



Young Regulator Co.

7100 Krick Rd • Walton Hills, OH 44146
 P: 440-232-9700 • F: 440-232-8266
www.youngregulator.com

Submit 9100 – 1-10

Model 9100-E

*Variable Air Volume
 Ceiling Diffusers*

Application and Design

The Young Regulator 9100 series (Model 9100-E) VAV ceiling diffusers are used to vary air volume from a wall-mounted thermostat. The diffusers are designed to maintain coanda effect of discharge air along the ceiling. This provides a sustained discharge velocity throughout the volume range, and effectively induces room air to achieve true VAV in both heating and cooling modes.

A direct-coupled actuator, installed outside the airstream on the neck of the diffuser, modulates to vary the supply air discharge opening. This varies the supply air volume in response to changes in the room temperature. Locating the actuator outside of the airstream makes servicing and troubleshooting convenient.

Operating diffusers from individual wall thermostats enables users to choose their own desired comfort level. This eliminates the problem of having to rely on inaccurate, slow acting, wax-type thermally powered actuators.



Plaque not shown to show modulating disk.

STANDARD CONSTRUCTION

Back Cone	Unitary Stamped Seamless Steel Construction w/ 4 Way Discharge Pattern
Face Plate	Removable
Finish	Baked Enamel

SIZE INFORMATION

Size	24" x 24" 6" Neck through 14" Neck, -1/4" Nominal 12" x 12" 6" and 8" Neck, -1/4" Nominal
Frame	Surface mount standard, lay in optional
Thermostats	T-312-CE
Master	9100-AC

HONEYWELL ML6161 ACTUATOR

Non-spring return direct-coupled actuators. Floating actuators used with single pole / double throw (SPDT) proportional and integral thermostats.

Volts	24V
Watts	2.0
VA	2.2
Amp	0.085
Timing	7 Min.
Torque	35 in. lb.
Built in motor stop for minimum and maximum air	

Optional Relief Ring

QUANTITY	DIAMETER	NOTES

PROJECT	LOCATION
CONTRACTOR	DESIGN SPECIFIER