



DEMAND CONTROL VENTILATION SOLUTIONS



Zone Register Terminals

*U.S. Pats. No. 7,766,734; 9, 201,428; 9,759,442

TECHNICAL COMMERCIAL DOCUMENTATION

CONTENTS

CHOOSING A MODEL.....	P 3
CEILING MOUNT ZRT®	P 4
ZRT'S® WITH CEILING RADIATION DAMPER	P 5
WALL MOUNT ZRT®	P 6
WALL MOUNT ZRT® WITH FIRE DAMPER.....	P 7
IN-LINE ZONE TERMINAL.....	P 8
PARALLEL DAMPER IN-LINE ZONE TERMINAL	P 9
3 PARALLEL DAMPER IN-LINE ZONE TERMINAL	P 10
SINGLE DAMPER IN-LINE ZONE TERMINAL	P 11

**Made in
USA**

**WARRANTY
3 YEARS**

**Patent
pending**



ALDES quiet, high-efficiency ventilation solutions are perfect for improving indoor air quality while saving energy and reducing operating costs. From bathroom exhaust to make-up air, new construction to renovation, ALDES has the right product for your project.

Choosing a Model

MODEL NAME DESCRIPTION		USE		MOUNTING			GRILLE INCLUDED	CEILING RADIATION OR FIRE DAMPER INCLUDED	
		EXHAUST	SUPPLY	CEILING	WALL	IN-LINE			
	ZRT® Zone Register Terminal	X		X			X		
	ZRT-S Zone Register Terminal		X	X			X		
	ZRT-F Zone Register Terminal with Ceiling Radiation Damper	X		X			X	X	
	ZRT-S-F Zone Register Terminal with Ceiling Radiation Damper		X	X			X	X	
	ZRT-W Wall-Mount Zone Register Terminal	X			X		X		
	ZRT-WS Wall-Mount Zone Register Terminal		X		X		X		
	ZRT-W-F Wall-Mount Zone Register Terminal with Fire Damper	X			X		X	X	
	ZRT-WS-F Wall-Mount Zone Register Terminal with Fire Damper		X		X		X	X	
	ZRT-IL In-Line Zone Terminal	X	X			X			
MODEL NAME DESCRIPTION Compatible with CAR-II & CAR3		SETPOINTS			MOUNTING			STATIC PRESSURE RANGE	
		1	2	3	CEILING	WALL	IN-LINE	STANDARD	HIGH
	ZRT-PDIL		X				X	X	
	ZRT-PDIL-HP		X				X		X
	ZRT-3PDIL			X			X	X	
	ZRT-3PDIL-HP			X			X		X
	ZRT-SDIL-1	X					X	X	
	ZRT-SDIL-HP	X					X		X

CEILING MOUNT ZRT®

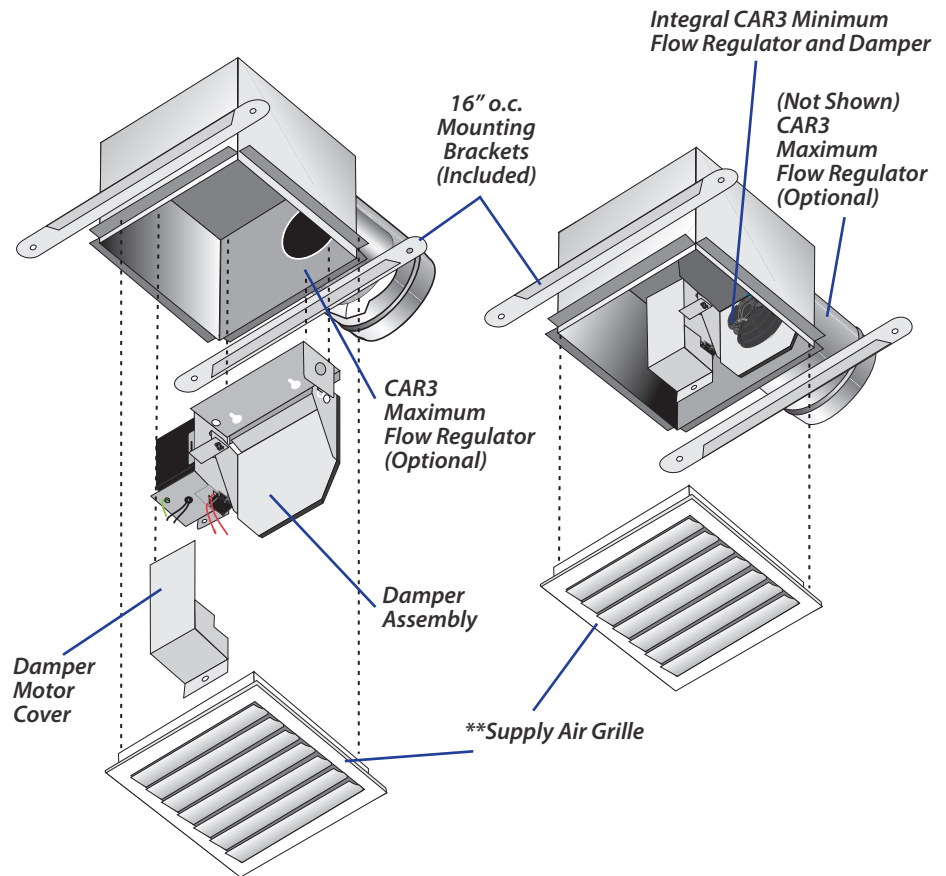
ZRT & ZRT-S MODELS CEILING MOUNT ZRT FOR ON-DEMAND OPTIONAL CONTINUOUS VENTILATION

PRODUCT DETAILS

- Used in both large and small systems.
- Patented* ZRT® model.
- Automatically operated with up to four different control schemes.
- Ceiling mount to accommodate new or existing construction.
- 24 VAC, 120 VAC, or 230 VAC wiring.
- -1 models provide on-off control for on-demand ventilation, allowing central fan downsizing and promotes energy savings.
- -2 models can be used for combination low-flow indoor air quality ventilation and on-demand high-flow spot ventilation using the same central fan system.
- Optional Constant Airflow Regulators (CAR3) used to prevent noise and excessive energy consumption caused by over-ventilation, as well as fluctuations in airflow rates as total system pressure varies.
- White aluminum grille and mounting brackets included.
- ETL Safety Listed (3101377).

ZRT-1 & ZRT-S-1

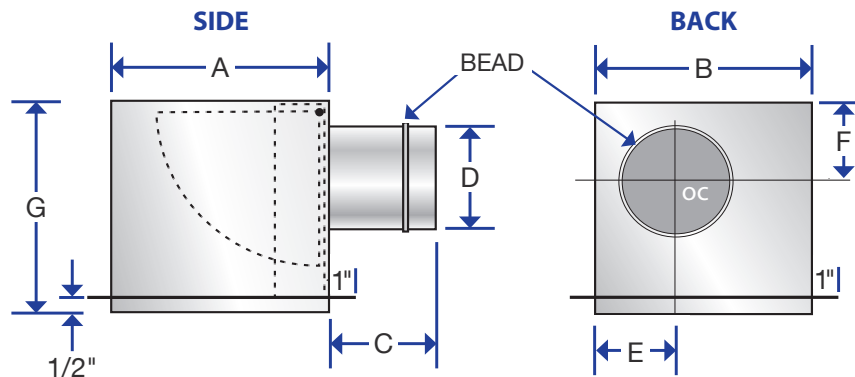
ZRT-2 & ZRT-S-2



*U.S. Pat. No. 7,766,734

**ZRT-S model supplied with Supply Grille (shown). ZRT® model supplied with Exhaust/Return Grille (not shown).

DIMENSIONS



Size	A	B	C	D	E	F	G
4" (100 mm)	8" (203 mm)	8" (203 mm)	4-1/2" (114 mm)	3-7/8" (98 mm)	2-1/2" (64 mm)	3-1/2" (89 mm)	7" (177 mm)
6" (150 mm)	10" (254 mm)	10" (254 mm)	5-1/2" (140 mm)	5-7/8" (149 mm)	3-1/2" (89 mm)	4-1/2" (114 mm)	8-1/2" (216 mm)

ZRT® WITH CEILING RADIATION DAMPER

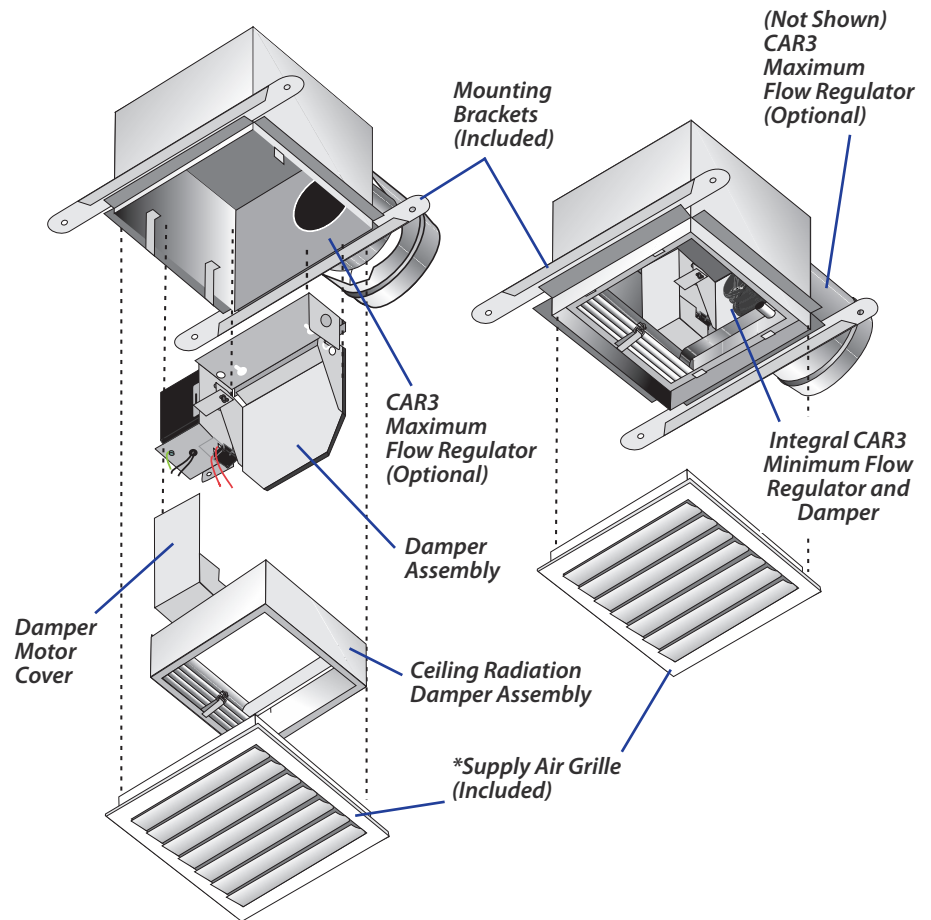
ZRT-F & ZRT-S-F MODELS CEILING MOUNT ZRT FOR ON-DEMAND AND OPTIONAL CONTINUOUS VENTILATION;
WITH UL CLASSIFIED RADIATION DAMPER

PRODUCT DETAILS

- Used in both large and small systems.
- Includes a 3-hour ceiling radiation damper.
- Automatically operated with up to four different control schemes.
- Ceiling mount to accommodate new or existing construction.
- 24 VAC, 120 VAC, or 230 VAC wiring.
- -1 models provide on-off control for on-demand ventilation, while minimizing necessary horsepower and ventilation-induced heating and cooling loads on the building.
- -2 models can be used for combination low-flow indoor air quality ventilation and on-demand high-flow spot ventilation using the same central fan system.
- Optional Constant Airflow Regulators (CAR3) used to prevent noise and excessive energy consumption caused by over-ventilation, as well as fluctuations in airflow rates as total system pressure varies.
- White aluminum grille and mounting brackets included.
- ETL Safety Listed (3101377) and UL Classified Ceiling Radiation Damper (R15858).

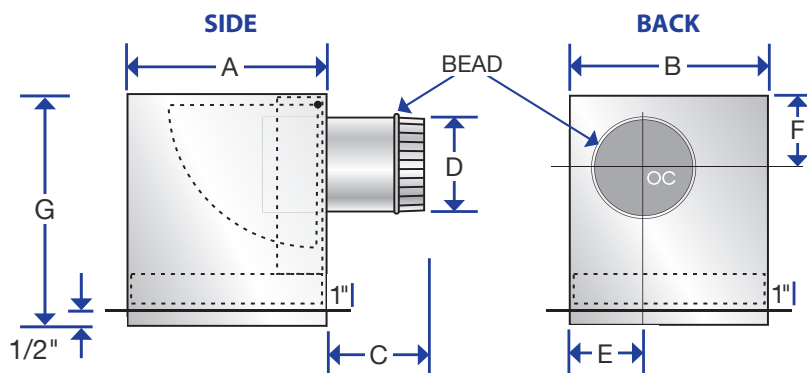
ZRT-F-1 & ZRT-S-F-1

ZRT-F-1 & ZRT-S-F-2



*ZRT-S-F model supplied with Supply Grille (shown). ZRT-F model supplied with Exhaust/Return Grille (not shown).

DIMENSIONS



Size	A	B	C	D	E	F	G
4" (100 mm)	8" (203 mm)	8" (203 mm)	4-1/2" (114 mm)	3-7/8" (98 mm)	3" (76 mm)	3" (76 mm)	9-1/4" (235 mm)
6" (150 mm)	10" (254 mm)	10" (254 mm)	5-1/2" (140 mm)	5-7/8" (149 mm)	4" (101 mm)	4" (101 mm)	11-1/8" (283 mm)

WALL MOUNT ZRT®

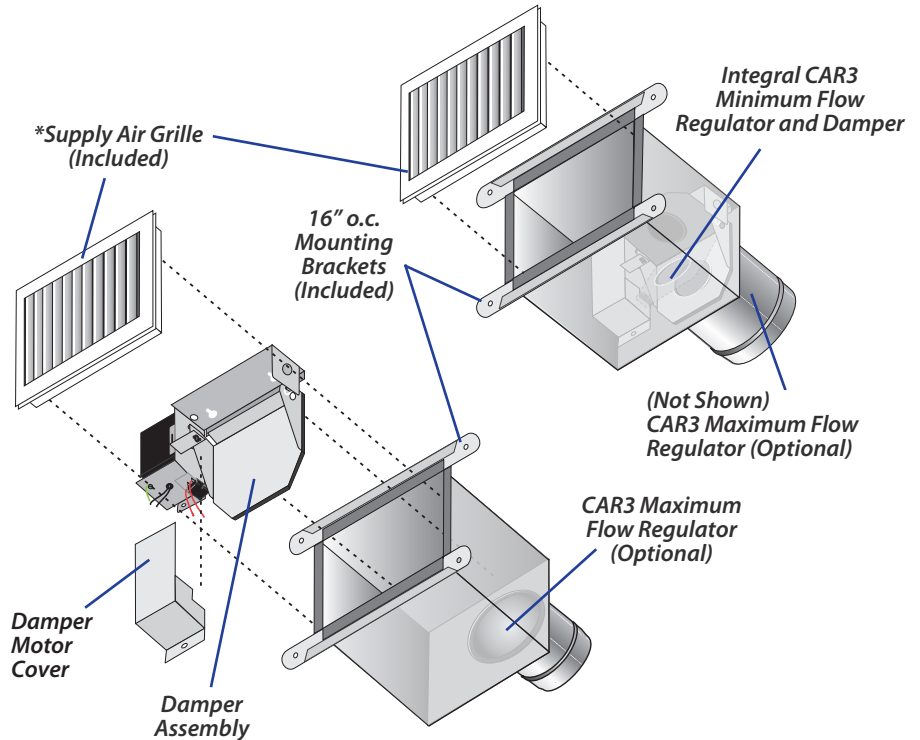
ZRT-W & ZRT-WS MODELS WALL MOUNT ZRT FOR ON-DEMAND OPTIONAL CONTINUOUS VENTILATION

PRODUCT DETAILS

- Used in both large and small systems.
- Automatically operated with up to four different control schemes.
- Wall mount configure.
- 24 VAC, 120 VAC, or 230 VAC wiring.
- -1 models provide on-off control for on-demand ventilation, allowing central fan downsizing and promotes energy savings.
- -2 models can be used for combination low-flow indoor air quality ventilation and on-demand high-flow spot ventilation using the same central fan system.
- Optional Constant Airflow Regulators (CAR3) used to prevent noise and excessive energy consumption caused by over-ventilation, as well as fluctuations in airflow rates as total system pressure varies.
- White aluminum grille and mounting brackets included.
- ETL Safety Listed (3101377).

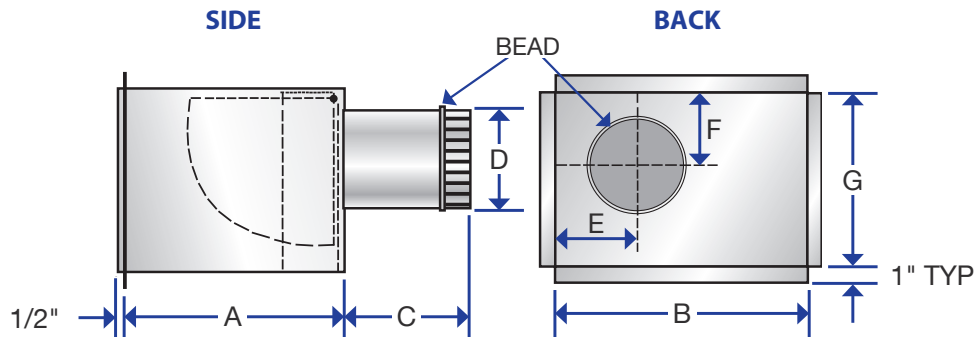
ZRT-W-1 & ZRT-WS-1

ZRT-W-2 & ZRT-WS-2



*ZRT-WS model supplied with Supply Grille (shown). ZRT-W model supplied with Exhaust/Return Grille (not shown).

DIMENSIONS



Size	A	B	C	D	E	F	G
4" (100 mm)	7-1/2" (191 mm)	8" (203 mm)	4-1/2" (114 mm)	3-7/8" (98 mm)	2-1/2" (64 mm)	3-1/2" (89 mm)	6-1/4" (159 mm)
6" (150 mm)	9" (229 mm)	10" (254 mm)	5-1/2" (140 mm)	5-7/8" (149 mm)	3-1/2" (89 mm)	4-1/2" (114 mm)	8" (203 mm)

WALL MOUNT ZRT® WITH FIRE DAMPER

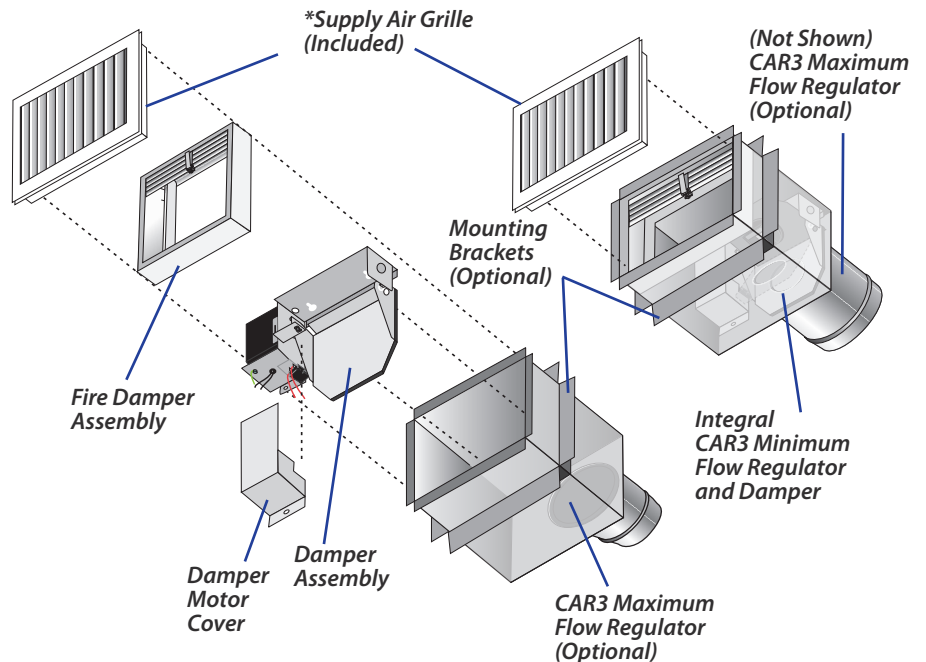
ZRT-W-F & ZRT-WS-F MODELS WALL MOUNT ZRT FOR ON-DEMAND AND OPTIONAL CONTINUOUS VENTILATION;
WITH UL CLASSIFIED FIRE DAMPER

PRODUCT DETAILS

- Used in both large and small systems.
- Includes a 3-hour ceiling radiant damper.
- Automatically operated with up to four different control schemes.
- Wall mount configure.
- 24 VAC, 120 VAC, or 230 VAC wiring.
- -1 models provide on-off control for on-demand ventilation, while minimizing necessary horsepower and ventilation-induced heating and cooling loads on the building.
- -2 models can be used for combination low-flow indoor air quality ventilation and on-demand high-flow spot ventilation using the same central fan system.
- Optional Constant Airflow Regulators (CAR3) used to prevent noise and excessive energy consumption caused by over-ventilation, as well as fluctuations in airflow rates as total system pressure varies.
- White aluminum grille included and mounting brackets optional.
- ETL Safety Listed (3101377) and UL Classified Fire Damper (R14128).

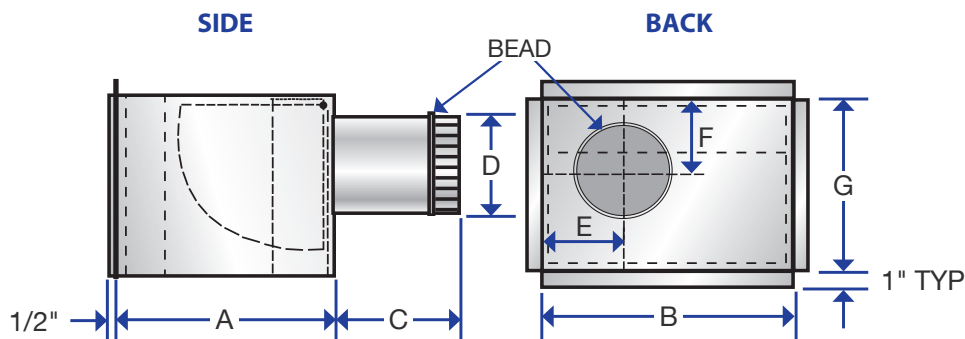
ZRT-W-F-1 & ZRT-WS-F-1

ZRT-W-F-1 & ZRT-WS-F-2



*ZRT-WS-F model supplied with Supply Grille (shown). ZRT-W-F model supplied with Exhaust/Return Grille (not shown).

DIMENSIONS



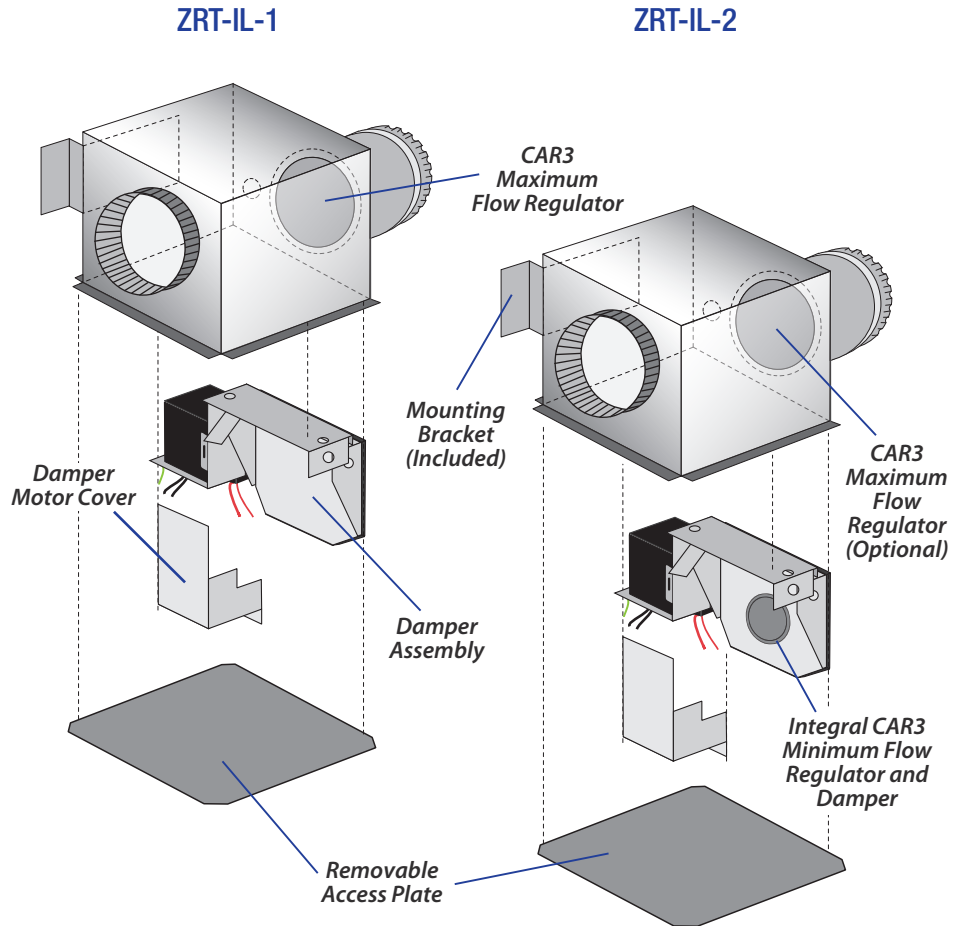
Size	A	B	C	D	E	F	G
4" (100 mm)	9-3/4" (248 mm)	8" (203 mm)	4-1/2" (114 mm)	3-7/8" (98 mm)	3" (76 mm)	3" (76 mm)	6-1/4" (159 mm)
6" (150 mm)	11-1/4" (286 mm)	10" (254 mm)	5-1/2" (140 mm)	5-7/8" (149 mm)	4" (101 mm)	4" (101 mm)	8" (203 mm)

IN-LINE ZONE TERMINAL

ZRT-IL MODELS IN-LINE ZONE TERMINAL FOR DUCT INSTALLATION; FOR ON-DEMAND AND OPTIONAL CONTINUOUS VENTILATION

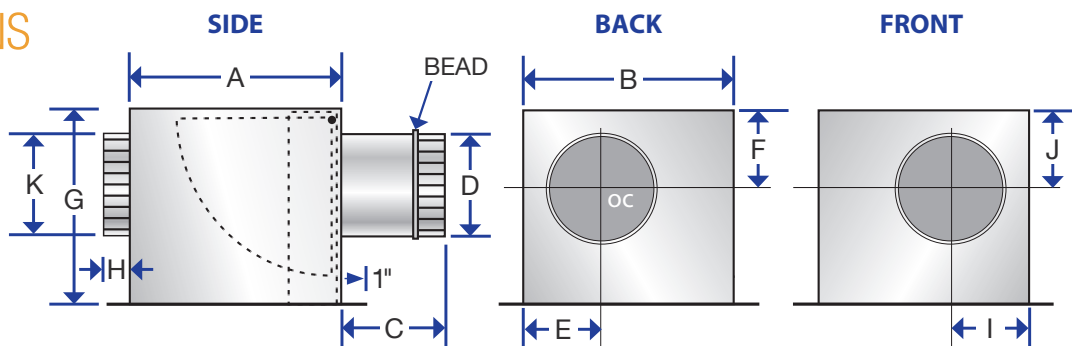
PRODUCT DETAILS

- Used in both large and small systems.
- Automatically operated with up to three different control schemes.
- In-line mounting configuration to provide versatile installation options such as above drop ceilings, between ceiling joints, or within a small soffit location.
- The ZRT-IL can be ordered in a supply or exhaust ventilation configuration.
- 24 VAC, 120 VAC, or 230 VAC wiring.
- -1 models provide on-off control for on-demand ventilation, allowing central fan downsizing and promotes energy savings.
- -2 models can be used for combination low-flow indoor air quality ventilation and on-demand high-flow spot ventilation using the same central fan system.
- Optional Constant Airflow Regulators (CAR3) used to prevent noise and excessive energy consumption caused by over-ventilation, as well as fluctuations in airflow rates as total system pressure varies.
- Removable access plate and mounting brackets included.
- ETL Safety Listed (3101377).



Please contact a representative to inquire about the prices for the ZRT-IL-K models. These models are constructed of 18-gauge galvanized steel.

DIMENSIONS



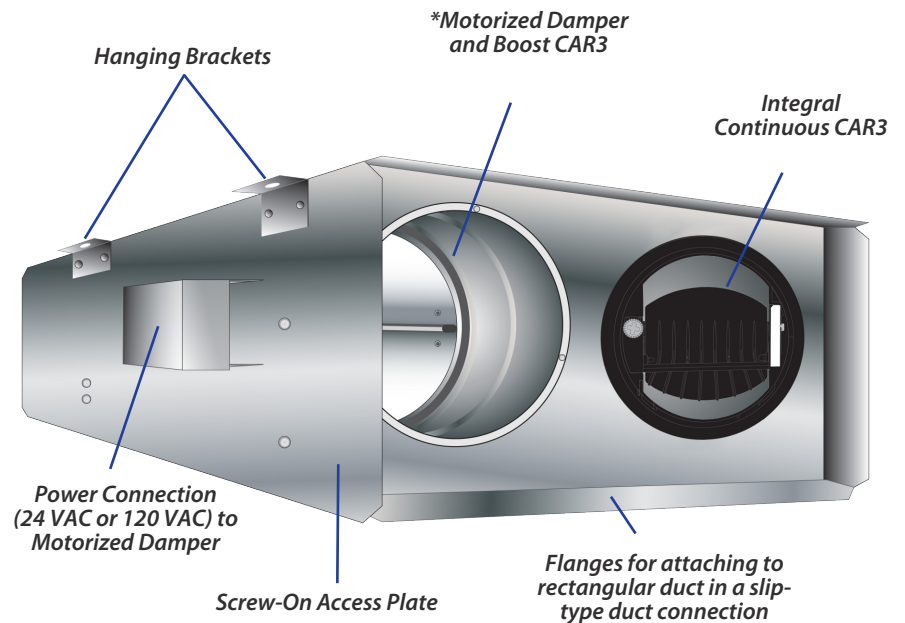
Size	A	B	C	D	E	F	G	H	I	J	K
4" (100 mm)	8" (203 mm)	8" (203 mm)	4-1/2" (114 mm)	3-7/8" (98 mm)	2-1/2" (64 mm)	3-1/2" (89 mm)	6-1/2" (165 mm)	1-3/4" (44 mm)	2-1/2" (64 mm)	3-1/2" (89 mm)	3-7/8" (98 mm)
6" (150 mm)	10" (254 mm)	10" (254 mm)	5-1/2" (140 mm)	5-7/8" (149 mm)	3-1/2" (89 mm)	4-1/2" (114 mm)	8" (203 mm)	1-3/4" (44 mm)	3-1/2" (89 mm)	4-1/2" (114 mm)	5-7/8" (149 mm)

PARALLEL DAMPER IN-LINE ZONE TERMINAL

ZRT-PDIL & ZRT-PDIL-HP MODELS PARALLEL DAMPER IN-LINE ZONE TERMINAL FOR DUCT INSTALLATION;
2-POSITION PRESSURE-INDEPENDENT TERMINALS FOR ON-DEMAND AND AUTOMATIC MIN/MAX AIRFLOW BALANCING
IN STANDARD AND HIGH-PRESSURE APPLICATIONS

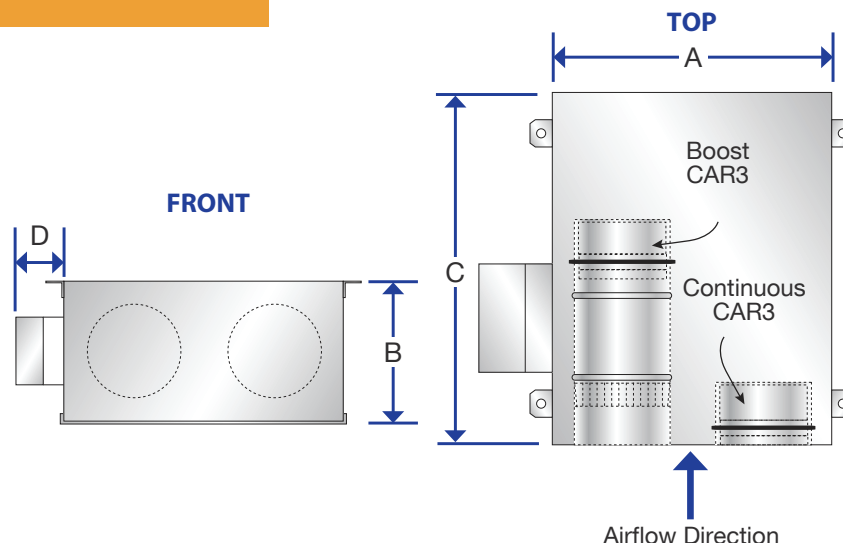
PRODUCT DETAILS

- Used in both large and small systems.
- Allows for selection between a continuous, regulated low airflow rate, and an on-demand, regulated high airflow rate.
- Replaces individual fans or variable air volume (VAV) terminals.
- Two-position pressure-independent terminal with a control damper and integral passive regulators (CAR3).
- Constant Airflow Regulators (CAR3) are used to prevent noise and excessive energy consumption caused by over-ventilation, as well as fluctuations in airflow rates as total system pressure varies.
- Controls ventilation in multi-family dwellings, classrooms, large spaces, and provides make-up air for laboratories.
- In-line mounting configuration allows installation in a duct system.
- Can be used in a supply or exhaust configuration.
- 24 VAC or 120 VAC wiring.
- Removable access plate and hanging brackets included.
- ETL Safety Listed (3101377).



Size (Duct)	CAR3 Diameter Min.	CAR3 Diameter Max.	A	B	C	D
12" x 6" (305 x 150 mm)	4" (100 mm)	4" (100 mm)	12" (305 mm)	6" (150 mm)	19-5/8" (499 mm)	3-1/8" (79 mm)
16" x 8" (406 x 203 mm)	6" (150 mm)	6" (150 mm)	16" (406 mm)	8" (203 mm)	21-5/8" (549 mm)	3-1/8" (79 mm)
20" x 10" (508 x 254 mm)	8" (203 mm)	8" (203 mm)	20" (508 mm)	10" (254 mm)	23-5/8" (600 mm)	3-1/8" (79 mm)
24" x 12" (610 x 305 mm)	10" (254 mm)	10" (254 mm)	24" (610 mm)	12" (305 mm)	25-5/8" (651 mm)	3-1/8" (79 mm)

DIMENSIONS

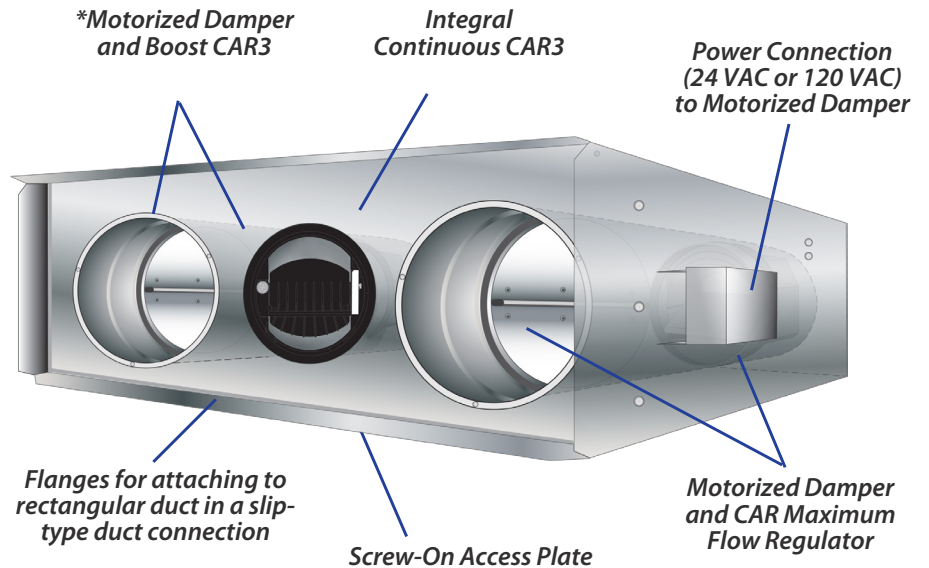


3 PARALLEL DAMPER IN-LINE ZONE TERMINAL

ZRT-PDIL & ZRT-PDIL-HP MODELS 3 PARALLEL DAMPER IN-LINE ZONE TERMINAL FOR DUCT INSTALLATION;
3-POSITION PRESSURE-INDEPENDENT TERMINALS FOR ON-DEMAND AND AUTOMATIC MIN/MAX AIRFLOW BALANCING
IN STANDARD AND HIGH-PRESSURE APPLICATIONS

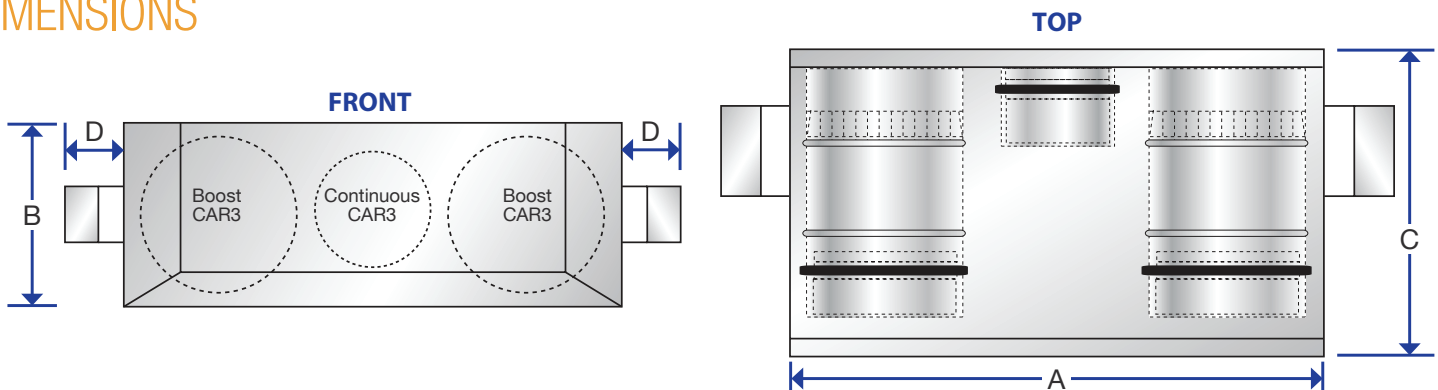
PRODUCT DETAILS

- Used in both large and small systems.
- Allows for selection between low-flow, medium-flow, and high-flow ventilation rates.
- Replaces individual fans or variable air volume (VAV) terminals.
- Three-position pressure-independent terminal with two control dampers and integral passive regulators (CAR3).
- Constant Airflow Regulators (CAR3) are used to prevent noise and excessive energy consumption caused by over-ventilation, as well as fluctuations in airflow rates as total system pressure varies.
- Two motorized dampers can be powered separately to allow for three distinct airflows or powered in parallel for two distinct airflows.
- In-line mounting configuration allows installation in a duct system.
- Can be used in a supply or exhaust configuration.
- 24 VAC or 120 VAC wiring.
- Removable access plate and hanging brackets included.
- ETL Safety Listed (3101377).



Size (Duct)	CAR3 Diameter Min.	CAR3 Diameter Max.	A	B	C	D
28" x 10" (711 x 254 mm)	6" (150 mm)	(2) 8" (203 mm)	28" (711 mm)	10" (254 mm)	24-5/8" (625 mm)	3-1/8" (79 mm)
30" x 10" (762 x 254 mm)	8" (203 mm)	(2) 8" (203 mm)	30" (762 mm)	10" (254 mm)	24-5/8" (625 mm)	3-1/8" (79 mm)
34" x 12" (864 x 305 mm)	8" (203 mm)	(2) 10" (254 mm)	34" (864 mm)	12" (305 mm)	26-5/8" (676 mm)	3-1/8" (79 mm)
36" x 12" (914 x 305 mm)	10" (254 mm)	(2) 10" (254 mm)	36" (914 mm)	12" (305 mm)	26-5/8" (676 mm)	3-1/8" (79 mm)

DIMENSIONS



SINGLE DAMPER IN-LINE ZONE TERMINAL

ZRT-SDIL & ZRT-SDIL-HP MODELS SINGLE DAMPER IN-LINE ZONE TERMINAL FOR DUCT INSTALLATION; PROVIDES UP TO THREE DIFFERENT CONTROL SCHEMES WITHOUT THE NEED FOR PNEUMATIC, ELECTRONIC, OR DDC CONTROL SYSTEMS.

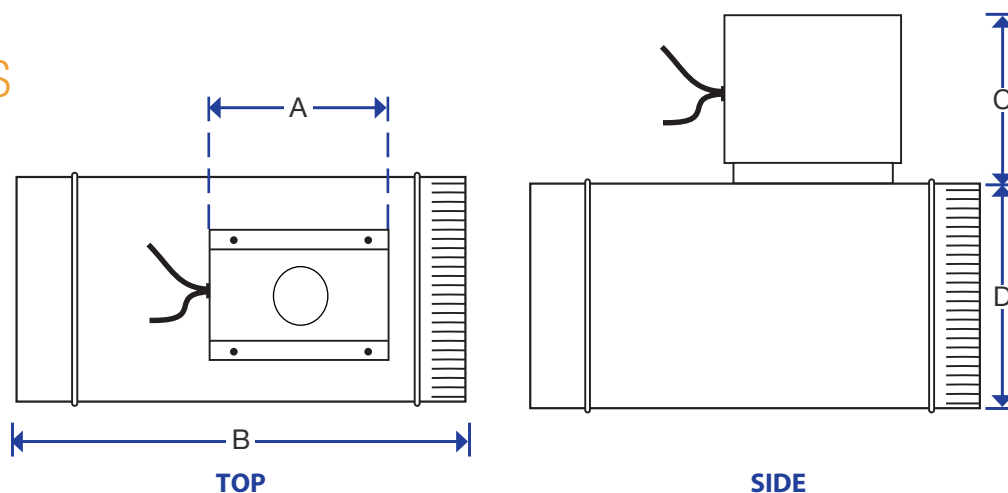
PRODUCT DETAILS

- Used in small and large systems.
- Regulates without the need for individual fans
- Provides up to three different control schemes without the need for expensive pneumatic, electronic, or DDC control systems
- Provides on-off control for on-demand ventilation
- Allows central fan downsizing and promotes energy savings by minimizing necessary fan horsepower and ventilation-induced heating and cooling loads on the building
- Allows the fan to only ventilate specific spaces without the need for separate fans in each space. It's perfect for bath exhaust applications with inline and multi-port fans, where low noise and a single exterior vent penetration are desired.



Standard pressure model	High pressure model	Duct Size (D)	A	B	C
ZRT-SDIL-1-4	ZRT-SDIL-1-4-HP	4" (100 mm)	4-5/8" (118 mm)	12" (300 mm)	3-1/4" (83 mm)
ZRT-SDIL-1-5	ZRT-SDIL-1-5-HP	5" (125 mm)	4-5/8" (118 mm)	12" (300 mm)	3-1/4" (83 mm)
ZRT-SDIL-1-6	ZRT-SDIL-1-6-HP	6" (150 mm)	4-5/8" (118 mm)	14" (355 mm)	3-1/4" (83 mm)
ZRT-SDIL-1-8	ZRT-SDIL-1-8-HP	8" (200 mm)	4-5/8" (118 mm)	16" (400 mm)	3-1/4" (83 mm)
ZRT-SDIL-1-10	ZRT-SDIL-1-10-HP	10" (250 mm)	4-5/8" (118 mm)	20" (500 mm)	3-1/4" (83 mm)

DIMENSIONS





For more information, contact your
ALDES sales advisor, visit ALDES-na.com,
or find us on



ALDES North America
USA 800.255.7749 CAN 800.262.0916

