## Cost Savings due to the reduction of the header pressure if JCV is used:

Zone	Avg. Air Flow/zone (scfm)	Operating hrs.	Operating days/week	Total Avg Air Flow (scf/week)	
Zone 1-1	1,034	24	7	10,422,720	
Zone 1-2	1,047	2	1	125,640	
Zone 1-3	1,273	24	7	12,831,840	
Zone 1-4	790	24	7	7,963,200	
Total				31,343,400	

Estimated Average Air Flow Q:	3,109 scfm		
Power Cost (USD/KWh):	0.13 USD/ KWh		
Total Operating Hours/year:	8,760 Hr/year		

Pressure loss through the BFV:	0.500 psi (minimum)
Pressure loss through the EDCV:	0.030 psi (by design)
Reduction of Header Pressure:	0.470 psi

Reduction of Header Pressure Δp (psi)	Power Savings ΔP (KW)	Blower Efficiency (assumption)	Actual Power Savings (KW)	Savings 1 year (KWh)	Savings 1 year (USD)	Savings 5 years (USD)	Savings 10 years (USD)
0.300	3.0	80%	3.8	33,275.5	\$4,326	\$21,629	\$43,258
0.350	3.5	80%	4.4	38,821.4	\$5,047	\$25,234	\$50,468
0.375	3.8	80%	4.7	41,594.3	\$5 <i>,</i> 407	\$27,036	\$54,073
0.400	4.1	80%	5.1	44,367.3	\$5 <i>,</i> 768	\$28,839	\$57,677
0.450	4.6	80%	5.7	49,913.2	\$6,489	\$32,444	\$64,887
0.475	4.8	80%	6.0	52,686.2	\$6,849	\$34,246	\$68,492
0.500	5.1	80%	6.3	55,459.1	\$7,210	\$36,048	\$72,097
0.600	6.1	80%	7.6	66,551.0	\$8,652	\$43,258	\$86,516
0.700	7.1	80%	8.9	77,642.8	\$10,094	\$50,468	\$100,936

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## Assumptions and Calculation Basis:

 $\Delta P [HP] = Q [scfm] * \Delta p [psi] / 229$  (1 HP = 0.746 kW)

	Airflow (Nm3/h) as shown in the above screen shot				
Zone	1	2	3	4	
Set Point	1500	795	795	2001	
Actual	1493	781	787	1998	
Δ	0.47%	1.76%	1.01%	0.15%	