

Air-Row for Grid Ceilings

LA-248 and DA-248

Our powerful and problem-solving lay-in ceiling fan can also be a versatile direct air powered register with in-room air circulation.

Air-Row's powerful lay-in fans use what you already have, trapped air at the ceiling, to equalize the temperature down below. In the process, we allow your HVAC system to cycle off for significant energy savings.

Our classic lay-in fan, the LA-248, fits easily within 2x2 grid work. Our direct air rotation model, the DA-248, is completely self contained and can be augmented virtually anywhere along your duct work to solve air distribution and ventilation challenges.



Air-Row De-Strat Fans Bottom-Line Advantages

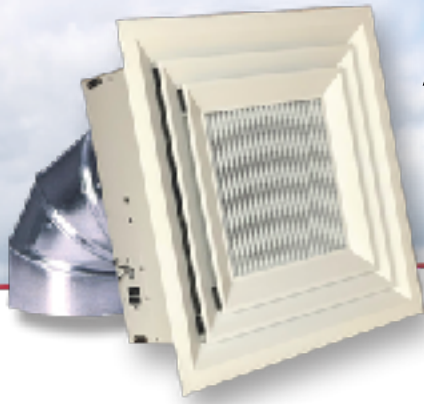
- Cut HVAC-related energy costs by as much as 30%
- Extend the performance life of HVAC equipment
- Maintain dry floors and prevent accidents for improved customer safety
- Redistribute air and eliminate stale air to improve air quality standards
- Improve overall comfort for employees and customers
- Target air to strategically resolve building challenges
 - Hot and cold spots
 - Wet floors
 - Fogging/sweating on doors and windows
 - Mold/mildew build-up
 - Starving long-runs



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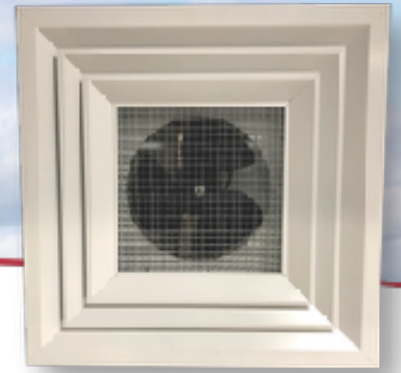


Air-Row DA-248

Direct Air Register

Air-Row LA-248

Lay-In Model



Features and Options –

- **Motor** - Air-Row's LA/DA lay-in products come standard with an efficient EC (Electronically Commutated) motor. These high quality 3-bladed EC motors come thermally protected and multi-speed programmable.
- **Durability** – Air-Row Fans are created of durable aluminum for long-life and exceptional performance years after installation. The unique aluminum design is more durable, customizable, and environmentally friendly.
- **Color Matching** – In recent years, Air-Row's ability to custom color match has been a huge success. All Air-Row Fan products can be professionally color matched to conform to any store environment.

Performance				
Speed	RPM	Amps	CFM	Watts
High	1,550	0.35	705	29
Medium	1,300	0.20	621	22
Low	1,000	0.17	450	9

- **Speed Control/BAS Interface** – Air-Row fans may be grouped or independently wired to a custom wall switch for on/off and multi-speed capabilities. Products can also be controlled through an integrated circuit, which provides interface with building management systems.
- **Field Serviceability** – Air-Row Fans unique lay-In design gives easy access for quick and simple maintenance and repair.

The Science of Destratification –

The key contributor to energy waste in buildings is stratified air. Stratification happens when warm air is pushed upwards by much denser cold air, which triggers the HVAC system. As the cycle continues, layers of hot air are trapped at the ceiling.

Heat rises at 0.7° F for each foot of vertical height. In a typical building, this makes it 15° F warmer at the ceiling than the floor. Our fans gather this hot air at the ceiling to narrow this temperature differential. Every 1° decrease in temperature is 1.5-2° in energy savings.



Thermal Imaging Before and After Air-Row Fans

The impact of our fans on air distribution and energy savings cannot be understated. IMAGE 1 shows the waste in air trapped at the ceiling. In IMAGE 2, our fans are bringing the trapped air to the floor. The results of destratification can be seen in IMAGE 3, where temperature has been evened.



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