

ER EC 2.1

Design example for decentralised air extraction in accordance with DIN 18017-3

Prerequisite:

- Fans with 60m³/h in the connection duct.
- 2 fans per full storey.
- Building with 11 storeys.

Procedure:

- In the diagram for 2 fans per storey with 60 m³/h each, read "11 storeys" on the y-axis – corresponding main duct diameter 225 mm.

ER EC 60 m³/h and ER 60 60 m³/h, one unit per full storey*

- ① Number of storeys
- ② Main duct diameter in mm
- ① maximum of 2 elbows

ER EC 40 m³/h, one unit per full storey*

- ① Number of storeys
- ② Main duct diameter in mm
- ① maximum of 2 elbows

ER EC 60 m³/h and ER 60 60 m³/h, two units per full storey*

- ① Number of storeys
- ② Main duct diameter in mm
- ① maximum of 2 elbows

ER EC 40 m³/h, two units per full storey*

- ① Number of storeys
- ② Main duct diameter in mm
- ① maximum of 2 elbows

ER EC 100 m³/h and ER 100 100 m³/h, one unit per full storey*

- ① Number of storeys
- ② Main duct diameter in mm
- ① maximum of 2 elbows

ER EC 100 m³/h and ER 100 100 m³/h, two units per full storey*

- ① Number of storeys
- ② Main duct diameter in mm
- ① maximum of 2 elbows

*Design with a coincidence factor of 100 %.

Please note:

- The selection diagrams above do not apply to the Centro central air extraction system. Please observe separate planning instructions.
- For increased acoustic requirements, observe flow velocities.