

# EDSC-C EDSC-CC EDSC-Q Hidden diffuser for gypsum



## Description

Circular or square gypsum diffusers for installation on plasterboard ceilings.

## Features

- Diffusers made of gypsum, paintable central body;
- Plastic connection sleeve with silicone gaskets;
- Steel adjustment screws;
- Easy and quick installation;
- Suitable for installation on single and double plasterboard, and for non-standard thicknesses;
- Adjustment damper already included;
- Safety packaging, no damage during transport;
- Safety cable already included;
- Central body fixed by magnets;

## Model

- EDSC-C - Circular hidden diffusers for gypsum;
- EDSC-CC- Circular hidden diffusers with coanda effect for gypsum;
- EDSC-Q - Square hidden diffusers for plasterboard.

## Accessories

- EPZ-DC - Galvanised plenum box;
- EPI-DC - Insulated plenum box;
- EARS-PN - Galvanised plenum box for connection with HTPE pipes;

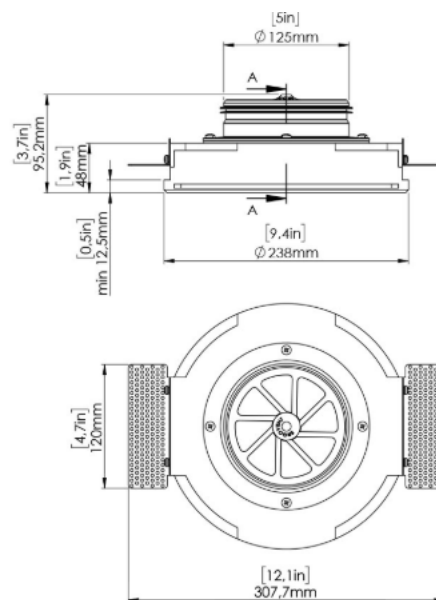
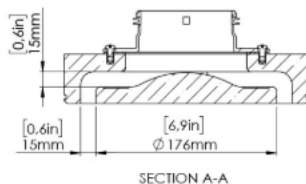
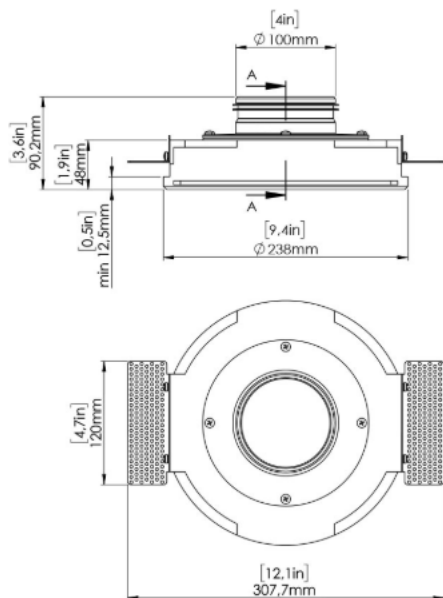
## Note

More information on flow rates, pressure drops, and installation methods are available in the technical datasheet in the "Documentation" section.

## EDSC-C - Dimensions

Ø 100 MM

Ø 125 MM



EDSC-C operating Data

| Model          |                  | Unit of Measurement | D0  |     |     | D1  |     |     | D2  |     |     | D3  |     |     | D4  |     |     | D5  |     |     | D6  |     |     | D7  |     |     |
|----------------|------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| EDSC-C 100     | Air flow supply  | m³/h                | 72  | 88  | 106 | 58  | 77  | 93  | 50  | 66  | 82  | 40  | 52  | 65  | 38  | 47  | 60  | 37  | 45  | 57  | 33  | 41  | 52  | n/a | n/a | n/a |
|                | Pressure Drop    | Pa                  | 15  | 25  | 57  | 16  | 27  | 62  | 22  | 40  | 75  | 50  | 84  | 135 | 80  | 115 | 160 | 110 | 150 | 198 | 350 | 400 | 520 | n/a | n/a | n/a |
|                | Air flow Exhaust | m³/h                | 72  | 88  | 105 | 72  | 87  | 103 | 69  | 84  | 105 | 62  | 78  | 94  | 54  | 70  | 86  | 48  | 62  | 77  | 33  | 40  | 50  | n/a | n/a | n/a |
|                | Pressure Drop    | Pa                  | 13  | 22  | 40  | 20  | 30  | 63  | 29  | 50  | 100 | 56  | 105 | 171 | 110 | 170 | 270 | 170 | 220 | 370 | 400 | 510 | 650 | n/a | n/a | n/a |
| EDSC-C 125     | Air flow supply  | m³/h                | 56  | 67  | 77  | 49  | 57  | 68  | 47  | 56  | 65  | 45  | 52  | 60  | 38  | 44  | 52  | 27  | 35  | 42  | 14  | 27  | 31  | 8   | 15  | 19  |
|                | Pressure Drop    | Pa                  | 14  | 19  | 28  | 14  | 19  | 27  | 15  | 21  | 27  | 16  | 22  | 29  | 17  | 23  | 31  | 12  | 18  | 27  | 22  | 20  | 30  | 20  | 30  | 45  |
|                | Air flow Exhaust | m³/h                | 88  | 102 | 123 | 53  | 64  | 78  | 51  | 60  | 70  | 42  | 51  | 60  | 37  | 45  | 54  | 27  | 32  | 39  | 26  | 29  | 36  | 8   | 11  | 18  |
|                | Pressure Drop    | Pa                  | 17  | 24  | 35  | 12  | 17  | 26  | 14  | 19  | 28  | 14  | 18  | 26  | 15  | 21  | 30  | 12  | 17  | 25  | 15  | 21  | 30  | 30  | 39  | 50  |
| EDSC-C 160     | Air flow supply  | m³/h                | 92  | 115 | 125 | 89  | 105 | 120 | 78  | 91  | 117 | 71  | 83  | 99  | 69  | 80  | 91  | 51  | 61  | 73  | 47  | 53  | 61  | 15  | 21  | 25  |
|                | Pressure Drop    | Pa                  | 14  | 25  | 27  | 14  | 23  | 27  | 13  | 20  | 27  | 14  | 21  | 27  | 16  | 19  | 30  | 14  | 19  | 29  | 16  | 20  | 30  | 16  | 20  | 35  |
|                | Air flow Exhaust | m³/h                | 142 | 155 | 180 | 140 | 150 | 175 | 120 | 145 | 165 | 108 | 127 | 158 | 100 | 115 | 137 | 75  | 90  | 108 | 51  | 61  | 71  | 30  | 34  | 43  |
|                | Pressure Drop    | Pa                  | 22  | 30  | 40  | 22  | 30  | 40  | 20  | 28  | 39  | 20  | 28  | 40  | 24  | 32  | 46  | 25  | 32  | 50  | 29  | 41  | 60  | 52  | 82  | 110 |
| Potenza sonora |                  | db(A)               | 20  | 25  | 30  | 20  | 25  | 30  | 20  | 25  | 30  | 20  | 25  | 30  | 20  | 25  | 30  | 20  | 25  | 30  | 20  | 25  | 30  | 20  | 25  | 30  |

D0



Senza serranda

No damper

D1



1 segmento

1 segment

D2



2 segmenti

2 segments

D3



3 segmenti

3 segments

D4



4 segmenti

4 segments

D5



4 segmenti

+ 25%

4 segments

+ 25%

D6



4 segmenti

+ 50%

4 segments

+ 50%

D7



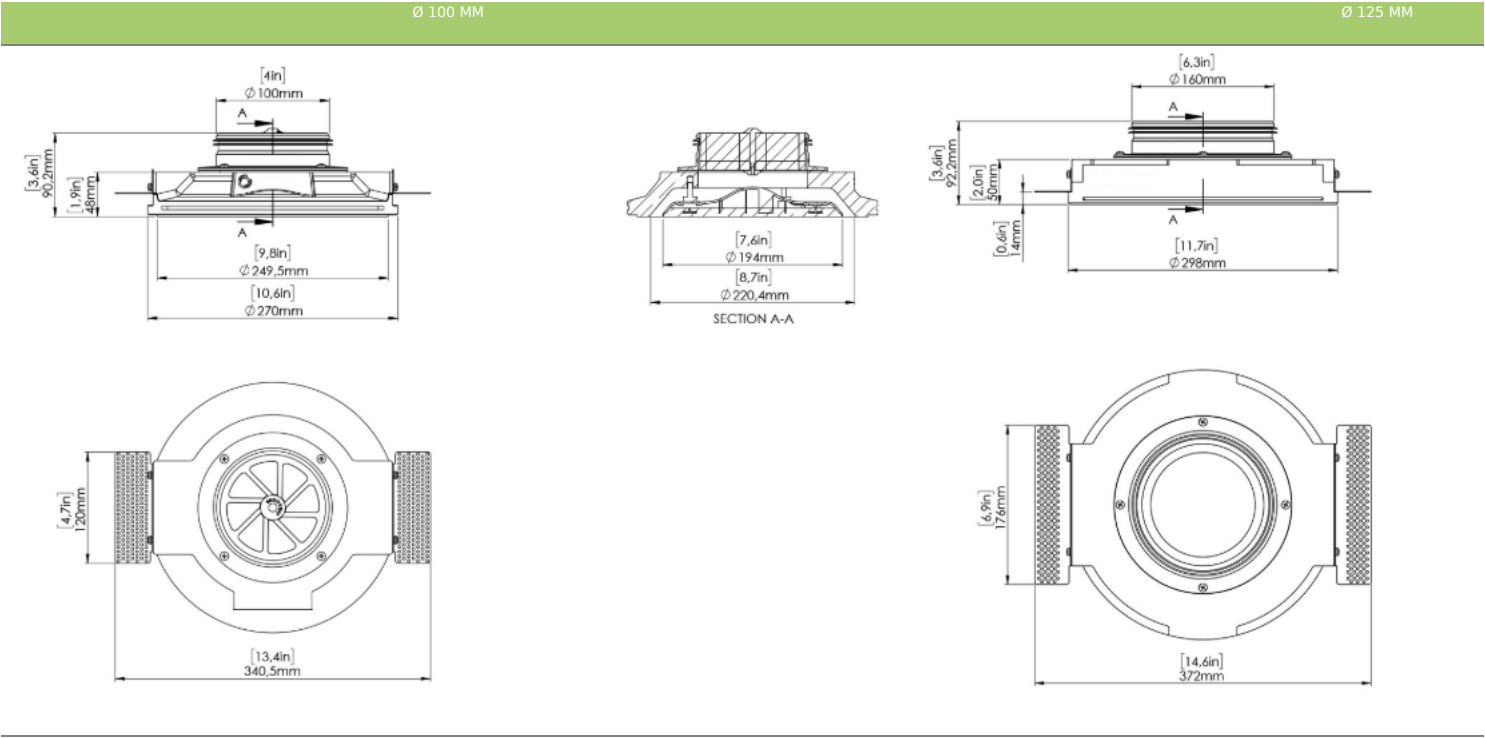
4 segmenti

+ 75%

4 segments

+ 75%

EDSC-CC - Dimensions



Dati di funzionamento EDSC-CC

| Model          |                  | Unit of Measurement | D0  |     |     | D1 |    |    | D2 |    |    | D3 |    |    | D4 |    |    | D5 |    |    | D6  |     |     | D7  |     |     |
|----------------|------------------|---------------------|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| EDSC-CC 100    | Air flow supply  | m³/h                | 52  | 81  | 74  | 37 | 48 | 58 | 35 | 40 | 47 | 31 | 40 | 46 | 20 | 25 | 30 | 15 | 19 | 22 | 11  | 14  | 16  | n/a | n/a | n/a |
|                | Pressure Drop    | Pa                  | 15  | 20  | 28  | 23 | 28 | 33 | 32 | 31 | 57 | 27 | 26 | 31 | 19 | 30 | 43 | 45 | 57 | 77 | 110 | 140 | 200 | n/a | n/a | n/a |
|                | Air flow Exhaust | m³/h                | 88  | 98  | 115 | 45 | 50 | 62 | 34 | 41 | 50 | 30 | 43 | 52 | 29 | 35 | 41 | 18 | 21 | 28 | 13  | 18  | 21  | n/a | n/a | n/a |
|                | Pressure Drop    | Pa                  | 23  | 37  | 51  | 22 | 28 | 38 | 25 | 46 | 65 | 29 | 60 | 91 | 33 | 72 | 95 | 35 | 52 | 93 | 97  | 154 | 200 | n/a | n/a | n/a |
| EDSC-CC 125    | Air flow supply  | m³/h                | 72  | 86  | 99  | 52 | 64 | 78 | 50 | 58 | 69 | 46 | 53 | 62 | 29 | 37 | 44 | 24 | 28 | 32 | 17  | 19  | 22  | 8   | 10  | 13  |
|                | Pressure Drop    | Pa                  | 14  | 19  | 26  | 13 | 17 | 26 | 13 | 12 | 23 | 14 | 13 | 16 | 9  | 14 | 21 | 13 | 19 | 25 | 17  | 26  | 37  | 27  | 37  | 51  |
|                | Air flow Exhaust | m³/h                | 120 | 136 | 162 | 63 | 72 | 88 | 49 | 60 | 72 | 44 | 58 | 70 | 42 | 51 | 60 | 29 | 34 | 41 | 22  | 24  | 28  | 9   | 12  | 14  |
|                | Pressure Drop    | Pa                  | 22  | 35  | 49  | 13 | 28 | 40 | 13 | 25 | 38 | 14 | 29 | 42 | 14 | 30 | 42 | 14 | 20 | 39 | 20  | 34  | 49  | 40  | 75  | 115 |
| Potenza sonora |                  | db(A)               | 20  | 25  | 30  | 20 | 25 | 30 | 20 | 25 | 30 | 20 | 25 | 30 | 20 | 25 | 30 | 20 | 25 | 30 | 20  | 25  | 30  | 20  | 25  | 30  |

D0



Senza serranda

No damper

D1



1 segmento

1 segment

D2



2 segmenti

2 segments

D3



3 segmenti

3 segments

D4



4 segmenti

4 segments

D5



4 segmenti

+ 25%

4 segments

+ 25%

D6



4 segmenti

+ 50%

4 segments

+ 50%

D7



4 segmenti

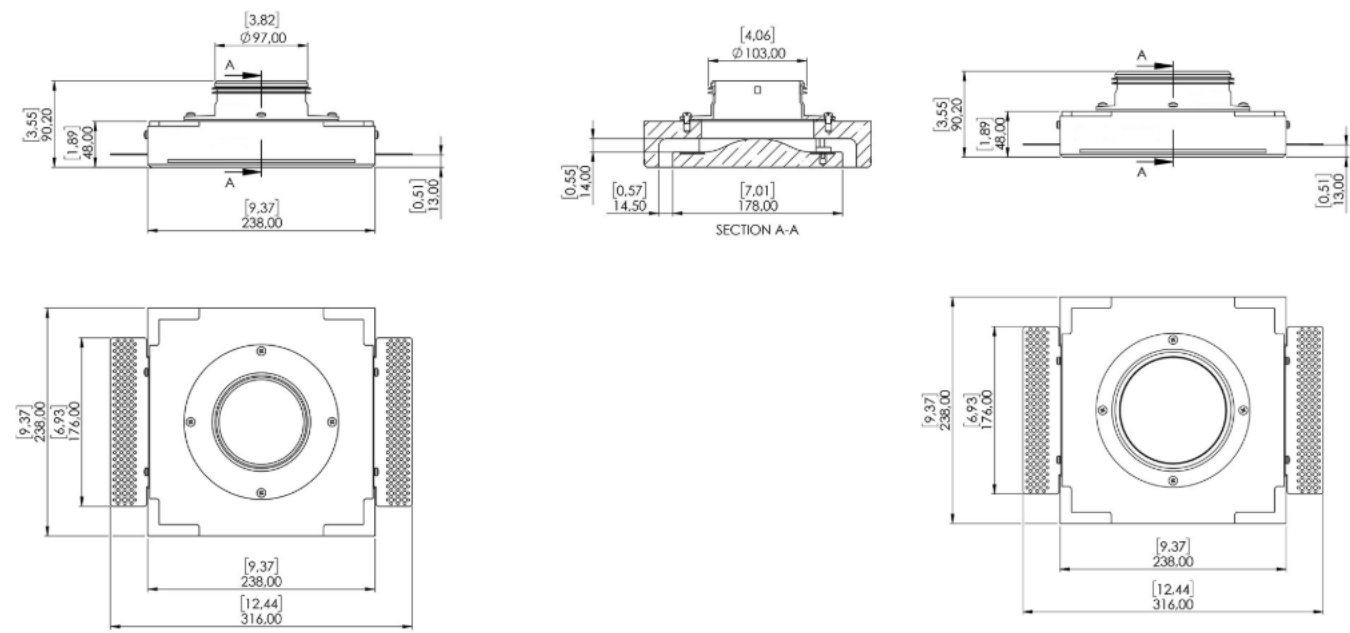
+ 75%

4 segments

+ 75%

EDSC-Q Dimensions

|          |          |
|----------|----------|
| Ø 100 MM | Ø 125 MM |
|----------|----------|



EDSC-Q operating Data

| Model          |                  | Unit of Measurement | D0 |    |     | D1 |    |     | D2 |    |     | D3 |    |     | D4 |     |     | D5 |     |     | D6  |     |     | D7  |     |     |
|----------------|------------------|---------------------|----|----|-----|----|----|-----|----|----|-----|----|----|-----|----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|
| EDSC-Q 100     | Air flow supply  | m³/h                | 75 | 90 | 108 | 51 | 65 | 81  | 29 | 58 | 70  | 40 | 51 | 62  | 37 | 48  | 57  | 35 | 42  | 52  | 32  | 41  | 49  | n/a | n/a | n/a |
|                | Pressure Drop    | Pa                  | 14 | 22 | 30  | 23 | 27 | 40  | 45 | 40 | 49  | 42 | 58 | 75  | 55 | 75  | 100 | 90 | 135 | 180 | 250 | 400 | 600 | n/a | n/a | n/a |
|                | Air flow Exhaust | m³/h                | 77 | 91 | 110 | 69 | 84 | 102 | 61 | 78 | 94  | 53 | 69 | 88  | 48 | 62  | 175 | 42 | 43  | 54  | 28  | 38  | 49  | n/a | n/a | n/a |
|                | Pressure Drop    | Pa                  | 13 | 13 | 29  | 26 | 35 | 50  | 37 | 48 | 83  | 49 | 75 | 130 | 65 | 100 | 80  | 85 | 130 | 175 | 190 | 300 | 512 | n/a | n/a | n/a |
| EDSC-Q 125     | Air flow supply  | m³/h                | 75 | 90 | 108 | 61 | 79 | 96  | 52 | 68 | 84  | 47 | 60 | 75  | 44 | 55  | 69  | 41 | 50  | 63  | 37  | 45  | 58  | 34  | 41  | 52  |
|                | Pressure Drop    | Pa                  | 12 | 20 | 32  | 14 | 23 | 35  | 18 | 26 | 40  | 23 | 30 | 45  | 27 | 37  | 51  | 35 | 48  | 70  | 50  | 75  | 105 | 160 | 200 | 500 |
|                | Air flow Exhaust | m³/h                | 75 | 90 | 108 | 74 | 98 | 108 | 74 | 96 | 104 | 70 | 85 | 102 | 66 | 82  | 99  | 61 | 55  | 93  | 52  | 67  | 83  | 35  | 42  | 54  |
|                | Pressure Drop    | Pa                  | 13 | 20 | 37  | 17 | 25 | 40  | 20 | 27 | 45  | 24 | 35 | 52  | 27 | 40  | 70  | 35 | 77  | 110 | 52  | 100 | 190 | 150 | 220 | 360 |
| Potenza sonora |                  | db(A)               | 20 | 25 | 30  | 20 | 25 | 30  | 20 | 25 | 30  | 20 | 25 | 30  | 20 | 25  | 30  | 20 | 25  | 30  | 20  | 25  | 30  | 20  | 25  | 30  |

D0



Senza serranda

No damper

D1



1 segmento

1 segment

D2



2 segmenti

2 segments

D3



3 segmenti

3 segments

D4



4 segmenti

4 segments

D5



4 segmenti

+ 25%

4 segments

+ 25%

D6



4 segmenti

+ 50%

4 segments

+ 50%

D7



4 segmenti

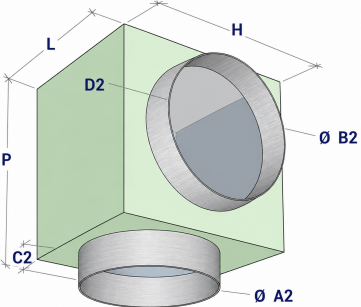
+ 75%

4 segments

+ 75%

EPZ-DC - EPI-DC - Plenum Box

All measures are expressed in mm.

| Technical Drawing                                                                   | Model | L   | H   | P   | Ø A2 Diffuser | Ø B2 Duct | Flexible or Rigid | Model |
|-------------------------------------------------------------------------------------|-------|-----|-----|-----|---------------|-----------|-------------------|-------|
|  | 100   | 200 | 200 | 200 | 102           | 100       | 70                | 100   |
|                                                                                     | 125   | 200 | 200 | 200 | 127           | 125       | 70                | 100   |
|                                                                                     | 160   | 250 | 250 | 250 | 162           | 155       | 70                | 100   |

Price List

| Model | EDSC-C | EDSC-Q | EDSC-CC | EPZ-DC - Galvanised Plenum Box | EPI-DC - Insulated Plenum Box | EARS-PN |
|-------|--------|--------|---------|--------------------------------|-------------------------------|---------|
|       | €      | €      | €       | €                              | €                             | €       |
| 100   | -      | -      | -       | -                              | -                             | -       |
| 125   | -      | -      | -       | -                              | -                             | -       |
| 160   | -      | -      | -       | -                              | -                             | -       |