

SDR SINGLE DUCT VAV



Is your HVAC system losing
too much air?



Stop the leaking. And start saving.

- One piece design delivers lowest total air leakage per unit
- Patented sensor provides high accuracy at low air velocities
- Factory-mounted controller options for quick installation
- Carbon composite damper shaft for durability and low thermal conductivity
- Install in either direction for application flexibility

Introducing a low-leak design for high-efficiency systems

If air is escaping from your ductwork and VAV units, so is something else. Money. Leaky components waste energy. While you're working hard to increase energy efficiency throughout your facility operations, inefficient VAV boxes can take the air out of your savings. Literally.

Enviro-Tec has engineered an innovative Single Duct Variable Air Volume (VAV) terminal unit that minimizes air leaks in HVAC systems. Using advanced manufacturing techniques featuring a unique one-piece design, the new SDR VAV units result in the lowest total air leakage compared to other competitive product designs. Plus, when matched with any low leak Air Handling Unit (AHU), it will enhance your total system efficiency and performance and contribute to meeting LEED® requirements.

- Advanced one-piece design and patented FlowStar™ sensor for accurate air control, even at the lowest velocities
- Your choice of factory mounted controls - DDC, analog or pneumatic - ensure the unit is delivered and ready to be quickly installed
- Match with any low-leak AHU system to meet Total Minimum Air Leakage Requirements as set by ASHRAE 111

Engineered to handle seismic events

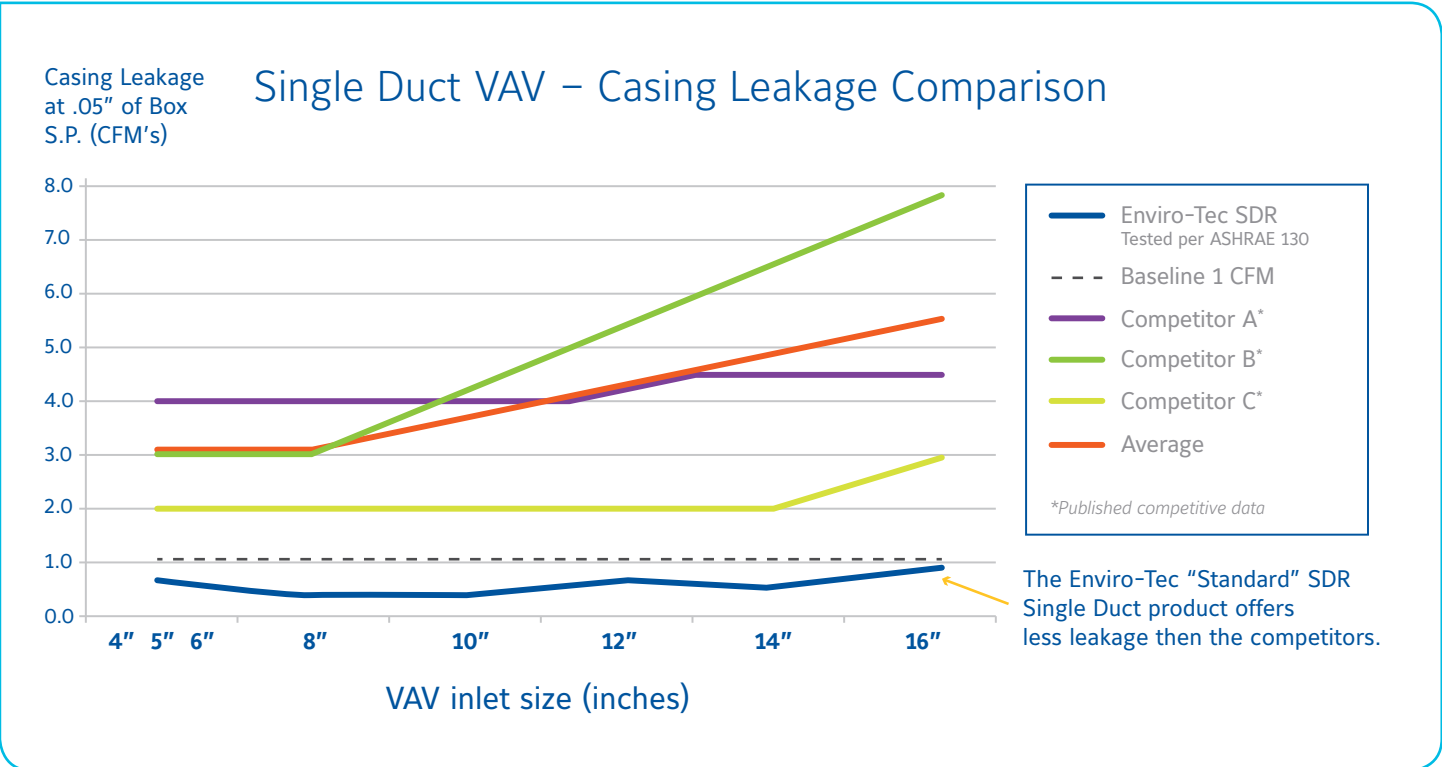
The Enviro-Tec VAV terminal units are engineered and constructed to ensure cabinet integrity throughout the installation process, not to mention possible seismic events. Units are OSHPD-OSP Pre-Certified in compliance with CBC 2013 and IBC 2012.* Also, VAV units are certified to an industry-leading performance criteria of up to 2.5 Sds @1.5 Importance Factor (IP) in most instances and up to at least a 1.93 Sds in all other products.



*VAV models SDR, CFR, CFL, VFR and VFL

Reducing air leakage improves energy savings and system performance

Less air leaking from the VAV terminal unit improves its performance as well as the performance of the systems upstream of the VAV unit, including the air handler and other energy-consuming components. Fewer leaks mean fewer CFM's are required to overcome the losses, so AHU's, fans, compressors and pumps all require less energy.

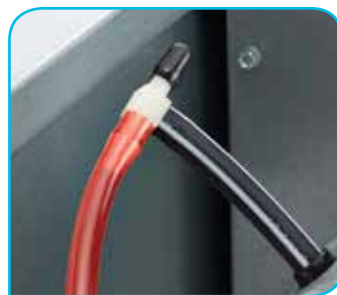


Factory Mounted Controls
Enviro-Tec offers a wide variety of analog, pneumatic and DDC mount and wire services for its VAV product line.



FlowStar Airflow Sensor

- Two-axis low profile design.
- The air foil shaped averaging chamber results in low pressure loss and low noise.
- The probe allows for an averaged and amplified differential output to provide accurate control at low airflows.



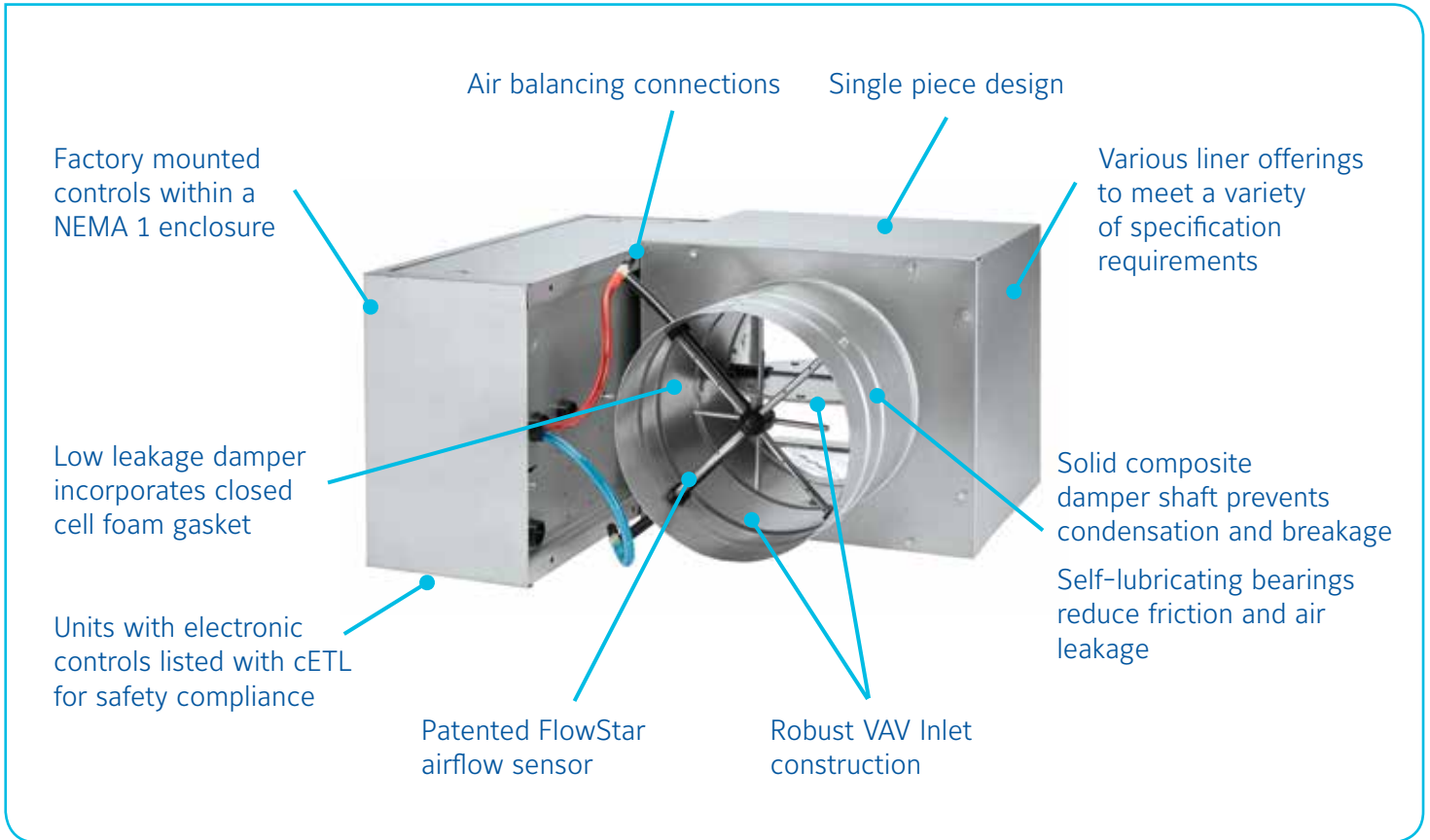
Field Pressure Measuring Taps
Pressure taps for ease of access during system air balancing.



Electric Heat Offerings
The electric heat element is upstream of the air valve, thus it provides more uniform airflow, reduces hot spots and boosts overall product life.

SDR Single Duct Terminal Units

Available with many industry standard and optional features to meet any and all project requirements



Standard Features

Construction

- AHRI Standard 880-certified and labeled
- 22-gauge, galvanized steel casing and valve
- 1/2" thick fiberglass insulation

Primary Air Valve

- Embossed rigidity rings
- Low-thermal-conductance damper shaft with position indicator
- Mechanical stops for open and closed position
- FlowStar center-averaging airflow sensor
- Balancing tees

Electrical Components

- cETL listed for safety compliance with UL 1996
- NEMA Type 1 wiring enclosure

Hot Water Coils

- 1, 2, 3 or 4 rows
- Left or right hand connections
- Tested at a minimum of 450 PSIG under water and rated at 300 PSIG working pressure at 200°F

Electric Heat

- cETL listed as an assembly for safety compliance
- Automatic reset primary and back-up secondary thermal limits
- Airflow switch
- Single point power connection
- Hinged electrical enclosure door
- Fusing per NEC

Controls

- Analog, pneumatic and DDC controls

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