7 | 39,5 | 41,3 | 43,1 | 44,9 |
| 700 | kg | 22,6 | 24,5 | 26,3 | 28,2 | 30,1 | 31,9 | 33,8 | 33,9 | 35,8 | 37,7 | 39,5 | 41,4 | 43,3 | 45,1 | 47,0 |
| 750 | kg | 23,7 | 25,6 | 27,6 | 29,5 | 31,5 | 33,4 | 33,6 | 35,5 | 37,5 | 39,4 | 41,4 | 43,3 | 45,2 | 47,2 | 49,1 |
| 800 | kg | 24,8 | 26,8 | 28,8 | 30,8 | 32,9 | 33,1 | 35,1 | 37,1 | 39,1 | 41,2 | 43,2 | 45,2 | 47,2 | 49,2 | 51,2 |
| 850 | kg | 25,9 | 28,0 | 30,1 | 32,2 | 32,5 | 34,6 | 36,6 | 38,7 | 40,8 | 42,9 | 45,0 | 47,1 | 49,1 | 51,2 | 53,3 |
| 900 | kg | 27,0 | 29,2 | 31,3 | 31,7 | 33,9 | 36,0 | 38,2 | 40,3 | 42,5 | 44,6 | 46,8 | 48,9 | 51,1 | 53,3 | 55,4 |
| 950 | kg | 28,1 | 30,3 | 30,8 | 33,0 | 35,2 | 37,5 | 39,7 | 41,9 | 44,2 | 46,4 | 48,6 | 50,8 | 53,0 | 55,3 | 57,5 |
| 1000 | kg | 29,2 | 29,8 | 32,0 | 34,3 | 36,6 | 38,9 | 41,2 | 43,5 | 45,8 | 48,1 | 50,4 | 52,7 | 55,0 | 57,3 | 59,6 |

| Hn\Wn (mm) | | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | | |
|------------|----|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| 200 | kg | 29,0 | 30,1 | 29,5 | 30,7 | 31,8 | 33,0 | 34,1 | 35,3 | 36,4 | 37,6 | 38,8 | 39,9 | | | |
| 250 | kg | 31,1 | 30,6 | 31,8 | 33,1 | 34,3 | 35,5 | 36,7 | 38,0 | 39,2 | 40,4 | 41,6 | 42,9 | | | |
| 300 | kg | 31,5 | 32,8 | 34,1 | 35,4 | 36,7 | 38,0 | 39,3 | 40,6 | 41,9 | 43,2 | 44,5 | 45,8 | | | |
| 350 | kg | 33,7 | 35,1 | 36,4 | 37,8 | 39,2 | 40,6 | 41,9 | 43,3 | 44,7 | 46,0 | 47,4 | 48,8 | | | |
| 400 | kg | 35,9 | 37,3 | 38,8 | 40,2 | 41,6 | 43,1 | 44,5 | 46,0 | 47,4 | 48,8 | 50,3 | 51,7 | | | |
| 450 | kg | 38,0 | 39,6 | 41,1 | 42,6 | 44,1 | 45,6 | 47,1 | 48,6 | 50,1 | 51,6 | 53,2 | 54,7 | | | |
| 500 | kg | 40,2 | 41,8 | 43,4 | 45,0 | 46,5 | 48,1 | 49,7 | 51,3 | 52,9 | 54,5 | 56,0 | 57,6 | | | |
| 550 | kg | 42,4 | 44,0 | 45,7 | 47,3 | 49,0 | 50,7 | 52,3 | 54,0 | 55,6 | 57,3 | 58,9 | - | | | |
| 600 | kg | 44,5 | 46,3 | 48,0 | 49,7 | 51,4 | 53,2 | 54,9 | 56,6 | 58,4 | 60,1 | - | - | | | |
| 650 | kg | 46,7 | 48,5 | 50,3 | 52,1 | 53,9 | 55,7 | 57,5 | 59,3 | 61,1 | - | - | - | | | |
| 700 | kg | 48,9 | 50,7 | 52,6 | 54,5 | 56,4 | 58,2 | 60,1 | 62,0 | - | - | - | - | | | |
| 750 | kg | 51,1 | 53,0 | 54,9 | 56,9 | 58,8 | 60,7 | 62,7 | - | - | - | - | - | | | |
| 800 | kg | 53,2 | 55,2 | 57,2 | 59,2 | 61,3 | 63,3 | - | - | - | - | - | - | | | |
| 850 | kg | 55,4 | 57,5 | 59,5 | 61,6 | 63,7 | - | - | - | - | - | - | - | | | |
| 900 | kg | 57,6 | 59,7 | 61,9 | 64,0 | - | - | - | - | - | - | - | - | | | |
| 950 | kg | 59,7 | 61,9 | 64,2 | - | - | - | - | - | - | - | - | - | | | |
| 1000 | kg | 61,9 | 64,2 | - | - | - | - | - | - | - | - | - | - | | | |

CU2-L500 + ONE

| Hn\Wn (mm) | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 |
|------------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 200 | kg | 12,4 | 13,6 | 14,7 | 15,9 | 17,0 | 18,2 | 19,4 | 20,5 | 21,7 | 22,8 | 24,0 | 25,1 | 26,3 | 27,4 | 28,6 |
| 250 | kg | 13,5 | 14,8 | 16,0 | 17,2 | 18,4 | 19,7 | 20,9 | 22,1 | 23,3 | 24,6 | 25,8 | 27,0 | 28,2 | 29,5 | 30,7 |
| 300 | kg | 14,6 | 15,9 | 17,2 | 18,5 | 19,8 | 21,1 | 22,4 | 23,7 | 25,0 | 26,3 | 27,6 | 28,9 | 30,2 | 31,5 | 32,8 |
| 350 | kg | 15,7 | 17,1 | 18,5 | 19,8 | 21,2 | 22,6 | 23,9 | 25,3 | 26,7 | 28,0 | 29,4 | 30,8 | 32,2 | 33,5 | 33,1 |
| 400 | kg | 16,8 | 18,3 | 19,7 | 21,1 | 22,6 | 24,0 | 25,5 | 26,9 | 28,3 | 29,8 | 31,2 | 32,7 | 34,1 | 33,8 | 35,2 |
| 450 | kg | 17,9 | 19,4 | 20,9 | 22,5 | 24,0 | 25,5 | 27,0 | 28,5 | 30,0 | 31,5 | 33,0 | 34,5 | 34,3 | 35,8 | 37,3 |
| 500 | kg | 19,0 | 20,6 | 22,2 | 23,8 | 25,4 | 26,9 | 28,5 | 30,1 | 31,7 | 33,3 | 34,8 | 34,7 | 36,3 | 37,8 | 39,4 |
| 550 | kg | 20,1 | 21,8 | 23,4 | 25,1 | 26,7 | 28,4 | 30,0 | 31,7 | 33,3 | 35,0 | 34,9 | 36,6 | 38,2 | 39,9 | 41,5 |
| 600 | kg | 21,2 | 22,9 | 24,7 | 26,4 | 28,1 | 29,8 | 31,6 | 33,3 | 35,0 | 35,0 | 36,7 | 38,4 | 40,2 | 41,9 | 43,6 |
| 650 | kg | 22,3 | 24,1 | 25,9 | 27,7 | 29,5 | 31,3 | 33,1 | 34,9 | 34,9 | 36,7 | 38,5 | 40,3 | 42,1 | 43,9 | 45,7 |
| 700 | kg | 23,4 | 25,3 | 27,1 | 29,0 | 30,9 | 32,7 | 34,6 | 34,7 | 36,6 | 38,5 | 40,3 | 42,2 | 44,1 | 45,9 | 47,8 |
| 750 | kg | 24,5 | 26,4 | 28,4 | 30,3 | 32,3 | 34,2 | 34,4 | 36,3 | 38,3 | 40,2 | 42,2 | 44,1 | 46,0 | 48,0 | 49,9 |
| 800 | kg | 25,6 | 27,6 | 29,6 | 31,6 | 33,7 | 33,9 | 35,9 | 37,9 | 39,9 | 42,0 | 44,0 | 46,0 | 48,0 | 50,0 | 52,0 |
| 850 | kg | 26,7 | 28,8 | 30,9 | 33,0 | 33,3 | 35,4 | 37,4 | 39,5 | 41,6 | 43,7 | 45,8 | 47,9 | 49,9 | 52,0 | 54,1 |
| 900 | kg | 27,8 | 30,0 | 32,1 | 32,5 | 34,7 | 36,8 | 39,0 | 41,1 | 43,3 | 45,4 | 47,6 | 49,7 | 51,9 | 54,1 | 56,2 |
| 950 | kg | 28,9 | 31,1 | 31,6 | 33,8 | 36,0 | 38,3 | 40,5 | 42,7 | 45,0 | 47,2 | 49,4 | 51,6 | 53,8 | 56,1 | 58,3 |
| 1000 | kg | 30,0 | 30,6 | 32,8 | 35,1 | 37,4 | 39,7 | 42,0 | 44,3 | 46,6 | 48,9 | 51,2 | 53,5 | 55,8 | 58,1 | 60,4 |

| Hn\Wn (mm) | | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | | |
|------------|----|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| 200 | kg | 29,8 | 30,9 | 30,3 | 31,5 | 32,6 | 33,8 | 34,9 | 36,1 | 37,2 | 38,4 | 39,6 | 40,7 | | | |
| 250 | kg | 31,9 | 31,4 | 32,6 | 33,9 | 35,1 | 36,3 | 37,5 | 38,8 | 40,0 | 41,2 | 42,4 | 43,7 | | | |
| 300 | kg | 32,3 | 33,6 | 34,9 | 36,2 | 37,5 | 38,8 | 40,1 | 41,4 | 42,7 | 44,0 | 45,3 | 46,6 | | | |
| 350 | kg | 34,5 | 35,9 | 37,2 | 38,6 | 40,0 | 41,4 | 42,7 | 44,1 | 45,5 | 46,8 | 48,2 | 49,6 | | | |
| 400 | kg | 36,7 | 38,1 | 39,6 | 41,0 | 42,4 | 43,9 | 45,3 | 46,8 | 48,2 | 49,6 | 51,1 | 52,5 | | | |
| 450 | kg | 38,8 | 40,4 | 41,9 | 43,4 | 44,9 | 46,4 | 47,9 | 49,4 | 50,9 | 52,4 | 54,0 | 55,5 | | | |
| 500 | kg | 41,0 | 42,6 | 44,2 | 45,8 | 47,3 | 48,9 | 50,5 | 52,1 | 53,7 | 55,3 | 56,8 | 58,4 | | | |
| 550 | kg | 43,2 | 44,8 | 46,5 | 48,1 | 49,8 | 51,5 | 53,1 | 54,8 | 56,4 | 58,1 | 59,7 | 61,4 | | | |
| 600 | kg | 45,3 | 47,1 | 48,8 | 50,5 | 52,2 | 54,0 | 55,7 | 57,4 | 59,2 | 60,9 | 62,6 | 64,3 | | | |
| 650 | kg | 47,5 | 49,3 | 51,1 | 52,9 | 54,7 | 56,5 | 58,3 | 60,1 | 61,9 | 63,7 | 65,5 | 67,3 | | | |
| 700 | kg | 49,7 | 51,5 | 53,4 | 55,3 | 57,2 | 59,0 | 60,9 | 62,8 | 64,6 | 66,5 | 68,4 | 70,2 | | | |
| 750 | kg | 51,9 | 53,8 | 55,7 | 57,7 | 59,6 | 61,5 | 63,5 | 65,4 | 67,4 | 69,3 | 71,2 | 73,2 | | | |
| 800 | kg | 54,0 | 56,0 | 58,0 | 60,0 | 62,1 | 64,1 | 66,1 | 68,1 | 70,1 | 72,1 | 74,1 | 76,1 | | | |
| 850 | kg | 56,2 | 58,3 | 60,3 | 62,4 | 64,5 | 66,6 | 68,7 | 70,8 | 72,8 | 74,9 | 77,0 | 79,1 | | | |
| 900 | kg | 58,4 | 60,5 | 62,7 | 64,8 | 67,0 | 69,1 | 71,3 | 73,4 | 75,6 | 77,7 | 79,9 | 82,0 | | | |
| 950 | kg | 60,5 | 62,7 | 65,0 | 67,2 | 69,4 | 71,6 | 73,9 | 76,1 | 78,3 | 80,5 | 82,8 | 85,0 | | | |
| 1000 | kg | 62,7 | 65,0 | 67,3 | 69,6 | 71,9 | 74,2 | 76,5 | 78,8 | 81,1 | 83,4 | 85,6 | 87,9 | | | |

CU2-L500 + BFL

| Hn\Wn [mm] | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 |
|-------------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 200 | kg | 11,7 | 12,8 | 14,0 | 15,2 | 16,3 | 17,5 | 18,6 | 19,8 | 20,9 | 22,1 | 23,2 | 24,4 | 25,5 | 26,7 | 27,9 |
| 250 | kg | 12,8 | 14,0 | 15,2 | 16,5 | 17,7 | 18,9 | 20,1 | 21,4 | 22,6 | 23,8 | 25,0 | 26,3 | 27,5 | 28,7 | 29,9 |
| 300 | kg | 13,9 | 15,2 | 16,5 | 17,8 | 19,1 | 20,4 | 21,7 | 23,0 | 24,3 | 25,6 | 26,9 | 28,2 | 29,5 | 30,8 | 32,0 |
| 350 | kg | 15,0 | 16,3 | 17,7 | 19,1 | 20,4 | 21,8 | 23,2 | 24,6 | 25,9 | 27,3 | 28,7 | 30,0 | 31,4 | 32,8 | - |
| 400 | kg | 16,1 | 17,5 | 19,0 | 20,4 | 21,8 | 23,3 | 24,7 | 26,2 | 27,6 | 29,0 | 30,5 | 31,9 | 33,4 | - | - |
| 450 | kg | 17,2 | 18,7 | 20,2 | 21,7 | 23,2 | 24,7 | 26,2 | 27,7 | 29,3 | 30,8 | 32,3 | 33,8 | - | - | - |
| 500 | kg | 18,3 | 19,8 | 21,4 | 23,0 | 24,6 | 26,2 | 27,8 | 29,4 | 30,9 | 32,5 | 34,1 | - | - | - | - |
| 550 | kg | 19,4 | 21,0 | 22,7 | 24,3 | 26,0 | 27,6 | 29,3 | 30,9 | 32,6 | 34,3 | - | - | - | - | - |
| 600 | kg | 20,5 | 22,2 | 23,9 | 25,6 | 27,4 | 29,1 | 30,8 | 32,5 | 34,3 | - | - | - | - | - | - |
| 650 | kg | 21,6 | 23,4 | 25,2 | 26,9 | 28,8 | 30,5 | 32,3 | 34,1 | - | - | - | - | - | - | - |
| 700 | kg | 22,7 | 24,5 | 26,4 | 28,3 | 30,1 | 32,0 | 33,9 | - | - | - | - | - | - | - | - |
| 750 | kg | 23,8 | 25,7 | 27,6 | 29,6 | 31,5 | 33,5 | - | - | - | - | - | - | - | - | - |
| 800 | kg | 24,9 | 26,9 | 28,9 | 30,9 | 32,9 | - | - | - | - | - | - | - | - | - | - |
| 850 | kg | 26,0 | 28,0 | 30,1 | 32,2 | - | - | - | - | - | - | - | - | - | - | - |
| 900 | kg | 27,0 | 29,2 | 31,4 | - | - | - | - | - | - | - | - | - | - | - | - |
| 950 | kg | 28,2 | 30,4 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1000 | kg | 29,3 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| Hn\Wn [mm] | | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | | |
|-------------|----|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| 200 | kg | 29,0 | 30,2 | - | - | - | - | - | - | - | - | - | - | | | |
| 250 | kg | 31,2 | - | - | - | - | - | - | - | - | - | - | - | | | |
| 300 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 350 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 400 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 450 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 500 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 550 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 600 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 650 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 700 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 750 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 800 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 850 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 900 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 950 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 1000 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |

CU2-L500 + BFLT

| Hn\Wn [mm] | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 |
|-------------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 200 | kg | 11,8 | 12,9 | 14,1 | 15,3 | 16,4 | 17,6 | 18,7 | 19,9 | 21,0 | 22,2 | 23,3 | 24,5 | 25,6 | 26,8 | 28,0 |
| 250 | kg | 12,9 | 14,1 | 15,3 | 16,6 | 17,8 | 19,0 | 20,2 | 21,5 | 22,7 | 23,9 | 25,1 | 26,4 | 27,6 | 28,8 | 30,0 |
| 300 | kg | 14,0 | 15,3 | 16,6 | 17,9 | 19,2 | 20,5 | 21,8 | 23,1 | 24,4 | 25,7 | 27,0 | 28,3 | 29,6 | 30,9 | 32,1 |
| 350 | kg | 15,1 | 16,4 | 17,8 | 19,2 | 20,5 | 21,9 | 23,3 | 24,7 | 26,0 | 27,4 | 28,8 | 30,1 | 31,5 | 32,9 | - |
| 400 | kg | 16,2 | 17,6 | 19,1 | 20,5 | 21,9 | 23,4 | 24,8 | 26,3 | 27,7 | 29,1 | 30,6 | 32,0 | 33,5 | - | - |
| 450 | kg | 17,3 | 18,8 | 20,3 | 21,8 | 23,3 | 24,8 | 26,3 | 27,8 | 29,4 | 30,9 | 32,4 | 33,9 | - | - | - |
| 500 | kg | 18,4 | 19,9 | 21,5 | 23,1 | 24,7 | 26,3 | 27,9 | 29,5 | 31,0 | 32,6 | 34,2 | - | - | - | - |
| 550 | kg | 19,5 | 21,1 | 22,8 | 24,4 | 26,1 | 27,7 | 29,4 | 31,0 | 32,7 | 34,4 | - | - | - | - | - |
| 600 | kg | 20,6 | 22,3 | 24,0 | 25,7 | 27,5 | 29,2 | 30,9 | 32,6 | 34,4 | - | - | - | - | - | - |
| 650 | kg | 21,7 | 23,5 | 25,3 | 27,0 | 28,9 | 30,6 | 32,4 | 34,2 | - | - | - | - | - | - | - |
| 700 | kg | 22,8 | 24,6 | 26,5 | 28,4 | 30,2 | 32,1 | 34,0 | - | - | - | - | - | - | - | - |
| 750 | kg | 23,9 | 25,8 | 27,7 | 29,7 | 31,6 | 33,6 | - | - | - | - | - | - | - | - | - |
| 800 | kg | 25,0 | 27,0 | 29,0 | 31,0 | 33,0 | - | - | - | - | - | - | - | - | - | - |
| 850 | kg | 26,1 | 28,1 | 30,2 | 32,3 | - | - | - | - | - | - | - | - | - | - | - |
| 900 | kg | 27,1 | 29,3 | 31,5 | - | - | - | - | - | - | - | - | - | - | - | - |
| 950 | kg | 28,3 | 30,5 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1000 | kg | 29,4 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| Hn\Wn [mm] | | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | | |
|-------------|----|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| 200 | kg | 29,1 | 30,3 | - | - | - | - | - | - | - | - | - | - | | | |
| 250 | kg | 31,3 | - | - | - | - | - | - | - | - | - | - | - | | | |
| 300 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 350 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 400 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 450 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 500 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 550 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 600 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 650 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 700 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 750 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 800 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 850 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 900 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 950 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |
| 1000 | kg | - | - | - | - | - | - | - | - | - | - | - | - | | | |

CU2-L500 + BFN

| Hn\Wn [mm] | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 |
|------------|----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 200 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 300 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 32,7 |
| 400 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | 33,3 | 34,8 |
| 450 | kg | - | - | - | - | - | - | - | - | - | - | - | - | 33,9 | 35,4 | 36,9 |
| 500 | kg | - | - | - | - | - | - | - | - | - | - | - | 34,2 | 35,8 | 37,4 | 39,0 |
| 550 | kg | - | - | - | - | - | - | - | - | - | - | 34,5 | 36,1 | 37,8 | 39,4 | 41,1 |
| 600 | kg | - | - | - | - | - | - | - | - | - | 34,5 | 36,3 | 38,0 | 39,7 | 41,5 | 43,2 |
| 650 | kg | - | - | - | - | - | - | - | - | 34,5 | 36,3 | 38,1 | 39,9 | 41,7 | 43,5 | 45,3 |
| 700 | kg | - | - | - | - | - | - | - | 34,3 | 36,2 | 38,0 | 39,9 | 41,8 | 43,6 | 45,5 | 47,4 |
| 750 | kg | - | - | - | - | - | - | 33,9 | 35,9 | 37,8 | 39,8 | 41,7 | 43,6 | 45,6 | 47,5 | 49,5 |
| 800 | kg | - | - | - | - | - | 33,5 | 35,5 | 37,5 | 39,5 | 41,5 | 43,5 | 45,5 | 47,5 | 49,5 | 51,6 |
| 850 | kg | - | - | - | - | 32,8 | 34,9 | 37,0 | 39,1 | 41,2 | 43,2 | 45,3 | 47,4 | 49,5 | 51,6 | 53,7 |
| 900 | kg | - | - | - | 32,1 | 34,2 | 36,4 | 38,5 | 40,7 | 42,8 | 45,0 | 47,1 | 49,3 | 51,4 | 53,6 | 55,8 |
| 950 | kg | - | - | 31,1 | 33,4 | 35,6 | 37,8 | 40,1 | 42,3 | 44,5 | 46,7 | 48,9 | 51,2 | 53,4 | 55,6 | 57,8 |
| 1000 | kg | - | 30,1 | 32,4 | 34,7 | 37,0 | 39,3 | 41,6 | 43,9 | 46,2 | 48,5 | 50,8 | 53,1 | 55,3 | 57,6 | 59,9 |

| Hn\Wn [mm] | | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | | |
|------------|----|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| 200 | kg | - | - | 29,9 | 31,0 | 32,2 | 33,3 | 34,5 | 35,6 | 36,8 | 38,0 | 39,1 | 40,3 | | | |
| 250 | kg | - | 31,0 | 32,2 | 33,4 | 34,6 | 35,9 | 37,1 | 38,3 | 39,5 | 40,8 | 42,0 | 43,2 | | | |
| 300 | kg | 31,9 | 33,2 | 34,5 | 35,8 | 37,1 | 38,4 | 39,7 | 41,0 | 42,3 | 43,6 | 44,9 | 46,2 | | | |
| 350 | kg | 34,1 | 35,4 | 36,8 | 38,2 | 39,5 | 40,9 | 42,3 | 43,6 | 45,0 | 46,4 | 47,8 | 49,1 | | | |
| 400 | kg | 36,2 | 37,7 | 39,1 | 40,5 | 42,0 | 43,4 | 44,9 | 46,3 | 47,8 | 49,2 | 50,6 | 52,1 | | | |
| 450 | kg | 38,4 | 39,9 | 41,4 | 42,9 | 44,4 | 46,0 | 47,5 | 49,0 | 50,5 | 52,0 | 53,5 | 55,0 | | | |
| 500 | kg | 40,6 | 42,2 | 43,7 | 45,3 | 46,9 | 48,5 | 50,1 | 51,6 | 53,2 | 54,8 | 56,4 | 58,0 | | | |
| 550 | kg | 42,7 | 44,4 | 46,0 | 47,7 | 49,4 | 51,0 | 52,7 | 54,3 | 56,0 | 57,6 | 59,3 | 60,9 | | | |
| 600 | kg | 44,9 | 46,6 | 48,3 | 50,1 | 51,8 | 53,5 | 55,3 | 57,0 | 58,7 | 60,4 | 62,2 | 63,9 | | | |
| 650 | kg | 47,1 | 48,9 | 50,7 | 52,5 | 54,3 | 56,0 | 57,9 | 59,6 | 61,4 | 63,2 | 65,0 | 66,8 | | | |
| 700 | kg | 49,2 | 51,1 | 53,0 | 54,8 | 56,7 | 58,6 | 60,4 | 62,3 | 64,2 | 66,0 | 67,9 | 69,8 | | | |
| 750 | kg | 51,4 | 53,3 | 55,3 | 57,2 | 59,2 | 61,1 | 63,0 | 65,0 | 66,9 | 68,9 | 70,8 | 72,7 | | | |
| 800 | kg | 53,6 | 55,6 | 57,6 | 59,6 | 61,6 | 63,6 | 65,6 | 67,6 | 69,6 | 71,7 | 73,7 | 75,7 | | | |
| 850 | kg | 55,7 | 57,8 | 59,9 | 62,0 | 64,1 | 66,1 | 68,2 | 70,3 | 72,4 | 74,5 | 76,6 | 78,6 | | | |
| 900 | kg | 57,9 | 60,1 | 62,2 | 64,4 | 66,5 | 68,7 | 70,8 | 73,0 | 75,1 | 77,3 | 79,4 | 81,6 | | | |
| 950 | kg | 60,1 | 62,3 | 64,5 | 66,7 | 69,0 | 71,2 | 73,4 | 75,6 | 77,9 | 80,1 | 82,3 | 84,5 | | | |
| 1000 | kg | 62,2 | 64,5 | 66,8 | 69,1 | 71,4 | 73,7 | 76,0 | 78,3 | 80,6 | 82,9 | 85,2 | 87,5 | | | |

CU2-L500 + BFNT

| Hn\Wn [mm] | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 |
|------------|----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 200 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 250 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 300 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 350 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 32,8 |
| 400 | kg | - | - | - | - | - | - | - | - | - | - | - | - | - | 33,4 | 34,9 |
| 450 | kg | - | - | - | - | - | - | - | - | - | - | - | - | 34,0 | 35,5 | 37,0 |
| 500 | kg | - | - | - | - | - | - | - | - | - | - | 34,3 | 35,9 | 37,5 | 39,1 | |
| 550 | kg | - | - | - | - | - | - | - | - | - | 34,6 | 36,2 | 37,9 | 39,5 | 41,2 | |
| 600 | kg | - | - | - | - | - | - | - | - | - | 34,6 | 36,4 | 38,1 | 39,8 | 41,6 | 43,3 |
| 650 | kg | - | - | - | - | - | - | - | - | 34,6 | 36,4 | 38,2 | 40,0 | 41,8 | 43,6 | 45,4 |
| 700 | kg | - | - | - | - | - | - | - | 34,4 | 36,3 | 38,1 | 40,0 | 41,9 | 43,7 | 45,6 | 47,5 |
| 750 | kg | - | - | - | - | - | - | 34,0 | 36,0 | 37,9 | 39,9 | 41,8 | 43,7 | 45,7 | 47,6 | 49,6 |
| 800 | kg | - | - | - | - | - | 33,6 | 35,6 | 37,6 | 39,6 | 41,6 | 43,6 | 45,6 | 47,6 | 49,6 | 51,7 |
| 850 | kg | - | - | - | - | 32,9 | 35,0 | 37,1 | 39,2 | 41,3 | 43,3 | 45,4 | 47,5 | 49,6 | 51,7 | 53,8 |
| 900 | kg | - | - | - | 32,2 | 34,3 | 36,5 | 38,6 | 40,8 | 42,9 | 45,1 | 47,2 | 49,4 | 51,5 | 53,7 | 55,9 |
| 950 | kg | - | - | 31,2 | 33,5 | 35,7 | 37,9 | 40,2 | 42,4 | 44,6 | 46,8 | 49,0 | 51,3 | 53,5 | 55,7 | 57,9 |
| 1000 | kg | - | 30,2 | 32,5 | 34,8 | 37,1 | 39,4 | 41,7 | 44,0 | 46,3 | 48,6 | 50,9 | 53,2 | 55,4 | 57,7 | 60,0 |

| Hn\Wn [mm] | | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | | |
|------------|----|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| 200 | kg | - | - | 30,0 | 31,1 | 32,3 | 33,4 | 34,6 | 35,7 | 36,9 | 38,1 | 39,2 | 40,4 | | | |
| 250 | kg | - | 31,1 | 32,3 | 33,5 | 34,7 | 36,0 | 37,2 | 38,4 | 39,6 | 40,9 | 42,1 | 43,3 | | | |
| 300 | kg | 32,0 | 33,3 | 34,6 | 35,9 | 37,2 | 38,5 | 39,8 | 41,1 | 42,4 | 43,7 | 45,0 | 46,3 | | | |
| 350 | kg | 34,2 | 35,5 | 36,9 | 38,3 | 39,6 | 41,0 | 42,4 | 43,7 | 45,1 | 46,5 | 47,9 | 49,2 | | | |
| 400 | kg | 36,3 | 37,8 | 39,2 | 40,6 | 42,1 | 43,5 | 45,0 | 46,4 | 47,9 | 49,3 | 50,7 | 52,2 | | | |
| 450 | kg | 38,5 | 40,0 | 41,5 | 43,0 | 44,5 | 46,1 | 47,6 | 49,1 | 50,6 | 52,1 | 53,6 | 55,1 | | | |
| 500 | kg | 40,7 | 42,3 | 43,8 | 45,4 | 47,0 | 48,6 | 50,2 | 51,7 | 53,3 | 54,9 | 56,5 | 58,1 | | | |
| 550 | kg | 42,8 | 44,5 | 46,1 | 47,8 | 49,5 | 51,1 | 52,8 | 54,4 | 56,1 | 57,7 | 59,4 | 61,0 | | | |
| 600 | kg | 45,0 | 46,7 | 48,4 | 50,2 | 51,9 | 53,6 | 55,4 | 57,1 | 58,8 | 60,5 | 62,3 | 64,0 | | | |
| 650 | kg | 47,2 | 49,0 | 50,8 | 52,6 | 54,4 | 56,1 | 58,0 | 59,7 | 61,5 | 63,3 | 65,1 | 66,9 | | | |
| 700 | kg | 49,3 | 51,2 | 53,1 | 54,9 | 56,8 | 58,7 | 60,5 | 62,4 | 64,3 | 66,1 | 68,0 | 69,9 | | | |
| 750 | kg | 51,5 | 53,4 | 55,4 | 57,3 | 59,3 | 61,2 | 63,1 | 65,1 | 67,0 | 69,0 | 70,9 | 72,8 | | | |
| 800 | kg | 53,7 | 55,7 | 57,7 | 59,7 | 61,7 | 63,7 | 65,7 | 67,7 | 69,7 | 71,8 | 73,8 | 75,8 | | | |
| 850 | kg | 55,8 | 57,9 | 60,0 | 62,1 | 64,2 | 66,2 | 68,3 | 70,4 | 72,5 | 74,6 | 76,7 | 78,7 | | | |
| 900 | kg | 58,0 | 60,2 | 62,3 | 64,5 | 66,6 | 68,8 | 70,9 | 73,1 | 75,2 | 77,4 | 79,5 | 81,7 | | | |
| 950 | kg | 60,2 | 62,4 | 64,6 | 66,8 | 69,1 | 71,3 | 73,5 | 75,7 | 78,0 | 80,2 | 82,4 | 84,6 | | | |
| 1000 | kg | 62,3 | 64,6 | 66,9 | 69,2 | 71,5 | 73,8 | 76,1 | 78,4 | 80,7 | 83,0 | 85,3 | 87,6 | | | |

CU2 ATEX + RMEX

| Hn\Wn (mm) | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 |
|------------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 200 | kg | 14,8 | 15,8 | 16,9 | 18,0 | 19,0 | 20,1 | 21,1 | 22,2 | 23,2 | 24,3 | 25,4 | 26,4 | 27,5 | 28,5 | 29,6 |
| 250 | kg | 15,8 | 16,9 | 18,0 | 19,2 | 20,3 | 21,4 | 22,5 | 23,7 | 24,8 | 25,9 | 27,0 | 28,1 | 29,3 | 30,4 | 31,5 |
| 300 | kg | 16,8 | 18,0 | 19,2 | 20,4 | 21,5 | 22,7 | 23,9 | 25,1 | 26,3 | 27,5 | 28,7 | 29,9 | 31,1 | 32,2 | 33,4 |
| 350 | kg | 17,8 | 19,1 | 20,3 | 21,6 | 22,8 | 24,1 | 25,3 | 26,6 | 27,8 | 29,1 | 30,3 | 31,6 | 32,8 | 34,1 | 33,7 |
| 400 | kg | 18,8 | 20,1 | 21,4 | 22,8 | 24,1 | 25,4 | 26,7 | 28,0 | 29,4 | 30,7 | 32,0 | 33,3 | 34,6 | 34,3 | 35,7 |
| 450 | kg | 19,8 | 21,2 | 22,6 | 24,0 | 25,3 | 26,7 | 28,1 | 29,5 | 30,9 | 32,3 | 33,6 | 35,0 | 34,8 | 36,2 | 37,6 |
| 500 | kg | 20,8 | 22,3 | 23,7 | 25,2 | 26,6 | 28,1 | 29,5 | 31,0 | 32,4 | 33,9 | 35,3 | 35,2 | 36,6 | 38,1 | 39,5 |
| 550 | kg | 21,8 | 23,3 | 24,9 | 26,4 | 27,9 | 29,4 | 30,9 | 32,4 | 33,9 | 35,5 | 35,4 | 36,9 | 38,4 | 39,9 | 41,4 |
| 600 | kg | 22,8 | 24,4 | 26,0 | 27,6 | 29,1 | 30,7 | 32,3 | 33,9 | 35,5 | 35,4 | 37,0 | 38,6 | 40,2 | 41,8 | 43,3 |
| 650 | kg | 23,8 | 25,5 | 27,1 | 28,8 | 30,4 | 32,1 | 33,7 | 35,3 | 35,4 | 37,0 | 38,7 | 40,3 | 42,0 | 43,6 | 45,3 |
| 700 | kg | 24,8 | 26,5 | 28,3 | 30,0 | 31,7 | 33,4 | 35,1 | 35,2 | 36,9 | 38,6 | 40,3 | 42,0 | 43,8 | 45,5 | 47,2 |
| 750 | kg | 25,8 | 27,6 | 29,4 | 31,2 | 32,9 | 34,7 | 34,9 | 36,7 | 38,4 | 40,2 | 42,0 | 43,8 | 45,5 | 47,3 | 49,1 |
| 800 | kg | 26,8 | 28,7 | 30,5 | 32,4 | 34,2 | 34,5 | 36,3 | 38,1 | 40,0 | 41,8 | 43,7 | 45,5 | 47,3 | 49,2 | 51,0 |
| 850 | kg | 27,9 | 29,8 | 31,7 | 33,6 | 33,9 | 35,8 | 37,7 | 39,6 | 41,5 | 43,4 | 45,3 | 47,2 | 49,1 | 51,0 | 52,9 |
| 900 | kg | 28,9 | 30,8 | 32,8 | 33,2 | 35,1 | 37,1 | 39,1 | 41,1 | 43,0 | 45,0 | 47,0 | 48,9 | 50,9 | 52,9 | 54,9 |
| 950 | kg | 29,9 | 31,9 | 32,3 | 34,4 | 36,4 | 38,4 | 40,5 | 42,5 | 44,6 | 46,6 | 48,6 | 50,7 | 52,7 | 54,7 | 56,8 |
| 1000 | kg | 30,9 | 31,4 | 33,5 | 35,6 | 37,7 | 39,8 | 41,9 | 44,0 | 46,1 | 48,2 | 50,3 | 52,4 | 54,5 | 56,6 | 58,7 |

| Hn\Wn (mm) | | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | | |
|------------|----|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| 200 | kg | 30,6 | 31,7 | 31,2 | 32,2 | 33,3 | 34,3 | 35,4 | 36,4 | 37,5 | 38,6 | 39,6 | 40,7 | | | |
| 250 | kg | 32,6 | 32,2 | 33,3 | 34,4 | 35,5 | 36,6 | 37,8 | 38,9 | 40,0 | 41,1 | 42,3 | 43,4 | | | |
| 300 | kg | 33,0 | 34,2 | 35,4 | 36,6 | 37,8 | 39,0 | 40,1 | 41,3 | 42,5 | 43,7 | 44,9 | 46,1 | | | |
| 350 | kg | 35,0 | 36,3 | 37,5 | 38,8 | 40,0 | 41,3 | 42,5 | 43,8 | 45,0 | 46,3 | 47,5 | 48,8 | | | |
| 400 | kg | 37,0 | 38,3 | 39,6 | 40,9 | 42,3 | 43,6 | 44,9 | 46,2 | 47,5 | 48,8 | 50,2 | 51,5 | | | |
| 450 | kg | 39,0 | 40,4 | 41,7 | 43,1 | 44,5 | 45,9 | 47,3 | 48,7 | 50,0 | 51,4 | 52,8 | 54,2 | | | |
| 500 | kg | 41,0 | 42,4 | 43,8 | 45,3 | 46,7 | 48,2 | 49,6 | 51,1 | 52,5 | 54,0 | 55,4 | 56,9 | | | |
| 550 | kg | 42,9 | 44,4 | 46,0 | 47,5 | 49,0 | 50,5 | 52,0 | 53,5 | 55,0 | 56,6 | 58,1 | 59,6 | | | |
| 600 | kg | 44,9 | 46,5 | 48,1 | 49,7 | 51,2 | 52,8 | 54,4 | 56,0 | 57,6 | 59,1 | 60,7 | 62,3 | | | |
| 650 | kg | 46,9 | 48,5 | 50,2 | 51,8 | 53,5 | 55,1 | 56,8 | 58,4 | 60,1 | 61,7 | 63,3 | 65,0 | | | |
| 700 | kg | 48,9 | 50,6 | 52,3 | 54,0 | 55,7 | 57,4 | 59,1 | 60,9 | 62,6 | 64,3 | 66,0 | 67,7 | | | |
| 750 | kg | 50,9 | 52,6 | 54,4 | 56,2 | 58,0 | 59,7 | 61,5 | 63,3 | 65,1 | 66,8 | 68,6 | 70,4 | | | |
| 800 | kg | 52,9 | 54,7 | 56,5 | 58,4 | 60,2 | 62,1 | 63,9 | 65,7 | 67,6 | 69,4 | 71,3 | 73,1 | | | |
| 850 | kg | 54,8 | 56,7 | 58,6 | 60,6 | 62,5 | 64,4 | 66,3 | 68,2 | 70,1 | 72,0 | 73,9 | 75,8 | | | |
| 900 | kg | 56,8 | 58,8 | 60,8 | 62,7 | 64,7 | 66,7 | 68,6 | 70,6 | 72,6 | 74,6 | 76,5 | 78,5 | | | |
| 950 | kg | 58,8 | 60,8 | 62,9 | 64,9 | 67,0 | 69,0 | 71,0 | 73,1 | 75,1 | 77,1 | 79,2 | 81,2 | | | |
| 1000 | kg | 60,8 | 62,9 | 65,0 | 67,1 | 69,2 | 71,3 | 73,4 | 75,5 | 77,6 | 79,7 | 81,8 | 83,9 | | | |

CU2 ATEX + RMEXT

| Hn\Wn (mm) | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 |
|------------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 200 | kg | 14,9 | 15,9 | 17,0 | 18,1 | 19,1 | 20,2 | 21,2 | 22,3 | 23,3 | 24,4 | 25,5 | 26,5 | 27,6 | 28,6 | 29,7 |
| 250 | kg | 15,9 | 17,0 | 18,1 | 19,3 | 20,4 | 21,5 | 22,6 | 23,8 | 24,9 | 26,0 | 27,1 | 28,2 | 29,4 | 30,5 | 31,6 |
| 300 | kg | 16,9 | 18,1 | 19,3 | 20,5 | 21,6 | 22,8 | 24,0 | 25,2 | 26,4 | 27,6 | 28,8 | 30,0 | 31,2 | 32,3 | 33,5 |
| 350 | kg | 17,9 | 19,2 | 20,4 | 21,7 | 22,9 | 24,2 | 25,4 | 26,7 | 27,9 | 29,2 | 30,4 | 31,7 | 32,9 | 34,2 | 33,8 |
| 400 | kg | 18,9 | 20,2 | 21,5 | 22,9 | 24,2 | 25,5 | 26,8 | 28,1 | 29,5 | 30,8 | 32,1 | 33,4 | 34,7 | 34,4 | 35,8 |
| 450 | kg | 19,9 | 21,3 | 22,7 | 24,1 | 25,4 | 26,8 | 28,2 | 29,6 | 31,0 | 32,4 | 33,7 | 35,1 | 34,9 | 36,3 | 37,7 |
| 500 | kg | 20,9 | 22,4 | 23,8 | 25,3 | 26,7 | 28,2 | 29,6 | 31,1 | 32,5 | 34,0 | 35,4 | 35,3 | 36,7 | 38,2 | 39,6 |
| 550 | kg | 21,9 | 23,4 | 25,0 | 26,5 | 28,0 | 29,5 | 31,0 | 32,5 | 34,0 | 35,6 | 35,5 | 37,0 | 38,5 | 40,0 | 41,5 |
| 600 | kg | 22,9 | 24,5 | 26,1 | 27,7 | 29,2 | 30,8 | 32,4 | 34,0 | 35,6 | 35,5 | 37,1 | 38,7 | 40,3 | 41,9 | 43,4 |
| 650 | kg | 23,9 | 25,6 | 27,2 | 28,9 | 30,5 | 32,2 | 33,8 | 35,4 | 35,5 | 37,1 | 38,8 | 40,4 | 42,1 | 43,7 | 45,4 |
| 700 | kg | 24,9 | 26,6 | 28,4 | 30,1 | 31,8 | 33,5 | 35,2 | 35,3 | 37,0 | 38,7 | 40,4 | 42,1 | 43,9 | 45,6 | 47,3 |
| 750 | kg | 25,9 | 27,7 | 29,5 | 31,3 | 33,0 | 34,8 | 35,0 | 36,8 | 38,5 | 40,3 | 42,1 | 43,9 | 45,6 | 47,4 | 49,2 |
| 800 | kg | 26,9 | 28,8 | 30,6 | 32,5 | 34,3 | 34,6 | 36,4 | 38,2 | 40,1 | 41,9 | 43,8 | 45,6 | 47,4 | 49,3 | 51,1 |
| 850 | kg | 28,0 | 29,9 | 31,8 | 33,7 | 34,0 | 35,9 | 37,8 | 39,7 | 41,6 | 43,5 | 45,4 | 47,3 | 49,2 | 51,1 | 53,0 |
| 900 | kg | 29,0 | 30,9 | 32,9 | 33,3 | 35,2 | 37,2 | 39,2 | 41,2 | 43,1 | 45,1 | 47,1 | 49,0 | 51,0 | 53,0 | 55,0 |
| 950 | kg | 30,0 | 32,0 | 32,4 | 34,5 | 36,5 | 38,5 | 40,6 | 42,6 | 44,7 | 46,7 | 48,7 | 50,8 | 52,8 | 54,8 | 56,9 |
| 1000 | kg | 31,0 | 31,5 | 33,6 | 35,7 | 37,8 | 39,9 | 42,0 | 44,1 | 46,2 | 48,3 | 50,4 | 52,5 | 54,6 | 56,7 | 58,8 |

| Hn\Wn (mm) | | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | | |
|------------|----|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| 200 | kg | 30,7 | 31,8 | 31,3 | 32,3 | 33,4 | 34,4 | 35,5 | 36,5 | 37,6 | 38,7 | 39,7 | 40,8 | | | |
| 250 | kg | 32,7 | 32,3 | 33,4 | 34,5 | 35,6 | 36,7 | 37,9 | 39,0 | 40,1 | 41,2 | 42,4 | 43,5 | | | |
| 300 | kg | 33,1 | 34,3 | 35,5 | 36,7 | 37,9 | 39,1 | 40,2 | 41,4 | 42,6 | 43,8 | 45,0 | 46,2 | | | |
| 350 | kg | 35,1 | 36,4 | 37,6 | 38,9 | 40,1 | 41,4 | 42,6 | 43,9 | 45,1 | 46,4 | 47,6 | 48,9 | | | |
| 400 | kg | 37,1 | 38,4 | 39,7 | 41,0 | 42,4 | 43,7 | 45,0 | 46,3 | 47,6 | 48,9 | 50,3 | 51,6 | | | |
| 450 | kg | 39,1 | 40,5 | 41,8 | 43,2 | 44,6 | 46,0 | 47,4 | 48,8 | 50,1 | 51,5 | 52,9 | 54,3 | | | |
| 500 | kg | 41,1 | 42,5 | 43,9 | 45,4 | 46,8 | 48,3 | 49,7 | 51,2 | 52,6 | 54,1 | 55,5 | 57,0 | | | |
| 550 | kg | 43,0 | 44,5 | 46,1 | 47,6 | 49,1 | 50,6 | 52,1 | 53,6 | 55,1 | 56,7 | 58,2 | 59,7 | | | |
| 600 | kg | 45,0 | 46,6 | 48,2 | 49,8 | 51,3 | 52,9 | 54,5 | 56,1 | 57,7 | 59,2 | 60,8 | 62,4 | | | |
| 650 | kg | 47,0 | 48,6 | 50,3 | 51,9 | 53,6 | 55,2 | 56,9 | 58,5 | 60,2 | 61,8 | 63,4 | 65,1 | | | |
| 700 | kg | 49,0 | 50,7 | 52,4 | 54,1 | 55,8 | 57,5 | 59,2 | 61,0 | 62,7 | 64,4 | 66,1 | 67,8 | | | |
| 750 | kg | 51,0 | 52,7 | 54,5 | 56,3 | 58,1 | 59,8 | 61,6 | 63,4 | 65,2 | 66,9 | 68,7 | 70,5 | | | |
| 800 | kg | 53,0 | 54,8 | 56,6 | 58,5 | 60,3 | 62,2 | 64,0 | 65,8 | 67,7 | 69,5 | 71,4 | 73,2 | | | |
| 850 | kg | 54,9 | 56,8 | 58,7 | 60,7 | 62,6 | 64,5 | 66,4 | 68,3 | 70,2 | 72,1 | 74,0 | 75,9 | | | |
| 900 | kg | 56,9 | 58,9 | 60,9 | 62,8 | 64,8 | 66,8 | 68,7 | 70,7 | 72,7 | 74,7 | 76,6 | 78,6 | | | |
| 950 | kg | 58,9 | 60,9 | 63,0 | 65,0 | 67,1 | 69,1 | 71,1 | 73,2 | 75,2 | 77,2 | 79,3 | 81,3 | | | |
| 1000 | kg | 60,9 | 63,0 | 65,1 | 67,2 | 69,3 | 71,4 | 73,5 | 75,6 | 77,7 | 79,8 | 81,9 | 84,0 | | | |

CU2 ATEX + EMEX

| Hn\Wn (mm) | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 |
|------------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 200 | kg | 14,8 | 15,8 | 16,9 | 18,0 | 19,0 | 20,1 | 21,1 | 22,2 | 23,2 | 24,3 | 25,4 | 26,4 | 27,5 | 28,5 | 29,6 |
| 250 | kg | 15,8 | 16,9 | 18,0 | 19,2 | 20,3 | 21,4 | 22,5 | 23,7 | 24,8 | 25,9 | 27,0 | 28,1 | 29,3 | 30,4 | 31,5 |
| 300 | kg | 16,8 | 18,0 | 19,2 | 20,4 | 21,5 | 22,7 | 23,9 | 25,1 | 26,3 | 27,5 | 28,7 | 29,9 | 31,1 | 32,2 | 33,4 |
| 350 | kg | 17,8 | 19,1 | 20,3 | 21,6 | 22,8 | 24,1 | 25,3 | 26,6 | 27,8 | 29,1 | 30,3 | 31,6 | 32,8 | 34,1 | 33,7 |
| 400 | kg | 18,8 | 20,1 | 21,4 | 22,8 | 24,1 | 25,4 | 26,7 | 28,0 | 29,4 | 30,7 | 32,0 | 33,3 | 34,6 | 34,3 | 35,7 |
| 450 | kg | 19,8 | 21,2 | 22,6 | 24,0 | 25,3 | 26,7 | 28,1 | 29,5 | 30,9 | 32,3 | 33,6 | 35,0 | 34,8 | 36,2 | 37,6 |
| 500 | kg | 20,8 | 22,3 | 23,7 | 25,2 | 26,6 | 28,1 | 29,5 | 31,0 | 32,4 | 33,9 | 35,3 | 35,2 | 36,6 | 38,1 | 39,5 |
| 550 | kg | 21,8 | 23,3 | 24,9 | 26,4 | 27,9 | 29,4 | 30,9 | 32,4 | 33,9 | 35,5 | 35,4 | 36,9 | 38,4 | 39,9 | 41,4 |
| 600 | kg | 22,8 | 24,4 | 26,0 | 27,6 | 29,1 | 30,7 | 32,3 | 33,9 | 35,5 | 35,4 | 37,0 | 38,6 | 40,2 | 41,8 | 43,3 |
| 650 | kg | 23,8 | 25,5 | 27,1 | 28,8 | 30,4 | 32,1 | 33,7 | 35,3 | 35,4 | 37,0 | 38,7 | 40,3 | 42,0 | 43,6 | 45,3 |
| 700 | kg | 24,8 | 26,5 | 28,3 | 30,0 | 31,7 | 33,4 | 35,1 | 35,2 | 36,9 | 38,6 | 40,3 | 42,0 | 43,8 | 45,5 | 47,2 |
| 750 | kg | 25,8 | 27,6 | 29,4 | 31,2 | 32,9 | 34,7 | 34,9 | 36,7 | 38,4 | 40,2 | 42,0 | 43,8 | 45,5 | 47,3 | 49,1 |
| 800 | kg | 26,8 | 28,7 | 30,5 | 32,4 | 34,2 | 34,5 | 36,3 | 38,1 | 40,0 | 41,8 | 43,7 | 45,5 | 47,3 | 49,2 | 51,0 |
| 850 | kg | 27,9 | 29,8 | 31,7 | 33,6 | 33,9 | 35,8 | 37,7 | 39,6 | 41,5 | 43,4 | 45,3 | 47,2 | 49,1 | 51,0 | 52,9 |
| 900 | kg | 28,9 | 30,8 | 32,8 | 33,2 | 35,1 | 37,1 | 39,1 | 41,1 | 43,0 | 45,0 | 47,0 | 48,9 | 50,9 | 52,9 | 54,9 |
| 950 | kg | 29,9 | 31,9 | 32,3 | 34,4 | 36,4 | 38,4 | 40,5 | 42,5 | 44,6 | 46,6 | 48,6 | 50,7 | 52,7 | 54,7 | 56,8 |
| 1000 | kg | 30,9 | 31,4 | 33,5 | 35,6 | 37,7 | 39,8 | 41,9 | 44,0 | 46,1 | 48,2 | 50,3 | 52,4 | 54,5 | 56,6 | 58,7 |

| Hn\Wn (mm) | | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | | |
|------------|----|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| 200 | kg | 30,6 | 31,7 | 31,2 | 32,2 | 33,3 | 34,3 | 35,4 | 36,4 | 37,5 | 38,6 | 39,6 | 40,7 | | | |
| 250 | kg | 32,6 | 32,2 | 33,3 | 34,4 | 35,5 | 36,6 | 37,8 | 38,9 | 40,0 | 41,1 | 42,3 | 43,4 | | | |
| 300 | kg | 33,0 | 34,2 | 35,4 | 36,6 | 37,8 | 39,0 | 40,1 | 41,3 | 42,5 | 43,7 | 44,9 | 46,1 | | | |
| 350 | kg | 35,0 | 36,3 | 37,5 | 38,8 | 40,0 | 41,3 | 42,5 | 43,8 | 45,0 | 46,3 | 47,5 | 48,8 | | | |
| 400 | kg | 37,0 | 38,3 | 39,6 | 40,9 | 42,3 | 43,6 | 44,9 | 46,2 | 47,5 | 48,8 | 50,2 | 51,5 | | | |
| 450 | kg | 39,0 | 40,4 | 41,7 | 43,1 | 44,5 | 45,9 | 47,3 | 48,7 | 50,0 | 51,4 | 52,8 | 54,2 | | | |
| 500 | kg | 41,0 | 42,4 | 43,8 | 45,3 | 46,7 | 48,2 | 49,6 | 51,1 | 52,5 | 54,0 | 55,4 | 56,9 | | | |
| 550 | kg | 42,9 | 44,4 | 46,0 | 47,5 | 49,0 | 50,5 | 52,0 | 53,5 | 55,0 | 56,6 | 58,1 | 59,6 | | | |
| 600 | kg | 44,9 | 46,5 | 48,1 | 49,7 | 51,2 | 52,8 | 54,4 | 56,0 | 57,6 | 59,1 | 60,7 | 62,3 | | | |
| 650 | kg | 46,9 | 48,5 | 50,2 | 51,8 | 53,5 | 55,1 | 56,8 | 58,4 | 60,1 | 61,7 | 63,3 | 65,0 | | | |
| 700 | kg | 48,9 | 50,6 | 52,3 | 54,0 | 55,7 | 57,4 | 59,1 | 60,9 | 62,6 | 64,3 | 66,0 | 67,7 | | | |
| 750 | kg | 50,9 | 52,6 | 54,4 | 56,2 | 58,0 | 59,7 | 61,5 | 63,3 | 65,1 | 66,8 | 68,6 | 70,4 | | | |
| 800 | kg | 52,9 | 54,7 | 56,5 | 58,4 | 60,2 | 62,1 | 63,9 | 65,7 | 67,6 | 69,4 | 71,3 | 73,1 | | | |
| 850 | kg | 54,8 | 56,7 | 58,6 | 60,6 | 62,5 | 64,4 | 66,3 | 68,2 | 70,1 | 72,0 | 73,9 | 75,8 | | | |
| 900 | kg | 56,8 | 58,8 | 60,8 | 62,7 | 64,7 | 66,7 | 68,6 | 70,6 | 72,6 | 74,6 | 76,5 | 78,5 | | | |
| 950 | kg | 58,8 | 60,8 | 62,9 | 64,9 | 67,0 | 69,0 | 71,0 | 73,1 | 75,1 | 77,1 | 79,2 | 81,2 | | | |
| 1000 | kg | 60,8 | 62,9 | 65,0 | 67,1 | 69,2 | 71,3 | 73,4 | 75,5 | 77,6 | 79,7 | 81,8 | 83,9 | | | |

CU2 ATEX + EMEXT

| Hn\Wn (mm) | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 |
|------------|----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 200 | kg | 14,9 | 15,9 | 17,0 | 18,1 | 19,1 | 20,2 | 21,2 | 22,3 | 23,3 | 24,4 | 25,5 | 26,5 | 27,6 | 28,6 | 29,7 |
| 250 | kg | 15,9 | 17,0 | 18,1 | 19,3 | 20,4 | 21,5 | 22,6 | 23,8 | 24,9 | 26,0 | 27,1 | 28,2 | 29,4 | 30,5 | 31,6 |
| 300 | kg | 16,9 | 18,1 | 19,3 | 20,5 | 21,6 | 22,8 | 24,0 | 25,2 | 26,4 | 27,6 | 28,8 | 30,0 | 31,2 | 32,3 | 33,5 |
| 350 | kg | 17,9 | 19,2 | 20,4 | 21,7 | 22,9 | 24,2 | 25,4 | 26,7 | 27,9 | 29,2 | 30,4 | 31,7 | 32,9 | 34,2 | 33,8 |
| 400 | kg | 18,9 | 20,2 | 21,5 | 22,9 | 24,2 | 25,5 | 26,8 | 28,1 | 29,5 | 30,8 | 32,1 | 33,4 | 34,7 | 34,4 | 35,8 |
| 450 | kg | 19,9 | 21,3 | 22,7 | 24,1 | 25,4 | 26,8 | 28,2 | 29,6 | 31,0 | 32,4 | 33,7 | 35,1 | 34,9 | 36,3 | 37,7 |
| 500 | kg | 20,9 | 22,4 | 23,8 | 25,3 | 26,7 | 28,2 | 29,6 | 31,1 | 32,5 | 34,0 | 35,4 | 35,3 | 36,7 | 38,2 | 39,6 |
| 550 | kg | 21,9 | 23,4 | 25,0 | 26,5 | 28,0 | 29,5 | 31,0 | 32,5 | 34,0 | 35,6 | 35,5 | 37,0 | 38,5 | 40,0 | 41,5 |
| 600 | kg | 22,9 | 24,5 | 26,1 | 27,7 | 29,2 | 30,8 | 32,4 | 34,0 | 35,6 | 35,5 | 37,1 | 38,7 | 40,3 | 41,9 | 43,4 |
| 650 | kg | 23,9 | 25,6 | 27,2 | 28,9 | 30,5 | 32,2 | 33,8 | 35,4 | 35,5 | 37,1 | 38,8 | 40,4 | 42,1 | 43,7 | 45,4 |
| 700 | kg | 24,9 | 26,6 | 28,4 | 30,1 | 31,8 | 33,5 | 35,2 | 35,3 | 37,0 | 38,7 | 40,4 | 42,1 | 43,9 | 45,6 | 47,3 |
| 750 | kg | 25,9 | 27,7 | 29,5 | 31,3 | 33,0 | 34,8 | 35,0 | 36,8 | 38,5 | 40,3 | 42,1 | 43,9 | 45,6 | 47,4 | 49,2 |
| 800 | kg | 26,9 | 28,8 | 30,6 | 32,5 | 34,3 | 34,6 | 36,4 | 38,2 | 40,1 | 41,9 | 43,8 | 45,6 | 47,4 | 49,3 | 51,1 |
| 850 | kg | 28,0 | 29,9 | 31,8 | 33,7 | 34,0 | 35,9 | 37,8 | 39,7 | 41,6 | 43,5 | 45,4 | 47,3 | 49,2 | 51,1 | 53,0 |
| 900 | kg | 29,0 | 30,9 | 32,9 | 33,3 | 35,2 | 37,2 | 39,2 | 41,2 | 43,1 | 45,1 | 47,1 | 49,0 | 51,0 | 53,0 | 55,0 |
| 950 | kg | 30,0 | 32,0 | 32,4 | 34,5 | 36,5 | 38,5 | 40,6 | 42,6 | 44,7 | 46,7 | 48,7 | 50,8 | 52,8 | 54,8 | 56,9 |
| 1000 | kg | 31,0 | 31,5 | 33,6 | 35,7 | 37,8 | 39,9 | 42,0 | 44,1 | 46,2 | 48,3 | 50,4 | 52,5 | 54,6 | 56,7 | 58,8 |

| Hn\Wn (mm) | | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | | |
|------------|----|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| 200 | kg | 30,7 | 31,8 | 31,3 | 32,3 | 33,4 | 34,4 | 35,5 | 36,5 | 37,6 | 38,7 | 39,7 | 40,8 | | | |
| 250 | kg | 32,7 | 32,3 | 33,4 | 34,5 | 35,6 | 36,7 | 37,9 | 39,0 | 40,1 | 41,2 | 42,4 | 43,5 | | | |
| 300 | kg | 33,1 | 34,3 | 35,5 | 36,7 | 37,9 | 39,1 | 40,2 | 41,4 | 42,6 | 43,8 | 45,0 | 46,2 | | | |
| 350 | kg | 35,1 | 36,4 | 37,6 | 38,9 | 40,1 | 41,4 | 42,6 | 43,9 | 45,1 | 46,4 | 47,6 | 48,9 | | | |
| 400 | kg | 37,1 | 38,4 | 39,7 | 41,0 | 42,4 | 43,7 | 45,0 | 46,3 | 47,6 | 48,9 | 50,3 | 51,6 | | | |
| 450 | kg | 39,1 | 40,5 | 41,8 | 43,2 | 44,6 | 46,0 | 47,4 | 48,8 | 50,1 | 51,5 | 52,9 | 54,3 | | | |
| 500 | kg | 41,1 | 42,5 | 43,9 | 45,4 | 46,8 | 48,3 | 49,7 | 51,2 | 52,6 | 54,1 | 55,5 | 57,0 | | | |
| 550 | kg | 43,0 | 44,5 | 46,1 | 47,6 | 49,1 | 50,6 | 52,1 | 53,6 | 55,1 | 56,7 | 58,2 | 59,7 | | | |
| 600 | kg | 45,0 | 46,6 | 48,2 | 49,8 | 51,3 | 52,9 | 54,5 | 56,1 | 57,7 | 59,2 | 60,8 | 62,4 | | | |
| 650 | kg | 47,0 | 48,6 | 50,3 | 51,9 | 53,6 | 55,2 | 56,9 | 58,5 | 60,2 | 61,8 | 63,4 | 65,1 | | | |
| 700 | kg | 49,0 | 50,7 | 52,4 | 54,1 | 55,8 | 57,5 | 59,2 | 61,0 | 62,7 | 64,4 | 66,1 | 67,8 | | | |
| 750 | kg | 51,0 | 52,7 | 54,5 | 56,3 | 58,1 | 59,8 | 61,6 | 63,4 | 65,2 | 66,9 | 68,7 | 70,5 | | | |
| 800 | kg | 53,0 | 54,8 | 56,6 | 58,5 | 60,3 | 62,2 | 64,0 | 65,8 | 67,7 | 69,5 | 71,4 | 73,2 | | | |
| 850 | kg | 54,9 | 56,8 | 58,7 | 60,7 | 62,6 | 64,5 | 66,4 | 68,3 | 70,2 | 72,1 | 74,0 | 75,9 | | | |
| 900 | kg | 56,9 | 58,9 | 60,9 | 62,8 | 64,8 | 66,8 | 68,7 | 70,7 | 72,7 | 74,7 | 76,6 | 78,6 | | | |
| 950 | kg | 58,9 | 60,9 | 63,0 | 65,0 | 67,1 | 69,1 | 71,1 | 73,2 | 75,2 | 77,2 | 79,3 | 81,3 | | | |
| 1000 | kg | 60,9 | 63,0 | 65,1 | 67,2 | 69,3 | 71,4 | 73,5 | 75,6 | 77,7 | 79,8 | 81,9 | 84,0 | | | |

Selection data

$$\Delta p \text{ [Pa]} = \zeta^* v^2 * 0,6$$

| Hn\Wn [mm] | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 |
|-------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 200 | ζ [-] | 3,42 | 2,92 | 2,64 | 2,46 | 2,34 | 2,25 | 2,18 | 2,12 | 2,07 | 2,04 | 2,01 | 1,98 | 1,96 | 1,94 | 1,92 |
| 250 | ζ [-] | 1,91 | 1,58 | 1,39 | 1,27 | 1,19 | 1,13 | 1,08 | 1,05 | 1,02 | 0,99 | 0,97 | 0,96 | 0,94 | 0,93 | 0,92 |
| 300 | ζ [-] | 1,31 | 1,05 | 0,91 | 0,82 | 0,75 | 0,71 | 0,67 | 0,65 | 0,62 | 0,61 | 0,59 | 0,58 | 0,57 | 0,56 | 0,55 |
| 350 | ζ [-] | 1,01 | 0,79 | 0,66 | 0,59 | 0,54 | 0,5 | 0,47 | 0,45 | 0,43 | 0,42 | 0,41 | 0,4 | 0,39 | 0,38 | 0,37 |
| 400 | ζ [-] | 0,82 | 0,63 | 0,52 | 0,46 | 0,41 | 0,38 | 0,36 | 0,34 | 0,32 | 0,31 | 0,3 | 0,29 | 0,29 | 0,28 | 0,27 |
| 450 | ζ [-] | 0,7 | 0,53 | 0,43 | 0,37 | 0,33 | 0,31 | 0,28 | 0,27 | 0,26 | 0,24 | 0,24 | 0,23 | 0,22 | 0,22 | 0,21 |
| 500 | ζ [-] | 0,62 | 0,46 | 0,37 | 0,32 | 0,28 | 0,25 | 0,24 | 0,22 | 0,21 | 0,2 | 0,19 | 0,18 | 0,18 | 0,17 | 0,17 |
| 550 | ζ [-] | 0,56 | 0,41 | 0,32 | 0,27 | 0,24 | 0,22 | 0,2 | 0,19 | 0,18 | 0,17 | 0,16 | 0,15 | 0,15 | 0,14 | 0,14 |
| 600 | ζ [-] | 0,51 | 0,37 | 0,29 | 0,24 | 0,21 | 0,19 | 0,17 | 0,16 | 0,15 | 0,14 | 0,14 | 0,13 | 0,13 | 0,12 | 0,12 |
| 650 | ζ [-] | 0,47 | 0,34 | 0,26 | 0,22 | 0,19 | 0,17 | 0,15 | 0,14 | 0,13 | 0,13 | 0,12 | 0,11 | 0,11 | 0,11 | 0,1 |
| 700 | ζ [-] | 0,44 | 0,31 | 0,24 | 0,2 | 0,17 | 0,15 | 0,14 | 0,13 | 0,12 | 0,11 | 0,11 | 0,1 | 0,1 | 0,09 | 0,09 |
| 750 | ζ [-] | 0,42 | 0,29 | 0,23 | 0,18 | 0,16 | 0,14 | 0,13 | 0,12 | 0,11 | 0,1 | 0,1 | 0,09 | 0,09 | 0,08 | 0,08 |
| 800 | ζ [-] | 0,4 | 0,28 | 0,21 | 0,17 | 0,15 | 0,13 | 0,12 | 0,11 | 0,1 | 0,09 | 0,09 | 0,08 | 0,08 | 0,08 | 0,07 |
| 850 | ζ [-] | 0,38 | 0,26 | 0,2 | 0,16 | 0,14 | 0,12 | 0,11 | 0,1 | 0,09 | 0,08 | 0,08 | 0,08 | 0,07 | 0,07 | 0,07 |
| 900 | ζ [-] | 0,37 | 0,25 | 0,19 | 0,15 | 0,13 | 0,11 | 0,1 | 0,09 | 0,08 | 0,08 | 0,07 | 0,07 | 0,07 | 0,06 | 0,06 |
| 950 | ζ [-] | 0,36 | 0,24 | 0,18 | 0,14 | 0,12 | 0,11 | 0,09 | 0,08 | 0,08 | 0,07 | 0,07 | 0,06 | 0,06 | 0,06 | 0,06 |
| 1000 | ζ [-] | 0,34 | 0,23 | 0,17 | 0,14 | 0,12 | 0,1 | 0,09 | 0,08 | 0,07 | 0,07 | 0,06 | 0,06 | 0,06 | 0,05 | 0,05 |

| Hn\Wn [mm] | | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | | |
|-------------|-------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| 200 | ζ [-] | 1,9 | 1,89 | 1,88 | 1,86 | 1,85 | 1,84 | 1,84 | 1,83 | 1,82 | 1,81 | 1,81 | 1,8 | | | |
| 250 | ζ [-] | 0,91 | 0,9 | 0,89 | 0,88 | 0,88 | 0,87 | 0,87 | 0,86 | 0,86 | 0,85 | 0,85 | 0,85 | | | |
| 300 | ζ [-] | 0,54 | 0,54 | 0,53 | 0,53 | 0,52 | 0,52 | 0,51 | 0,51 | 0,51 | 0,5 | 0,5 | 0,5 | | | |
| 350 | ζ [-] | 0,37 | 0,36 | 0,36 | 0,35 | 0,35 | 0,35 | 0,34 | 0,34 | 0,34 | 0,33 | 0,33 | 0,33 | | | |
| 400 | ζ [-] | 0,27 | 0,26 | 0,26 | 0,26 | 0,25 | 0,25 | 0,25 | 0,25 | 0,24 | 0,24 | 0,24 | 0,24 | | | |
| 450 | ζ [-] | 0,21 | 0,2 | 0,2 | 0,2 | 0,19 | 0,19 | 0,19 | 0,19 | 0,19 | 0,18 | 0,18 | 0,18 | | | |
| 500 | ζ [-] | 0,17 | 0,16 | 0,16 | 0,16 | 0,15 | 0,15 | 0,15 | 0,15 | 0,15 | 0,15 | 0,14 | 0,14 | | | |
| 550 | ζ [-] | 0,14 | 0,13 | 0,13 | 0,13 | 0,13 | 0,13 | 0,12 | 0,12 | 0,12 | 0,12 | 0,12 | 0,12 | | | |
| 600 | ζ [-] | 0,12 | 0,11 | 0,11 | 0,11 | 0,11 | 0,11 | 0,1 | 0,1 | 0,1 | 0,1 | 0,1 | 0,1 | | | |
| 650 | ζ [-] | 0,1 | 0,1 | 0,1 | 0,09 | 0,09 | 0,09 | 0,09 | 0,09 | 0,09 | 0,08 | 0,08 | 0,08 | | | |
| 700 | ζ [-] | 0,09 | 0,09 | 0,08 | 0,08 | 0,08 | 0,08 | 0,08 | 0,08 | 0,07 | 0,07 | 0,07 | 0,07 | | | |
| 750 | ζ [-] | 0,08 | 0,08 | 0,07 | 0,07 | 0,07 | 0,07 | 0,07 | 0,07 | 0,07 | 0,06 | 0,06 | 0,06 | | | |
| 800 | ζ [-] | 0,07 | 0,07 | 0,07 | 0,06 | 0,06 | 0,06 | 0,06 | 0,06 | 0,06 | 0,06 | 0,06 | 0,06 | | | |
| 850 | ζ [-] | 0,06 | 0,06 | 0,06 | 0,06 | 0,06 | 0,06 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | | | |
| 900 | ζ [-] | 0,06 | 0,06 | 0,06 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | | | |
| 950 | ζ [-] | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,05 | 0,04 | 0,04 | 0,04 | 0,04 | 0,04 | | | |
| 1000 | ζ [-] | 0,05 | 0,05 | 0,05 | 0,04 | 0,04 | 0,04 | 0,04 | 0,04 | 0,04 | 0,04 | 0,04 | 0,04 | | | |

Example

Data

Hn = 550 mm, Bn = 500 mm, v = 9 m/s

Calculation

$$\Delta p = 0.2 * (9 \text{ m/s})^2 * 0.6 = 9.72 \text{ Pa}$$

CU2 - CU2L - CU2-L500 - CU2 ATEX - CU2L ATEX - A-weighted sound power level L_{wa} in the duct

| Hn\Wn [mm] | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | | |
|------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 200 | Sn [m ²] | 0,0195 | 0,0255 | 0,0314 | 0,0374 | 0,0433 | 0,0493 | 0,0552 | 0,0612 | 0,0671 | 0,0731 | 0,0790 | 0,0850 | 0,0909 | 0,0969 | |
| | Sn [%] | 51,85 | 53,80 | 55,08 | 55,99 | 56,67 | 57,20 | 57,62 | 57,96 | 58,24 | 58,48 | 58,69 | 58,87 | 59,02 | 59,16 | |
| | Q [m ³ /h] | 940 | 1.170 | 1.390 | 1.610 | 1.830 | 2.060 | 2.280 | 2.500 | 2.730 | 2.950 | 3.170 | 3.400 | 3.620 | 3.840 | 45 dB |
| | Δp [Pa] | 87,32 | 74,13 | 65,70 | 60,35 | 56,65 | 54,48 | 52,35 | 50,68 | 49,70 | 48,55 | 47,60 | 47,06 | 46,34 | 45,71 | |
| | Q [m ³ /h] | 790 | 970 | 1.160 | 1.340 | 1.530 | 1.710 | 1.900 | 2.080 | 2.270 | 2.450 | 2.640 | 2.830 | 3.010 | 3.200 | 40 dB |
| | Δp [Pa] | 61,67 | 50,95 | 45,76 | 41,80 | 39,60 | 37,54 | 36,36 | 35,08 | 34,36 | 33,49 | 33,01 | 32,60 | 32,04 | 31,74 | |
| | Q [m ³ /h] | 650 | 810 | 960 | 1.120 | 1.270 | 1.430 | 1.580 | 1.730 | 1.890 | 2.040 | 2.200 | 2.350 | 2.510 | 2.660 | 35 dB |
| | Δp [Pa] | 41,75 | 35,53 | 31,34 | 29,20 | 27,29 | 26,25 | 25,14 | 24,27 | 23,82 | 23,22 | 22,92 | 22,48 | 22,28 | 21,93 | |
| | Q [m ³ /h] | 540 | 670 | 800 | 930 | 1.060 | 1.190 | 1.310 | 1.440 | 1.570 | 1.700 | 1.830 | 1.960 | 2.090 | 2.210 | 30 dB |
| | Δp [Pa] | 28,82 | 24,31 | 21,76 | 20,14 | 19,01 | 18,18 | 17,28 | 16,82 | 16,44 | 16,12 | 15,86 | 15,64 | 15,45 | 15,14 | |
| | Q [m ³ /h] | 450 | 560 | 670 | 770 | 880 | 990 | 1.090 | 1.200 | 1.310 | 1.420 | 1.520 | 1.630 | 1.740 | 1.840 | 25 dB |
| | Δp [Pa] | 20,01 | 16,98 | 15,27 | 13,80 | 13,10 | 12,58 | 11,97 | 11,68 | 11,44 | 11,25 | 10,94 | 10,82 | 10,71 | 10,50 | |
| 250 | Sn [m ²] | 0,0277 | 0,0362 | 0,0446 | 0,0531 | 0,0615 | 0,0700 | 0,0784 | 0,0869 | 0,0953 | 0,1038 | 0,1122 | 0,1207 | 0,1291 | 0,1376 | |
| | Sn [%] | 58,55 | 60,75 | 62,19 | 63,22 | 63,99 | 64,58 | 65,06 | 65,44 | 65,76 | 66,04 | 66,27 | 66,47 | 66,65 | 66,80 | |
| | Q [m ³ /h] | 1.130 | 1.400 | 1.660 | 1.920 | 2.190 | 2.450 | 2.710 | 2.980 | 3.240 | 3.510 | 3.770 | 4.030 | 4.300 | 4.560 | 45 dB |
| | Δp [Pa] | 45,15 | 36,64 | 31,54 | 28,35 | 26,41 | 24,80 | 23,58 | 22,78 | 22,00 | 21,48 | 20,93 | 20,47 | 20,17 | 19,82 | |
| | Q [m ³ /h] | 940 | 1.160 | 1.380 | 1.600 | 1.820 | 2.040 | 2.260 | 2.480 | 2.700 | 2.920 | 3.140 | 3.360 | 3.570 | 3.790 | 40 dB |
| | Δp [Pa] | 31,24 | 25,15 | 21,80 | 19,69 | 18,24 | 17,19 | 16,40 | 15,78 | 15,28 | 14,86 | 14,52 | 14,23 | 13,90 | 13,69 | |
| | Q [m ³ /h] | 790 | 970 | 1.150 | 1.330 | 1.510 | 1.700 | 1.880 | 2.060 | 2.240 | 2.430 | 2.610 | 2.790 | 2.970 | 3.160 | 35 dB |
| | Δp [Pa] | 22,07 | 17,59 | 15,14 | 13,60 | 12,56 | 11,94 | 11,35 | 10,88 | 10,51 | 10,29 | 10,03 | 9,81 | 9,62 | 9,52 | |
| | Q [m ³ /h] | 650 | 810 | 960 | 1.110 | 1.260 | 1.410 | 1.560 | 1.720 | 1.870 | 2.020 | 2.170 | 2.320 | 2.480 | 2.630 | 30 dB |
| | Δp [Pa] | 14,94 | 12,26 | 10,55 | 9,47 | 8,74 | 8,21 | 7,81 | 7,59 | 7,33 | 7,11 | 6,94 | 6,78 | 6,71 | 6,59 | |
| | Q [m ³ /h] | 540 | 670 | 800 | 920 | 1.050 | 1.180 | 1.300 | 1.430 | 1.550 | 1.680 | 1.810 | 1.930 | 2.060 | 2.190 | 25 dB |
| | Δp [Pa] | 10,31 | 8,39 | 7,32 | 6,51 | 6,07 | 5,75 | 5,43 | 5,25 | 5,03 | 4,92 | 4,83 | 4,70 | 4,63 | 4,57 | |
| 300 | Sn [m ²] | 0,0359 | 0,0469 | 0,0578 | 0,0688 | 0,0797 | 0,0907 | 0,1016 | 0,1126 | 0,1235 | 0,1345 | 0,1454 | 0,1564 | 0,1673 | 0,1783 | |
| | Sn [%] | 62,97 | 65,33 | 66,89 | 67,99 | 68,82 | 69,46 | 69,97 | 70,38 | 70,73 | 71,02 | 71,27 | 71,49 | 71,68 | 71,84 | |
| | Q [m ³ /h] | 1.320 | 1.630 | 1.930 | 2.230 | 2.540 | 2.840 | 3.150 | 3.450 | 3.750 | 4.060 | 4.360 | 4.660 | 4.970 | 5.270 | 45 dB |
| | Δp [Pa] | 29,41 | 23,00 | 19,32 | 17,04 | 15,63 | 14,50 | 13,75 | 13,08 | 12,55 | 12,17 | 11,80 | 11,49 | 11,27 | 11,04 | |
| | Q [m ³ /h] | 1.100 | 1.350 | 1.610 | 1.860 | 2.110 | 2.370 | 2.620 | 2.870 | 3.120 | 3.380 | 3.630 | 3.880 | 4.130 | 4.390 | 40 dB |
| | Δp [Pa] | 20,42 | 15,78 | 13,44 | 11,85 | 10,78 | 10,10 | 9,51 | 9,05 | 8,69 | 8,44 | 8,18 | 7,97 | 7,79 | 7,66 | |
| | Q [m ³ /h] | 920 | 1.130 | 1.340 | 1.550 | 1.760 | 1.970 | 2.180 | 2.390 | 2.600 | 2.810 | 3.020 | 3.230 | 3.440 | 3.650 | 35 dB |
| | Δp [Pa] | 14,29 | 11,05 | 9,31 | 8,23 | 7,50 | 6,98 | 6,58 | 6,28 | 6,03 | 5,83 | 5,66 | 5,52 | 5,40 | 5,30 | |
| | Q [m ³ /h] | 760 | 940 | 1.110 | 1.290 | 1.460 | 1.640 | 1.810 | 1.990 | 2.160 | 2.340 | 2.510 | 2.690 | 2.860 | 3.040 | 30 dB |
| | Δp [Pa] | 9,75 | 7,65 | 6,39 | 5,70 | 5,16 | 4,84 | 4,54 | 4,35 | 4,16 | 4,04 | 3,91 | 3,83 | 3,73 | 3,67 | |
| | Q [m ³ /h] | 640 | 780 | 930 | 1.070 | 1.220 | 1.360 | 1.510 | 1.650 | 1.800 | 1.950 | 2.090 | 2.240 | 2.380 | 2.530 | 25 dB |
| | Δp [Pa] | 6,91 | 5,27 | 4,48 | 3,92 | 3,61 | 3,33 | 3,16 | 2,99 | 2,89 | 2,81 | 2,71 | 2,66 | 2,59 | 2,54 | |

| Hn\Wn [mm] | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | | |
|------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|
| 350 | Sn [m ²] | 0,0441 | 0,0576 | 0,0710 | 0,0845 | 0,0979 | 0,1114 | 0,1248 | 0,1383 | 0,1517 | 0,1652 | 0,1786 | 0,1921 | 0,2055 | 0,2190 | |
| | Sn [%] | 66,11 | 68,58 | 70,22 | 71,38 | 72,24 | 72,91 | 73,45 | 73,89 | 74,25 | 74,55 | 74,82 | 75,04 | 75,24 | 75,42 | |
| | Q [m ³ /h] | 1.510 | 1.860 | 2.200 | 2.550 | 2.890 | 3.230 | 3.580 | 3.920 | 4.260 | 4.600 | 4.950 | 5.290 | 5.630 | 5.980 | 45 |
| | Δp [Pa] | 21,67 | 16,44 | 13,51 | 11,82 | 10,61 | 9,74 | 9,15 | 8,64 | 8,24 | 7,91 | 7,67 | 7,44 | 7,24 | 7,10 | dB |
| | Q [m ³ /h] | 1.260 | 1.550 | 1.830 | 2.120 | 2.400 | 2.690 | 2.980 | 3.260 | 3.550 | 3.830 | 4.120 | 4.400 | 4.690 | 4.970 | 40 |
| | Δp [Pa] | 15,09 | 11,41 | 9,35 | 8,17 | 7,32 | 6,76 | 6,34 | 5,98 | 5,72 | 5,49 | 5,32 | 5,15 | 5,03 | 4,90 | dB |
| | Q [m ³ /h] | 1.050 | 1.290 | 1.530 | 1.760 | 2.000 | 2.240 | 2.480 | 2.710 | 2.950 | 3.190 | 3.430 | 3.660 | 3.900 | 4.140 | 35 |
| | Δp [Pa] | 10,48 | 7,91 | 6,54 | 5,63 | 5,08 | 4,69 | 4,39 | 4,13 | 3,95 | 3,81 | 3,68 | 3,56 | 3,48 | 3,40 | dB |
| | Q [m ³ /h] | 870 | 1.070 | 1.270 | 1.470 | 1.670 | 1.860 | 2.060 | 2.260 | 2.460 | 2.650 | 2.850 | 3.050 | 3.250 | 3.440 | 30 |
| | Δp [Pa] | 7,19 | 5,44 | 4,50 | 3,93 | 3,54 | 3,23 | 3,03 | 2,87 | 2,75 | 2,63 | 2,54 | 2,47 | 2,41 | 2,35 | dB |
| | Q [m ³ /h] | 730 | 890 | 1.060 | 1.220 | 1.390 | 1.550 | 1.710 | 1.880 | 2.040 | 2.210 | 2.370 | 2.540 | 2.700 | 2.860 | 25 |
| | Δp [Pa] | 5,06 | 3,76 | 3,14 | 2,71 | 2,45 | 2,24 | 2,09 | 1,99 | 1,89 | 1,83 | 1,76 | 1,72 | 1,67 | 1,62 | dB |
| 400 | Sn [m ²] | 0,0523 | 0,0683 | 0,0842 | 0,1002 | 0,1161 | 0,1321 | 0,1480 | 0,1640 | 0,1799 | 0,1959 | 0,2118 | 0,2278 | 0,2437 | 0,2597 | |
| | Sn [%] | 68,44 | 71,01 | 72,70 | 73,90 | 74,80 | 75,49 | 76,05 | 76,50 | 76,88 | 77,19 | 77,46 | 77,70 | 77,91 | 78,09 | |
| | Q [m ³ /h] | 1.700 | 2.090 | 2.470 | 2.850 | 3.240 | 3.620 | 4.000 | 4.380 | 4.770 | 5.150 | 5.530 | 5.910 | 6.290 | 6.670 | 45 |
| | Δp [Pa] | 17,21 | 12,72 | 10,27 | 8,79 | 7,85 | 7,14 | 6,62 | 6,21 | 5,92 | 5,66 | 5,44 | 5,26 | 5,10 | 4,97 | dB |
| | Q [m ³ /h] | 1.420 | 1.740 | 2.060 | 2.380 | 2.690 | 3.010 | 3.330 | 3.650 | 3.970 | 4.280 | 4.600 | 4.920 | 5.240 | 5.550 | 40 |
| | Δp [Pa] | 12,01 | 8,82 | 7,14 | 6,13 | 5,41 | 4,94 | 4,59 | 4,32 | 4,10 | 3,91 | 3,76 | 3,64 | 3,54 | 3,44 | dB |
| | Q [m ³ /h] | 1.180 | 1.450 | 1.710 | 1.980 | 2.240 | 2.510 | 2.770 | 3.040 | 3.300 | 3.560 | 3.830 | 4.090 | 4.360 | 4.620 | 35 |
| | Δp [Pa] | 8,29 | 6,12 | 4,92 | 4,24 | 3,75 | 3,43 | 3,17 | 2,99 | 2,83 | 2,70 | 2,61 | 2,52 | 2,45 | 2,38 | dB |
| | Q [m ³ /h] | 980 | 1.200 | 1.430 | 1.650 | 1.870 | 2.090 | 2.310 | 2.530 | 2.750 | 2.970 | 3.190 | 3.400 | 3.620 | 3.840 | 30 |
| | Δp [Pa] | 5,72 | 4,19 | 3,44 | 2,94 | 2,61 | 2,38 | 2,21 | 2,07 | 1,97 | 1,88 | 1,81 | 1,74 | 1,69 | 1,65 | dB |
| | Q [m ³ /h] | 820 | 1.000 | 1.190 | 1.370 | 1.550 | 1.740 | 1.920 | 2.100 | 2.280 | 2.470 | 2.650 | 2.830 | 3.020 | 3.200 | 25 |
| | Δp [Pa] | 4,00 | 2,91 | 2,38 | 2,03 | 1,80 | 1,65 | 1,52 | 1,43 | 1,35 | 1,30 | 1,25 | 1,21 | 1,18 | 1,14 | dB |
| 450 | Sn [m ²] | 0,0605 | 0,0790 | 0,0974 | 0,1159 | 0,1343 | 0,1528 | 0,1712 | 0,1897 | 0,2081 | 0,2266 | 0,2450 | 0,2635 | 0,2819 | 0,3004 | |
| | Sn [%] | 70,26 | 72,89 | 74,63 | 75,86 | 76,78 | 77,49 | 78,06 | 78,52 | 78,91 | 79,24 | 79,52 | 79,76 | 79,97 | 80,15 | |
| | Q [m ³ /h] | 1.900 | 2.320 | 2.740 | 3.160 | 3.580 | 4.010 | 4.430 | 4.850 | 5.270 | 5.690 | 6.110 | 6.530 | 6.950 | 7.360 | 45 |
| | Δp [Pa] | 14,52 | 10,39 | 8,25 | 6,97 | 6,13 | 5,56 | 5,11 | 4,77 | 4,50 | 4,28 | 4,10 | 3,95 | 3,83 | 3,71 | dB |
| | Q [m ³ /h] | 1.580 | 1.930 | 2.280 | 2.630 | 2.980 | 3.330 | 3.680 | 4.030 | 4.380 | 4.730 | 5.080 | 5.430 | 5.780 | 6.130 | 40 |
| | Δp [Pa] | 10,04 | 7,19 | 5,71 | 4,83 | 4,24 | 3,83 | 3,53 | 3,29 | 3,11 | 2,96 | 2,84 | 2,73 | 2,65 | 2,57 | dB |
| | Q [m ³ /h] | 1.310 | 1.610 | 1.900 | 2.190 | 2.480 | 2.770 | 3.060 | 3.350 | 3.650 | 3.940 | 4.230 | 4.520 | 4.810 | 5.100 | 35 |
| | Δp [Pa] | 6,90 | 5,00 | 3,97 | 3,35 | 2,94 | 2,65 | 2,44 | 2,28 | 2,16 | 2,05 | 1,97 | 1,89 | 1,83 | 1,78 | dB |
| | Q [m ³ /h] | 1.090 | 1.340 | 1.580 | 1.820 | 2.070 | 2.310 | 2.550 | 2.790 | 3.030 | 3.280 | 3.520 | 3.760 | 4.000 | 4.240 | 30 |
| | Δp [Pa] | 4,78 | 3,46 | 2,74 | 2,31 | 2,05 | 1,84 | 1,69 | 1,58 | 1,49 | 1,42 | 1,36 | 1,31 | 1,27 | 1,23 | dB |
| | Q [m ³ /h] | 910 | 1.110 | 1.320 | 1.520 | 1.720 | 1.920 | 2.120 | 2.320 | 2.520 | 2.730 | 2.930 | 3.130 | 3.330 | 3.530 | 25 |
| | Δp [Pa] | 3,33 | 2,38 | 1,91 | 1,61 | 1,41 | 1,27 | 1,17 | 1,09 | 1,03 | 0,99 | 0,94 | 0,91 | 0,88 | 0,85 | dB |

| Hn\Wn [mm] | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | | |
|------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| 500 | Sn [m ²] | 0,0687 | 0,0897 | 0,1106 | 0,1316 | 0,1525 | 0,1735 | 0,1944 | 0,2154 | 0,2363 | 0,2573 | 0,2782 | 0,2992 | 0,3201 | 0,3411 | |
| | Sn [%] | 71,70 | 74,39 | 76,16 | 77,42 | 78,36 | 79,09 | 79,67 | 80,14 | 80,53 | 80,87 | 81,15 | 81,40 | 81,61 | 81,80 | |
| | Q [m ³ /h] | 2.090 | 2.550 | 3.010 | 3.470 | 3.930 | 4.390 | 4.850 | 5.310 | 5.760 | 6.220 | 6.680 | 7.140 | 7.590 | 8.050 | 45 |
| | Δp [Pa] | 12,54 | 8,81 | 6,90 | 5,76 | 5,02 | 4,49 | 4,11 | 3,81 | 3,57 | 3,38 | 3,23 | 3,10 | 2,99 | 2,89 | dB |
| | Q [m ³ /h] | 1.740 | 2.120 | 2.510 | 2.890 | 3.270 | 3.650 | 4.030 | 4.410 | 4.800 | 5.180 | 5.560 | 5.940 | 6.320 | 6.700 | 40 |
| | Δp [Pa] | 8,69 | 6,09 | 4,80 | 4,00 | 3,47 | 3,11 | 2,84 | 2,63 | 2,48 | 2,35 | 2,24 | 2,15 | 2,07 | 2,01 | dB |
| | Q [m ³ /h] | 1.450 | 1.770 | 2.080 | 2.400 | 2.720 | 3.040 | 3.360 | 3.670 | 3.990 | 4.310 | 4.620 | 4.940 | 5.260 | 5.570 | 35 |
| | Δp [Pa] | 6,04 | 4,24 | 3,29 | 2,76 | 2,40 | 2,15 | 1,97 | 1,82 | 1,71 | 1,63 | 1,55 | 1,49 | 1,43 | 1,39 | dB |
| | Q [m ³ /h] | 1.200 | 1.470 | 1.740 | 2.000 | 2.260 | 2.530 | 2.790 | 3.060 | 3.320 | 3.580 | 3.850 | 4.110 | 4.370 | 4.640 | 30 |
| | Δp [Pa] | 4,13 | 2,93 | 2,30 | 1,91 | 1,66 | 1,49 | 1,36 | 1,27 | 1,19 | 1,12 | 1,07 | 1,03 | 0,99 | 0,96 | dB |
| | Q [m ³ /h] | 1.000 | 1.220 | 1.440 | 1.660 | 1.880 | 2.100 | 2.320 | 2.540 | 2.760 | 2.980 | 3.200 | 3.420 | 3.640 | 3.860 | 25 |
| | Δp [Pa] | 2,87 | 2,02 | 1,58 | 1,32 | 1,15 | 1,03 | 0,94 | 0,87 | 0,82 | 0,78 | 0,74 | 0,71 | 0,69 | 0,67 | dB |
| 550 | Sn [m ²] | 0,0769 | 0,1004 | 0,1238 | 0,1473 | 0,1707 | 0,1942 | 0,2176 | 0,2411 | 0,2645 | 0,2880 | 0,3114 | 0,3349 | 0,3583 | 0,3818 | |
| | Sn [%] | 72,88 | 75,61 | 77,42 | 78,69 | 79,65 | 80,39 | 80,98 | 81,46 | 81,86 | 82,20 | 82,49 | 82,74 | 82,96 | 83,15 | |
| | Q [m ³ /h] | 2.280 | 2.780 | 3.280 | 3.780 | 4.270 | 4.770 | 5.270 | 5.760 | 6.260 | 6.750 | 7.250 | 7.740 | 8.240 | 8.730 | 45 |
| | Δp [Pa] | 11,11 | 7,68 | 5,94 | 4,91 | 4,22 | 3,75 | 3,41 | 3,14 | 2,94 | 2,77 | 2,64 | 2,52 | 2,42 | 2,34 | dB |
| | Q [m ³ /h] | 1.900 | 2.310 | 2.730 | 3.140 | 3.560 | 3.970 | 4.380 | 4.790 | 5.210 | 5.620 | 6.030 | 6.440 | 6.850 | 7.260 | 40 |
| | Δp [Pa] | 7,71 | 5,30 | 4,11 | 3,39 | 2,93 | 2,60 | 2,36 | 2,17 | 2,04 | 1,92 | 1,82 | 1,74 | 1,67 | 1,62 | dB |
| | Q [m ³ /h] | 1.580 | 1.920 | 2.270 | 2.620 | 2.960 | 3.300 | 3.650 | 3.990 | 4.330 | 4.670 | 5.020 | 5.360 | 5.700 | 6.040 | 35 |
| | Δp [Pa] | 5,33 | 3,66 | 2,84 | 2,36 | 2,03 | 1,80 | 1,64 | 1,51 | 1,41 | 1,33 | 1,26 | 1,21 | 1,16 | 1,12 | dB |
| | Q [m ³ /h] | 1.310 | 1.600 | 1.890 | 2.180 | 2.460 | 2.750 | 3.030 | 3.320 | 3.600 | 3.890 | 4.170 | 4.460 | 4.740 | 5.030 | 30 |
| | Δp [Pa] | 3,67 | 2,54 | 1,97 | 1,63 | 1,40 | 1,25 | 1,13 | 1,04 | 0,97 | 0,92 | 0,87 | 0,84 | 0,80 | 0,78 | dB |
| | Q [m ³ /h] | 1.090 | 1.330 | 1.570 | 1.810 | 2.050 | 2.290 | 2.520 | 2.760 | 3.000 | 3.240 | 3.470 | 3.710 | 3.950 | 4.180 | 25 |
| | Δp [Pa] | 2,54 | 1,76 | 1,36 | 1,13 | 0,97 | 0,87 | 0,78 | 0,72 | 0,68 | 0,64 | 0,60 | 0,58 | 0,56 | 0,54 | dB |
| 600 | Sn [m ²] | 0,0851 | 0,1111 | 0,1370 | 0,1630 | 0,1889 | 0,2149 | 0,2408 | 0,2668 | 0,2927 | 0,3187 | 0,3446 | 0,3706 | 0,3965 | 0,4225 | |
| | Sn [%] | 73,86 | 76,63 | 78,46 | 79,75 | 80,72 | 81,47 | 82,07 | 82,56 | 82,96 | 83,30 | 83,60 | 83,85 | 84,07 | 84,27 | |
| | Q [m ³ /h] | 2.470 | 3.010 | 3.550 | 4.080 | 4.620 | 5.150 | 5.680 | 6.220 | 6.750 | 7.280 | 7.810 | 8.340 | 8.870 | 9.410 | 45 |
| | Δp [Pa] | 10,03 | 6,84 | 5,23 | 4,26 | 3,65 | 3,22 | 2,90 | 2,67 | 2,48 | 2,33 | 2,20 | 2,10 | 2,01 | 1,94 | dB |
| | Q [m ³ /h] | 2.050 | 2.500 | 2.950 | 3.400 | 3.840 | 4.290 | 4.730 | 5.170 | 5.620 | 6.060 | 6.500 | 6.940 | 7.380 | 7.830 | 40 |
| | Δp [Pa] | 6,91 | 4,72 | 3,61 | 2,96 | 2,52 | 2,23 | 2,01 | 1,84 | 1,72 | 1,61 | 1,53 | 1,45 | 1,39 | 1,34 | dB |
| | Q [m ³ /h] | 1.710 | 2.080 | 2.460 | 2.830 | 3.200 | 3.570 | 3.940 | 4.300 | 4.670 | 5.040 | 5.410 | 5.780 | 6.140 | 6.510 | 35 |
| | Δp [Pa] | 4,81 | 3,26 | 2,51 | 2,05 | 1,75 | 1,55 | 1,40 | 1,27 | 1,19 | 1,11 | 1,06 | 1,01 | 0,96 | 0,93 | dB |
| | Q [m ³ /h] | 1.420 | 1.730 | 2.040 | 2.350 | 2.660 | 2.970 | 3.270 | 3.580 | 3.890 | 4.190 | 4.500 | 4.810 | 5.110 | 5.420 | 30 |
| | Δp [Pa] | 3,32 | 2,26 | 1,73 | 1,41 | 1,21 | 1,07 | 0,96 | 0,88 | 0,82 | 0,77 | 0,73 | 0,70 | 0,67 | 0,64 | dB |
| | Q [m ³ /h] | 1.180 | 1.440 | 1.700 | 1.960 | 2.210 | 2.470 | 2.720 | 2.980 | 3.230 | 3.490 | 3.740 | 4.000 | 4.250 | 4.510 | 25 |
| | Δp [Pa] | 2,29 | 1,56 | 1,20 | 0,98 | 0,84 | 0,74 | 0,66 | 0,61 | 0,57 | 0,53 | 0,50 | 0,48 | 0,46 | 0,45 | dB |

| Hn\Wn [mm] | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | | |
|------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------|
| 650 | Sn [m ²] | 0,0933 | 0,1218 | 0,1502 | 0,1787 | 0,2071 | 0,2356 | 0,2640 | 0,2925 | 0,3209 | 0,3494 | 0,3778 | 0,4063 | 0,4347 | 0,4632 | |
| | Sn [%] | 74,69 | 77,49 | 79,34 | 80,65 | 81,63 | 82,38 | 82,99 | 83,48 | 83,89 | 84,24 | 84,53 | 84,79 | 85,02 | 85,21 | |
| | Q [m ³ /h] | 2.660 | 3.240 | 3.810 | 4.390 | 4.960 | 5.530 | 6.100 | 6.670 | 7.240 | 7.810 | 8.380 | 8.940 | 9.510 | 10.080 | 45 dB |
| | Δp [Pa] | 9,20 | 6,19 | 4,66 | 3,79 | 3,21 | 2,81 | 2,52 | 2,30 | 2,13 | 2,00 | 1,89 | 1,79 | 1,71 | 1,64 | |
| | Q [m ³ /h] | 2.210 | 2.690 | 3.170 | 3.650 | 4.130 | 4.600 | 5.080 | 5.550 | 6.020 | 6.500 | 6.970 | 7.440 | 7.910 | 8.380 | 40 dB |
| | Δp [Pa] | 6,35 | 4,27 | 3,23 | 2,62 | 2,23 | 1,95 | 1,75 | 1,60 | 1,48 | 1,38 | 1,30 | 1,24 | 1,18 | 1,14 | |
| | Q [m ³ /h] | 1.840 | 2.240 | 2.640 | 3.040 | 3.430 | 3.830 | 4.220 | 4.620 | 5.010 | 5.400 | 5.800 | 6.190 | 6.580 | 6.980 | 35 dB |
| | Δp [Pa] | 4,40 | 2,96 | 2,24 | 1,82 | 1,54 | 1,35 | 1,21 | 1,11 | 1,02 | 0,95 | 0,90 | 0,86 | 0,82 | 0,79 | |
| | Q [m ³ /h] | 1.530 | 1.870 | 2.200 | 2.530 | 2.860 | 3.190 | 3.510 | 3.840 | 4.170 | 4.500 | 4.820 | 5.150 | 5.480 | 5.800 | 30 dB |
| | Δp [Pa] | 3,04 | 2,06 | 1,55 | 1,26 | 1,07 | 0,94 | 0,84 | 0,76 | 0,71 | 0,66 | 0,62 | 0,59 | 0,57 | 0,54 | |
| | Q [m ³ /h] | 1.280 | 1.550 | 1.830 | 2.100 | 2.380 | 2.650 | 2.920 | 3.200 | 3.470 | 3.740 | 4.010 | 4.290 | 4.560 | 4.830 | 25 dB |
| | Δp [Pa] | 2,13 | 1,42 | 1,07 | 0,87 | 0,74 | 0,65 | 0,58 | 0,53 | 0,49 | 0,46 | 0,43 | 0,41 | 0,39 | 0,38 | |
| 700 | Sn [m ²] | 0,1015 | 0,1325 | 0,1634 | 0,1944 | 0,2253 | 0,2563 | 0,2872 | 0,3182 | 0,3491 | 0,3801 | 0,4110 | 0,4420 | 0,4729 | 0,5039 | |
| | Sn [%] | 75,40 | 78,23 | 80,09 | 81,41 | 82,40 | 83,17 | 83,78 | 84,27 | 84,69 | 85,04 | 85,34 | 85,60 | 85,82 | 86,02 | |
| | Q [m ³ /h] | 2.850 | 3.470 | 4.080 | 4.690 | 5.300 | 5.910 | 6.520 | 7.120 | 7.730 | 8.330 | 8.940 | 9.540 | 10.140 | 10.750 | 45 dB |
| | Δp [Pa] | 8,54 | 5,68 | 4,24 | 3,40 | 2,87 | 2,50 | 2,23 | 2,03 | 1,87 | 1,74 | 1,64 | 1,55 | 1,48 | 1,42 | |
| | Q [m ³ /h] | 2.370 | 2.880 | 3.400 | 3.900 | 4.410 | 4.920 | 5.420 | 5.930 | 6.430 | 6.930 | 7.430 | 7.940 | 8.440 | 8.940 | 40 dB |
| | Δp [Pa] | 5,90 | 3,91 | 2,94 | 2,35 | 1,99 | 1,73 | 1,54 | 1,41 | 1,29 | 1,20 | 1,13 | 1,07 | 1,02 | 0,98 | |
| | Q [m ³ /h] | 1.970 | 2.400 | 2.830 | 3.250 | 3.670 | 4.090 | 4.510 | 4.930 | 5.350 | 5.770 | 6.190 | 6.600 | 7.020 | 7.440 | 35 dB |
| | Δp [Pa] | 4,08 | 2,72 | 2,04 | 1,63 | 1,37 | 1,20 | 1,07 | 0,97 | 0,90 | 0,84 | 0,79 | 0,74 | 0,71 | 0,68 | |
| | Q [m ³ /h] | 1.640 | 2.000 | 2.350 | 2.700 | 3.050 | 3.400 | 3.750 | 4.100 | 4.450 | 4.800 | 5.150 | 5.490 | 5.840 | 6.190 | 30 dB |
| | Δp [Pa] | 2,83 | 1,89 | 1,41 | 1,13 | 0,95 | 0,83 | 0,74 | 0,67 | 0,62 | 0,58 | 0,54 | 0,51 | 0,49 | 0,47 | |
| | Q [m ³ /h] | 1.370 | 1.660 | 1.960 | 2.250 | 2.540 | 2.830 | 3.120 | 3.410 | 3.700 | 3.990 | 4.280 | 4.570 | 4.860 | 5.150 | 25 dB |
| | Δp [Pa] | 1,97 | 1,30 | 0,98 | 0,78 | 0,66 | 0,57 | 0,51 | 0,46 | 0,43 | 0,40 | 0,38 | 0,36 | 0,34 | 0,33 | |
| 750 | Sn [m ²] | 0,1097 | 0,1432 | 0,1766 | 0,2101 | 0,2435 | 0,2770 | 0,3104 | 0,3439 | 0,3773 | 0,4108 | 0,4442 | 0,4777 | 0,5111 | 0,5446 | |
| | Sn [%] | 76,01 | 78,86 | 80,74 | 82,08 | 83,07 | 83,84 | 84,46 | 84,96 | 85,38 | 85,73 | 86,03 | 86,29 | 86,52 | 86,72 | |
| | Q [m ³ /h] | 3.040 | 3.700 | 4.350 | 5.000 | 5.640 | 6.290 | 6.930 | 7.570 | 8.210 | 8.850 | 9.490 | 10.130 | 10.770 | 11.410 | 45 dB |
| | Δp [Pa] | 8,00 | 5,26 | 3,90 | 3,11 | 2,59 | 2,25 | 2,00 | 1,81 | 1,66 | 1,54 | 1,44 | 1,36 | 1,30 | 1,24 | |
| | Q [m ³ /h] | 2.530 | 3.080 | 3.620 | 4.160 | 4.700 | 5.230 | 5.770 | 6.300 | 6.830 | 7.370 | 7.900 | 8.430 | 8.960 | 9.490 | 40 dB |
| | Δp [Pa] | 5,54 | 3,65 | 2,70 | 2,15 | 1,80 | 1,56 | 1,38 | 1,25 | 1,15 | 1,07 | 1,00 | 0,94 | 0,90 | 0,86 | |
| | Q [m ³ /h] | 2.100 | 2.560 | 3.010 | 3.460 | 3.910 | 4.350 | 4.800 | 5.240 | 5.690 | 6.130 | 6.570 | 7.010 | 7.460 | 7.900 | 35 dB |
| | Δp [Pa] | 3,82 | 2,52 | 1,86 | 1,49 | 1,25 | 1,08 | 0,96 | 0,87 | 0,80 | 0,74 | 0,69 | 0,65 | 0,62 | 0,59 | |
| | Q [m ³ /h] | 1.750 | 2.130 | 2.500 | 2.880 | 3.250 | 3.620 | 3.990 | 4.360 | 4.730 | 5.100 | 5.470 | 5.840 | 6.200 | 6.570 | 30 dB |
| | Δp [Pa] | 2,65 | 1,74 | 1,29 | 1,03 | 0,86 | 0,75 | 0,66 | 0,60 | 0,55 | 0,51 | 0,48 | 0,45 | 0,43 | 0,41 | |
| | Q [m ³ /h] | 1.460 | 1.770 | 2.080 | 2.400 | 2.700 | 3.010 | 3.320 | 3.630 | 3.940 | 4.240 | 4.550 | 4.860 | 5.160 | 5.470 | 25 dB |
| | Δp [Pa] | 1,84 | 1,20 | 0,89 | 0,72 | 0,59 | 0,52 | 0,46 | 0,42 | 0,38 | 0,35 | 0,33 | 0,31 | 0,30 | 0,29 | |

| Hn\Wn [mm] | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | | |
|------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| 800 | Sn [m ²] | 0,1179 | 0,1539 | 0,1898 | 0,2258 | 0,2617 | 0,2977 | 0,3336 | 0,3696 | 0,4055 | 0,4415 | 0,4774 | 0,5134 | 0,5493 | 0,5853 | |
| | Sn [%] | 76,55 | 79,42 | 81,31 | 82,66 | 83,66 | 84,44 | 85,05 | 85,56 | 85,98 | 86,34 | 86,64 | 86,90 | 87,13 | 87,34 | |
| | Q [m ³ /h] | 3.230 | 3.920 | 4.610 | 5.300 | 5.980 | 6.660 | 7.340 | 8.020 | 8.700 | 9.380 | 10.050 | 10.730 | 11.400 | 12.070 | 45 |
| | Δp [Pa] | 7,55 | 4,90 | 3,60 | 2,86 | 2,37 | 2,04 | 1,81 | 1,63 | 1,49 | 1,38 | 1,29 | 1,22 | 1,15 | 1,10 | dB |
| | Q [m ³ /h] | 2.690 | 3.270 | 3.840 | 4.410 | 4.980 | 5.540 | 6.110 | 6.670 | 7.240 | 7.800 | 8.360 | 8.920 | 9.480 | 10.040 | 40 |
| | Δp [Pa] | 5,23 | 3,41 | 2,50 | 1,98 | 1,65 | 1,41 | 1,25 | 1,13 | 1,03 | 0,96 | 0,89 | 0,84 | 0,80 | 0,76 | dB |
| | Q [m ³ /h] | 2.240 | 2.720 | 3.190 | 3.670 | 4.140 | 4.610 | 5.080 | 5.550 | 6.020 | 6.490 | 6.960 | 7.420 | 7.890 | 8.360 | 35 |
| | Δp [Pa] | 3,63 | 2,36 | 1,72 | 1,37 | 1,14 | 0,98 | 0,87 | 0,78 | 0,71 | 0,66 | 0,62 | 0,58 | 0,55 | 0,53 | dB |
| | Q [m ³ /h] | 1.860 | 2.260 | 2.660 | 3.050 | 3.450 | 3.840 | 4.230 | 4.620 | 5.010 | 5.400 | 5.790 | 6.180 | 6.560 | 6.950 | 30 |
| | Δp [Pa] | 2,50 | 1,63 | 1,20 | 0,95 | 0,79 | 0,68 | 0,60 | 0,54 | 0,49 | 0,46 | 0,43 | 0,40 | 0,38 | 0,36 | dB |
| | Q [m ³ /h] | 1.550 | 1.880 | 2.210 | 2.540 | 2.870 | 3.190 | 3.520 | 3.840 | 4.170 | 4.490 | 4.820 | 5.140 | 5.460 | 5.780 | 25 |
| | Δp [Pa] | 1,74 | 1,13 | 0,83 | 0,66 | 0,55 | 0,47 | 0,42 | 0,37 | 0,34 | 0,32 | 0,30 | 0,28 | 0,26 | 0,25 | dB |
| 850 | Sn [m ²] | 0,1261 | 0,1646 | 0,2030 | 0,2415 | 0,2799 | 0,3184 | 0,3568 | 0,3953 | 0,4337 | 0,4722 | 0,5106 | 0,5491 | 0,5875 | 0,6260 | |
| | Sn [%] | 77,02 | 79,91 | 81,82 | 83,17 | 84,18 | 84,96 | 85,58 | 86,09 | 86,51 | 86,87 | 87,18 | 87,44 | 87,67 | 87,88 | |
| | Q [m ³ /h] | 3.420 | 4.150 | 4.880 | 5.600 | 6.320 | 7.040 | 7.760 | 8.470 | 9.180 | 9.890 | 10.600 | 11.310 | 12.020 | 12.730 | 45 |
| | Δp [Pa] | 7,17 | 4,62 | 3,37 | 2,65 | 2,19 | 1,88 | 1,66 | 1,48 | 1,35 | 1,25 | 1,16 | 1,09 | 1,03 | 0,98 | dB |
| | Q [m ³ /h] | 2.850 | 3.460 | 4.060 | 4.660 | 5.260 | 5.860 | 6.450 | 7.050 | 7.640 | 8.230 | 8.820 | 9.410 | 10.000 | 10.590 | 40 |
| | Δp [Pa] | 4,98 | 3,21 | 2,33 | 1,83 | 1,52 | 1,30 | 1,14 | 1,03 | 0,94 | 0,86 | 0,81 | 0,76 | 0,72 | 0,68 | dB |
| | Q [m ³ /h] | 2.370 | 2.880 | 3.380 | 3.880 | 4.380 | 4.870 | 5.370 | 5.860 | 6.360 | 6.850 | 7.340 | 7.830 | 8.320 | 8.810 | 35 |
| | Δp [Pa] | 3,44 | 2,22 | 1,62 | 1,27 | 1,05 | 0,90 | 0,79 | 0,71 | 0,65 | 0,60 | 0,56 | 0,52 | 0,50 | 0,47 | dB |
| | Q [m ³ /h] | 1.970 | 2.390 | 2.810 | 3.230 | 3.640 | 4.060 | 4.470 | 4.880 | 5.290 | 5.700 | 6.110 | 6.520 | 6.920 | 7.330 | 30 |
| | Δp [Pa] | 2,38 | 1,53 | 1,12 | 0,88 | 0,73 | 0,62 | 0,55 | 0,49 | 0,45 | 0,41 | 0,39 | 0,36 | 0,34 | 0,33 | dB |
| | Q [m ³ /h] | 1.640 | 1.990 | 2.340 | 2.690 | 3.030 | 3.370 | 3.720 | 4.060 | 4.400 | 4.740 | 5.080 | 5.420 | 5.760 | 6.100 | 25 |
| | Δp [Pa] | 1,65 | 1,06 | 0,77 | 0,61 | 0,50 | 0,43 | 0,38 | 0,34 | 0,31 | 0,29 | 0,27 | 0,25 | 0,24 | 0,23 | dB |
| 900 | Sn [m ²] | 0,1343 | 0,1753 | 0,2162 | 0,2572 | 0,2981 | 0,3391 | 0,3800 | 0,4210 | 0,4619 | 0,5029 | 0,5438 | 0,5848 | 0,6257 | 0,6667 | |
| | Sn [%] | 77,44 | 80,35 | 82,26 | 83,62 | 84,64 | 85,42 | 86,05 | 86,56 | 86,98 | 87,34 | 87,65 | 87,92 | 88,15 | 88,35 | |
| | Q [m ³ /h] | 3.610 | 4.380 | 5.150 | 5.910 | 6.660 | 7.420 | 8.170 | 8.920 | 9.670 | 10.410 | 11.160 | 11.900 | 12.650 | 13.390 | 45 |
| | Δp [Pa] | 6,85 | 4,38 | 3,17 | 2,48 | 2,04 | 1,74 | 1,53 | 1,36 | 1,24 | 1,14 | 1,06 | 0,99 | 0,94 | 0,89 | dB |
| | Q [m ³ /h] | 3.000 | 3.650 | 4.280 | 4.910 | 5.540 | 6.170 | 6.800 | 7.420 | 8.040 | 8.660 | 9.280 | 9.900 | 10.520 | 11.140 | 40 |
| | Δp [Pa] | 4,73 | 3,04 | 2,19 | 1,71 | 1,41 | 1,20 | 1,06 | 0,94 | 0,86 | 0,79 | 0,73 | 0,69 | 0,65 | 0,62 | dB |
| | Q [m ³ /h] | 2.500 | 3.030 | 3.560 | 4.090 | 4.610 | 5.130 | 5.650 | 6.170 | 6.690 | 7.210 | 7.720 | 8.240 | 8.750 | 9.270 | 35 |
| | Δp [Pa] | 3,29 | 2,09 | 1,52 | 1,19 | 0,98 | 0,83 | 0,73 | 0,65 | 0,59 | 0,55 | 0,51 | 0,48 | 0,45 | 0,43 | dB |
| | Q [m ³ /h] | 2.080 | 2.520 | 2.960 | 3.400 | 3.840 | 4.270 | 4.700 | 5.140 | 5.570 | 6.000 | 6.430 | 6.850 | 7.280 | 7.710 | 30 |
| | Δp [Pa] | 2,27 | 1,45 | 1,05 | 0,82 | 0,68 | 0,58 | 0,50 | 0,45 | 0,41 | 0,38 | 0,35 | 0,33 | 0,31 | 0,30 | dB |
| | Q [m ³ /h] | 1.730 | 2.100 | 2.470 | 2.830 | 3.190 | 3.550 | 3.910 | 4.270 | 4.630 | 4.990 | 5.350 | 5.700 | 6.060 | 6.420 | 25 |
| | Δp [Pa] | 1,57 | 1,01 | 0,73 | 0,57 | 0,47 | 0,40 | 0,35 | 0,31 | 0,28 | 0,26 | 0,24 | 0,23 | 0,22 | 0,20 | dB |

| Hn\Wn [mm] | | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | |
|------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|
| 950 | Sn [m ²] | 0,1425 | 0,1860 | 0,2294 | 0,2729 | 0,3163 | 0,3598 | 0,4032 | 0,4467 | 0,4901 | 0,5336 | 0,5770 | 0,6205 | 0,6639 | 0,7074 | |
| | Sn [%] | 77,82 | 80,74 | 82,66 | 84,03 | 85,05 | 85,84 | 86,46 | 86,98 | 87,41 | 87,77 | 88,08 | 88,34 | 88,58 | 88,78 | |
| | Q [m ³ /h] | 3.800 | 4.610 | 5.410 | 6.210 | 7.000 | 7.790 | 8.580 | 9.360 | 10.150 | 10.930 | 11.710 | 12.490 | 13.270 | 14.050 | 45 |
| | Δp [Pa] | 6,58 | 4,17 | 3,00 | 2,33 | 1,91 | 1,62 | 1,42 | 1,26 | 1,14 | 1,05 | 0,97 | 0,91 | 0,86 | 0,81 | dB |
| | Q [m ³ /h] | 3.160 | 3.840 | 4.500 | 5.170 | 5.830 | 6.480 | 7.140 | 7.790 | 8.440 | 9.090 | 9.740 | 10.390 | 11.040 | 11.690 | 40 |
| | Δp [Pa] | 4,55 | 2,89 | 2,07 | 1,62 | 1,32 | 1,12 | 0,98 | 0,87 | 0,79 | 0,73 | 0,67 | 0,63 | 0,59 | 0,56 | dB |
| | Q [m ³ /h] | 2.630 | 3.190 | 3.750 | 4.300 | 4.850 | 5.390 | 5.940 | 6.480 | 7.020 | 7.560 | 8.100 | 8.640 | 9.180 | 9.720 | 35 |
| | Δp [Pa] | 3,15 | 2,00 | 1,44 | 1,12 | 0,92 | 0,78 | 0,68 | 0,60 | 0,55 | 0,50 | 0,47 | 0,43 | 0,41 | 0,39 | dB |
| | Q [m ³ /h] | 2.190 | 2.660 | 3.120 | 3.580 | 4.030 | 4.490 | 4.940 | 5.390 | 5.840 | 6.290 | 6.740 | 7.190 | 7.640 | 8.090 | 30 |
| | Δp [Pa] | 2,18 | 1,39 | 1,00 | 0,78 | 0,63 | 0,54 | 0,47 | 0,42 | 0,38 | 0,35 | 0,32 | 0,30 | 0,28 | 0,27 | dB |
| | Q [m ³ /h] | 1.820 | 2.210 | 2.590 | 2.980 | 3.360 | 3.730 | 4.110 | 4.490 | 4.860 | 5.240 | 5.610 | 5.980 | 6.360 | 6.730 | 25 |
| | Δp [Pa] | 1,51 | 0,96 | 0,69 | 0,54 | 0,44 | 0,37 | 0,32 | 0,29 | 0,26 | 0,24 | 0,22 | 0,21 | 0,20 | 0,19 | dB |
| 1000 | Sn [m ²] | 0,1507 | 0,1967 | 0,2426 | 0,2886 | 0,3345 | 0,3805 | 0,4264 | 0,4724 | 0,5183 | 0,5643 | 0,6102 | 0,6562 | 0,7021 | 0,7481 | |
| | Sn [%] | 78,16 | 81,09 | 83,02 | 84,39 | 85,42 | 86,21 | 86,84 | 87,36 | 87,79 | 88,15 | 88,46 | 88,73 | 88,96 | 89,17 | |
| | Q [m ³ /h] | 3.990 | 4.840 | 5.680 | 6.510 | 7.340 | 8.170 | 8.990 | 9.810 | 10.630 | 11.440 | 12.260 | 13.070 | 13.890 | 14.700 | 45 |
| | Δp [Pa] | 6,34 | 3,99 | 2,85 | 2,20 | 1,80 | 1,52 | 1,32 | 1,17 | 1,06 | 0,97 | 0,90 | 0,84 | 0,79 | 0,74 | dB |
| | Q [m ³ /h] | 3.320 | 4.030 | 4.720 | 5.420 | 6.110 | 6.790 | 7.480 | 8.160 | 8.840 | 9.520 | 10.200 | 10.880 | 11.550 | 12.230 | 40 |
| | Δp [Pa] | 4,39 | 2,77 | 1,97 | 1,53 | 1,25 | 1,05 | 0,92 | 0,81 | 0,73 | 0,67 | 0,62 | 0,58 | 0,54 | 0,52 | dB |
| | Q [m ³ /h] | 2.760 | 3.350 | 3.930 | 4.510 | 5.080 | 5.650 | 6.220 | 6.790 | 7.360 | 7.920 | 8.490 | 9.050 | 9.610 | 10.170 | 35 |
| | Δp [Pa] | 3,03 | 1,91 | 1,37 | 1,06 | 0,86 | 0,73 | 0,63 | 0,56 | 0,51 | 0,46 | 0,43 | 0,40 | 0,38 | 0,36 | dB |
| | Q [m ³ /h] | 2.300 | 2.790 | 3.270 | 3.750 | 4.230 | 4.700 | 5.180 | 5.650 | 6.120 | 6.590 | 7.060 | 7.530 | 8.000 | 8.460 | 30 |
| | Δp [Pa] | 2,11 | 1,33 | 0,95 | 0,73 | 0,60 | 0,50 | 0,44 | 0,39 | 0,35 | 0,32 | 0,30 | 0,28 | 0,26 | 0,25 | dB |
| | Q [m ³ /h] | 1.910 | 2.320 | 2.720 | 3.120 | 3.520 | 3.910 | 4.310 | 4.700 | 5.090 | 5.480 | 5.870 | 6.260 | 6.650 | 7.040 | 25 |
| | Δp [Pa] | 1,45 | 0,92 | 0,65 | 0,51 | 0,41 | 0,35 | 0,30 | 0,27 | 0,24 | 0,22 | 0,21 | 0,19 | 0,18 | 0,17 | dB |

| Hn\Wn [mm] | | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | |
|------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|
| 200 | Sn [m ²] | 0,1028 | 0,1088 | 0,1147 | 0,1207 | 0,1266 | 0,1326 | 0,1385 | 0,1445 | 0,1504 | 0,1564 | 0,1623 | 0,1683 | 0,1742 | |
| | Sn [%] | 59,28 | 59,39 | 59,49 | 59,58 | 59,66 | 59,73 | 59,80 | 59,86 | 59,92 | 59,97 | 60,02 | 60,07 | 60,11 | |
| | Q [m ³ /h] | 4.070 | 4.290 | 4.510 | 4.730 | 4.960 | 5.180 | 5.400 | 5.630 | 5.850 | 6.070 | 6.300 | 6.520 | 6.740 | 45 |
| | Δp [Pa] | 45,38 | 44,89 | 44,44 | 44,04 | 43,86 | 43,53 | 43,23 | 43,10 | 42,84 | 42,60 | 42,52 | 42,31 | 42,11 | dB |
| | Q [m ³ /h] | 3.380 | 3.570 | 3.750 | 3.940 | 4.120 | 4.310 | 4.500 | 4.680 | 4.870 | 5.050 | 5.240 | 5.420 | 5.610 | 40 |
| | Δp [Pa] | 31,30 | 31,08 | 30,73 | 30,56 | 30,26 | 30,14 | 30,02 | 29,78 | 29,69 | 29,49 | 29,41 | 29,23 | 29,17 | dB |
| | Q [m ³ /h] | 2.810 | 2.970 | 3.120 | 3.280 | 3.430 | 3.590 | 3.740 | 3.900 | 4.050 | 4.200 | 4.360 | 4.510 | 4.670 | 35 |
| | Δp [Pa] | 21,63 | 21,51 | 21,27 | 21,18 | 20,98 | 20,91 | 20,73 | 20,68 | 20,53 | 20,40 | 20,36 | 20,24 | 20,22 | dB |
| | Q [m ³ /h] | 2.340 | 2.470 | 2.600 | 2.730 | 2.860 | 2.980 | 3.110 | 3.240 | 3.370 | 3.500 | 3.630 | 3.760 | 3.880 | 30 |
| | Δp [Pa] | 15,00 | 14,88 | 14,77 | 14,67 | 14,58 | 14,41 | 14,34 | 14,27 | 14,22 | 14,16 | 14,11 | 14,07 | 13,95 | dB |
| | Q [m ³ /h] | 1.950 | 2.060 | 2.160 | 2.270 | 2.380 | 2.480 | 2.590 | 2.700 | 2.800 | 2.910 | 3.020 | 3.120 | 3.230 | 25 |
| | Δp [Pa] | 10,42 | 10,35 | 10,19 | 10,14 | 10,10 | 9,98 | 9,94 | 9,91 | 9,81 | 9,79 | 9,77 | 9,69 | 9,67 | dB |

| Hn\Wn [mm] | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | |
|------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| 250 | Sn [m ²] | 0,1460 | 0,1545 | 0,1629 | 0,1714 | 0,1798 | 0,1883 | 0,1967 | 0,2052 | 0,2136 | 0,2221 | 0,2305 | 0,2390 | 0,2474 | |
| | Sn [%] | 66,94 | 67,06 | 67,17 | 67,27 | 67,36 | 67,45 | 67,52 | 67,59 | 67,66 | 67,72 | 67,77 | 67,82 | 67,87 | |
| | Q [m ³ /h] | 4.820 | 5.090 | 5.350 | 5.620 | 5.880 | 6.140 | 6.410 | 6.670 | 6.930 | 7.200 | 7.460 | 7.720 | 7.990 | 45 |
| | Δp [Pa] | 19,51 | 19,32 | 19,07 | 18,92 | 18,72 | 18,54 | 18,44 | 18,28 | 18,14 | 18,06 | 17,94 | 17,83 | 17,77 | dB |
| | Q [m ³ /h] | 4.010 | 4.230 | 4.450 | 4.670 | 4.890 | 5.110 | 5.330 | 5.550 | 5.770 | 5.990 | 6.210 | 6.430 | 6.650 | 40 |
| | Δp [Pa] | 13,51 | 13,34 | 13,20 | 13,07 | 12,95 | 12,84 | 12,75 | 12,66 | 12,58 | 12,50 | 12,43 | 12,37 | 12,31 | dB |
| | Q [m ³ /h] | 3.340 | 3.520 | 3.700 | 3.890 | 4.070 | 4.250 | 4.430 | 4.620 | 4.800 | 4.980 | 5.160 | 5.350 | 5.530 | 35 |
| | Δp [Pa] | 9,37 | 9,24 | 9,12 | 9,07 | 8,97 | 8,88 | 8,81 | 8,77 | 8,70 | 8,64 | 8,58 | 8,56 | 8,51 | dB |
| | Q [m ³ /h] | 2.780 | 2.930 | 3.080 | 3.230 | 3.390 | 3.540 | 3.690 | 3.840 | 3.990 | 4.150 | 4.300 | 4.450 | 4.600 | 30 |
| | Δp [Pa] | 6,49 | 6,40 | 6,32 | 6,25 | 6,22 | 6,16 | 6,11 | 6,06 | 6,01 | 6,00 | 5,96 | 5,93 | 5,89 | dB |
| | Q [m ³ /h] | 2.310 | 2.440 | 2.570 | 2.690 | 2.820 | 2.940 | 3.070 | 3.200 | 3.320 | 3.450 | 3.580 | 3.700 | 3.830 | 25 |
| | Δp [Pa] | 4,48 | 4,44 | 4,40 | 4,34 | 4,31 | 4,25 | 4,23 | 4,21 | 4,16 | 4,15 | 4,13 | 4,10 | 4,08 | dB |
| 300 | Sn [m ²] | 0,1892 | 0,2002 | 0,2111 | 0,2221 | 0,2330 | 0,2440 | 0,2549 | 0,2659 | 0,2768 | 0,2878 | 0,2987 | 0,3097 | 0,3206 | |
| | Sn [%] | 71,99 | 72,12 | 72,24 | 72,35 | 72,45 | 72,54 | 72,62 | 72,69 | 72,76 | 72,83 | 72,89 | 72,94 | 72,99 | |
| | Q [m ³ /h] | 5.580 | 5.880 | 6.180 | 6.490 | 6.790 | 7.090 | 7.400 | 7.700 | 8.010 | 8.310 | 8.610 | 8.920 | 9.220 | 45 |
| | Δp [Pa] | 10,88 | 10,70 | 10,54 | 10,42 | 10,29 | 10,18 | 10,10 | 10,00 | 9,93 | 9,85 | 9,77 | 9,72 | 9,65 | dB |
| | Q [m ³ /h] | 4.640 | 4.890 | 5.140 | 5.400 | 5.650 | 5.900 | 6.160 | 6.410 | 6.660 | 6.910 | 7.170 | 7.420 | 7.670 | 40 |
| | Δp [Pa] | 7,52 | 7,40 | 7,29 | 7,22 | 7,13 | 7,05 | 7,00 | 6,93 | 6,87 | 6,81 | 6,77 | 6,72 | 6,68 | dB |
| | Q [m ³ /h] | 3.860 | 4.070 | 4.280 | 4.490 | 4.700 | 4.910 | 5.120 | 5.330 | 5.540 | 5.750 | 5.960 | 6.170 | 6.380 | 35 |
| | Δp [Pa] | 5,21 | 5,12 | 5,05 | 4,99 | 4,93 | 4,88 | 4,83 | 4,79 | 4,75 | 4,71 | 4,68 | 4,65 | 4,62 | dB |
| | Q [m ³ /h] | 3.210 | 3.390 | 3.560 | 3.740 | 3.910 | 4.090 | 4.260 | 4.440 | 4.610 | 4.790 | 4.960 | 5.140 | 5.310 | 30 |
| | Δp [Pa] | 3,60 | 3,56 | 3,50 | 3,46 | 3,41 | 3,39 | 3,35 | 3,32 | 3,29 | 3,27 | 3,24 | 3,23 | 3,20 | dB |
| | Q [m ³ /h] | 2.670 | 2.820 | 2.960 | 3.110 | 3.250 | 3.400 | 3.550 | 3.690 | 3.840 | 3.980 | 4.130 | 4.270 | 4.420 | 25 |
| | Δp [Pa] | 2,49 | 2,46 | 2,42 | 2,39 | 2,36 | 2,34 | 2,32 | 2,30 | 2,28 | 2,26 | 2,25 | 2,23 | 2,22 | dB |
| 350 | Sn [m ²] | 0,2324 | 0,2459 | 0,2593 | 0,2728 | 0,2862 | 0,2997 | 0,3131 | 0,3266 | 0,3400 | 0,3535 | 0,3669 | 0,3804 | 0,3938 | |
| | Sn [%] | 75,57 | 75,71 | 75,84 | 75,95 | 76,05 | 76,15 | 76,23 | 76,31 | 76,38 | 76,45 | 76,51 | 76,57 | 76,63 | |
| | Q [m ³ /h] | 6.320 | 6.660 | 7.010 | 7.350 | 7.690 | 8.030 | 8.380 | 8.720 | 9.060 | 9.410 | 9.750 | 10.090 | 10.430 | 45 |
| | Δp [Pa] | 6,95 | 6,82 | 6,72 | 6,61 | 6,52 | 6,43 | 6,37 | 6,30 | 6,23 | 6,19 | 6,13 | 6,08 | 6,03 | dB |
| | Q [m ³ /h] | 5.260 | 5.540 | 5.830 | 6.110 | 6.400 | 6.680 | 6.970 | 7.250 | 7.540 | 7.830 | 8.110 | 8.400 | 8.680 | 40 |
| | Δp [Pa] | 4,81 | 4,72 | 4,65 | 4,57 | 4,51 | 4,45 | 4,41 | 4,35 | 4,32 | 4,28 | 4,24 | 4,21 | 4,18 | dB |
| | Q [m ³ /h] | 4.370 | 4.610 | 4.850 | 5.090 | 5.320 | 5.560 | 5.800 | 6.040 | 6.270 | 6.510 | 6.750 | 6.990 | 7.220 | 35 |
| | Δp [Pa] | 3,32 | 3,27 | 3,22 | 3,17 | 3,12 | 3,08 | 3,05 | 3,02 | 2,99 | 2,96 | 2,94 | 2,92 | 2,89 | dB |
| | Q [m ³ /h] | 3.640 | 3.840 | 4.040 | 4.230 | 4.430 | 4.630 | 4.820 | 5.020 | 5.220 | 5.420 | 5.610 | 5.810 | 6.010 | 30 |
| | Δp [Pa] | 2,30 | 2,27 | 2,23 | 2,19 | 2,16 | 2,14 | 2,11 | 2,09 | 2,07 | 2,05 | 2,03 | 2,02 | 2,00 | dB |
| | Q [m ³ /h] | 3.030 | 3.190 | 3.360 | 3.520 | 3.690 | 3.850 | 4.010 | 4.180 | 4.340 | 4.510 | 4.670 | 4.840 | 5.000 | 25 |
| | Δp [Pa] | 1,60 | 1,56 | 1,54 | 1,52 | 1,50 | 1,48 | 1,46 | 1,45 | 1,43 | 1,42 | 1,41 | 1,40 | 1,39 | dB |

| Hn\Wn [mm] | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | |
|------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 400 | Sn [m ²] | 0,2756 | 0,2916 | 0,3075 | 0,3235 | 0,3394 | 0,3554 | 0,3713 | 0,3873 | 0,4032 | 0,4192 | 0,4351 | 0,4511 | 0,4670 | |
| | Sn [%] | 78,25 | 78,39 | 78,52 | 78,64 | 78,74 | 78,84 | 78,93 | 79,01 | 79,09 | 79,16 | 79,22 | 79,28 | 79,34 | |
| | Q [m ³ /h] | 7.060 | 7.440 | 7.820 | 8.200 | 8.580 | 8.960 | 9.340 | 9.730 | 10.110 | 10.490 | 10.870 | 11.250 | 11.630 | 45 dB |
| | Δp [Pa] | 4,86 | 4,76 | 4,67 | 4,59 | 4,52 | 4,45 | 4,39 | 4,35 | 4,30 | 4,25 | 4,21 | 4,17 | 4,13 | |
| | Q [m ³ /h] | 5.870 | 6.190 | 6.500 | 6.820 | 7.140 | 7.460 | 7.770 | 8.090 | 8.410 | 8.730 | 9.040 | 9.360 | 9.680 | 40 dB |
| | Δp [Pa] | 3,36 | 3,30 | 3,23 | 3,17 | 3,13 | 3,08 | 3,04 | 3,00 | 2,97 | 2,94 | 2,91 | 2,89 | 2,86 | |
| | Q [m ³ /h] | 4.880 | 5.150 | 5.410 | 5.680 | 5.940 | 6.200 | 6.470 | 6.730 | 7.000 | 7.260 | 7.520 | 7.790 | 8.050 | 35 dB |
| | Δp [Pa] | 2,32 | 2,28 | 2,24 | 2,20 | 2,16 | 2,13 | 2,11 | 2,08 | 2,06 | 2,04 | 2,01 | 2,00 | 1,98 | |
| | Q [m ³ /h] | 4.060 | 4.280 | 4.500 | 4.720 | 4.940 | 5.160 | 5.380 | 5.600 | 5.820 | 6.040 | 6.260 | 6.480 | 6.700 | 30 dB |
| | Δp [Pa] | 1,61 | 1,58 | 1,55 | 1,52 | 1,50 | 1,48 | 1,46 | 1,44 | 1,42 | 1,41 | 1,40 | 1,38 | 1,37 | |
| | Q [m ³ /h] | 3.380 | 3.560 | 3.750 | 3.930 | 4.110 | 4.290 | 4.480 | 4.660 | 4.840 | 5.030 | 5.210 | 5.390 | 5.570 | 25 dB |
| | Δp [Pa] | 1,12 | 1,09 | 1,07 | 1,05 | 1,04 | 1,02 | 1,01 | 1,00 | 0,98 | 0,98 | 0,97 | 0,96 | 0,95 | |
| 450 | Sn [m ²] | 0,3188 | 0,3373 | 0,3557 | 0,3742 | 0,3926 | 0,4111 | 0,4295 | 0,4480 | 0,4664 | 0,4849 | 0,5033 | 0,5218 | 0,5402 | |
| | Sn [%] | 80,32 | 80,47 | 80,60 | 80,72 | 80,83 | 80,93 | 81,02 | 81,10 | 81,18 | 81,25 | 81,32 | 81,38 | 81,44 | |
| | Q [m ³ /h] | 7.780 | 8.200 | 8.620 | 9.040 | 9.460 | 9.880 | 10.300 | 10.720 | 11.140 | 11.560 | 11.980 | 12.400 | 12.820 | 45 dB |
| | Δp [Pa] | 3,61 | 3,53 | 3,45 | 3,39 | 3,33 | 3,28 | 3,23 | 3,18 | 3,14 | 3,11 | 3,07 | 3,04 | 3,01 | |
| | Q [m ³ /h] | 6.480 | 6.830 | 7.170 | 7.520 | 7.870 | 8.220 | 8.570 | 8.920 | 9.270 | 9.620 | 9.970 | 10.310 | 10.660 | 40 dB |
| | Δp [Pa] | 2,50 | 2,45 | 2,39 | 2,34 | 2,30 | 2,27 | 2,23 | 2,20 | 2,18 | 2,15 | 2,13 | 2,10 | 2,08 | |
| | Q [m ³ /h] | 5.390 | 5.680 | 5.970 | 6.260 | 6.550 | 6.840 | 7.130 | 7.420 | 7.710 | 8.000 | 8.290 | 8.580 | 8.870 | 35 dB |
| | Δp [Pa] | 1,73 | 1,69 | 1,66 | 1,62 | 1,60 | 1,57 | 1,55 | 1,53 | 1,51 | 1,49 | 1,47 | 1,46 | 1,44 | |
| | Q [m ³ /h] | 4.480 | 4.720 | 4.970 | 5.210 | 5.450 | 5.690 | 5.930 | 6.170 | 6.410 | 6.660 | 6.900 | 7.140 | 7.380 | 30 dB |
| | Δp [Pa] | 1,20 | 1,17 | 1,15 | 1,13 | 1,10 | 1,09 | 1,07 | 1,05 | 1,04 | 1,03 | 1,02 | 1,01 | 1,00 | |
| | Q [m ³ /h] | 3.730 | 3.930 | 4.130 | 4.330 | 4.530 | 4.730 | 4.940 | 5.140 | 5.340 | 5.540 | 5.740 | 5.940 | 6.140 | 25 dB |
| | Δp [Pa] | 0,83 | 0,81 | 0,79 | 0,78 | 0,76 | 0,75 | 0,74 | 0,73 | 0,72 | 0,71 | 0,71 | 0,70 | 0,69 | |
| 500 | Sn [m ²] | 0,3620 | 0,3830 | 0,4039 | 0,4249 | 0,4458 | 0,4668 | 0,4877 | 0,5087 | 0,5296 | 0,5506 | 0,5715 | 0,5925 | 0,6134 | |
| | Sn [%] | 81,97 | 82,12 | 82,26 | 82,38 | 82,49 | 82,59 | 82,69 | 82,77 | 82,85 | 82,92 | 82,99 | 83,06 | 83,11 | |
| | Q [m ³ /h] | 8.510 | 8.960 | 9.420 | 9.880 | 10.330 | 10.790 | 11.250 | 11.700 | 12.160 | 12.620 | 13.070 | 13.530 | 13.990 | 45 dB |
| | Δp [Pa] | 2,81 | 2,74 | 2,68 | 2,62 | 2,57 | 2,52 | 2,48 | 2,44 | 2,41 | 2,38 | 2,35 | 2,32 | 2,30 | |
| | Q [m ³ /h] | 7.080 | 7.460 | 7.840 | 8.220 | 8.600 | 8.980 | 9.360 | 9.740 | 10.120 | 10.500 | 10.880 | 11.260 | 11.640 | 40 dB |
| | Δp [Pa] | 1,95 | 1,90 | 1,85 | 1,81 | 1,78 | 1,75 | 1,72 | 1,69 | 1,67 | 1,65 | 1,63 | 1,61 | 1,59 | |
| | Q [m ³ /h] | 5.890 | 6.200 | 6.520 | 6.840 | 7.150 | 7.470 | 7.790 | 8.100 | 8.420 | 8.730 | 9.050 | 9.370 | 9.680 | 35 dB |
| | Δp [Pa] | 1,35 | 1,31 | 1,28 | 1,26 | 1,23 | 1,21 | 1,19 | 1,17 | 1,16 | 1,14 | 1,13 | 1,11 | 1,10 | |
| | Q [m ³ /h] | 4.900 | 5.160 | 5.430 | 5.690 | 5.950 | 6.210 | 6.480 | 6.740 | 7.000 | 7.270 | 7.530 | 7.790 | 8.050 | 30 dB |
| | Δp [Pa] | 0,93 | 0,91 | 0,89 | 0,87 | 0,85 | 0,84 | 0,82 | 0,81 | 0,80 | 0,79 | 0,78 | 0,77 | 0,76 | |
| | Q [m ³ /h] | 4.080 | 4.300 | 4.510 | 4.730 | 4.950 | 5.170 | 5.390 | 5.610 | 5.830 | 6.040 | 6.260 | 6.480 | 6.700 | 25 dB |
| | Δp [Pa] | 0,65 | 0,63 | 0,61 | 0,60 | 0,59 | 0,58 | 0,57 | 0,56 | 0,55 | 0,55 | 0,54 | 0,53 | 0,53 | |

| Hn\Wn [mm] | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | |
|------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| 550 | Sn [m ²] | 0,4052 | 0,4287 | 0,4521 | 0,4756 | 0,4990 | 0,5225 | 0,5459 | 0,5694 | 0,5928 | 0,6163 | 0,6397 | 0,6632 | 0,6866 | |
| | Sn [%] | 83,32 | 83,47 | 83,61 | 83,74 | 83,85 | 83,95 | 84,05 | 84,13 | 84,21 | 84,29 | 84,36 | 84,42 | 84,48 | |
| | Q [m ³ /h] | 9.220 | 9.720 | 10.210 | 10.710 | 11.200 | 11.690 | 12.190 | 12.680 | 13.170 | 13.670 | 14.160 | 14.650 | 15.150 | 45 |
| | Δp [Pa] | 2,26 | 2,20 | 2,15 | 2,10 | 2,05 | 2,01 | 1,98 | 1,94 | 1,91 | 1,89 | 1,86 | 1,84 | 1,82 | dB |
| | Q [m ³ /h] | 7.670 | 8.080 | 8.500 | 8.910 | 9.320 | 9.730 | 10.140 | 10.550 | 10.960 | 11.370 | 11.780 | 12.190 | 12.600 | 40 |
| | Δp [Pa] | 1,57 | 1,52 | 1,49 | 1,45 | 1,42 | 1,39 | 1,37 | 1,35 | 1,32 | 1,31 | 1,29 | 1,27 | 1,26 | dB |
| | Q [m ³ /h] | 6.380 | 6.730 | 7.070 | 7.410 | 7.750 | 8.090 | 8.430 | 8.780 | 9.120 | 9.460 | 9.800 | 10.140 | 10.480 | 35 |
| | Δp [Pa] | 1,08 | 1,06 | 1,03 | 1,00 | 0,98 | 0,96 | 0,95 | 0,93 | 0,92 | 0,90 | 0,89 | 0,88 | 0,87 | dB |
| | Q [m ³ /h] | 5.310 | 5.600 | 5.880 | 6.160 | 6.450 | 6.730 | 7.020 | 7.300 | 7.590 | 7.870 | 8.150 | 8.440 | 8.720 | 30 |
| | Δp [Pa] | 0,75 | 0,73 | 0,71 | 0,69 | 0,68 | 0,67 | 0,66 | 0,64 | 0,64 | 0,63 | 0,62 | 0,61 | 0,60 | dB |
| | Q [m ³ /h] | 4.420 | 4.660 | 4.890 | 5.130 | 5.370 | 5.600 | 5.840 | 6.070 | 6.310 | 6.550 | 6.780 | 7.020 | 7.260 | 25 |
| | Δp [Pa] | 0,52 | 0,51 | 0,49 | 0,48 | 0,47 | 0,46 | 0,45 | 0,45 | 0,44 | 0,43 | 0,43 | 0,42 | 0,42 | dB |
| 600 | Sn [m ²] | 0,4484 | 0,4744 | 0,5003 | 0,5263 | 0,5522 | 0,5782 | 0,6041 | 0,6301 | 0,6560 | 0,6820 | 0,7079 | 0,7339 | 0,7598 | |
| | Sn [%] | 84,44 | 84,60 | 84,74 | 84,86 | 84,98 | 85,08 | 85,18 | 85,27 | 85,35 | 85,42 | 85,49 | 85,56 | 85,62 | |
| | Q [m ³ /h] | 9.940 | 10.470 | 11.000 | 11.530 | 12.060 | 12.590 | 13.120 | 13.650 | 14.180 | 14.710 | 15.240 | 15.770 | 16.300 | 45 |
| | Δp [Pa] | 1,88 | 1,82 | 1,77 | 1,72 | 1,69 | 1,65 | 1,62 | 1,59 | 1,56 | 1,54 | 1,52 | 1,50 | 1,48 | dB |
| | Q [m ³ /h] | 8.270 | 8.710 | 9.150 | 9.590 | 10.030 | 10.470 | 10.910 | 11.350 | 11.790 | 12.230 | 12.680 | 13.120 | 13.560 | 40 |
| | Δp [Pa] | 1,30 | 1,26 | 1,22 | 1,19 | 1,17 | 1,14 | 1,12 | 1,10 | 1,08 | 1,06 | 1,05 | 1,04 | 1,02 | dB |
| | Q [m ³ /h] | 6.880 | 7.240 | 7.610 | 7.980 | 8.350 | 8.710 | 9.080 | 9.450 | 9.810 | 10.180 | 10.550 | 10.910 | 11.280 | 35 |
| | Δp [Pa] | 0,90 | 0,87 | 0,85 | 0,83 | 0,81 | 0,79 | 0,77 | 0,76 | 0,75 | 0,74 | 0,73 | 0,72 | 0,71 | dB |
| | Q [m ³ /h] | 5.720 | 6.030 | 6.330 | 6.640 | 6.940 | 7.250 | 7.550 | 7.860 | 8.160 | 8.470 | 8.770 | 9.080 | 9.380 | 30 |
| | Δp [Pa] | 0,62 | 0,60 | 0,59 | 0,57 | 0,56 | 0,55 | 0,54 | 0,53 | 0,52 | 0,51 | 0,50 | 0,50 | 0,49 | dB |
| | Q [m ³ /h] | 4.760 | 5.010 | 5.270 | 5.520 | 5.780 | 6.030 | 6.280 | 6.540 | 6.790 | 7.050 | 7.300 | 7.550 | 7.810 | 25 |
| | Δp [Pa] | 0,43 | 0,42 | 0,41 | 0,40 | 0,39 | 0,38 | 0,37 | 0,36 | 0,36 | 0,35 | 0,35 | 0,34 | 0,34 | dB |
| 650 | Sn [m ²] | 0,4916 | 0,5201 | 0,5485 | 0,5770 | 0,6054 | 0,6339 | 0,6623 | 0,6908 | 0,7192 | 0,7477 | 0,7761 | 0,8046 | 0,8330 | |
| | Sn [%] | 85,39 | 85,55 | 85,69 | 85,82 | 85,93 | 86,04 | 86,13 | 86,22 | 86,31 | 86,38 | 86,45 | 86,52 | 86,58 | |
| | Q [m ³ /h] | 10.640 | 11.210 | 11.780 | 12.340 | 12.910 | 13.480 | 14.040 | 14.610 | 15.170 | 15.740 | 16.300 | 16.870 | 17.440 | 45 |
| | Δp [Pa] | 1,58 | 1,53 | 1,49 | 1,45 | 1,41 | 1,38 | 1,35 | 1,33 | 1,30 | 1,28 | 1,26 | 1,24 | 1,23 | dB |
| | Q [m ³ /h] | 8.860 | 9.330 | 9.800 | 10.270 | 10.740 | 11.210 | 11.680 | 12.150 | 12.620 | 13.090 | 13.560 | 14.030 | 14.510 | 40 |
| | Δp [Pa] | 1,10 | 1,06 | 1,03 | 1,00 | 0,98 | 0,96 | 0,94 | 0,92 | 0,90 | 0,89 | 0,87 | 0,86 | 0,85 | dB |
| | Q [m ³ /h] | 7.370 | 7.760 | 8.150 | 8.540 | 8.940 | 9.330 | 9.720 | 10.110 | 10.500 | 10.890 | 11.280 | 11.680 | 12.070 | 35 |
| | Δp [Pa] | 0,76 | 0,73 | 0,71 | 0,69 | 0,68 | 0,66 | 0,65 | 0,64 | 0,62 | 0,61 | 0,60 | 0,60 | 0,59 | dB |
| | Q [m ³ /h] | 6.130 | 6.460 | 6.780 | 7.110 | 7.430 | 7.760 | 8.090 | 8.410 | 8.740 | 9.060 | 9.390 | 9.710 | 10.040 | 30 |
| | Δp [Pa] | 0,53 | 0,51 | 0,49 | 0,48 | 0,47 | 0,46 | 0,45 | 0,44 | 0,43 | 0,42 | 0,42 | 0,41 | 0,41 | dB |
| | Q [m ³ /h] | 5.100 | 5.370 | 5.640 | 5.910 | 6.180 | 6.460 | 6.730 | 7.000 | 7.270 | 7.540 | 7.810 | 8.080 | 8.350 | 25 |
| | Δp [Pa] | 0,36 | 0,35 | 0,34 | 0,33 | 0,32 | 0,32 | 0,31 | 0,30 | 0,30 | 0,29 | 0,29 | 0,29 | 0,28 | dB |

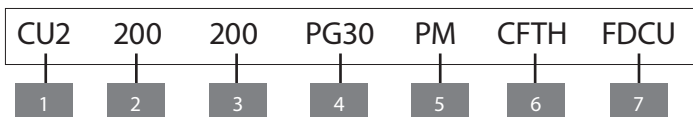
| Hn\Wn [mm] | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | |
|------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----|
| 700 | Sn [m ²] | 0,5348 | 0,5658 | 0,5967 | 0,6277 | 0,6586 | 0,6896 | 0,7205 | 0,7515 | 0,7824 | 0,8134 | 0,8443 | 0,8753 | 0,9062 | |
| | Sn [%] | 86,20 | 86,36 | 86,50 | 86,63 | 86,75 | 86,85 | 86,95 | 87,04 | 87,13 | 87,20 | 87,27 | 87,34 | 87,40 | |
| | Q [m ³ /h] | 11.350 | 11.950 | 12.550 | 13.150 | 13.760 | 14.360 | 14.960 | 15.560 | 16.160 | 16.760 | 17.370 | 17.970 | 18.570 | 45 |
| | Δp [Pa] | 1,36 | 1,32 | 1,28 | 1,24 | 1,21 | 1,18 | 1,15 | 1,13 | 1,11 | 1,09 | 1,07 | 1,05 | 1,04 | dB |
| | Q [m ³ /h] | 9.440 | 9.940 | 10.440 | 10.940 | 11.440 | 11.950 | 12.450 | 12.950 | 13.450 | 13.950 | 14.450 | 14.950 | 15.450 | 40 |
| | Δp [Pa] | 0,94 | 0,91 | 0,88 | 0,86 | 0,84 | 0,82 | 0,80 | 0,78 | 0,77 | 0,75 | 0,74 | 0,73 | 0,72 | dB |
| | Q [m ³ /h] | 7.850 | 8.270 | 8.690 | 9.100 | 9.520 | 9.940 | 10.350 | 10.770 | 11.190 | 11.600 | 12.020 | 12.430 | 12.850 | 35 |
| | Δp [Pa] | 0,65 | 0,63 | 0,61 | 0,59 | 0,58 | 0,56 | 0,55 | 0,54 | 0,53 | 0,52 | 0,51 | 0,50 | 0,50 | dB |
| | Q [m ³ /h] | 6.530 | 6.880 | 7.230 | 7.570 | 7.920 | 8.270 | 8.610 | 8.960 | 9.310 | 9.650 | 10.000 | 10.340 | 10.690 | 30 |
| | Δp [Pa] | 0,45 | 0,44 | 0,42 | 0,41 | 0,40 | 0,39 | 0,38 | 0,37 | 0,37 | 0,36 | 0,35 | 0,35 | 0,34 | dB |
| | Q [m ³ /h] | 5.440 | 5.730 | 6.010 | 6.300 | 6.590 | 6.880 | 7.170 | 7.450 | 7.740 | 8.030 | 8.320 | 8.610 | 8.890 | 25 |
| | Δp [Pa] | 0,31 | 0,30 | 0,29 | 0,28 | 0,28 | 0,27 | 0,26 | 0,26 | 0,25 | 0,25 | 0,25 | 0,24 | 0,24 | dB |
| 750 | Sn [m ²] | 0,5780 | 0,6115 | 0,6449 | 0,6784 | 0,7118 | 0,7453 | 0,7787 | 0,8122 | 0,8456 | 0,8791 | 0,9125 | 0,9460 | 0,9794 | |
| | Sn [%] | 86,90 | 87,06 | 87,21 | 87,34 | 87,45 | 87,56 | 87,66 | 87,75 | 87,83 | 87,91 | 87,98 | 88,05 | 88,11 | |
| | Q [m ³ /h] | 12.050 | 12.690 | 13.320 | 13.960 | 14.600 | 15.240 | 15.870 | 16.510 | 17.150 | 17.780 | 18.420 | 19.060 | 19.690 | 45 |
| | Δp [Pa] | 1,19 | 1,15 | 1,11 | 1,08 | 1,05 | 1,02 | 1,00 | 0,98 | 0,96 | 0,94 | 0,92 | 0,91 | 0,89 | dB |
| | Q [m ³ /h] | 10.020 | 10.550 | 11.090 | 11.620 | 12.150 | 12.680 | 13.210 | 13.730 | 14.260 | 14.790 | 15.320 | 15.850 | 16.380 | 40 |
| | Δp [Pa] | 0,82 | 0,79 | 0,77 | 0,75 | 0,73 | 0,71 | 0,69 | 0,67 | 0,66 | 0,65 | 0,64 | 0,63 | 0,62 | dB |
| | Q [m ³ /h] | 8.340 | 8.780 | 9.220 | 9.660 | 10.100 | 10.550 | 10.990 | 11.430 | 11.870 | 12.310 | 12.750 | 13.190 | 13.630 | 35 |
| | Δp [Pa] | 0,57 | 0,55 | 0,53 | 0,52 | 0,50 | 0,49 | 0,48 | 0,47 | 0,46 | 0,45 | 0,44 | 0,43 | 0,43 | dB |
| | Q [m ³ /h] | 6.940 | 7.310 | 7.670 | 8.040 | 8.410 | 8.770 | 9.140 | 9.510 | 9.870 | 10.240 | 10.610 | 10.970 | 11.340 | 30 |
| | Δp [Pa] | 0,40 | 0,38 | 0,37 | 0,36 | 0,35 | 0,34 | 0,33 | 0,32 | 0,32 | 0,31 | 0,31 | 0,30 | 0,30 | dB |
| | Q [m ³ /h] | 5.770 | 6.080 | 6.380 | 6.690 | 6.990 | 7.300 | 7.600 | 7.910 | 8.210 | 8.520 | 8.820 | 9.130 | 9.430 | 25 |
| | Δp [Pa] | 0,27 | 0,26 | 0,25 | 0,25 | 0,24 | 0,23 | 0,23 | 0,22 | 0,22 | 0,22 | 0,21 | 0,21 | 0,20 | dB |
| 800 | Sn [m ²] | 0,6212 | 0,6572 | 0,6931 | 0,7291 | 0,7650 | 0,8010 | 0,8369 | 0,8729 | 0,9088 | 0,9448 | 0,9807 | 1,0167 | 1,0526 | |
| | Sn [%] | 87,52 | 87,68 | 87,82 | 87,95 | 88,07 | 88,18 | 88,28 | 88,37 | 88,45 | 88,53 | 88,61 | 88,67 | 88,74 | |
| | Q [m ³ /h] | 12.750 | 13.420 | 14.090 | 14.760 | 15.440 | 16.110 | 16.780 | 17.450 | 18.120 | 18.800 | 19.470 | 20.140 | 20.810 | 45 |
| | Δp [Pa] | 1,05 | 1,01 | 0,98 | 0,95 | 0,92 | 0,90 | 0,87 | 0,85 | 0,83 | 0,82 | 0,80 | 0,79 | 0,78 | dB |
| | Q [m ³ /h] | 10.600 | 11.160 | 11.720 | 12.280 | 12.840 | 13.400 | 13.960 | 14.520 | 15.080 | 15.640 | 16.200 | 16.750 | 17.310 | 40 |
| | Δp [Pa] | 0,73 | 0,70 | 0,68 | 0,66 | 0,64 | 0,62 | 0,60 | 0,59 | 0,58 | 0,57 | 0,56 | 0,55 | 0,54 | dB |
| | Q [m ³ /h] | 8.820 | 9.290 | 9.750 | 10.220 | 10.680 | 11.150 | 11.610 | 12.080 | 12.540 | 13.010 | 13.470 | 13.940 | 14.400 | 35 |
| | Δp [Pa] | 0,50 | 0,49 | 0,47 | 0,45 | 0,44 | 0,43 | 0,42 | 0,41 | 0,40 | 0,39 | 0,38 | 0,38 | 0,37 | dB |
| | Q [m ³ /h] | 7.340 | 7.730 | 8.110 | 8.500 | 8.890 | 9.280 | 9.660 | 10.050 | 10.440 | 10.820 | 11.210 | 11.600 | 11.980 | 30 |
| | Δp [Pa] | 0,35 | 0,34 | 0,32 | 0,31 | 0,31 | 0,30 | 0,29 | 0,28 | 0,28 | 0,27 | 0,27 | 0,26 | 0,26 | dB |
| | Q [m ³ /h] | 6.110 | 6.430 | 6.750 | 7.070 | 7.400 | 7.720 | 8.040 | 8.360 | 8.680 | 9.000 | 9.330 | 9.650 | 9.970 | 25 |
| | Δp [Pa] | 0,24 | 0,23 | 0,22 | 0,22 | 0,21 | 0,21 | 0,20 | 0,20 | 0,19 | 0,19 | 0,18 | 0,18 | 0,18 | dB |

| Hn\Wn [mm] | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | |
|------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 850 | Sn [m ²] | 0,6644 | 0,7029 | 0,7413 | 0,7798 | 0,8182 | 0,8567 | 0,8951 | 0,9336 | 0,9720 | 1,0105 | 1,0489 | 1,0874 | 1,1258 | |
| | Sn [%] | 88,06 | 88,22 | 88,36 | 88,50 | 88,62 | 88,72 | 88,82 | 88,92 | 89,00 | 89,08 | 89,15 | 89,22 | 89,28 | |
| | Q [m ³ /h] | 13.440 | 14.150 | 14.860 | 15.560 | 16.270 | 16.980 | 17.690 | 18.390 | 19.100 | 19.800 | 20.510 | 21.220 | 21.920 | 45 dB |
| | Δp [Pa] | 0,94 | 0,90 | 0,87 | 0,84 | 0,82 | 0,79 | 0,77 | 0,75 | 0,74 | 0,72 | 0,71 | 0,70 | 0,68 | |
| | Q [m ³ /h] | 11.180 | 11.770 | 12.360 | 12.950 | 13.540 | 14.120 | 14.710 | 15.300 | 15.890 | 16.480 | 17.060 | 17.650 | 18.240 | 40 dB |
| | Δp [Pa] | 0,65 | 0,63 | 0,60 | 0,58 | 0,57 | 0,55 | 0,54 | 0,52 | 0,51 | 0,50 | 0,49 | 0,48 | 0,47 | |
| | Q [m ³ /h] | 9.300 | 9.790 | 10.280 | 10.770 | 11.260 | 11.750 | 12.240 | 12.730 | 13.220 | 13.710 | 14.190 | 14.680 | 15.170 | 35 dB |
| | Δp [Pa] | 0,45 | 0,43 | 0,42 | 0,40 | 0,39 | 0,38 | 0,37 | 0,36 | 0,35 | 0,35 | 0,34 | 0,33 | 0,33 | |
| | Q [m ³ /h] | 7.740 | 8.150 | 8.550 | 8.960 | 9.370 | 9.780 | 10.180 | 10.590 | 11.000 | 11.400 | 11.810 | 12.220 | 12.620 | 30 dB |
| | Δp [Pa] | 0,31 | 0,30 | 0,29 | 0,28 | 0,27 | 0,26 | 0,26 | 0,25 | 0,24 | 0,24 | 0,23 | 0,23 | 0,23 | |
| | Q [m ³ /h] | 6.440 | 6.780 | 7.120 | 7.460 | 7.790 | 8.130 | 8.470 | 8.810 | 9.150 | 9.490 | 9.820 | 10.160 | 10.500 | 25 dB |
| | Δp [Pa] | 0,22 | 0,21 | 0,20 | 0,19 | 0,19 | 0,18 | 0,18 | 0,17 | 0,17 | 0,17 | 0,16 | 0,16 | 0,16 | |
| 900 | Sn [m ²] | 0,7076 | 0,7486 | 0,7895 | 0,8305 | 0,8714 | 0,9124 | 0,9533 | 0,9943 | 1,0352 | 1,0762 | 1,1171 | 1,1581 | 1,1990 | |
| | Sn [%] | 88,54 | 88,70 | 88,85 | 88,98 | 89,10 | 89,21 | 89,31 | 89,40 | 89,49 | 89,57 | 89,64 | 89,71 | 89,77 | |
| | Q [m ³ /h] | 14.130 | 14.880 | 15.620 | 16.360 | 17.100 | 17.840 | 18.590 | 19.330 | 20.070 | 20.810 | 21.550 | 22.290 | 23.030 | 45 dB |
| | Δp [Pa] | 0,85 | 0,82 | 0,78 | 0,76 | 0,73 | 0,71 | 0,69 | 0,67 | 0,66 | 0,64 | 0,63 | 0,62 | 0,61 | |
| | Q [m ³ /h] | 11.760 | 12.380 | 12.990 | 13.610 | 14.230 | 14.840 | 15.460 | 16.080 | 16.690 | 17.310 | 17.930 | 18.540 | 19.160 | 40 dB |
| | Δp [Pa] | 0,59 | 0,56 | 0,54 | 0,52 | 0,51 | 0,49 | 0,48 | 0,47 | 0,46 | 0,45 | 0,44 | 0,43 | 0,42 | |
| | Q [m ³ /h] | 9.780 | 10.300 | 10.810 | 11.320 | 11.840 | 12.350 | 12.860 | 13.380 | 13.890 | 14.400 | 14.910 | 15.420 | 15.940 | 35 dB |
| | Δp [Pa] | 0,41 | 0,39 | 0,38 | 0,36 | 0,35 | 0,34 | 0,33 | 0,32 | 0,32 | 0,31 | 0,30 | 0,30 | 0,29 | |
| | Q [m ³ /h] | 8.140 | 8.570 | 8.990 | 9.420 | 9.850 | 10.270 | 10.700 | 11.130 | 11.550 | 11.980 | 12.410 | 12.830 | 13.260 | 30 dB |
| | Δp [Pa] | 0,28 | 0,27 | 0,26 | 0,25 | 0,24 | 0,24 | 0,23 | 0,22 | 0,22 | 0,21 | 0,21 | 0,21 | 0,20 | |
| | Q [m ³ /h] | 6.770 | 7.130 | 7.480 | 7.840 | 8.190 | 8.550 | 8.900 | 9.260 | 9.610 | 9.970 | 10.320 | 10.680 | 11.030 | 25 dB |
| | Δp [Pa] | 0,20 | 0,19 | 0,18 | 0,17 | 0,17 | 0,16 | 0,16 | 0,15 | 0,15 | 0,15 | 0,14 | 0,14 | 0,14 | |
| 950 | Sn [m ²] | 0,7508 | 0,7943 | 0,8377 | 0,8812 | 0,9246 | 0,9681 | 1,0115 | 1,0550 | 1,0984 | 1,1419 | 1,1853 | 1,2288 | 1,2722 | |
| | Sn [%] | 88,97 | 89,13 | 89,28 | 89,41 | 89,53 | 89,64 | 89,74 | 89,84 | 89,92 | 90,00 | 90,07 | 90,14 | 90,21 | |
| | Q [m ³ /h] | 14.820 | 15.600 | 16.380 | 17.150 | 17.930 | 18.710 | 19.480 | 20.260 | 21.030 | 21.810 | 22.580 | 23.350 | 24.130 | 45 dB |
| | Δp [Pa] | 0,77 | 0,74 | 0,71 | 0,69 | 0,66 | 0,64 | 0,62 | 0,61 | 0,59 | 0,58 | 0,57 | 0,56 | 0,54 | |
| | Q [m ³ /h] | 12.330 | 12.980 | 13.630 | 14.270 | 14.920 | 15.560 | 16.210 | 16.850 | 17.500 | 18.140 | 18.780 | 19.430 | 20.070 | 40 dB |
| | Δp [Pa] | 0,53 | 0,51 | 0,49 | 0,47 | 0,46 | 0,44 | 0,43 | 0,42 | 0,41 | 0,40 | 0,39 | 0,38 | 0,38 | |
| | Q [m ³ /h] | 10.260 | 10.800 | 11.340 | 11.870 | 12.410 | 12.950 | 13.480 | 14.020 | 14.560 | 15.090 | 15.630 | 16.160 | 16.700 | 35 dB |
| | Δp [Pa] | 0,37 | 0,35 | 0,34 | 0,33 | 0,32 | 0,31 | 0,30 | 0,29 | 0,28 | 0,28 | 0,27 | 0,27 | 0,26 | |
| | Q [m ³ /h] | 8.540 | 8.980 | 9.430 | 9.880 | 10.320 | 10.770 | 11.220 | 11.660 | 12.110 | 12.560 | 13.000 | 13.450 | 13.890 | 30 dB |
| | Δp [Pa] | 0,26 | 0,25 | 0,24 | 0,23 | 0,22 | 0,21 | 0,21 | 0,20 | 0,20 | 0,19 | 0,19 | 0,18 | 0,18 | |
| | Q [m ³ /h] | 7.100 | 7.470 | 7.850 | 8.220 | 8.590 | 8.960 | 9.330 | 9.700 | 10.070 | 10.450 | 10.820 | 11.190 | 11.560 | 25 dB |
| | Δp [Pa] | 0,18 | 0,17 | 0,16 | 0,16 | 0,15 | 0,15 | 0,14 | 0,14 | 0,14 | 0,13 | 0,13 | 0,13 | 0,13 | |

| Hn\Wn [mm] | 900 | 950 | 1000 | 1050 | 1100 | 1150 | 1200 | 1250 | 1300 | 1350 | 1400 | 1450 | 1500 | | |
|------------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|
| 1000 | Sn [m ²] | 0,7940 | 0,8400 | 0,8859 | 0,9319 | 0,9778 | 1,0238 | 1,0697 | 1,1157 | 1,1616 | 1,2076 | 1,2535 | 1,2995 | 1,3454 | |
| | Sn [%] | 89,35 | 89,52 | 89,66 | 89,80 | 89,92 | 90,03 | 90,13 | 90,23 | 90,31 | 90,39 | 90,47 | 90,53 | 90,60 | |
| | Q [m ³ /h] | 15.510 | 16.320 | 17.140 | 17.950 | 18.760 | 19.570 | 20.370 | 21.180 | 21.990 | 22.800 | 23.610 | 24.420 | 25.220 | 45 |
| | Δp [Pa] | 0,71 | 0,68 | 0,65 | 0,63 | 0,60 | 0,58 | 0,57 | 0,55 | 0,54 | 0,52 | 0,51 | 0,50 | 0,49 | dB |
| | Q [m ³ /h] | 12.910 | 13.580 | 14.260 | 14.930 | 15.600 | 16.280 | 16.950 | 17.620 | 18.300 | 18.970 | 19.640 | 20.310 | 20.980 | 40 |
| | Δp [Pa] | 0,49 | 0,47 | 0,45 | 0,43 | 0,42 | 0,40 | 0,39 | 0,38 | 0,37 | 0,36 | 0,36 | 0,35 | 0,34 | dB |
| | Q [m ³ /h] | 10.740 | 11.300 | 11.860 | 12.420 | 12.980 | 13.540 | 14.100 | 14.660 | 15.220 | 15.780 | 16.340 | 16.900 | 17.460 | 35 |
| | Δp [Pa] | 0,34 | 0,32 | 0,31 | 0,30 | 0,29 | 0,28 | 0,27 | 0,26 | 0,26 | 0,25 | 0,25 | 0,24 | 0,24 | dB |
| | Q [m ³ /h] | 8.930 | 9.400 | 9.870 | 10.330 | 10.800 | 11.270 | 11.730 | 12.200 | 12.660 | 13.130 | 13.590 | 14.060 | 14.520 | 30 |
| | Δp [Pa] | 0,23 | 0,22 | 0,22 | 0,21 | 0,20 | 0,19 | 0,19 | 0,18 | 0,18 | 0,17 | 0,17 | 0,17 | 0,16 | dB |
| | Q [m ³ /h] | 7.430 | 7.820 | 8.210 | 8.600 | 8.980 | 9.370 | 9.760 | 10.150 | 10.530 | 10.920 | 11.310 | 11.700 | 12.080 | 25 |
| | Δp [Pa] | 0,16 | 0,16 | 0,15 | 0,14 | 0,14 | 0,13 | 0,13 | 0,13 | 0,12 | 0,12 | 0,12 | 0,12 | 0,11 | dB |

Every air flow lower than the above mentioned maximum value, will meet the listed A-weighted sound power level for the respective dimension.

Sample order



1. product
2. width
3. height
4. frame on the side of the mechanism
5. frame on the side of the wall
6. mechanism type
7. option: unipolar end of range switch

Approvals and certificates

All our dampers are submitted to a number of tests by official test institutes. Reports of these tests form the basis for the approvals of our dampers.



BCCA-0749-CPR-BC1-606-0464-15650.03-0464



NF 537
CLAPETS RÉSISTANT AU FEU
VOLETS RÉSISTANT AU FEU
www.marque-nf.com

18.12



SC0652-15



26813



W-336769-20-Zd



2822-UKCA-CPR-0057

The NF-label guarantees: conformity with the standard NF S 61-937 Parts 1 and 5: "Systèmes de Sécurité Incendie Dispositifs Actionnés de Sécurité"; conformity with the national decree of March 22, 2004, changed on 14 March 2011 for the classification of fire resistance; the values of the characteristics mentioned in this document. Organisme Certificateur: AFNOR Certification, 11 Rue Francis de Pressensé, F93571 La Plaine Saint-Denis Cedex; Website: <http://www.afnor.org> and <http://www.marque-nf.com>; Phone: +33 (0)1.41.62.80.00, Fax: +33 (0)1.49.17.90.00, Email: certification@afnor.org