

FlexRight Energy Saving Test Data

Lab Test – (Pressure)



Fig. 1
Straight Duct
(base line test)



Fig. 2
Test w/ kinked duct



Fig. 3
Test w/ FlexRight

- Pressure drop increases 25 times from straight duct to kinked duct
- Pressure drop only increases 5 times from straight duct to duct w/ FlexRight
 - This equates to an 80% improvement

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Energy Savings – Through a Reduction In Total Pressure

Energy Savings Example			
Flex duct dia.	8"	10"	14"
Velocity (fpm)	800	800	800
CFM	280	440	800
Elect. Cost/kwH	Energy savings		
\$0.06	\$4.50	\$7.06	\$13.81
\$0.10	\$7.50	\$11.76	\$23.04
\$0.14	\$10.48	\$16.50	\$32.26

Energy Savings Example			
Flex duct dia.	8"	10"	14"
Velocity (fpm)	800	800	800
CFM	280	440	800
Elect. Cost/kwH	Energy savings		
\$0.06	\$1.54	\$2.47	\$4.73
\$0.10	\$2.57	\$4.03	\$7.89
\$0.14	\$3.59	\$5.65	\$11.05

- Calculations based on 8760 hours
 - 365 days x 24 hrs

- Calculations based on 3000 hours
 - 250 days x 12 hrs

- Cost savings formula from ASHRAE Handbook

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