



## Motorized rectangular fire dampers EI120S type CU2+ONE-T

Rectangular fire dampers with a fire resistance of 2 hours. When the temperature in the damper rises above 72 °C the thermo-electrical link gets triggered and the damper will close. When closed, the expanding material around the fireblade will swell and assure a fire and air-tight seal against hot air and smoke. The tunnel and blade are made out of fire resistant material. The **CU2 + ONE-T** fire dampers will have an automatic operating mechanism by means of an actuator with indication of the blade position. An end and begin of range switch is included within the actuator.

### Application

- Fire compartmentation
- To close and seal off ventilation ducts in case of fire
- For air temperatures of -10°C up to temperature of fusible link
- For air with RV 0-96%
- Range from 200 to 1500 mm in width and 200 to 800 mm in height

### Composition

- light-weight PromatectH® fireproof housing
- PromatectH® fireproof blade
- Palusol seal around the blade
- Actuator ONE-T for all sizes
- Standard equipped with duct connection flanges of 30mm (other flange types available upon request)

### Mounting

- To be inserted in fire resistant walls or floors and to be fixed with fireproof mortar
- To be connected with rectangular air ducts by flanges of 30mm

### Certification

- Certified according NEN6077 / NBN 713-0 0 / EN 1366-2
- CE-marked

## Fire dampers

### Accessories

- Fire resistant plaster **BP**
- Fire resistant silicone gel **BMS**
- Fire resistant PU-foam **BAP**

### Text for tender

- The fire dampers shall be of the rectangular type with a fire resistance of 2 hours, certified according to EN 1366-2 and EN 13501-3 . They will consist of a fireproof material tunnel and valve. The control mechanism will be automatically operated by means of an actuator and shall have a blade position indicator and thermo-electrical link of 72 °C
- **SIG** type **CU2 + ONE-T**

### Order example

- **CU2 +ONE-T, 400,200**

Explanation

**CU2** = Rectangular fire damper Rf2h

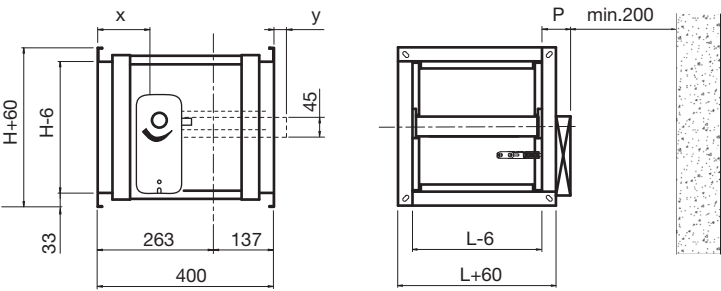
**ONE-T** = Actuator

**400** = Length damper

**200**= Height damper

## Fire dampers

| Quick selection |      |       |      |      |    |    |      |      |    |    |       |       |    |    |       |       |    |    |       |       |    |    |       |       |     |    |  |
|-----------------|------|-------|------|------|----|----|------|------|----|----|-------|-------|----|----|-------|-------|----|----|-------|-------|----|----|-------|-------|-----|----|--|
|                 |      | Aeff  | v 3  |      |    |    | v 4  |      |    |    | v 5   |       |    |    | v 6   |       |    |    | v 7   |       |    |    | v 8   |       |     |    |  |
| L               | H    |       | Qv   | veff | Ps | Lw | Qv   | veff | Ps | Lw | Qv    | veff  | Ps | Lw | Qv    | veff  | Ps | Lw | Qv    | veff  | Ps | Lw | Qv    | veff  | Ps  | Lw |  |
| 200             | 200  | 0.02  | 431  | 6.10 | 16 | 20 | 576  | 8.20 | 28 | 25 | 720   | 10.20 | 44 | 28 | 864   | 12.30 | 63 | 31 | 1008  | 14.30 | 85 | 33 | 1152  | 16.40 | 111 | 35 |  |
| 200             | 300  | 0.036 | 648  | 5    | 9  | 24 | 864  | 6.70 | 15 | 28 | 1080  | 8.40  | 24 | 31 | 1296  | 10    | 34 | 34 | 1512  | 11.70 | 46 | 36 | 1728  | 13.40 | 61  | 38 |  |
| 200             | 400  | 0.052 | 864  | 4.60 | 6  | 26 | 1152 | 6.10 | 10 | 30 | 1440  | 7.60  | 16 | 33 | 1728  | 9.20  | 23 | 36 | 2016  | 10.70 | 32 | 38 | 2304  | 12.20 | 42  | 40 |  |
| 200             | 500  | 0.069 | 1080 | 4.40 | 4  | 27 | 1440 | 5.80 | 8  | 31 | 1800  | 7.30  | 12 | 34 | 2160  | 8.70  | 18 | 37 | 2520  | 10.20 | 24 | 39 | 2880  | 11.60 | 32  | 41 |  |
| 200             | 600  | 0.085 | 1296 | 4.20 | 4  | 28 | 1728 | 5.60 | 6  | 32 | 2160  | 7     | 10 | 36 | 2592  | 8.50  | 14 | 38 | 3024  | 9.90  | 20 | 41 | 3456  | 11.30 | 26  | 42 |  |
| 300             | 200  | 0.031 | 648  | 5.70 | 10 | 23 | 864  | 7.60 | 17 | 27 | 1080  | 9.50  | 27 | 30 | 1296  | 11.50 | 39 | 33 | 1512  | 13.40 | 53 | 35 | 1728  | 15.30 | 69  | 37 |  |
| 300             | 300  | 0.058 | 972  | 4.70 | 5  | 26 | 1296 | 6.20 | 9  | 30 | 1620  | 7.80  | 15 | 34 | 1944  | 9.30  | 21 | 36 | 2268  | 10.90 | 29 | 38 | 2592  | 12.50 | 38  | 40 |  |
| 300             | 400  | 0.084 | 1296 | 4.30 | 4  | 28 | 1728 | 5.70 | 6  | 32 | 2160  | 7.10  | 10 | 36 | 2592  | 8.50  | 15 | 38 | 3024  | 10    | 20 | 40 | 3456  | 11.40 | 26  | 42 |  |
| 300             | 500  | 0.111 | 1620 | 4.10 | 3  | 30 | 2160 | 5.40 | 5  | 34 | 2700  | 6.80  | 8  | 37 | 3240  | 8.10  | 11 | 40 | 3780  | 9.50  | 15 | 42 | 4320  | 10.80 | 20  | 44 |  |
| 300             | 600  | 0.137 | 1944 | 3.90 | 2  | 31 | 2592 | 5.30 | 4  | 35 | 3240  | 6.60  | 6  | 38 | 3888  | 7.90  | 9  | 41 | 4536  | 9.20  | 12 | 43 | 5184  | 10.50 | 16  | 45 |  |
| 400             | 200  | 0.043 | 864  | 5.50 | 7  | 25 | 1152 | 7.40 | 13 | 29 | 1440  | 9.20  | 20 | 32 | 1728  | 11.10 | 28 | 35 | 2016  | 12.90 | 38 | 37 | 2304  | 14.80 | 50  | 39 |  |
| 400             | 300  | 0.08  | 1296 | 4.50 | 4  | 28 | 1728 | 6    | 7  | 32 | 2160  | 7.50  | 11 | 35 | 2592  | 9     | 15 | 38 | 3024  | 10.50 | 21 | 40 | 3456  | 12    | 27  | 42 |  |
| 400             | 400  | 0.116 | 1728 | 4.10 | 3  | 30 | 2304 | 5.50 | 5  | 34 | 2880  | 6.90  | 7  | 37 | 3456  | 8.30  | 11 | 40 | 4032  | 9.60  | 14 | 42 | 4608  | 11    | 19  | 44 |  |
| 400             | 500  | 0.153 | 2160 | 3.90 | 2  | 31 | 2880 | 5.20 | 4  | 35 | 3600  | 6.60  | 6  | 39 | 4320  | 7.90  | 8  | 41 | 5040  | 9.20  | 11 | 44 | 5760  | 10.50 | 14  | 46 |  |
| 400             | 600  | 0.189 | 2592 | 3.80 | 2  | 32 | 3456 | 5.10 | 3  | 37 | 4320  | 6.40  | 4  | 40 | 5184  | 7.60  | 6  | 42 | 6048  | 8.90  | 9  | 45 | 6912  | 10.20 | 12  | 47 |  |
| 400             | 700  | 0.225 | 3024 | 3.70 | 1  | 33 | 4032 | 5    | 2  | 38 | 5040  | 6.20  | 4  | 41 | 6048  | 7.50  | 5  | 43 | 7056  | 8.70  | 7  | 46 | 8064  | 9.90  | 10  | 48 |  |
| 400             | 800  | 0.262 | 3456 | 3.70 | 1  | 34 | 4608 | 4.90 | 2  | 38 | 5760  | 6.10  | 3  | 42 | 6912  | 7.30  | 5  | 44 | 8064  | 8.60  | 6  | 46 | 9216  | 9.80  | 8   | 48 |  |
| 500             | 200  | 0.055 | 1080 | 5.40 | 6  | 26 | 1440 | 7.20 | 10 | 30 | 1800  | 9.10  | 15 | 33 | 2160  | 10.90 | 22 | 36 | 2520  | 12.70 | 30 | 38 | 2880  | 14.50 | 39  | 40 |  |
| 500             | 300  | 0.102 | 1620 | 4.40 | 3  | 29 | 2160 | 5.90 | 5  | 33 | 2700  | 7.40  | 8  | 37 | 3240  | 8.90  | 12 | 39 | 3780  | 10.30 | 16 | 41 | 4320  | 11.80 | 21  | 43 |  |
| 500             | 400  | 0.148 | 2160 | 4.10 | 2  | 31 | 2880 | 5.40 | 4  | 35 | 3600  | 6.80  | 6  | 39 | 4320  | 8.10  | 8  | 41 | 5040  | 9.50  | 11 | 43 | 5760  | 10.80 | 15  | 45 |  |
| 500             | 500  | 0.194 | 2700 | 3.90 | 2  | 33 | 3600 | 5.10 | 3  | 37 | 4500  | 6.40  | 4  | 40 | 5400  | 7.70  | 6  | 43 | 6300  | 9     | 9  | 45 | 7200  | 10.30 | 11  | 47 |  |
| 500             | 600  | 0.241 | 3240 | 3.70 | 1  | 34 | 4320 | 5    | 2  | 38 | 5400  | 6.20  | 4  | 41 | 6480  | 7.50  | 5  | 44 | 7560  | 8.70  | 7  | 46 | 8640  | 10    | 9   | 48 |  |
| 500             | 700  | 0.287 | 3780 | 3.70 | 1  | 35 | 5040 | 4.90 | 2  | 39 | 6300  | 6.10  | 3  | 42 | 7560  | 7.30  | 4  | 45 | 8820  | 8.50  | 6  | 47 | 10080 | 9.70  | 8   | 49 |  |
| 500             | 800  | 0.334 | 4320 | 3.60 | 1  | 35 | 5760 | 4.80 | 2  | 40 | 7200  | 6     | 3  | 43 | 8640  | 7.20  | 4  | 45 | 10080 | 8.40  | 5  | 48 | 11520 | 9.60  | 7   | 50 |  |
| 600             | 200  | 0.067 | 1296 | 5.40 | 5  | 27 | 1728 | 7.20 | 8  | 31 | 2160  | 8.90  | 13 | 34 | 2592  | 10.70 | 18 | 37 | 3024  | 12.50 | 25 | 39 | 3456  | 14.30 | 32  | 41 |  |
| 600             | 300  | 0.124 | 1944 | 4.40 | 2  | 30 | 2592 | 5.80 | 4  | 34 | 3240  | 7.30  | 7  | 38 | 3888  | 8.70  | 10 | 40 | 4536  | 10.20 | 13 | 42 | 5184  | 11.70 | 18  | 44 |  |
| 600             | 400  | 0.18  | 2592 | 4    | 2  | 32 | 3456 | 5.30 | 3  | 36 | 4320  | 6.70  | 5  | 40 | 5184  | 8     | 7  | 42 | 6048  | 9.30  | 9  | 44 | 6912  | 10.70 | 12  | 46 |  |
| 600             | 500  | 0.236 | 3240 | 3.80 | 1  | 34 | 4320 | 5.10 | 2  | 38 | 5400  | 6.30  | 4  | 41 | 6480  | 7.60  | 5  | 44 | 7560  | 8.90  | 7  | 46 | 8640  | 10.20 | 9   | 48 |  |
| 600             | 600  | 0.293 | 3888 | 3.70 | 1  | 35 | 5184 | 4.90 | 2  | 39 | 6480  | 6.10  | 3  | 42 | 7776  | 7.40  | 4  | 45 | 9072  | 8.60  | 6  | 47 | 10368 | 9.80  | 7   | 49 |  |
| 600             | 700  | 0.349 | 4536 | 3.60 | 1  | 36 | 6048 | 4.80 | 2  | 40 | 7560  | 6     | 2  | 43 | 9072  | 7.20  | 4  | 46 | 10584 | 8.40  | 5  | 48 | 12096 | 9.60  | 6   | 50 |  |
| 600             | 800  | 0.406 | 5184 | 3.60 | 1  | 36 | 6912 | 4.70 | 1  | 41 | 8640  | 5.90  | 2  | 44 | 10368 | 7.10  | 3  | 47 | 12096 | 8.30  | 4  | 49 | 13824 | 9.50  | 5   | 51 |  |
| 600             | 1000 | 0.518 | 6480 | 3.50 | 1  | 38 | 8640 | 4.60 | 1  | 42 | 10800 | 5.80  | 2  | 45 | 12960 | 6.90  | 2  | 48 | 15120 | 8.10  | 3  | 50 | 17280 | 9.30  | 4   | 52 |  |
| 700             | 200  | 0.079 | 1512 | 5.30 | 4  | 28 | 2016 | 7.10 | 7  | 32 | 2520  | 8.90  | 11 | 35 | 3024  | 10.60 | 15 | 38 | 3528  | 12.40 | 21 | 40 | 4032  | 14.20 | 28  | 42 |  |
| 700             | 300  | 0.145 | 2268 | 4.30 | 2  | 31 | 3024 | 5.80 | 4  | 35 | 3780  | 7.20  | 6  | 38 | 4536  | 8.70  | 8  | 41 | 5292  | 10.10 | 11 | 43 | 6048  | 11.60 | 15  | 45 |  |
| 700             | 400  | 0.212 | 3024 | 4    | 1  | 33 | 4032 | 5.30 | 3  | 37 | 5040  | 6.60  | 4  | 40 | 6048  | 7.90  | 6  | 43 | 7056  | 9.30  | 8  | 45 | 8064  | 10.60 | 10  | 47 |  |
| 700             | 500  | 0.278 | 3780 | 3.80 | 1  | 34 | 5040 | 5    | 2  | 39 | 6300  | 6.30  | 3  | 42 | 7560  | 7.50  | 4  | 45 | 8820  | 8.80  | 6  | 47 | 10080 | 10.10 | 8   | 49 |  |
| 700             | 600  | 0.345 | 4536 | 3.70 | 1  | 36 | 6048 | 4.90 | 2  | 40 | 7560  | 6.10  | 2  | 43 | 9072  | 7.30  | 4  | 46 | 10584 | 8.50  | 5  | 48 | 12096 | 9.70  | 6   | 50 |  |
| 700             | 700  | 0.411 | 5292 | 3.60 | 1  | 36 | 7056 | 4.80 | 1  | 41 | 8820  | 6     | 2  | 44 | 10584 | 7.20  | 3  | 47 | 12348 | 8.30  | 4  | 49 | 14112 | 9.50  | 5   | 51 |  |
| 700             | 800  | 0.477 | 6048 | 3.50 | 1  | 37 | 8064 | 4.70 | 1  | 41 | 10080 | 5.90  | 2  | 45 | 12096 | 7     | 3  | 47 | 14112 | 8.20  | 3  | 50 | 16128 | 9.40  | 5   | 52 |  |
| 800             | 200  | 0.091 | 1728 | 5.30 | 3  | 28 | 2304 | 7    | 6  | 33 | 2880  | 8.80  | 9  | 36 | 3456  | 10.60 | 13 | 39 | 4032  | 12.30 | 18 | 41 | 4608  | 14.10 | 24  | 43 |  |
| 800             | 300  | 0.167 | 2592 | 4.30 | 2  | 32 | 3456 | 5.70 | 3  | 36 | 4320  | 7.20  | 5  | 39 | 5184  | 8.60  | 7  | 42 | 6048  | 10    | 10 | 44 | 6912  | 11.50 | 13  | 46 |  |
| 800             | 400  | 0.244 | 3456 | 3.90 | 1  | 34 | 4608 | 5.30 | 2  | 38 | 5760  | 6.60  | 3  | 41 | 6912  | 7.90  | 5  | 44 | 8064  | 9.20  | 7  | 46 | 9216  | 10.50 | 9   | 48 |  |
| 800             | 500  | 0.32  | 4320 | 3.70 | 1  | 35 | 5760 | 5    | 2  | 39 | 7200  | 6.20  | 3  | 43 | 8640  | 7.50  | 4  | 45 | 10080 | 8.70  | 5  | 48 | 11520 | 10    | 7   | 49 |  |
| 800             | 600  | 0.397 | 5184 | 3.60 | 1  | 36 | 6912 | 4.80 | 1  | 40 | 8640  | 6.10  | 2  | 44 | 10368 | 7.30  | 3  | 46 | 12096 | 8.50  | 4  | 49 | 13824 | 9.70  | 5   | 51 |  |
| 800             | 700  | 0.473 | 6048 | 3.60 | 1  | 37 | 8064 | 4.70 | 1  | 41 | 10080 | 5.90  | 2  | 45 | 12096 | 7.10  | 3  | 47 | 14112 | 8.30  | 4  | 50 | 16128 | 9.50  | 5   | 52 |  |
| 800             | 800  | 0.549 | 6912 | 3.50 | 1  | 38 | 9216 | 4.70 | 1  | 42 | 11520 | 5.80  | 2  | 45 | 13824 | 7     | 2  | 48 | 16128 | 8.20  | 3  | 50 | 18432 | 9.30  | 4   | 52 |  |
| 900             | 200  | 0.103 | 1944 | 5.30 | 3  | 29 | 2592 | 7    | 5  | 33 | 3240  | 8.80  | 8  | 37 | 3     |       |    |    |       |       |    |    |       |       |     |    |  |



| Dimensions |          |          |                 |                   |                 |                 |
|------------|----------|----------|-----------------|-------------------|-----------------|-----------------|
| CU2 + ONE  | P<br>110 | Q<br>210 | Z (H<300)<br>80 | Z (H>=300)<br>180 | x<br>=(H/2)-274 | y<br>=(H/2)-184 |

Electrical connection

