

# EDC 1-6 Multidirectional diffusers with curved blades



### Description

Aluminium diffusers with special, individually adjustable curved blades. 1, 2, 3 and 4-way possible.

### Characteristics

Material: aluminium.

Finish: natural anodised.

Standard installation: with clips (installation of the counter-frame recommended).

On request: holes for screws on the diffuser frame.

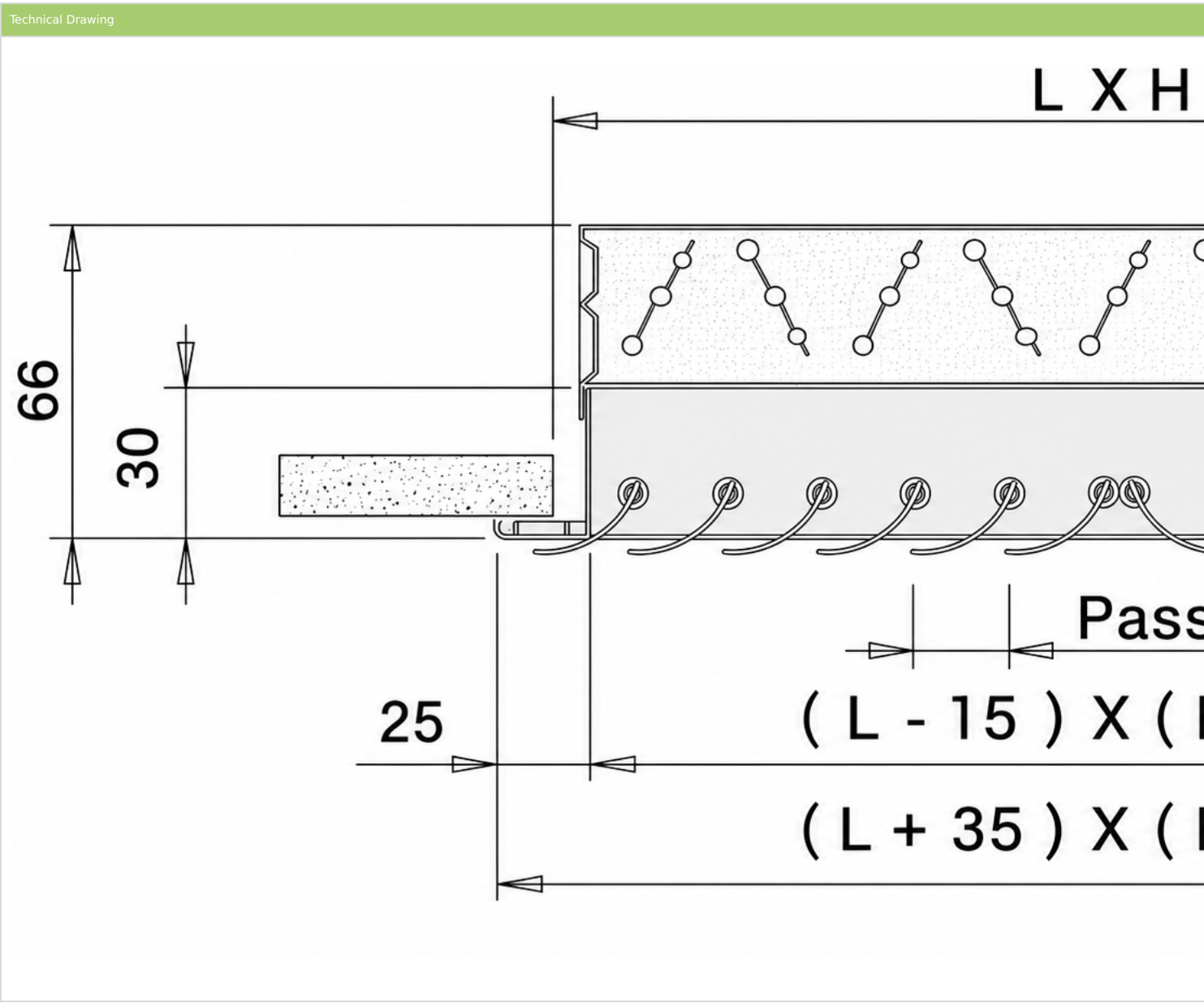
### Use

Diffuser suitable for systems with low ceilings or where it is necessary to exploit the coanda effect (ceiling effect). It is also possible to adjust the air throw direction.

### Accessories

- EPZ galvanised plenum box;
- EPI insulated plenum box;
- SC volume damper with opposite blades;
- CT galvanised steel mounting-frame.

## Diffuser Dimensions



Operating Data

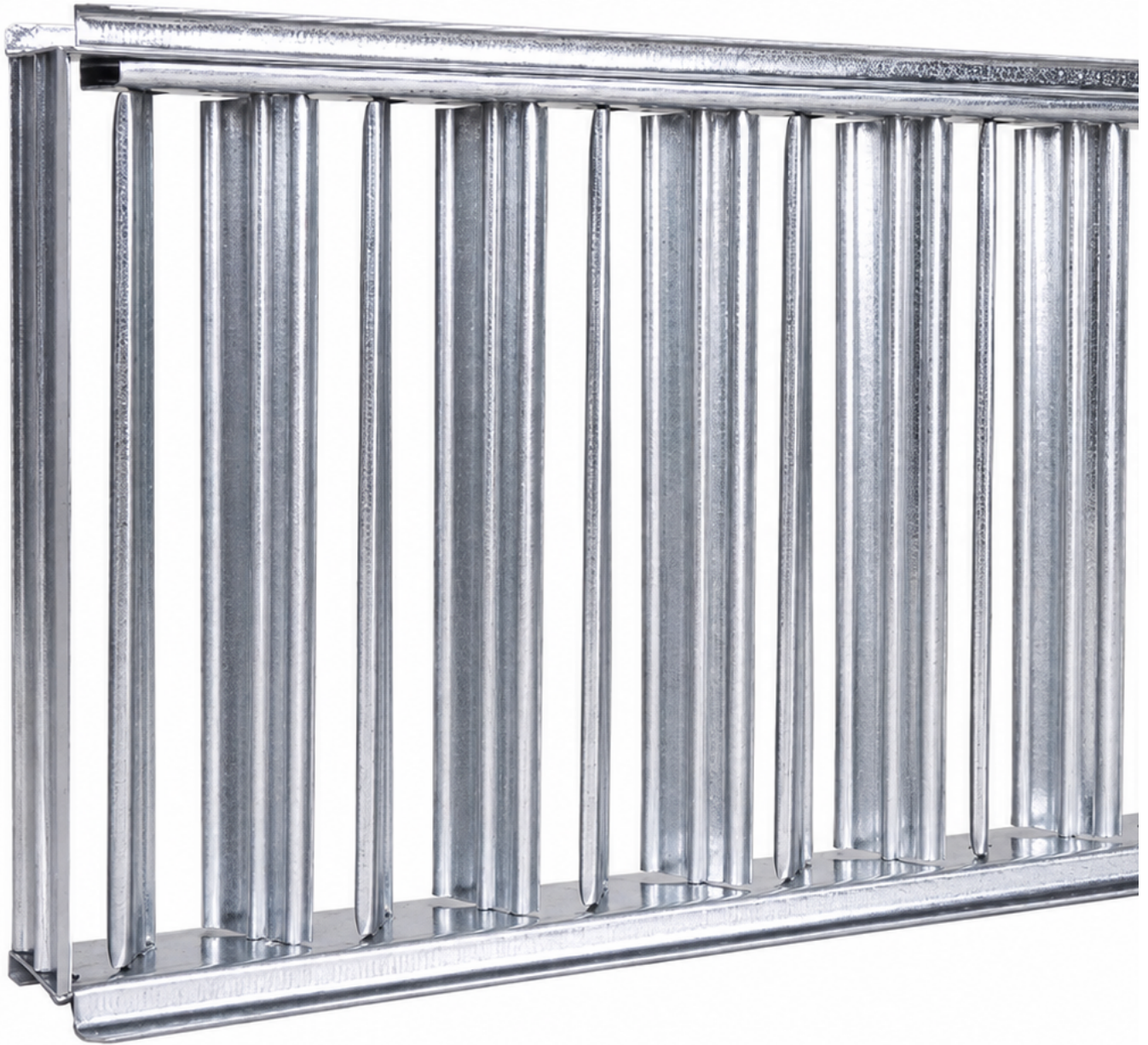
- $V_k$ : effective speed (m/s).
- $m^3/h$ : flow rate.
- Pa: pressure drops in Pascal.
- L(m): horizontal air-throw in metres calculated on ceiling installation, terminal velocity 0.25 m/s.
- dB(A): noise level.

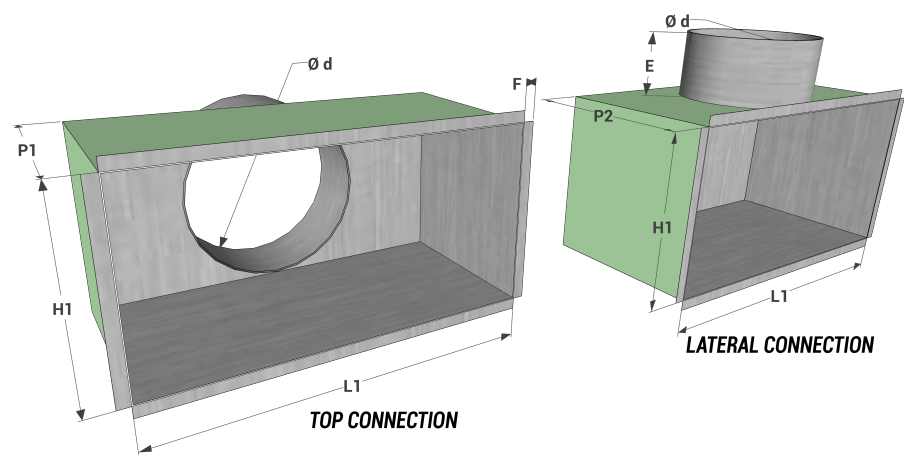
| Dimensions<br>LxH | Effective<br>Cross-<br>Section<br>(m2) | $V_k$ (m/s) | 3   | 5   | 7   | Dimensions<br>LxH | Effective<br>Cross-<br>Section<br>(m2) | $V_k$ (m/s) | 3    | 5    | 7    |
|-------------------|----------------------------------------|-------------|-----|-----|-----|-------------------|----------------------------------------|-------------|------|------|------|
| 200x100           | 0,0074                                 | $m^3/h$     | 80  | 133 | 187 | 400x200           | 0,0269                                 | $m^3/h$     | 290  | 483  | 677  |
|                   |                                        | L(m)        | 2   | 3,5 | 5,3 |                   |                                        | L(m)        | 2,4  | 3,5  | 6,5  |
|                   |                                        | Pa          | 7   | 17  | 30  |                   |                                        | Pa          | 7    | 20   | 39   |
|                   |                                        | dB(A)       | <20 | 24  | 32  |                   |                                        | dB(A)       | <20  | 33   | 40   |
| 300x100           | 0,0111                                 | $m^3/h$     | 120 | 200 | 280 | 500x200           | 0,0324                                 | $m^3/h$     | 350  | 583  | 817  |
|                   |                                        | L(m)        | 1,8 | 3,7 | 5   |                   |                                        | L(m)        | 2,5  | 4,3  | 6,8  |
|                   |                                        | Pa          | 6   | 17  | 30  |                   |                                        | Pa          | 7    | 27   | 33   |
|                   |                                        | dB(A)       | <20 | 27  | 34  |                   |                                        | dB(A)       | <20  | 32   | 39   |
| 400x100           | 0,0148                                 | $m^3/h$     | 160 | 267 | 373 | 600x200           | 0,0417                                 | $m^3/h$     | 450  | 750  | 1050 |
|                   |                                        | L(m)        | 2,5 | 4   | 6   |                   |                                        | L(m)        | 2,5  | 5    | 7    |
|                   |                                        | Pa          | 6   | 20  | 30  |                   |                                        | Pa          | 10   | 20   | 40   |
|                   |                                        | dB(A)       | <20 | 29  | 35  |                   |                                        | dB(A)       | 22   | 34   | 43   |
| 500x100           | 0,0185                                 | $m^3/h$     | 200 | 333 | 467 | 300x300           | 0,0324                                 | $m^3/h$     | 350  | 583  | 817  |
|                   |                                        | L(m)        | 2,3 | 4   | 5,8 |                   |                                        | L(m)        | 2,5  | 4,3  | 6,8  |
|                   |                                        | Pa          | 7   | 17  | 32  |                   |                                        | Pa          | 7    | 27   | 33   |
|                   |                                        | dB(A)       | <20 | 28  | 37  |                   |                                        | dB(A)       | <20  | 32   | 39   |
| 600x100           | 0,0213                                 | $m^3/h$     | 230 | 383 | 537 | 400x300           | 0,0417                                 | $m^3/h$     | 450  | 750  | 1050 |
|                   |                                        | L(m)        | 2,3 | 4   | 6   |                   |                                        | L(m)        | 2,5  | 5    | 7    |
|                   |                                        | Pa          | 6   | 17  | 30  |                   |                                        | Pa          | 10   | 20   | 40   |
|                   |                                        | dB(A)       | <20 | 28  | 37  |                   |                                        | dB(A)       | 22   | 34   | 43   |
| 300x150           | 0,0167                                 | $m^3/h$     | 180 | 300 | 420 | 500x300           | 0,0546                                 | $m^3/h$     | 590  | 983  | 1377 |
|                   |                                        | L(m)        | 2,3 | 4   | 6   |                   |                                        | L(m)        | 2,7  | 4,8  | 6,5  |
|                   |                                        | Pa          | 6   | 17  | 35  |                   |                                        | Pa          | 7    | 20   | 32   |
|                   |                                        | dB(A)       | <20 | 28  | 37  |                   |                                        | dB(A)       | 25   | 35   | 42   |
| 400x150           | 0,0213                                 | $m^3/h$     | 230 | 383 | 537 | 600x300           | 0,0630                                 | $m^3/h$     | 680  | 1133 | 1587 |
|                   |                                        | L(m)        | 2,3 | 4   | 6   |                   |                                        | L(m)        | 2,4  | 4,3  | 6,7  |
|                   |                                        | Pa          | 6   | 17  | 30  |                   |                                        | Pa          | 6    | 17   | 28   |
|                   |                                        | dB(A)       | <20 | 28  | 37  |                   |                                        | dB(A)       | 22   | 33   | 41   |
| 500x150           | 0,0269                                 | $m^3/h$     | 290 | 483 | 677 | 400x400           | 0,0546                                 | $m^3/h$     | 590  | 983  | 1377 |
|                   |                                        | L(m)        | 2,4 | 3,5 | 6,5 |                   |                                        | L(m)        | 2,7  | 4,8  | 6,5  |
|                   |                                        | Pa          | 7   | 20  | 39  |                   |                                        | Pa          | 7    | 20   | 32   |
|                   |                                        | dB(A)       | <20 | 33  | 40  |                   |                                        | dB(A)       | 25   | 35   | 42   |
| 600x150           | 0,0324                                 | $m^3/h$     | 350 | 583 | 817 | 500x500           | 0,0880                                 | $m^3/h$     | 950  | 1583 | 2217 |
|                   |                                        | L(m)        | 2,5 | 4,3 | 6,8 |                   |                                        | L(m)        | 2,8  | 5    | 7,2  |
|                   |                                        | Pa          | 7   | 27  | 33  |                   |                                        | Pa          | 6    | 17   | 30   |
|                   |                                        | dB(A)       | <20 | 32  | 39  |                   |                                        | dB(A)       | 24   | 34   | 43   |
| 300x200           | 0,0213                                 | $m^3/h$     | 230 | 383 | 537 | 600x600           | 0,1259                                 | $m^3/h$     | 1360 | 2267 | 3173 |
|                   |                                        | L(m)        | 2,3 | 4   | 6   |                   |                                        | L(m)        | 2,5  | 5,5  | 8    |
|                   |                                        | Pa          | 6   | 17  | 30  |                   |                                        | Pa          | 5    | 20   | 30   |
|                   |                                        | dB(A)       | <20 | 28  | 37  |                   |                                        | dB(A)       | 23   | 39   | 44   |

## Accessories

### SC - Volume Damper

This accessory allows the airflow supplied through the diffuser to be reduced, ensuring accurate airflow balancing. The damper is attached to the diffuser using the clips supplied with the diffuser. Opposed-blade balancing damper manufactured from galvanized steel. Maximum one-piece construction dimensions (L × H): 1000 × 600 mm.





| Models<br>L1xH1 | Top Connection |                    |     | Lateral Connection |                    |     | E  | F  | Models<br>L1xH1 | Top Connection |                    |     | Lateral Connection |                    |     | E  | F  |
|-----------------|----------------|--------------------|-----|--------------------|--------------------|-----|----|----|-----------------|----------------|--------------------|-----|--------------------|--------------------|-----|----|----|
|                 | P1             | Nr.<br>Connections | Ø d | P2                 | Nr.<br>Connections | Ø d |    |    |                 | P1             | Nr.<br>Connections | Ø d | P2                 | Nr.<br>Connections | Ø d |    |    |
| 200x100         | 200            | 1                  | 98  | 200                | 1                  | 98  | 80 | 12 | 400x200         | 200            | 1                  | 198 | 300                | 1                  | 198 | 80 | 12 |
| 300x100         | 200            | 1                  | 98  | 200                | 1                  | 98  | 80 | 12 | 500x200         | 200            | 1                  | 198 | 300                | 1                  | 198 | 80 | 12 |
| 400x100         | 200            | 2                  | 98  | 200                | 2                  | 98  | 80 | 12 | 600x200         | 200            | 2                  | 198 | 300                | 2                  | 198 | 80 | 12 |
| 500x100         | 200            | 2                  | 98  | 200                | 2                  | 98  | 80 | 12 | 300x300         | 200            | 1                  | 248 | 350                | 1                  | 248 | 80 | 12 |
| 600x100         | 200            | 2                  | 98  | 200                | 2                  | 98  | 80 | 12 | 400x300         | 200            | 1                  | 248 | 350                | 1                  | 248 | 80 | 12 |
| 300x150         | 200            | 1                  | 148 | 250                | 1                  | 148 | 80 | 12 | 500x300         | 200            | 1                  | 248 | 350                | 1                  | 248 | 80 | 12 |
| 400x150         | 200            | 1                  | 148 | 250                | 1                  | 148 | 80 | 12 | 600x300         | 200            | 2                  | 198 | 350                | 2                  | 248 | 80 | 12 |
| 500x150         | 200            | 2                  | 148 | 250                | 2                  | 148 | 80 | 12 | 400x400         | 200            | 1                  | 298 | 400                | 1                  | 298 | 80 | 12 |
| 600x150         | 200            | 2                  | 148 | 250                | 2                  | 148 | 80 | 12 | 500x500         | 200            | 2                  | 248 | 400                | 2                  | 248 | 80 | 12 |
| 300x200         | 200            | 1                  | 198 | 300                | 1                  | 198 | 80 | 12 | 600x600         | 200            | 2                  | 298 | 400                | 2                  | 298 | 80 | 12 |

Price List

Painting:

- Gloss RAL 9016: +20%.
- Gloss RAL 7035, 9006, 9003, 9005: +30%.
- Other RAL colors: price on request.

| Dimensions L1xH1 | EDC1   | EDC2   | EDC3   | EDC4   | EDC5   | EDC6   | SC - Volume Damper | CT - Mounting-frame |
|------------------|--------|--------|--------|--------|--------|--------|--------------------|---------------------|
|                  | €      | €      | €      | €      | €      | €      | €                  | €                   |
| 200x100          | 32,18  | 32,18  | 35,15  | 35,15  | -      | -      | 14,15              | 15,12               |
| 300x100          | 34,02  | 34,02  | 36,99  | 36,99  | -      | -      | 15,41              | 15,12               |
| 400x100          | 36,76  | 36,76  | 42,47  | 42,47  | -      | -      | 18,44              | 16,79               |
| 500x100          | 39,54  | 39,54  | 43,46  | 43,46  | -      | -      | 22,01              | 18,47               |
| 600x100          | 42,30  | 42,30  | 46,22  | 46,22  | -      | -      | 25,18              | 20,19               |
| 300x150          | 47,81  | 47,81  | 51,80  | 51,80  | -      | -      | 18,06              | 16,79               |
| 400x150          | 50,55  | 50,55  | 55,49  | 55,49  | -      | -      | 21,28              | 18,47               |
| 500x150          | 53,32  | 53,32  | 58,28  | 58,28  | -      | -      | 24,64              | 22,16               |
| 600x150          | 54,26  | 54,26  | 60,11  | 60,11  | -      | -      | 28,08              | 24,19               |
| 300x200          | 50,55  | 50,55  | 55,18  | 55,18  | 75,85  | 75,85  | 23,98              | 18,47               |
| 400x200          | 54,26  | 54,26  | 60,11  | 60,11  | 81,37  | 81,37  | 26,32              | 21,35               |
| 500x200          | 60,67  | 60,67  | 66,58  | 66,58  | 91,04  | 91,04  | 30,92              | 24,19               |
| 600x200          | 66,20  | 66,20  | 72,61  | 72,61  | 99,34  | 99,34  | 35,62              | 25,91               |
| 300x300          | 69,88  | 69,88  | 78,60  | 78,60  | 104,83 | 104,83 | 29,76              | 22,16               |
| 400x300          | 75,39  | 75,39  | 83,21  | 83,21  | 113,08 | 113,08 | 36,84              | 25,91               |
| 500x300          | 81,83  | 81,83  | 89,72  | 89,72  | 122,75 | 122,75 | 40,56              | 29,57               |
| 600x300          | 89,20  | 89,20  | 97,88  | 98,36  | 133,81 | 133,81 | 44,34              | 31,31               |
| 400x400          | 100,55 | 100,55 | 110,33 | 110,33 | 154,41 | 154,41 | 42,19              | 29,57               |
| 500x500          | 136,39 | 136,39 | 148,65 | 148,65 | 204,62 | 204,62 | 65,57              | 36,97               |
| 600x600          | 178,52 | 178,52 | 196,67 | 196,67 | 270,10 | 270,10 | 81,41              | 44,03               |

Accessories

| Model<br>L1 x H1 | Plenum box with Top Connection |                            | Plenum box with Lateral Connection |                            | Model<br>L1 x H1 | Plenum box with Top Connection |                            | Plenum box with Lateral Connection |                            |
|------------------|--------------------------------|----------------------------|------------------------------------|----------------------------|------------------|--------------------------------|----------------------------|------------------------------------|----------------------------|
|                  | EPZ - Plenum Box               | EPI - Insulated Plenum Box | EPZ - Plenum Box                   | EPI - Insulated Plenum Box |                  | EPZ - Plenum Box               | EPI - Insulated Plenum Box | EPZ - Plenum Box                   | EPI - Insulated Plenum Box |
| 200x100          | 31,29                          | 43,48                      | 31,29                              | 43,48                      | 400x200          | 41,72                          | 57,15                      | 47,32                              | 64,67                      |
| 300x100          | 33,85                          | 46,96                      | 33,85                              | 46,96                      | 500x200          | 44,76                          | 61,27                      | 51,31                              | 69,98                      |
| 400x100          | 36,45                          | 59,19                      | 44,84                              | 59,19                      | 600x200          | 59,03                          | 81,21                      | 74,86                              | 95,68                      |
| 500x100          | 47,43                          | 62,67                      | 47,43                              | 62,67                      | 300x300          | 42,85                          | 58,39                      | 51,24                              | 69,74                      |
| 600x100          | 41,64                          | 66,14                      | 50,03                              | 66,14                      | 400x300          | 57,55                          | 74,78                      | 67,34                              | 87,92                      |
| 300x150          | 35,77                          | 49,96                      | 38,37                              | 52,83                      | 500x300          | 61,07                          | 79,49                      | 72,22                              | 94,52                      |
| 400x150          | 39,08                          | 53,83                      | 41,64                              | 57,27                      | 600x300          | 72,30                          | 92,24                      | 80,69                              | 103,51                     |
| 500x150          | 50,32                          | 66,30                      | 53,35                              | 70,38                      | 400x400          | 62,15                          | 80,81                      | 77,05                              | 100,84                     |
| 600x150          | 44,72                          | 70,06                      | 56,63                              | 74,78                      | 500x500          | 86,73                          | 114,62                     | 105,31                             | 139,60                     |
| 300x200          | 38,65                          | 53,03                      | 43,37                              | 59,35                      | 600x600          | 115,62                         | 150,39                     | 137,88                             | 180,33                     |