

The R80J plug and play damper is designed for residential and light commercial installations. The R80J uses a modulating actuator with 80 in-oz of torque with RJ11 connectors for easy wiring using the 25-foot cable supplied with the damper.

The damper can be modulated to any position. When used with iZone residential zoning panels, the non-calling zone dampers can be opened just enough to bypass excess airflow and maintain acceptable duct pressure without installing bypass duct and a barometric damper.

The actuator has been tested to over 9 million cycles and will provide years of quiet and reliable operation.



- Power open, power close or modulating operation.
- 80 in-oz of torque.
- LED indicators for fully open and fully closed position.
- Adjustable closed position.
- 5/16-inch diameter, die cast shafts with nylon bushings for quiet and reliable operation.
- Dual damper blades with sandwiched, rubber gasket for efficient airflow.
- 24VAC, 2.4VA operating, 1VA holding.

5-Year Warranty

All products have a 5-year warranty, limited to the repair or replacement of the product due to defective material or workmanship.

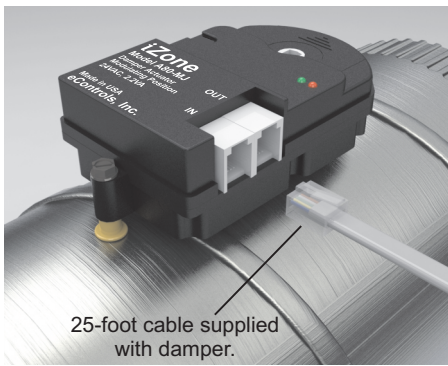
eControls

eControls, Inc.
26072 Merit Circle #110 / Laguna Hills, CA 92653
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Diameter	CFM at 400 FPM	CFM at 600 FPM	CFM at 800 FPM	CFM at 1000 FPM	CFM at 1200 FPM
4-inch	35	52	70	87	105
5-inch	55	82	109	136	164
6-inch	79	118	157	196	236
7-inch	107	160	214	267	321
8-inch	140	209	279	349	419
9-inch	177	265	353	442	530
10-inch	218	327	436	545	655
12-inch	314	471	628	785	942
14-inch	428	641	855	1069	1283
16-inch	559	838	1117	1396	1676
18-inch	707	1060	1414	1767	2121
20-inch	873	1309	1745	2182	2618

Ordering Information

Model Number	Description
R80J-04	Plug and Play Damper, 4-inch diameter.
R80J-05	Plug and Play Damper, 5-inch diameter.
R80J-06	Plug and Play Damper, 6-inch diameter.
R80J-07	Plug and Play Damper, 7-inch diameter.
R80J-08	Plug and Play Damper, 8-inch diameter.
R80J-09	Plug and Play Damper, 9-inch diameter.
R80J-10	Plug and Play Damper, 10-inch diameter.
R80J-12	Plug and Play Damper, 12-inch diameter.
R80J-14	Plug and Play Damper, 14-inch diameter.
R80J-16	Plug and Play Damper, 16-inch diameter.
R80J-18	Plug and Play Damper, 18-inch diameter.
R80J-20	Plug and Play Damper, 20-inch diameter.



The damper has an RJ11 connector to connect the damper to the panel using the 25-foot cable provided with the damper. A second RJ11 connector is used to daisy chain two or more dampers in the same zone.

Specifications

Damper Operation

Modulating or Power Open/Close.

Output Torque

80 in-oz

Input Control

24VAC applied to OPN or CLS terminal.

Compatible Zoning Panels

R221J, R321J, R222J and R322J Zoning Panels.

Operation Time

Fully opens in approximately 2.7 seconds.

LED Indicators

Green LED indicates fully open and red LED indicates fully closed.

Electrical Power

24VAC, 2.4VA operating and 1VA holding.

Actuator

A80-MJ included.

Damper Shell

24 gage, spiral wrapped, galvanized steel.

Damper Blade

Two 26 gage, galvanized steel blades with rubber gasket sandwiched between blades.

Wiring

25-foot RJ11 cable provided with damper plugs into panel and actuator.

Air Leakage, Damper Closed

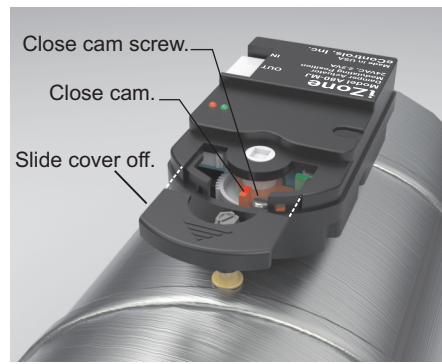
Less than 1.0% within duct and less than 0.25% external leakage at 1.0-inch static pressure.

Temperature, Operating

-20° to 175°F.

Maximum Static Pressure

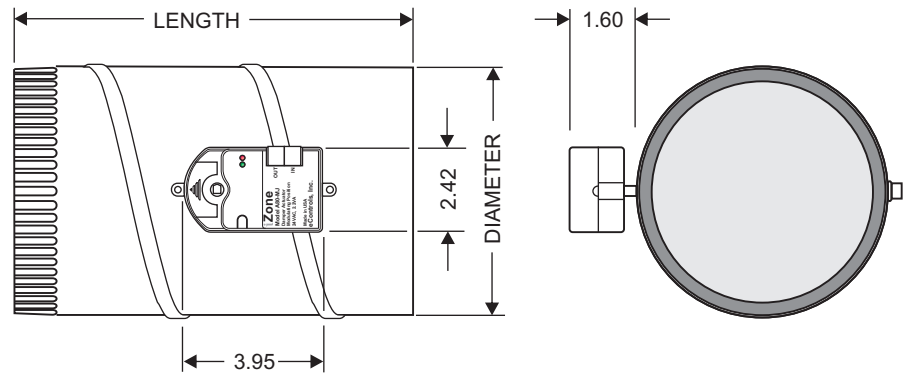
1.0 inch H₂O.



The slide off cover can be removed to adjust the close position from fully closed to about 50% closed. Loosen the screw holding the cam and rotate it clockwise and then tighten the screw.

Electronic Motor Control

The A80MJ uses electronic control of the motor rather than using the PCB and rotating wiper switches that degrade over time. The A80 has been tested to over 9 million cycles without failure.



All dimensions in inches

Model Number	Diameter	Length	Blades	Shell
R80J-04	4-inch	10-inch	26 gage	24 Gage
R80J-05	5-inch	10-inch	26 gage	24 Gage
R80J-06	6-inch	10-inch	26 gage	24 Gage
R80J-07	7-inch	10-inch	26 gage	24 Gage
R80J-08	8-inch	10-inch	26 gage	24 Gage
R80J-09	9-inch	10-inch	26 gage	24 Gage
R80J-10	10-inch	12-inch	26 gage	24 Gage
R80J-12	12-inch	14-inch	26 gage	24 Gage
R80J-14	14-inch	16-inch	26 gage	24 Gage
R80J-16	16-inch	18-inch	26 gage	24 Gage
R80J-18	18-inch	20-inch	26 gage	24 Gage
R80J-20	20-inch	22-inch	26 gage	24 Gage

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