

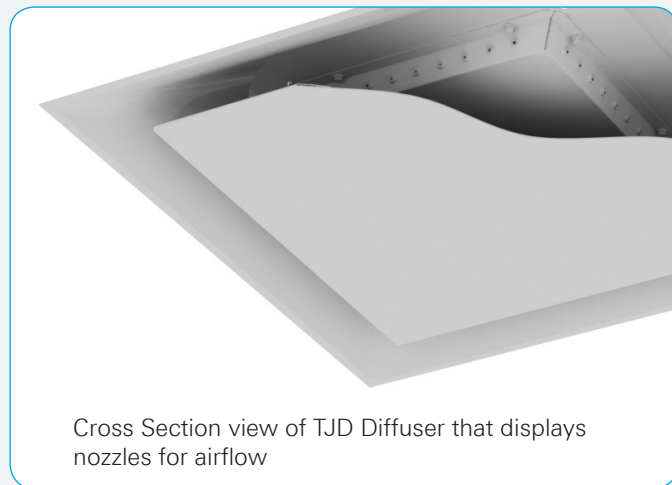


# Titus Low Flow TJD Diffuser

IT LOOKS LIKE A STANDARD DIFFUSER, BUT IT'S NOT

Titus introduces the patent pending TJD diffuser, the first diffuser designed for dedicated DCV systems or DOAS with decoupled heating/cooling.

- » Scores a 100 ADPI rating using airflow rates that would cause conventional diffusers to dump
- » Effective throw pattern will "Roll the room" at flow rates down to 0.06 cf/sq ft
- » Perfect for use with decoupled heating/cooling devices when minimum ventilation is less than 75 cfm
- » Pair with small ERV to provide DOAS to spaces requiring Demand Control Ventilation rather than use main AHU and outside dampers
- » Eliminate the need for excessive air and reheating to maintain comfort in applications such as health care exam and consultation rooms



Cross Section view of TJD Diffuser that displays nozzles for airflow



## Low Flow Diffuser Fills Void, Helping Industry Meet Changing Codes

TITUS'S ENERGY-SAVING TJD DIFFUSER ALSO SATISFIES COMFORT, FUNCTIONALITY AND AESTHETICS NEEDS

PLANO, TX – May 16, 2017 – Ventilation (outside) air has traditionally been delivered through the primary cooling system. Utilizing one set of ducts and air outlets to provide both comfort conditioning and ventilation. The state of Washington's latest energy code revisions now specify Dedicated Outdoor Air Systems (DOAS) with parallel air distribution to the space for the majority of compliant systems. What does this mean for the construction community and building occupants? In conventional systems the ventilation air is a part of the overall supply air flow. The additional air provided adequate velocity to evenly distribute and mix the outside air over the entire space. Airflow rates of DOAS alone do not provide adequate velocity at the air outlets to distribute the outside air. The result is excessive vertical projection (dumping) from the air outlets.

The TJD (patent pending) distribution provides high mixing at low airflows to provide superior coverage and throw. While most air outlets typically work at 100 CFM, TJD performs at 20 to 50 CFM and throws air to 9 feet at 50 feet per minute. The high mixing increases the mass of the discharge isovel and its corresponding throw, providing both uniform temperatures throughout, while delivering outside air equally throughout the occupied space. This equates to ADPI of 97 for an airflow of 26 CFM in a 120 SQFT Room. The ADPI increase to 100 at 47 CFM. The TJD is capable of distributing outside air effectively down to as low as 0.06 CFM/SQFT Minimum Ventilation Rate per ASHRAE 62.1-2016.

That means engineers can both meet the latest codes and reduce air volume dependence, and building owners can achieve noticeable energy and operations savings while ensuring occupant comfort.

TJD is best suited in areas where low airflow codes are applicable such as smaller spaces with low equipment and external loads. TJD incorporates Titus's popular architectural plaque diffuser, giving it a polished look. Mark Costello, Titus Product Manager stated "Forward-thinking customers can get ahead by using a solution specifically designed to meet industry codes and achieve functional, aesthetic and comfort needs."

TJD's release comes on the heels of Titus's 2017 AHR Innovation Award win in the Ventilation category for its Helios diffuser, the industry's first ambient light-powered digital diffuser. For more information on TJD, Helios and other air management products from Titus, please visit [titus-hvac.com](http://titus-hvac.com).

### About Titus

As the world leader in advancing the science of air distribution and air management training, Titus works to make life better by improving the health, efficiency, sustainability, comfort and aesthetics in commercial building environments. Founded in 1946, Titus, an integral piece of Johnson Controls Building Efficiency division, provides a breadth and depth of air management products and design tools that includes displacement ventilation, chilled beams, underfloor, grilles, diffusers, terminal units, fan coils and advanced training. For more information, visit [www.titus-hvac.com](http://www.titus-hvac.com), call 972-212-4800, or connect with us on social media via Facebook, YouTube, Twitter and LinkedIn.

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