Faldes



Description

ALDES pending* In-Line Zone Terminals (ZRT-SDIL) and High-Pressure In-Line Zone Terminals (ZRT-SDIL-HP) are designed to introduce flexibility and dynamic control to central ventilation systems. Used in both large and small systems, the ZRT-SDIL/ZRT-SDIL-HP controls ventilation where it is required without the need for individual fans. Each ZRT-SDIL/ZRT-SDIL-HP is a combination control damper and constant airflow regulators. This unique combination provides the ability to select between low-flow and high-flow ventilation rates without the need for expensive pneumatic, electronic, or DDC control systems.

The ZRT-SDIL/ZRT-SDIL-HP can be used in a supply or exhaust configuration. For ZRT-SDIL models, operating range is 0.12 to 1.2 in. w.g. (30 to 300 Pa). For ZRT-SDIL-HP models, the operating range is 0.4 to 2.8 in. w.g. (100 to 650 Pa).

The ZRT-SDIL/ZRT-SDIL-HP allows for a selection between a continuous, regulated low airflow rate (damper closed) or an on-demand, regulated high airflow rate (damper opened). With a motorized damper unpowered (closed) a low-continuous amount of regulated airflow passes through the low-flow constantc airflow regulator. When power is applied to a motorized damper, the damper opens, and air passes through the low-flow constant airflow regulator as well as the constant airflow regulator in the powered damper.

Mounting

The ZRT-SDIL/ZRT-SDIL-HP is intended to be installed in-line in a duct system. The unit should be installed in a location that provides access to the motorized damper.

ZRT-SDIL / ZRT-SDIL-HP

IN-LINE ZONE TERMINAL

AIRFLOW & ZONE CONTROL

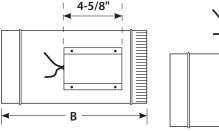
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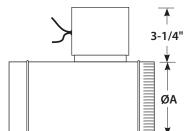






READ AND SAVE THESE INSTRUCTIONS





DIMENSIONS		
MODEL	ØA	В
ZRT-SDIL-1-4	4" (100 mm)	12" (300 mm)
ZRT-SDIL-1-5	5" (125 mm)	12" (300 mm)
ZRT-SDIL-1-6	6" (150 mm)	12" (300 mm)
ZRT-SDIL-1-8	8" (200 mm)	14" (355 mm)

Wiring

ZRT-SDIL/ZRT-SDIL-HP wiring needs to meet all applicable electrical and building codes. If the electrical connection to the damper motor wiring box is not accessible after mounting, there needs to be enough slack (approximately 24") in the electrical wiring leading to the wiring box to allow the damper assembly to be removed through the access opening. This will allow access to the electrical connections from the access opening.

ZRT-SDIL/ZRT-SDIL-HP models are available with 24 VAC or 120 VAC motorized dampers (see Figure 1 and 2 on the next page).

Maintenance

All motorized components of the ZRT-PDIL/ZRT-PDIL-HP are accessible from the outside of the motorized damper.

Warning

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

- 1. Use this unit only in the manner intended by the manufacturer. If you have any questions, contact the manufacturer.
- 2. Before servicing or cleaning the unit, switch power off at service panel and lock service panel to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.
- Sufficient air is needed for proper combustion and exhausting
 of gases through the flue (chimney) of fuel-burning
 equipment to prevent backdrafting. Follow the heating
 equipment manufacturer's guidelines and safety standards,
 such as those published by the National Fire Protection
 Association (NFPA), and the American Society of Heating,
 Refrigerating and Air-Conditioning Engineers (ASHRAE), and
 the local code authorities.
- 4. In addition to the following manufacturer's instructions, it is necessary to comply with federal, state, and local government codes. Your purchase of this ALDES ventilation system represents an investment in the health and comfort of the occupants, as well as an investment in the protection of the building from the damaging effects of excessive indoor humidity.
- 5. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
- 6. When cutting or drilling into wall or ceiling, do not damage electrical wiring and hidden utilities.
- 7. WARNING To reduce the risk of fire, electric shock or injury, do not use replacement parts that have not been recommended by the manufacturer (e.g., parts made at home using a 3D printer).

Caution

- For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.
- Automatically operated device. To reduce the risk of injury, disconnect from power supply before servicing.

System Design

Satisfactory performance of a central ventilation system requires:

- Proper integration of all the components, compatible grilles, and wall/roof caps;
- Proper duct design for friction losses;
- Consideration of acoustic and vibration properties of the fan and its mounting;
- Acoustic properties of the grilles;
- Consideration of the mode of operation, whether continuous or automatically controlled by dehumidistat, timer, or occupancy sensor;
- Installation in a heated or unheated space, with consideration for the potential of condensation in the ducting or fan housing.

Inspect the carton upon receipt to ensure the terminal has not been damaged in transit. If damaged, it is the responsibility of the recipient to file a damage claim with the carrier. ALDES is not responsible for damage incurred during shipment.

Note: Prior to installation, inspect the terminal to ensure that damper(s) move freely and that the constant airflow regulators have not shifted during handling. Handle the unit with care to prevent damage to the housing and other components. Store the unit indoors if possible. If outdoor storage is required, protection against moisture and dirt is necessary.

