



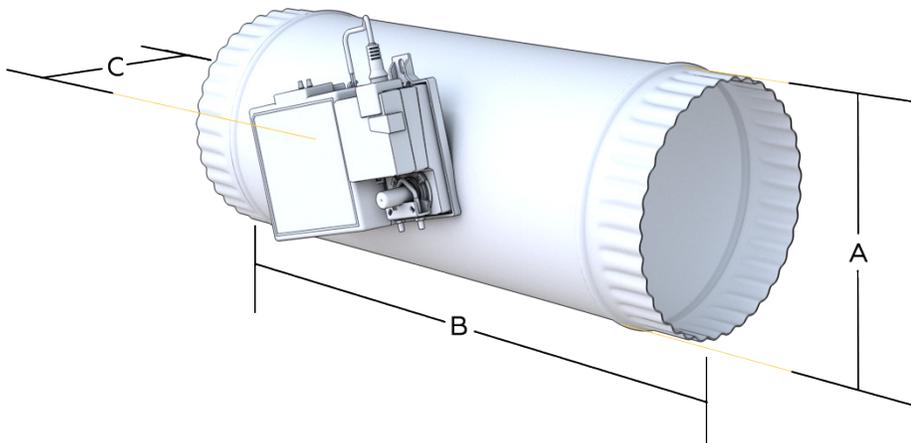
# i-Vu® Building Automation System Round Zone Damper with VVT Zone Controller



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<sup>®</sup> Building Automation System

## Round Zone Damper with VVT

### Zone Controller



#### VVT Zone Damper (Round)

<b>Physical</b>	<ul style="list-style-type: none"> <li>Spiral Metal Duct Housing: 24 Ga.</li> <li>Elliptical Damper Blade: 20 Ga.</li> </ul>
<b>Features</b>	<ul style="list-style-type: none"> <li>Integral supply air temperature sensor</li> <li>Demand control ventilation (DCV) sensor input point</li> <li>Counterclockwise and clockwise damper rotation</li> <li>Configurable minimum and maximum open damper positions</li> <li>Optional 0-10V DC output for linking actuators</li> </ul>
<b>Operating Performance</b>	<ul style="list-style-type: none"> <li>Torque rating: 45 in. lb.</li> <li>Degree of rotation: 30 - 90 degrees</li> <li>Pressure rating: 1 in. wg static pressure</li> </ul>

#### VVT Zone Controller

<b>Features</b>	<ul style="list-style-type: none"> <li>Integral actuator with brushless DC motor, rated at 45 inch-pounds (4Nm) torque, runtime is 205 seconds for 90 degree travel during control</li> <li>Provides pressure dependent (VVT), space temperature control for terminals up to 2.7 sq. ft. inlet</li> <li>Provides zone level humidity control OR zone level demand control ventilation (ASHRAE 62) with field-installed sensor</li> <li>Provides PID control</li> <li>Optional terminal fan or auxiliary heat control</li> <li>Provides remote occupancy contact input for field-installed occupancy sensor</li> <li>Supports sensor averaging</li> <li>Capable of stand-alone operation with integral supply air temperature sensor</li> <li>Air balancing tool available</li> </ul>
<b>Communications</b>	<ul style="list-style-type: none"> <li>BACnet MS/TP at 9600 bps, 19.2 kbps, 38.4 kbps, or 76.8 kbps or ARCNET 156 kbps</li> <li>i-Vu can be used to access controller both locally and remotely</li> </ul>
<b>Power Requirements</b>	24VAC ± 10%, 50-60Hz, 14 VA power consumption, 26VDC (25V min, 30V max), Class 2 only, 100 VA or less
<b>Wiring</b>	<b>Power:</b> 2 conductor, 18 AWG, unshielded <b>Comm:</b> 22/24 AWG, single twisted shld pair, low cap, CL2P wire
<b>Listed by</b>	<b>United States:</b> FCC compliant to Title CFR47, Part 15, Subpart B, Class A; UL Listed, File E143900; CCN PAZX, UL 916, Energy Management Equipment; <b>ANZ:</b> RCM Mark AS/NZS 61000-6-3; <b>Canada:</b> UL Listed File E143900, CCN PAZX7, CAN/CSA C22.2 No. 205 Signal Equip., Industry Canada Compliant ICES-003, Class A; <b>CE Mark</b> Compliant with 2014/30/EU, and RoHS Compliant: 2015/863/EU; <b>UKCA Mark</b> compliant with Electromagnetic Compatibility Regulations 2016 – Gov.UK and RoHS for Electrical and Electronic Equipment 2012
<b>Environmental</b>	Operating Range: 0 to 140°F (-18 to 54°C) 10 to 90% RH, non-condensing
<b>Storage Temperature</b>	-24 to 140°F (-30 to 60°C) 10 to 90% RH, non-condensing

