



YOUNG REGULATOR

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SUBMITTAL DATA

Sub. 9100E w / 422
Rev. B 03/03

9100E CEILING DIFFUSER WITH T-422-S THERMOSTAT For Automatic Heat / Cool Changover

Model 9100E / T422AC VARIABLE AIR VOLUME CEILING DIFFUSER KIT

APPLICATION AND DESIGN

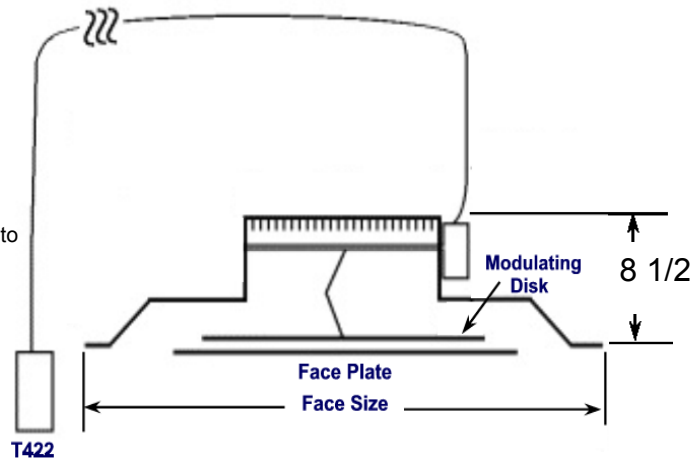
Young 9100 series VAV ceiling diffusers are used to vary air volume from thermostatic control. Diffusers are designed to maintain coanda effect of discharge air along the ceiling, providing a sustained discharge velocity throughout the volume range. Operating diffusers from individual wall thermostats enables users to choose their own desired comfort level. This eliminates the problem of having to rely on inaccurate and slow acting wax-type thermally powered actuators. The 9100E-T422 is a kit that includes the motorized diffuser and microprocessor based P + I thermostat for cooling applications.

FEATURES

- Diffusers incorporate an integral modulating disk that continually regulates the volume of supply air in response to a wall-mounted thermostat
- Wall mounted thermostatic control - temperature is sensed and adjusted within the personal comfort zone
- A powerful, low amp actuator is located outside the air stream for unrestricted air flow and ease of service
- 24V, 2VA, 35 in. lbs. torque actuator
- True Variable Air Volume cooling mode - the diffusers effectively induce room air and use a wall thermostat to achieve true VAV in the cooling mode.
- Maximum Air Volume Range from 118 to 900 CFM
- Standard factory setting of 20% minimum air is field adjustable

STANDARD CONSTRUCTION

- Unitary stamped seamless back cone with removable face plate
- Steel construction with baked white enamel finish
- 4-way discharge pattern



SIZE INFORMATION:

- 6" – 14" Neck Sizes for nominal 24" x 24" Face Size.
- 6" and 8" only for nominal 12" x 12" Face Size.
- Actual neck size is -1/4" nominal

OPTIONS

- Surface mount, spline or "donn" ceilings
- #3035 40VA transformer
- #3035-ENC (20VA transformer enclosed in J-Box)
- Auto Changover Thermostat and Sensor

THERMOSTAT

- Advanced Proportional and Integral control (P + I) provides precise temperature control within .5 degrees of setpoint
- Micro computer based
- Power: 24VAC -15%, +10% 50/60 Hz ; 2 VA

Quantity	Model	Frame Style (Ex. Lay-In)	Neck Size (Ex. 6", 8")	Frame (Ex. 24x24")
Project Contractor		Location Design Specifier		