

Small & Constant Exhaust Grilles

Self-balanced systems: General Information



Green
Product

AIRFLOW REQUIREMENTS

In a self-balancing CMEV system, the grilles and air inlets are self-balanced, guaranteeing a constant airflow whatever the atmospheric conditions or the occupation of the rooms.

The ventilation system must allow to reach the airflow levels given in the table opposite to be reached.

ACOUSTICS REQUIREMENTS

The acoustics regulations set results to be achieved. The product requirements so also depend on other housing parameters (surface area of the room etc.)

AIRFLOW REQUIREMENTS

Apartment type	Total min.	Kitchen min.	Kitchen max.	Bathroom	Other sanitary area	WC	
						single	multiple
Studio	35	20	75	15	15	15	15
T2	60	30	90	15	15	15	15
2 bed.	75	45	105	30	15	15	15
3 bed.	90	45	120	30	15	30	15
4-bed.	105	45	135	30	15	30	15
5 bed.	120	45	135	30	15	30	15
6 bed.	135	45	135	30	15	30	15

FRENCH ACOUSTICS REQUIREMENTS

Demand bearing upon	Requirement of the result	Demand on the grille
Equipment noise	LnAT < 35 dB (A) in the kitchen	Lw < 38 dB (A) if the kitchen surface area > 10 m²
	LnAT < 30 dB (A) in the main room	Lw < 38 dB (A) if the kitchen surface area > 30 m² for opening on to the living room.
Insulation between dwellings	DnT, A > 50 dB in kitchen and bathroom	The demand on the Dnew (C) depends on the room surface area and the manifold diameter.
	DnT, A > 53 dB in the main room	

Aeraulic sizing

APPLICATION

- Self-balanced CMEV.
- Residential housing and commercial premises.
- New and renovation.

DESCRIPTION

Self-balanced CMEV

- Type of heating: electricity, gas (boiler with sealed chamber) or other device independent from the CMEV.

Self-balanced CMEV with compensation valve

- Type of heating: electricity, gas (boiler with sealed chamber) or other device independent from the CMEV.
- Dimensioning of the air inlets to minimum airflow.

Self-balanced CMEV for gas applications

- Type of heating: boiler connected to the CMEV.

APPLICATION

Type of dwelling	Kitchen	Bathroom	Single WC	Multiple WC
F1	BAP 20/75	BAP 15	BAP 15	BAP 15
F2	BAP 30/90	BAP 15	BAP 15	BAP 15
F3	BAP 45/105	BAP 30	BAP 15	BAP 15
F4	BAP 45/120	BAP 30	BAP 30	BAP 15
F5 - 3 bedrooms and more	BAP 45/135	BAP 30	BAP 30	BAP 15

Small & Constant Exhaust Grilles

Self-balanced grilles



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Bap'si twin

New

Advantages

- Designed without grille.
- Airflow between 15 and 150 m³/h.
- Modulo: airflow adjustment is possible.

APPLICATION

- Self-balanced Continuous Mechanical Extract Ventilation (CMEV).
- Residential housing and commercial premises.
- New buildings and renovation.

DESCRIPTION

- Self-balanced exhaust grille.
- Innovative design, without grille.
- Airflow between 15 and 150 m³/h.
- Composed of three parts: a technical fitting plate, a regulator, a removable front panel.
- Possibility of choosing from several airflows: the same grille gives several airflow rates:
 - Bap'Si twin 60 Ø 125 modulo (code 11019188) permits airflow rates of 60, 75 and 90 m³/h.
 - Bap'Si twin 100 Ø125 modulo (code 11019191) permits airflow rates of 100, 120 and 150 m³/h.
 - Bap'Si twin 60 without shaft modulo (code 11019197) permits airflow rates of 60, 75 and 90 m³/h.

INSTALLATION

- Pressure range: between 50 and 160 Pa.
- Grille Ø 125 mm for new construction:
 - Fixing by clipping into: sleeve Ø 125 mm, RT Flex, rigid duct Ø 125 mm.
 - The seal (roll in or foam depending on versions) ensures a high level of airtightness and flush fitting against the wall.
- Grille without shaft adapted to the majority of installation configurations for renovation:
 - Fixed by clip on to the shaft Ø 125 mm, Ø 116 mm and Ø 100 mm.
 - Screwed directly on to the wall.

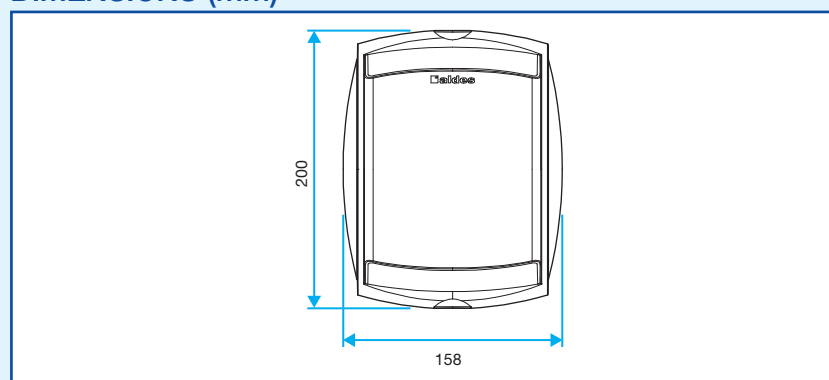
RANGE of Bap'Si twin Ø 125

Description	Code	Pack.
Bap'Si twin 15 Ø 125	11019185	10
Bap'Si twin 30 Ø 125	11019186	10
Bap'Si twin 45 Ø 125	11019187	10
Bap'Si twin 60 Ø 125 modulo	11019188	10
Bap'Si twin 75 Ø 125	11019189	10
Bap'Si twin 90 Ø 125	11019190	10
Bap'Si twin 100 Ø 125 modulo	11019191	5
Bap'Si twin 120 Ø 125	11019192	5
Bap'Si twin 150 Ø 125	11019193	5

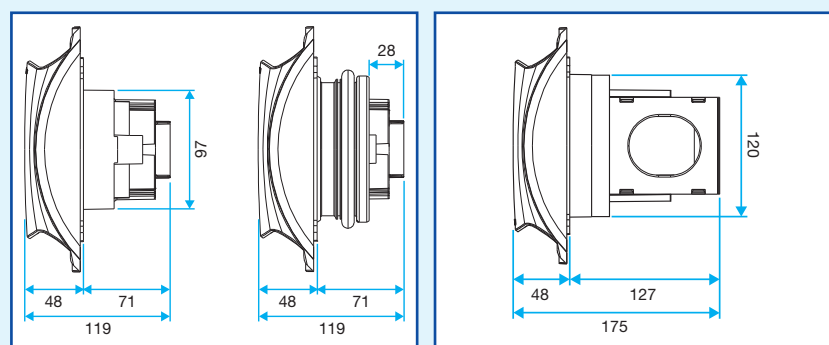
RANGE of Bap'Si twin without shaft

Description	Code	Pack.
Bap'Si twin 15 without shaft	11019194	10
Bap'Si twin 30 without shaft	11019195	10
Bap'Si twin 45 without shaft	11019196	10
Bap'Si twin 60 without shaft modulo	11019197	10
Bap'Si twin 75 without shaft	11019198	10
Bap'Si twin 90 without shaft	11019199	10
Bap'Si twin air supply	11019200	10

DIMENSIONS (mm)



Bap'Si twin front panel



Bap'Si twin 15 to 90 & Bap'Si twin air supply

Bap'Si twin 100 to 150

AIRFLOW DETAILS

