

A smart solution for exhaust ventilation

Since November 2011, Aldes Middle East has launched Bap'SI twin in the UAE/GCC, a new generation of self-balanced grilles that definitely answers airflow restrictions and aesthetic constraints of an exhaust ventilation system.

Bap'SI twin is a **small aesthetic plastic grille with an integrated passive constant airflow regulator**, which allows the removal of pollutants (smells, smokes VOCs, CO2...) from a bathroom or a kitchen, for a perfect Indoor Air Quality.

→BEST PERFORMANCES

Bap'SI twin is a **2 in 1 solution**, replacing a common exhaust diffuser and a common VCD (less material consumption). No need to install small VCDs in the exhaust duct anymore, and **no more need for commissioning** the extract ductwork system.

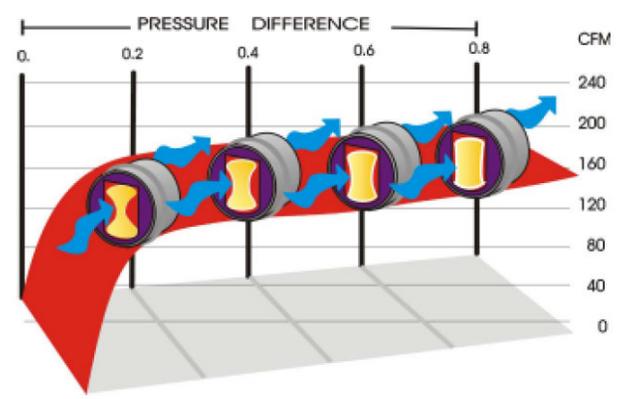


The integrated constant airflow regulator **automatically balances** the right airflow in the exhaust duct as per the design, and independently from system pressures due to the wind, the climate, the building's height (stack effect) to prevent any over-ventilation or under-ventilation... No electric or pneumatic controls. Consequently, Bap'SI twin improves **Indoor Air Quality** while **avoiding any waste of energy**.

How a passive constant airflow regulator works? Cf. Aldes ME Flash – 36

- At minimum differential pressure, the bulb is deflated and has the shape similar to an hourglass.
- As the differential pressure increases across the bulb, the bulb inflates, thereby reducing the free area around the bulb, and increasing the air velocity resulting in a constant airflow ($Q=V.A$).

This occurs regardless of pressure differences in the range of **50 to 160 Pa**



Using Bap'SI twin from Aldes definitely avoids energy waste and improves IAQ while reducing exhaust airflow.



Bap'SI twin can cover an airflow range **from 15 to 150 m³/h**, which allows Aldes Middle East to meet any airflow requirement for extract ventilation.

This innovative product is also available in its **“air supply” version**, which can be installed on the ceiling/wall instead of a ceiling diffuser or a wall grille. It matches the design of the exhaust solution and also avoids any commissioning. This application of Bap'SI twin will improve the noise comfort with a remote constant airflow regulator in AC system.



→ **BEST DESIGN**

Thanks to its elegant design with an aesthetic front panel, Bap'SI range received the French “Janus de l’Industrie” **award** in 2009, along with the Eco-design label for its environmental friendly concept.

Its **innovative design** with front panel and curved shapes definitely allow a perfect indoor integration (in any kind of room), but also contribute to Bap'SI twin’s maximal efficiency and easy maintenance.

In order to definitely serve a perfect indoor integration, Bap'SI twin is available in several colours.



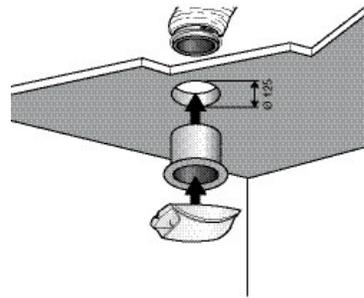
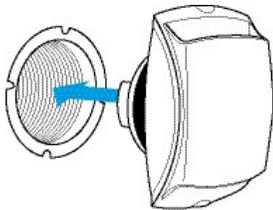
Bap'SI twin can be considered as a highly **sustainable** product. This smart product has a very low impact on the environment due to the fact this plastic grille that replaces 2 products (grille + VCD) is **100% recyclable**.



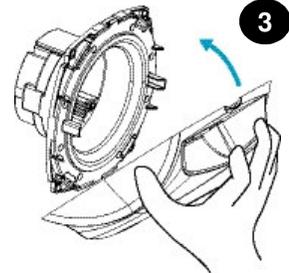
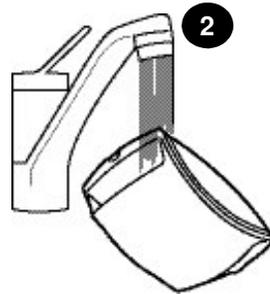
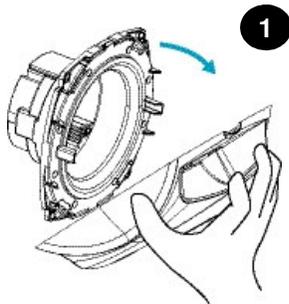
→ **BEST INSTALLATION & MAINTENANCE**

Bap'SI twin is definitely **easy to fix** in any application, on a wall or on the ceiling. It can be directly screwed into the wall, embedded directly into the sleeve.

With **1 product to install instead of 2**, Bap'SI twin definitely offers a quick installation with up to **80% time saving**: no VCDs to install in the ductwork, no commissioning, only a **small, light and smart plastic grille!**



This grille is also very **easy to maintain**. Everything that gets dirty can be dismantled without removing the outlet: its **removable front panel** ease the access to the airflow regulator.



→ **BEST COST EFFECTIVENESS**

Bap'SI twin absolutely allows **cost effectiveness** in comparison to the commonly used solution: VCD + Grille.

This innovative product can **save energy** up to 27% energy compare to a normal installation with VCDs, due to over-ventilation in 60% of the floors vs under-ventilation in 40% (as per NAHB Research Centre in USA), meaning lower consumption cost for the end user.

→ ADVANTAGES OF BAP'SI TWIN

ARCHITECTS Aesthetic design

→ **Visual impact improved:** innovative design without front grille.

MEP CONSULTANTS Performances & IAQ

→ **Constant airflow with passive regulation** (no actuators): no over-ventilation nor under-ventilation
→ **Airflow range** from 15 – 150 m³/h with few references
→ Easy to design: **installation in wall or ceiling**

MEP CONTRACTORS Cost, Installation & Maintenance

→ **Low cost solution:** 20% cheaper than grille + VCD solution
→ **Easy installation:** 80% installation saving time (1 product instead of 2, no commissioning required).
→ **Easy maintenance:** removable front panel for easy access to airflow regulator.



Smart Solution

Best Performance
Best Design
Best Installation
Best Cost Effectiveness

→ For more information on Bap'Si twin self-balanced grille

Ask for our documentation:



Or visit our website:
www.aldes.ae