

## Villas – When comfort really matters!



**Saadiyat Beach Villas**  
(Saadiyat Island, Abu Dhabi)

Our actual concerns are turned towards health, hygiene and ecology that involves an irreproachable **indoor air quality** in any housing.

Building **healthy** and **comfortable** villas is a big challenge for any contractor or consultant. How to ensure a perfect indoor air quality into any housing? Working with professional suppliers who are able to supply **good quality products** with **services** and **expertise** into a project can make a big difference.

Aldes has supplied various products in several villas throughout the world. Being a **global supplier**, Aldes has the ability to manufacture and provide high quality products with **short lead time** in the Middle East. Ventilation, air diffusion, airflow control, sound attenuation, centralised vacuum cleaning and fire protection systems are very important to ensure indoor air quality comfort and safety inside any building or villa.

In 2010, Aldes provided products and services for Saadiyat Beach Villas project. This project involves the construction of 344 villas with 10 mock-up villas in Saadiyat Island, Abu Dhabi. It has been divided into three main categories (i.e. Arabian villas, Mediterranean villas and Contemporary villas), each category being sub-divided in further categories (e.g. *Standard, Duplex, Executive, Premium* and *Quadplex*) having 3 to 6 bedrooms.

All of these villas are equipped with Aldes **By-pass Variable Air Volume (VAV)** boxes.



### **Why is By-pass VAV important in villas project?**

By-pass VAV is used in luxury villas as a common solution for **maintaining the comfort environment** of a zone by supplying the cold air, as per the demand of occupants which is transferred through the thermostat installed in that zone.

By-pass VAV unit is connected to the branch of supply air duct of a constant air volume source. A constant air volume of conditioned air is supplied to each VAV unit. The primary damper modulates through an actuator in response to a zone thermostat demand. Damper modulation can range from full shut off to full open position, in order to supply variable air volume of the conditioned air to the zone. Extra / un-required air is diverted into a ceiling plenum or ducted return.

Aldes always looks for the best way to **accompany** its customers by providing him the **best services** possible and the highest product quality.

### **\* Manufacturing & Quality**

Aldes manufactures a wide range of By-pass VAV boxes, suitable for airflows range up to 5440 m<sup>3</sup>/h.

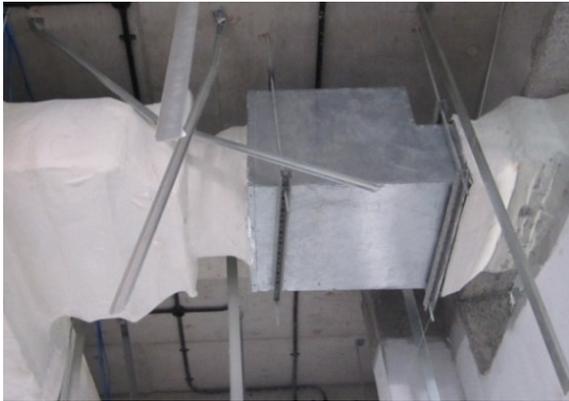
Every box has to pass through the **strict quality check** during the manufacturing process as well as after completion to always ensure the delivery of **high quality** product.

**Our customer's satisfaction is our priority.**

Christophe Escoffier, Factory Manager, Aldes ME

Aldes can meet all client needs from **standard products to customized solutions**. An efficient production management plus the commitment of the teams makes Aldes flexible and allows to find the right balance between standard and customized items.

By-pass VAV boxes are delivered to site along with **thermostats** and factory installed **actuators**.



#### \* Requirement & Testing

Casing of the By-pass VAV box is insulated with high density acoustic material, to ensure **low radiated noise levels**.

In the case of Saadiyat Beach Villas project, Aldes VAV boxes has been tested in **Intertek (USA)** as per **ARI-880-2008 Standard for radiated and discharge sound power levels**. This test definitely ensures a good sound level for a perfect installation.

#### \* Expertise & Follow-up

Aldes doesn't only manufacture products but **advises, supports and follows up** its customers.

Our sales team assists customers for proper installation of products, to guarantee the desired performances. They also come **on site** in order to check the installation and to ensure the best performances to the project.

At any step of a project, our Business Developers, Sales Engineers and Application Engineers are in touch with the customers, and available any-time for face-to-face meetings or by phone/email.



#### \* Delivery & Timing

To suit any requirement, Aldes does fully and partial deliveries as per customer's priority.

But the most important key issue remains in the **lead time**: any supplier should deliver its products on time. Aldes is daily working in accordance with time issue, to deliver quality products in an agreed set-time.

Aldes has always focused to bring a **high level of expertise** in fire protection, ventilation and air distribution systems, to support our clients and to act as a **reliable supplier fully committed to deliver quality and efficient solutions** from fans, sound attenuators, VCDs, fire dampers... to grilles and diffusers.

Consequently, Aldes ME will continue to provide the best support and solutions to the UAE market **to enhance the Safety & Indoor Air Quality in any housing project**.



**A full commitment towards our clients (Otak International), consultants (White Young emirates) and contractors (Al Jaber Building LLC - ETTS) – Aldes & ETTS representatives during a site visit**

For more information on VAV, please visit our website:

[www.aldes.ae](http://www.aldes.ae)

Or ask for our General Catalogue 2011.