ZOO FANS®
Efficiency and Performance

PROJECT SUBMITTAL

AVS-EC Controller

ADVANCED VARIABLE SPEED EC CONTROLLER

Description

ZOO Fans' Advanced Variable Speed EC controller is designed to provide various options for the control of ZOO fans with EC motors. This controller supports dynamic speed control for quiet, variable speed operation. AUTO operation is based on the temperature difference (delta T) between two optional temperature sensors, typically placed near the floor and the ceiling. Fan speed and airflow are automatically controlled, based on the delta T and on the ceiling height as programmed via the configurable User Interface. Dynamic management of fan speed via the AUTO function typically results in fans running at lower speeds overall, while still maintaining thermal equilibrium in the space. By defaulting to LOW fan speed instead of OFF, constant background mixing continues to maintain comfort levels and save energy by supporting existing HVAC.

Typical Specifications

Controller shall be a wall mounted microprocessor controller with one 0-10VDC output and two temperature sensor inputs. The controller shall be a LED User Interface capable of operating in Manual or Automatic Mode. The Automatic mode is configurable for various ceiling heights and utilizes dedicated temperature sensors that enable automatic adjustment to the fan speed based on the temperature differential between these sensors.

Manual

LED USER INTERFACE

Optional Remote Control

Automatic

LED USER INTERFACE

TEMPERATURE SENSORS

Speed Controllers

Part #	Description	Quantity
	Control Methods:	
AVS-EC-MAN	Manual: User Interface	
AVS-EC-AUTO	Automatic: User Interface, 2 Temperature Sensors	

Additional Option

Model	Description	Quantity
AVST-RC	Remote Control	

Designed, engineered and assembled in the USA

1650 38th St., Suite 201W | Boulder, CO 80301 | (303) 557-1852 | engineering@zoofans.com | zoofans.com

AVS-EC Controller

ADVANCED VARIABLE SPEED EC CONTROLLER

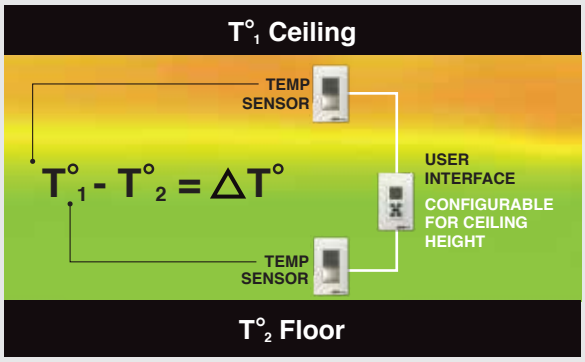
Technical Specifications

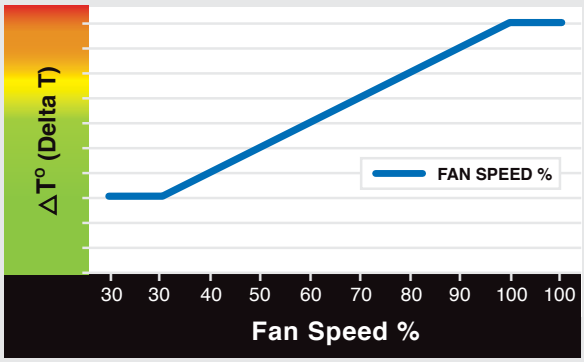
User Interface

Mounting	Standard 2 X 4 Job Box
Control Capabilities	On/Off, Manual/Automatic Speed Control, Optional Remote Control
Ceiling Heights	Configurable for Various Ceiling Heights
Display	Local Temperature Display
Input	24VDC

Automatic Mode

To maintain equilibrium, the ZOO Fans AVST Controller system will automatically speed-up and slow-down the fans based on Delta T and Ceiling Height.





Project

Job Name:				**Date:**	
Job Address:					
City:		**State:**		**ZIP:**	
Architect:					
Engineer:					
Contractor:					

Comments

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