



Flexibility

EZT terminals are available in a wide array of control packages using pneumatic, electronic analog or factory-installed direct digital (DDC) controls.

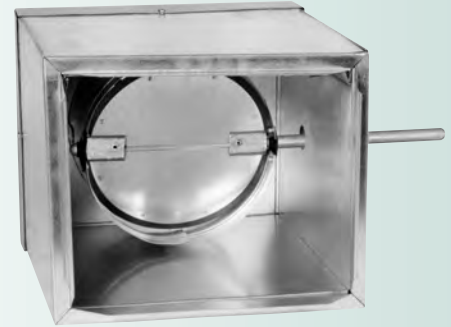
Hot water heating coils are offered in a wide range of capacities in 1, 2, and 4 rows. Electric heating coils are available in various voltages and steps of control.

Matte-faced insulation is provided as standard. Foil-faced insulation with the edges sealed with either tape or sheet metal (Fibre-Lok) is available. Closed cell (fiber-less) insulation and double wall construction using a full metal liner is also available.

EZT units can be provided with an integral sound attenuator for ultra-quiet performance.

Low temperature unit construction is also available using 1" thick matte-faced insulation and isolation of the air valve from the outer casing.

Numerous other optional features are available including single or double cam lock access doors.



Double Camlock



Hinged, Single Camlock

Performance

Anemostat's EZT terminal ratings are AHRI Certified and all units are tested in accordance with AHRI Standard 880. The lack of intruding fasteners, tabs or other obstructions in the air stream results in very quiet sound performance and low internal pressure losses. All units incorporate full 90-degree rotation round dampers (except 24 x 16) for precise control of the airflow.

All units are available with pressure independent controls for precise control of the airflow. All units with these controls are factory calibrated for minimum and maximum airflow settings prior to shipment and are easily field adjusted.



Velocity Wing Air Flow Sensor – The Best in the Industry!!!

The airflow sensor is a very critical component used in air terminals to precisely monitor flow rates into conditioned spaces, and its' performance should not be ignored.

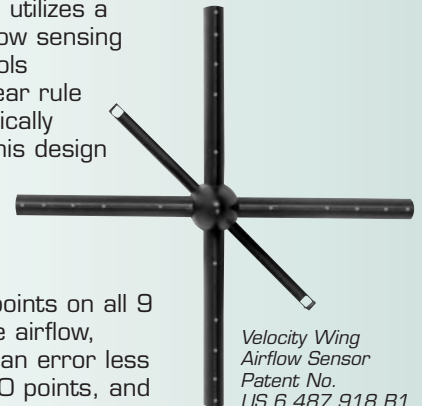


Patented

Anemostat's airflow sensor, the Velocity Wing™, utilizes a patented design that sets the standard for air flow sensing technology used for pressure independent controls systems. The patented design utilized the log-linear rule (ASHRAE Std 111 & AMCA Std 201) to strategically locate the measured points in the air stream. This design feature compensates for frictional drag along the duct walls to obtain the most accurate measurement of flow possible.

High Accuracy

The Velocity Wing™ utilizes 20 measurement points on all 9 inlet sizes (diameters) to accurately measure the airflow, regardless of the upstream velocity profile, with an error less



Velocity Wing
Airflow Sensor
Patent No.
US 6,487,918 B1

than 5%. The total pressure is continuously and simultaneously sampled at the 20 points, and averaged in the center chamber. In conjunction with the 2 enhanced amplifying static pick-up tubes, the resultant differential pressure signal is extremely stable and accurate.

Airflow Sensor Comparison

Nom Inlet Dia, in	Nom Area, ft ²	Anemostat Velocity Wing	
		K-Factor, CFM	Pv Amplification
5	0.130	287	3.27
6	0.188	469	2.58
7	0.258	612	2.85
8	0.338	867	2.44
9	0.430	1098	2.46
10	0.532	1353	2.48
12	0.769	1802	2.92
14	1.050	2469	2.90
16	1.375	3366	2.67
Avg Vel Press Amplification=			2.73

Amplification

The Velocity Wing™ amplifies the velocity pressure (on average) 2.73 times which means higher control pressure signals sent to the controller at much lower flow rates. This results in very stable flow control, even with high turn-down ratios. This amplification IS the highest in the industry!!!!

Low Pressure Drop & Sound

The sleek, aerodynamic Velocity Wing creates very little pressure drop for quiet operation and accurate control.

Construction

The Velocity Wing™ is molded from ABS plastic for durability, strength, and lifetime corrosion protection. The flame retardant plastic conforms to UL 95-5VA.

Ease of Installation and Reliability

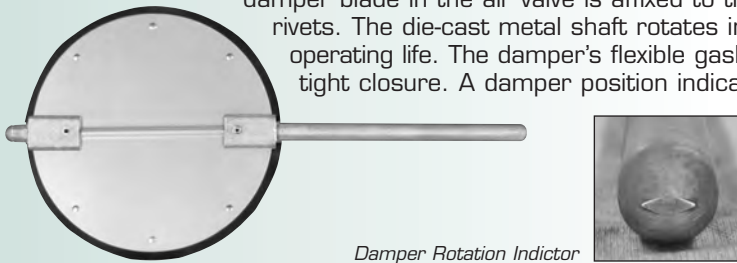
EZT terminals are compact and utilize inlet collars over 5" in length to allow easy attachment of rigid or flexible duct. The Velocity Wing™ airflow sensor is recessed over 2" into the air valve providing protection from damage. The discharge end of the terminal has slip and drive connections for easy attachment of downstream duct work.

Anemostat's EZT Single Duct terminals are constructed with zinc-coated steel for long life. The unit casings are assembled with a mechanical lock construction that insures a tight seam to minimize air leakage.

Casings are internally lined with a wide variety of insulation and treatment options that conform to NFPA and UL requirements. The leaving edge of the insulation is protected from erosion by return bends on the discharge end of the unit casing.



The damper blade is made of gasket material sandwiched between two round steel plates. The round damper blade in the air valve is affixed to the shaft using through-the-shaft machine applied rivets. The die-cast metal shaft rotates in self-lubricating bearings for easy turning and long operating life. The damper's flexible gasket seats tightly on the cylinder's internal bead for tight closure. A damper position indicator is located on the end of the damper shaft.



Damper Rotation Indicator



Direct drive actuators are used as standard to eliminate all linkages, and the actuator and controls are attached to the side of the casing allowing for easy accessibility.

