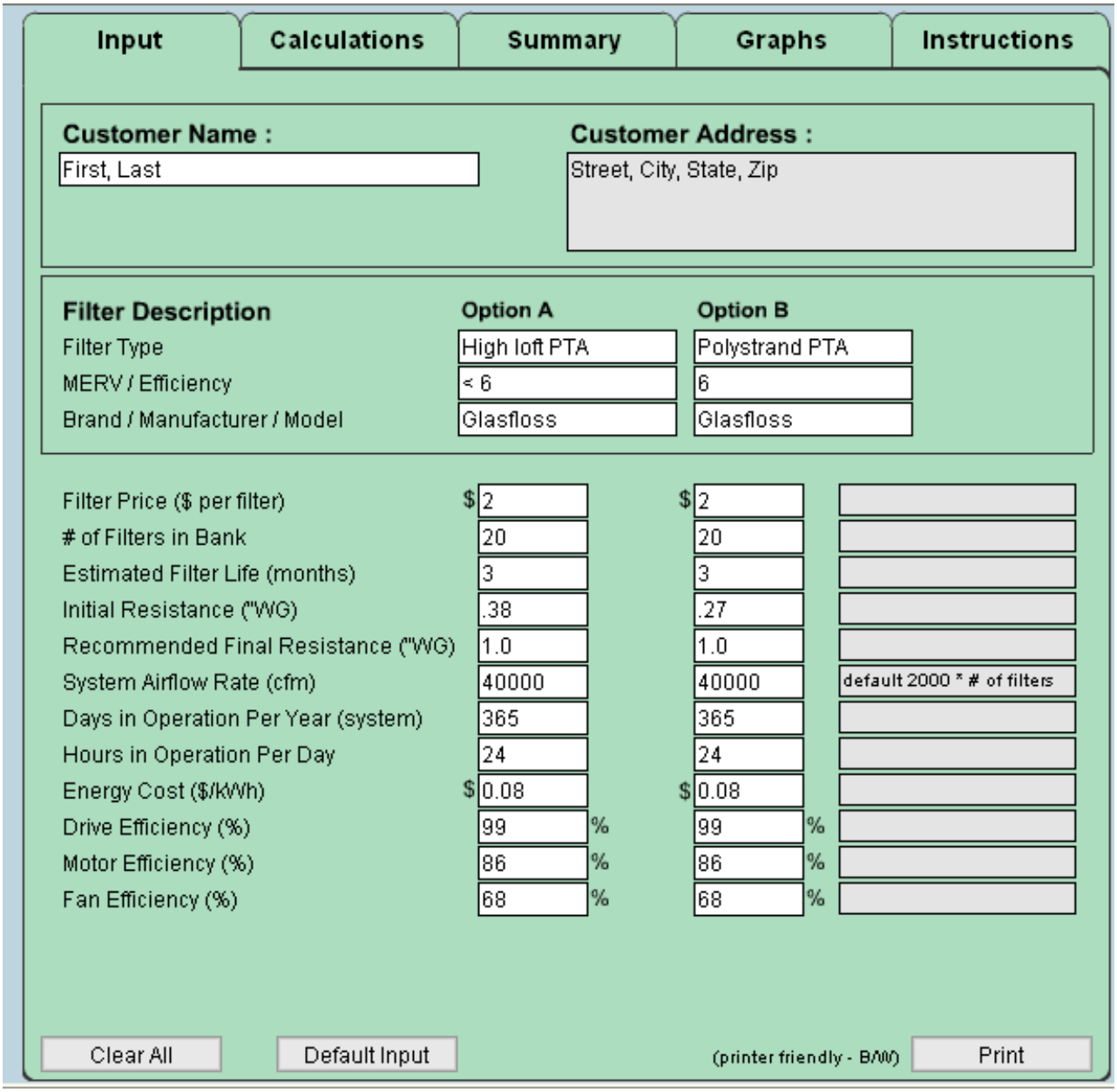
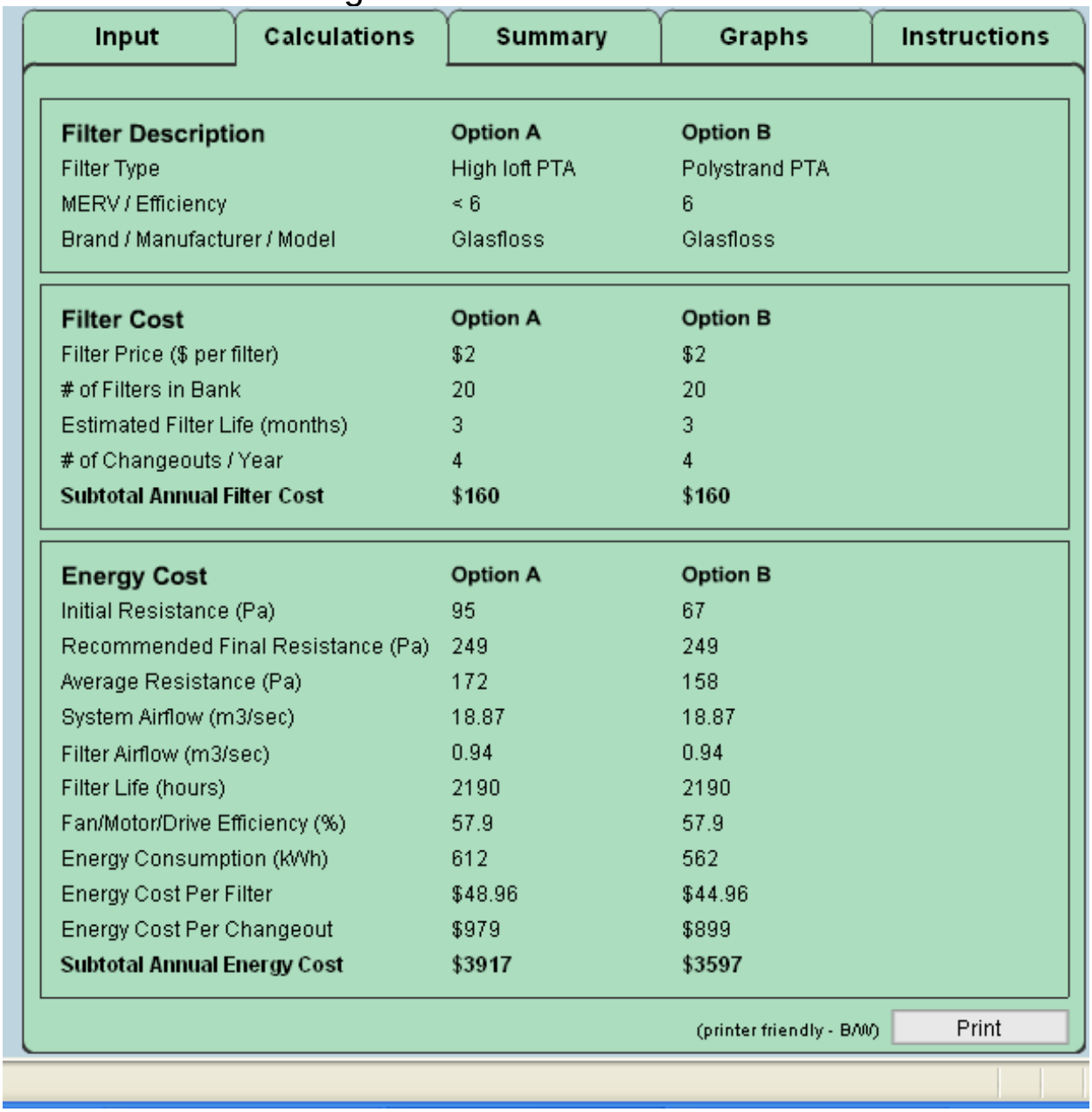
Life Cycle/Energy Cost Comparison

Glasfloss “PTA” w/PolyStrand® Media vs. Standard Polyester Media

Please scroll down to see the dramatic energy savings with new PolyStrand® media



Data showing how the results are calculated.



Input | Calculations | Summary | Graphs | Instructions

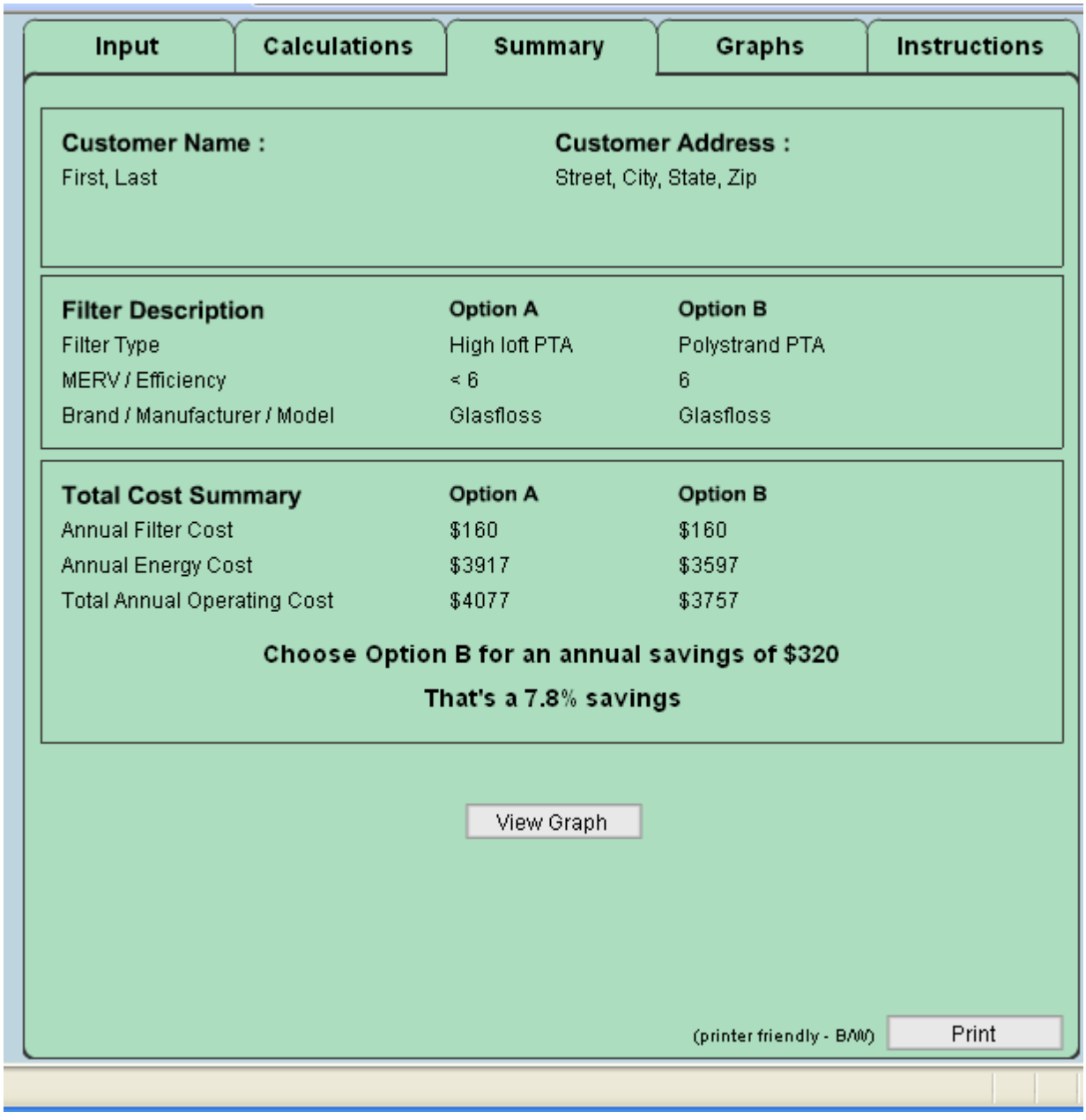
Filter Description	Option A	Option B
Filter Type	High loft PTA	Polystrand PTA
MERV / Efficiency	< 6	6
Brand / Manufacturer / Model	Glasfloss	Glasfloss

Filter Cost	Option A	Option B
Filter Price ($ per filter)	$2	$2
# of Filters in Bank	20	20
Estimated Filter Life (months)	3	3
# of Changeouts / Year	4	4
Subtotal Annual Filter Cost	**$160**	**$160**

Energy Cost	Option A	Option B
Initial Resistance (Pa)	95	67
Recommended Final Resistance (Pa)	249	249
Average Resistance (Pa)	172	158
System Airflow (m3/sec)	18.87	18.87
Filter Airflow (m3/sec)	0.94	0.94
Filter Life (hours)	2190	2190
Fan/Motor/Drive Efficiency (%)	57.9	57.9
Energy Consumption (kWh)	612	562
Energy Cost Per Filter	$48.96	$44.96
Energy Cost Per Changeout	$979	$899
Subtotal Annual Energy Cost	**$3917**	**$3597**

(printer friendly - B/W) Print

This summary shows the annual filter and electricity cost.
As you can see, the difference in initial pressure drop essentially makes the filters free! This was set up for one air handler of 20-24x24x2" filters. Larger air handlers or schools with multiple air handlers will realize this electrical savings in multitudes.



This graph shows the difference between product cost & electrical cost. As you can see, even this slight difference in initial resistance can result in a tremendous difference in electricity savings.