



# Diffusers

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*Comfort for Any Business Situation*



**You take your comfort very seriously.**

*So do we.*

**You take the aesthetics of your  
office very seriously.**

*So do we.*

*That's why*

*we offer the*

*best line of*

*diffusers*

*you'll **never** see.*





## *The Right Diffuser Is the One You Never Notice*

The Trane Company knows that you have more than one goal in mind when you select air diffusers for your office building.

The air diffuser is the interface between the HVAC duct system and the occupied space.

A diffuser's primary purpose is to introduce conditioned air into the room without creating uncomfortable drafts or excessive noise.

Its secondary role is just as important. The diffuser needs to look nice. In fact, it should blend with the room decor so well you don't even notice it.

*The Trane Company offers a complete line of air diffusers that accomplish both these roles quite effectively. In fact, we hope the only time you notice our diffusers is when you order them.*



### **Fixed Vane Linear Slot Diffuser**

The fixed vane linear slot diffuser is the most popular type of diffuser in variable air volume systems due to its simplicity and excellent performance over a wide range of discharge air velocities.

#### **The linear diffuser:**

- is effective with both heating and cooling, constant volume or variable air volume operations.
- blends well with most ceiling styles.
- is available with one to four slots and in a variety of lengths ranging from 24 to 60 inches.

### **Adjustable Vane Slot Diffuser**

The line of adjustable vane diffusers has many of the same features of the linear slot diffuser, plus it:

- can be positioned to vary the direction of airflow.
- is available with one to four slots providing adaptability to occupant and room configuration.
- comes in sizes ranging from 22 to 60 inches.



## *Blending Function with Beauty*

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*Ceiling mounted diffusers are available to provide either a spreading or non-spreading air discharge pattern, giving them the flexibility to satisfy most situations.*

*However, when selecting a diffuser design, it is important not only to consider how it works, but also how it looks. Trane offers several types of diffusers to meet every need. While the most popular diffusers are the fixed-vane linear diffuser and the adjustable-type diffuser, we also offer...*



**Light Fixture Diffuser**

### **Light Fixture Diffuser**

The light fixture diffuser is used in conjunction with suspended ceiling lights. It is easily adjustable and adjusts both air volume and discharge airflow pattern. The use of this diffuser requires coordination with the lighting system.

### **Perforated Diffuser**

A popular non-slot type of diffuser is the perforated diffuser. This diffuser discharges air in a round pattern across the ceiling.

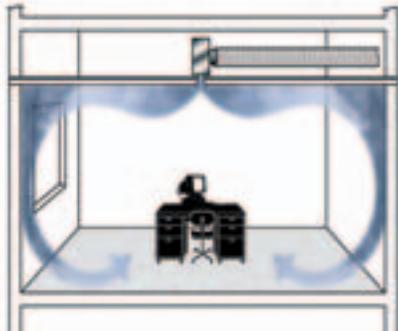
### **Induction Diffuser**

Because of its high mixing efficiency, the induction diffuser is an excellent choice for high draft areas.



## *A Diffuser for Every Situation*

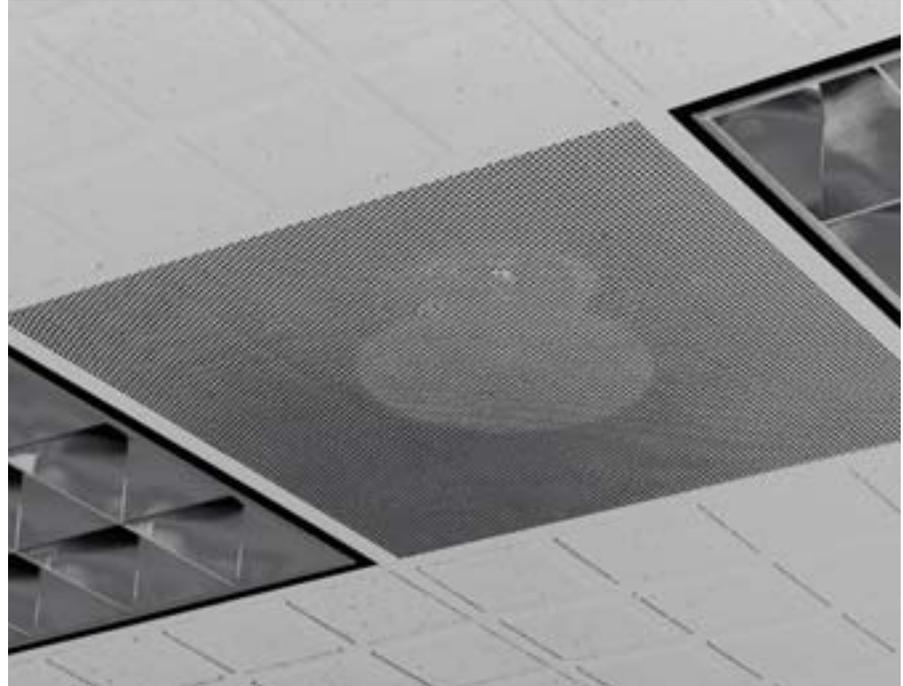
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### **Coanda Effect**

All Trane linear slot diffusers deliver conditioned air using a unique distribution method known as the Coanda effect.

This design principle discharges a high velocity jet of conditioned air along the ceiling surface. As the air flows away from the diffuser, its velocity decreases and it gently falls down into the room. When the conditioned air falls, it forces the room air upward toward the diffuser.



**Perforated Diffuser**

*Diffusers play an essential role in occupant comfort.*

*At Trane, we have the expertise to help you choose the right type of diffuser for your building needs.*

*Then, once your diffusers are installed, you will never even notice they're there.*

# *Comfort for Every Room*



*Using the Coanda effect, the gentle mixing of air from the linear diffuser with the air in the room creates comfortable conditions for all situations.*



**TRANE®**

**The Trane Company**  
**An American Standard Company**  
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Literature Order Number    VAV-SLB001-EN

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Date    March 2001

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Supersedes    New

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Stocking Location    La Crosse

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*Since The Trane Company has a policy of continuous product and product data improvement, it reserves the right to change design and specifications without notice.*