CONTRACTOR



Young Regulator Co.

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

Submit 9100 - 11-2014

Model 9100 -E

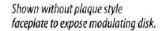
Variable Air Volume (VAV) Ceiling Diffuser

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 a disk damper 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.



STANDARD CONSTRUCTION				Belimo LMB24-3		
Back Cone	Unitary Stamped Seamless Steel Construction w/ 4 Way Discharge Pattern			Non-spring return direct-coupled actuators. Floating actuators used with single pole / double throw (SPDT) proportional and integral thermostats.		
Face Plate	Removable Plaque Style			Power Supply		24VAC +/- 20%
Finish	Baked Enamel				Draw	1.5 W (0.2W hold) 2.5 VA max.
SIZE INFORMATION				Control		On/Off, Floating Point Modulation
Size	24" x 24" 6" Neck through 14" Neck, -1/4" Nominal 12" x 12" 6" and 8" Neck, -1/4" Nominal			Torque Ambient Temp /Humidity Timing Noise		45 in-lb -22°F to 122°F /5-95% noncondensin 95 Seconds < 35 dB(A)
Frame	Surface Mount Standard, Lay in Frame Optional			Warrar	y Listings	5 year parts UL/CSA/CE
Thermostats	T-720 For Proportional Modulation T-422 For Proportional Modulation T-312-CE For Floating Modulation Add Supply Air Sensor for Automatic Heat/Cool Changeover			Built in motor stop for minimum and maximum air OTHER OPTIONS - Contact Factory Pneumatic Motor Relief Ring		
Drone	Use 9100-E, up to 8 Unit Off One Thermostat			Other Direct Drive Motors		
QUANTITY	NECK	FACE	FRAME		NOTES	
PROJECT			LOCATION			

DESIGN SPECIFIER