



**YOUNG REGULATOR CO.**

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**MODEL EBDL-RND  
 ROUND ELECTRONIC  
 BALANCING DAMPER**

**APPLICATION AND DESIGN**

The Young EBDL-RND is an electronic balancing damper used when motor torque requirements exceed our standard EBD Model, due to large damper size. A 45 in. lb torque brushless DC actuator with potentiometer responds to an open or closed signal from the hand held power pack / positioner, pt. # EBDP-27V-P500 via a factory supplied cable. An LCD meter on the Hand Held Power Pack / Positioner responds to the resistive feedback from the potentiometer, providing the balancing contractor position indication.

<b>STANDARD CONSTRUCTION</b>	
<b>SHELL &amp; BLADE</b>	
Shell and blade are 16 gauge galvanized steel (Above 18" dia. - Blade is reinforced)	
Shaft	1/2" dia. plated steel
Bearings	Flange Bronze Oilite
<b>SIZE INFORMATION</b>	
Please inquire for larger sizes	
Shell	7.5" deep
Max size	36" O.D.
Min size	4" O.D.
<b>BRUSHLESS DC MOTOR</b>	
Volts	24V DC ± 10%
Watts	1.5
VA	2.5
Amp	0.085
Timing	95 Seconds
Torque	45 in. lbs.
Feedback Potentiometer	500 Ω
Minimum and maximum air stops	
<b>ACCESSORIES</b>	
EBDC Cable one required per damper up to 1,000 in length	
EBDLP Positioner / Power Pack - at least 1 per job required	
EBD-WALL-XX Wall Port Termination, 1,2,4,6 and 12 port available	
<b>DAMPER OPTIONS</b>	
Aluminum or Stainless Steel Construction	
Flanged Frame	



**OPERATION:**

The Positioner is turned on via a side-mounted switch that enables the meter to indicate damper position. 3 Non-rechargeable 9v lithium batteries power the Positioner.

Once the unit is connected to a receptacle, the meter indicates blade position modulating over a range of 0 – 100% open via a voltage signal that is proportional to the blade angle.

The position of the damper blade is controlled by the use of a front mounted rocker switch, opening the damper by depressing the right side of the switch and closing the damper by depressing the left side of the switch. The meter indicates the exact position of the damper blade. The switch will return to the neutral center position when released.

When finished adjusting dampers at the worksite, be sure to turn the Positioner off with the side switch to extend battery life. Positioner should be returned to the owner.

QUANTITY	DIAMETER	VOLTS	COMMENTS
<b>PROJECT</b>		<b>LOCATION</b>	
<b>CONTRACTOR</b>		<b>DESIGN SPECIFIER</b>	