

# CIRCULAR SILENCERS

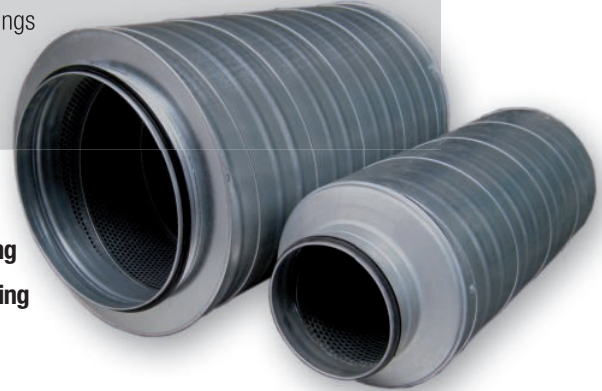
## CONFORT RANGE

The CONFORT range circular silencers are of direct type and enable to attenuate the noise of ventilation systems.

They are usually installed in secondary networks and offer a complementary acoustic attenuation.

Depending on the required performances, two sizes of soundproofing casings are available: 50 mm and 100 mm.

Delivery time  
**1 week**  
exworks\*



**CONFORT 50** Direct silencers with a 50 mm-thick soundproofing casing

**CONFORT 100** Direct silencers with a 100 mm-thick soundproofing casing

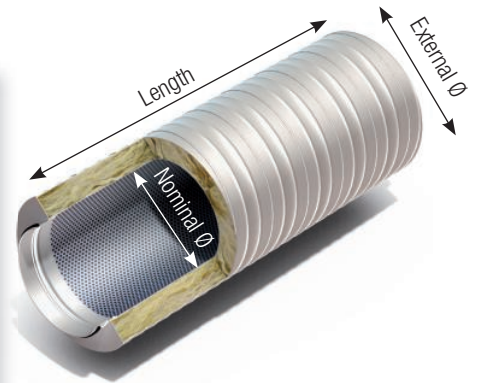
### CONSTRUCTION

|               |            | Characteristics                                                                                            | Options                           |                                             |
|---------------|------------|------------------------------------------------------------------------------------------------------------|-----------------------------------|---------------------------------------------|
|               |            |                                                                                                            | CONFORT 50                        | CONFORT 100                                 |
| Casing        | Material   | Rolled-stapled or spiral galvanized steel duct (depending on diameter)                                     |                                   | Stainless steel, painted steel or aluminium |
|               | Connection |                                                                                                            |                                   | Threaded flanges, revolving flanges         |
| Soundproofing | Material   | Mineral wool with anti-erosion fiberglass layer on the surface<br><b>Euroclasse A1</b> fire classification | Fiberglass fabric protection      |                                             |
|               | Protection |                                                                                                            |                                   |                                             |
| Accessories   |            |                                                                                                            | Protective guards<br>Support legs |                                             |

### DIMENSIONS

| CONFORT 50     |                 |             |             | CONFORT 100    |                 |             |             |
|----------------|-----------------|-------------|-------------|----------------|-----------------|-------------|-------------|
| Nominal Ø (mm) | External Ø (mm) | Length (mm) | Weight (kg) | Nominal Ø (mm) | External Ø (mm) | Length (mm) | Weight (kg) |
| 125            | 225             | 600         | 5           | 250            | 450             | 1000        | 22          |
|                |                 | 900         | 8           | 315            | 500             | 1000        | 24          |
| 160            | 250             | 600         | 6           | 355            | 560             | 1000        | 28          |
|                |                 | 900         | 9           | 400            | 630             | 1000        | 33          |
| 200            | 315             | 600         | 8           | 450            | 630             | 1000        | 31          |
|                |                 | 900         | 12          | 500            | 710             | 1000        | 42          |
| 250            | 355             | 600         | 9           | 560            | 710             | 1000        | 39          |
|                |                 | 900         | 14          | 600            | 800             | 1000        | 47          |
| 315            | 400             | 600         | 10          | 630            | 800             | 1000        | 45          |
|                |                 | 900         | 15          | 710            | 900             | 1500        | 79          |
| 355            | 450             | 900         | 18          | 800            | 1000            | 1500        | 90          |
| 400            | 500             | 900         | 20          | 900            | 1120            | 1500        | 114         |
| 450            | 560             | 900         | 23          | 1000           | 1250            | 2000        | 177         |
| 500            | 630             | 900         | 30          | 1120           | 1400            | 2000        | 206         |
|                |                 |             |             | 1250           | 1400            | 2000        | 177         |

Other diameters and lengths  
on request



\* The delivery time is valid for standard silencers from Ø125 to Ø500 mm and within the limit of available stock.

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**F2A**  
Manufacturer  
Air handling components

# CIRCULAR SILENCERS

## CONFORT RANGE

### ACOUSTIC PERFORMANCES

#### CONFORT 50

Soundproofing casing thickness = 50 mm

| Length 600 mm  | Static attenuations (dB) |        |        |        |         |         |         |         |
|----------------|--------------------------|--------|--------|--------|---------|---------|---------|---------|
| Nominal Ø (mm) | 63 Hz                    | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 125            | 2                        | 5      | 13     | 21     | 37      | 37      | 31      | 5       |
| 160            | 2                        | 4      | 9      | 19     | 33      | 30      | 21      | 9       |
| 200            | 1                        | 4      | 8      | 15     | 31      | 28      | 20      | 5       |
| 250            | 1                        | 6      | 9      | 13     | 24      | 15      | 15      | 5       |
| 315            | 1                        | 2      | 5      | 7      | 13      | 12      | 7       | 5       |
|                |                          |        |        |        |         |         |         |         |
| Length 900 mm  | Static attenuations (dB) |        |        |        |         |         |         |         |
| Nominal Ø (mm) | 63 Hz                    | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 125            | 2                        | 4      | 16     | 28     | 38      | 38      | 35      | 16      |
| 160            | 1                        | 5      | 9      | 24     | 34      | 35      | 25      | 12      |
| 200            | 2                        | 8      | 9      | 20     | 32      | 35      | 23      | 9       |
| 250            | 2                        | 5      | 10     | 19     | 27      | 13      | 8       | 7       |
| 315            | 1                        | 1      | 6      | 12     | 16      | 12      | 7       | 7       |
| 355            | 1                        | 2      | 6      | 12     | 18      | 10      | 9       | 6       |
| 400            | 1                        | 3      | 5      | 10     | 18      | 8       | 5       | 7       |
| 450            | 1                        | 5      | 6      | 12     | 17      | 10      | 9       | 6       |
| 500            | 1                        | 6      | 8      | 14     | 16      | 13      | 13      | 6       |

Maximum air velocity:  $V_{max} = 15 \text{ m/s}$

Tests carried out according to ISO 7235 standard.

#### CONFORT 100

Soundproofing casing thickness = 100 mm

|                |             | Static attenuations (dB) |        |        |        |         |         |         |         |
|----------------|-------------|--------------------------|--------|--------|--------|---------|---------|---------|---------|
| Nominal Ø (mm) | Length (mm) | 63 Hz                    | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz |
| 315            | 1000        | 5                        | 10     | 14     | 14     | 21      | 23      | 11      | 7       |
| 400            | 1000        | 3                        | 7      | 10     | 12     | 18      | 15      | 8       | 6       |
| 560            | 1000        | 1                        | 5      | 8      | 12     | 12      | 10      | 6       | 5       |
| 630            | 1000        | 2                        | 3      | 7      | 10     | 10      | 8       | 6       | 4       |
| 800            | 1500        | 2                        | 4      | 13     | 18     | 13      | 12      | 10      | 11      |
| 1000           | 2000        | 3                        | 9      | 15     | 18     | 12      | 11      | 10      | 10      |
| 1250           | 2000        | 4                        | 6      | 8      | 14     | 10      | 10      | 10      | 8       |

Maximum air velocity:  $V_{max} = 20 \text{ m/s}$

Tests carried out according to ISO 7235 standard.

### PRESSURE LOSSES AND REGENERATIONS

For direct silencers, pressure losses and regenerations are considered as negligible.

If you require higher acoustic performances, F2A recommends the OPTIMUM range: circular silencers equipped with a central attenuator.