

# Titus Designs Another First ...

## The TDX



The TDX diffuser combines high-induction, short-throws and architectural excellence while maximizing comfort (ADPI).

This patent-pending design produces high and low velocity zones where room air is induced and mixed rapidly. TDX mixes conditioned air faster than any other diffuser, resulting in unparalleled temperature equalization.

Titus' TDX handles high loads with a consistent circular pattern that reduces the time required to reach desired occupant comfort levels. The result is indoor air quality unmatched by any diffuser in the market.

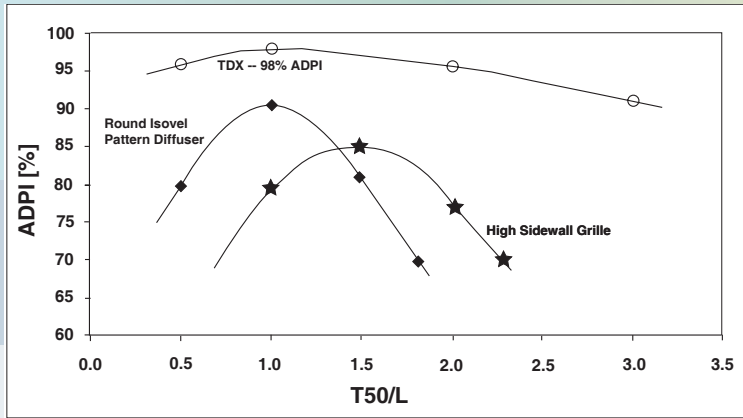
Please visit [www.titus-hvac.com](http://www.titus-hvac.com) for more information.



# TDX ADPI Comparison

The figure below shows the ADPI characteristic of the TDX to other air distribution outlets. This data shows an ADPI above 80 throughout its entire operating range. This makes the TDX an ideal choice for maintaining high comfort levels when selecting VAV application. 80 ADPI is an ideal

way of designing your air distribution systems knowing a high percentage of occupants will be comfortable. Therefore, the 80 ADPI index is recommended to be the lowest acceptable design value for office space. TDX provides one of the highest ADPI ratings in the market.



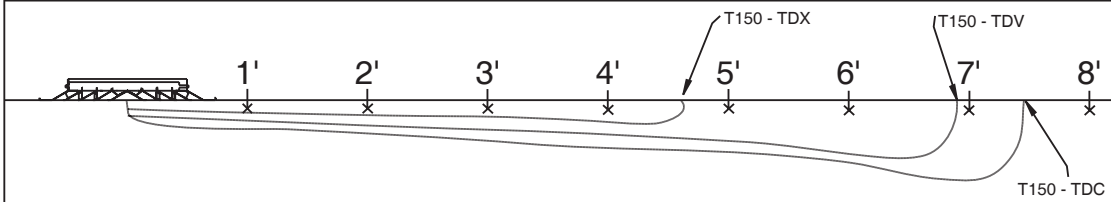
## Product Comparison of TDX, TDV and TDC

The 4-way TDX, TDV and TDC comparison table shows temperature equalization comparisons between TDX, TDV, and TDC. At 55 degree supply air, jet temperature from the TDX increases more rapidly than from the TDV and TDC diffusers illustrating the effect of the higher induction rate

of the TDX diffuser. At one foot from the center of diffuser supply temp of the TDX has increased 11 degrees compared to 5 degrees for TDV and 2 degrees for TDC. In each scenario, a 12 x 12-inch, A4 pattern diffuser was used.

4-Way TDX, TDV & TDC Comparison Table

(250 CFM, 12 x 12 Core, A4 Pattern)



Distance from Diffuser Center		1'	2'	3'	4'	5'	6'	7'	8'
TDX (20 deg. F, ΔT) 55 deg F Supply temp.	Jet Velocity (fpm)	326	245	200	172	144	123	105	90
	Jet Temperature (deg. F)	66	67	68	70	71	73	74	75
TDV (20 deg. F, ΔT) 55 deg F Supply temp.	Jet Velocity (fpm)	555	427	316	273	231	183	154	119
	Jet Temperature (deg. F)	60	62	64	66	68	69	71	72
TDC (20 deg. F, ΔT) 55 deg F Supply temp.	Jet Velocity (fpm)	564	436	330	292	240	199	161	128
	Jet Temperature (deg. F)	57	58	62	63	66	67	69	70

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