

Dwyer SMART Air Hood Balancing Instrument

The SERIES SAH SMART Air Hood Balancing Instrument is the most accurate and easy to operate air flow hood available in the market. By using the included hood stand and wireless communications to the handheld, a single operator can balance a branch in less time than traditional balancing teams. Besides being lighter than most traditional capture hoods, the ergonomic design makes the Series SAH easy to manoeuvre, with less physical stress.

The rugged polypropylene base hood features patented Quad Flow Design Technology for controlling air flow and minimising back pressure, which yields superior measurement accuracy. The Wi-Fi direct communication gives reliable communication with a distance of up to 200 yards (183 m) between the hood and the handheld test instrument.

The SMART Air Hood Balancing Instrument includes the PredictAir Application Software which reduces the number of steps in the air flow balancing process using Predictive Balancing's Express Balance mode. Predictive Balancing is a method of predicting the optimal flow set point for each register and the order in which they should be adjusted.

Features/benefits

- Patent pending Quad Flow Design Technology directs the circulating air patterns to provide a more even air flow that minimises backpressure enabling accurate readings.

- Predictive Balancing is a process that guides the balancing technician on setting the optimal flow set point for each sequential terminal. With the PredictAir Application Software, the balancing process takes much less time than traditional air balancing methods.
- The ergonomic design is much lighter and easier to work with than the existing bulky air hoods, providing greater manoeuvrability and less physical strain. One technician can complete the air balancing.
- Wi-Fi direct wireless communication provides a range up to 200 yards (183 m).



Applications

Commissioning, testing, adjusting and balancing volumetric air flow from diffusers, grilles, and registers in HVAC systems.

ALM Engineering & Instrumentation Pvt Ltd is the brand ambassador for Smart Hood in India. 🏗️

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Dry Construction
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building and aircraft manufacturing and other such where timely completion, cutting-edge quality and operational efficiency were critical to the project success.

Lightweight technique again, is based on three fundamental principles which maybe combined in different ways:

- Lightweight materials: Use of building materials with a low density and is placed in relation to the stress and strain to which the material is subjected.
- Lightweight structures: Use of structures which resist the loads with minimum self-weight.
- Lightweight systems: A combination of load bearing functions with other functions like enclosing, sound insulation, fire-proofing, etc.

The growing use of light-weight construction in DCT is primarily the shorter construction timelines, good economics, better building mechanics, but above all in their superior sound insulation and fire-protection (especially when compared against regular brickwork and masonry).

Other advantages include ease of repairs, renovation and maintenance. For instance, when fitting out elements such as lighting units, speakers, detectors and sensors, the finish is flush and near-perfection. Another advantage is that unlike the traditional brick and mortar method, the process,

generates minimum construction waste. It also helps to preserve room temperature and provides energy efficiency. Incidentally, most of Panchshil projects have been awarded Platinum and Gold LEED certification.

Future of DCT

With more innovation and evolution of this category, the processes, shapes and surfaces can be further modified to suit different architectural and design requirement.

Top brands are already ensuring the health and safety of their customers through use of hazard-free ingredients, moisture resistance materials, and use of non-toxic/non-irritable materials.

With increasing commitment to sustainability in all aspects of construction, 'green' dry construction technology will be the future of the DCT market where re-manufacturing, durability, low-maintenance, recycling, reuse and sustainable sourcing will be part of the DCT best practices in India. 🏗️



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