

Frigitek® Three-Phase Savings Analysis			Analysis Sheet # 1 of		2
Date -	July 21, 2006				
Customer -	Our Best Customer				
Room Description -	Produce Room				
Contact -	John Smith - General Manager				
Phone -	831-768-8818				
Total number of Fan Motors -	6		Hp/Motor -	1.00	
Fan motors per Power Unit -	3		Power Unit Hp -	3.00	
Fan Voltage -	460	V	Total Fan Hp -	6.00	Hp
Total Fan Motor Kw ⁽¹⁾ -	7.46	Kw	Motor Efficiency ⁽²⁾ -	60.00	%
Fan Motors Speed (RPM) ⁽³⁾ -	1750		Motor Kw/Hp ⁽⁴⁾ -	1.243	
Electricity Cost per Kwh ⁽⁵⁾ -	10.0	Cents	Normal Duty Cycle ⁽⁶⁾ -	40	%
Operation time factor ⁽⁷⁾ -	100	%	Frigitek Duty Cycle ⁽⁸⁾ -	38.00	%
Number of Thermostats -	1		Duty Cycle Reduction ⁽⁹⁾ -	5.00	%
Frigitek Cost, Model -	\$4,250.00	3.00	Hp Power Units	Quan - 2	
Controller, Tee ⁽¹⁰⁾ -	\$345.00	1	Controllers and Tees		
Sales Tax -	\$0.00		Sales Tax Rate (%) -	0.000	
Install, Shipping, other costs -	\$0.00				
Total Cost -	\$4,595.00				
Total Frigitek Kwh Savings ⁽¹¹⁾ -	4115.6	/Mo Avg	49,387.6	/Yr	
Total Frigitek Dollar Savings ⁽¹¹⁾ -	\$411.56	/Mo Avg	\$4,938.76	/Yr	
Payback Time (ROI) ⁽¹²⁾ -	11.16	Months			
Analysis Details -----					
Before Frigitek					
Full-time High Speed Fan Cost ⁽¹³⁾ -	\$544.35	/Mo Avg	\$6,532.19	/Yr	
Fan Motors Kwh/Mo -	5,443.49	Kwh/Mo Avg	65,322	Kwh/Yr	
With Frigitek					
Frigitek Power Reduction Factor ⁽¹⁴⁾ -	90	%			
Fans Kwh Saved -	3037.47	/Mo Avg	36,449.61	/Yr	
Fan High Speed Cost ⁽¹⁵⁾ -	\$206.85	/Mo Avg	\$2,482.23	/Yr	
Fan Low Speed Cost ⁽¹⁶⁾ -	\$33.75	/Mo Avg	\$405.00	/Yr	
Total Fan Cost with Frigitek -	\$240.60	/Mo Avg	\$2,887.23	/Yr	
Fan Dollar Savings ⁽¹⁷⁾ -	\$303.75	/Mo Avg	\$3,644.96	/Yr	
Compressor Cost Reduction					
Fan Heat Power Reduction ⁽¹⁸⁾ -	2774.00	Watts	Heat Reduction ⁽¹⁹⁾ -	60	%
Fan Heat Reduction ⁽²⁰⁾ -	9465.18	BTU/Hr	Heat Transfer Factor ⁽²¹⁾ -	9500	
Compressor Hp use Reduction ⁽²²⁾ -	0.996335	Hp/Hr	Comp. Kw/Hp ⁽²³⁾ -	1.36	
Compressor Pwr use Reduction ⁽²⁴⁾ -	1.355015	Kw/Hr	Cond. fan Savings ⁽²⁵⁾ -	\$8.90	/Mo
Compressor Pwr use Reduction ⁽²⁴⁾ -	989.14	Kwh/Mo			
Compressor Cost reduction ⁽²⁶⁾ -	\$107.82	/Mo Avg	\$1,293.79	/Yr	
Note - Numbers in parentheses refer to "Frigitek® Three-Phase Savings Analysis – Calculations and Factors explained"					
Sheet version - 11/27/06					