



i-Vu® Building Automation System

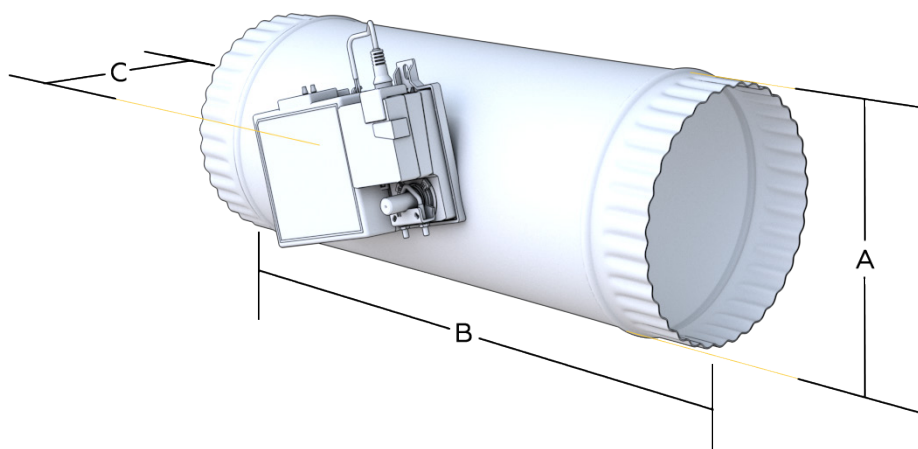
Round Zone Damper with VVT Zone Controller



The VVT round zone damper with the VVT Zone controller is a component of Carrier's i-Vu Building Automation System. It provides accurate and precise airflow for VVT applications. The factory-integrated VVT Zone controller maintains space temperature by modulating the proper amount of supply airflow through its damper.



Part Number	Duct Diameter (inches)	Weight (lbs)	CFM Airflow Range	
			Min	Max
OPNDR06ZC	6	7.0	160	240
OPNDR08ZC	8	9.0	280	420
OPNDR10ZC	10	10.5	440	660
OPNDR12ZC	12	14.0	630	950
OPNDR14ZC	14	16.0	850	1175
OPNDR16ZC	16	17.5	1125	1675



Dimensions (inches)

Part Number	A	B	C
OPNDR06ZC	6	18	9
OPNDR08ZC	8	18	11
OPNDR10ZC	10	18	13
OPNDR12ZC	12	24	15
OPNDR14ZC	14	24	17
OPNDR16ZC	16	24	19

i-Vu® Building Automation System

Round Zone Damper with VVT

Zone Controller



VVT Zone Damper (Round)

Physical	<ul style="list-style-type: none"> Spiral Metal Duct Housing: 24 Ga. Elliptical Damper Blade: 20 Ga.
Features	<ul style="list-style-type: none"> Integral supply air temperature sensor Demand control ventilation (DCV) sensor input point Counterclockwise and clockwise damper rotation Configurable minimum and maximum open damper positions Optional 0-10V DC output for linking actuators
Operating Performance	<ul style="list-style-type: none"> Torque rating: 35 in. lb. Degree of rotation: 30 - 90 degrees Pressure rating: 1 in. wg static pressure

VVT Zone Controller

Features	<ul style="list-style-type: none"> Integral actuator with brushless DC motor, rated at 35 inch-pounds (4Nm) torque, runtime is 205 seconds for 90 degree travel during control Provides pressure dependent (VVT), space temperature control for terminals up to 2.7 sq. ft. inlet Provides zone level humidity control OR zone level demand control ventilation (ASHRAE 62) with field-installed sensor Provides PID control Optional terminal fan or auxiliary heat control Provides remote occupancy contact input for field-installed occupancy sensor Supports sensor averaging Capable of stand-alone operation with integral supply air temperature sensor Air balancing tool available
Communications	<ul style="list-style-type: none"> Controller network is BACnet MS/TP at 9600 bps, 19.2 kbps, 38.4 kbps, or 76.8 kbps or ARCNET 156 kbps i-Vu can be used to access controller both locally and remotely.
Communications Wiring	22/24 AWG, single twisted shielded pair, low capacitance, CL2P wire
Power Requirements	24VAC \pm 10%, 50-60Hz, 14 VA power consumption, 26VDC (25V min, 30V max), Single Class 2 source only, 100 VA or less
Power Wiring	2 conductor, 18 AWG, unshielded
Listed by	UL-916 (PAZX), cUL-916 (PAZX7), FCC Part 15-Subpart B-Class A, CE EN50082-1997, UL94-5VA plenum rated enclosure
Environmental Operating Range	0 to 140°F (-18 to 54°C) 10 to 90% RH, non-condensing
Storage Temperature	-24 to 140°F (-30 to 60°C) 10 to 90% RH, non-condensing

