

ANNUAL ENERGY COST SAVINGS

with Vari+Plus GT Barrier Filters
Based on Pressure Drop Differential
24-7-365 Operation

Cost of Power \$ per KWH	Generator Size 10 MW				Generator Size 50 MW			
	Decrease in Resistance - In. w.g.				Decrease in Resistance - In. w.g.			
	0.25"	0.50"	0.75"	1.00"	0.25"	0.50"	0.75"	1.00"
\$0.04	\$4,380	\$8,760	\$13,140	\$17,520	\$21,900	\$43,800	\$65,700	\$87,600
\$0.05	\$5,475	\$10,950	\$16,425	\$21,900	\$27,375	\$54,750	\$82,125	\$109,500
\$0.06	\$6,570	\$13,140	\$19,710	\$26,280	\$32,850	\$65,700	\$98,550	\$131,400
\$0.07	\$7,665	\$15,330	\$22,995	\$30,660	\$38,325	\$76,650	\$114,975	\$153,300
\$0.08	\$8,760	\$17,520	\$26,280	\$35,040	\$43,800	\$87,600	\$131,400	\$175,200
\$0.09	\$9,855	\$19,710	\$29,565	\$39,420	\$49,275	\$98,550	\$147,825	\$197,100
\$0.10	\$10,950	\$21,900	\$32,850	\$43,800	\$54,750	\$109,500	\$164,250	\$219,000
Cost of Power \$ per KWH	Generator Size 100 MW				Generator Size 150 MW			
	Decrease in Resistance - In. w.g.				Decrease in Resistance - In. w.g.			
	0.25"	0.50"	0.75"	1.00"	0.25"	0.50"	0.75"	1.00"
\$0.04	\$43,800	\$87,600	\$131,400	\$175,200	\$65,700	\$131,400	\$197,100	\$262,800
\$0.05	\$54,750	\$109,500	\$164,250	\$219,000	\$82,125	\$164,250	\$246,375	\$328,500
\$0.06	\$65,700	\$131,400	\$197,100	\$262,800	\$98,550	\$197,100	\$295,650	\$394,200
\$0.07	\$76,650	\$153,300	\$229,950	\$306,600	\$114,975	\$229,950	\$344,925	\$459,900
\$0.08	\$87,600	\$175,200	\$262,800	\$350,400	\$131,400	\$262,800	\$394,200	\$525,600
\$0.09	\$98,550	\$197,100	\$295,650	\$394,200	\$147,825	\$295,650	\$443,475	\$591,300
\$0.10	\$109,500	\$219,000	\$328,500	\$438,000	\$164,250	\$328,500	\$492,750	\$657,000

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Basis of Energy Cost Savings

For every 1.0" W.G. decrease in inlet air resistance, there is a savings of 0.5% in energy cost to operate the turbine.

Example

50 MW Generator

Power cost @ \$.07 per KWH

Resistance Advantage with Vari+Plus GT - .25" W.G.

Savings = .25" W.G. x .005 x 50 MW x 1000 KW/MW x
24 Hours / Day x 365 Days / Year x \$.07 per KWH

Savings = 547,500 KWH / Year

Savings = \$38,325