

Frigitek® Single-Phase Savings Analysis			Analysis Sheet # 2 of		2
Date -	July 25, 2005				
Customer -	Our Valued Customer				
Room and Evap. Description -	Freezer				
Contact -	John Smith - General Manager				
Phone -	831-768-8818				
Number of Evaporators on this sheet -	2	Enter one of these -			
Fan motors per Evaporator -	4	Amps/Motor -		0.95	
Fan Voltage -	240	or Total Motor Amps -		0.00	
Motor Type (S, C or E) ⁽¹⁾ -	S	Compressor Type ⁽²⁾			
Motor Power Factor ⁽¹⁾ -	0.58	(S)ingle or (T)hree Phase -		S	
Electricity Cost per Kwh ⁽³⁾ -	10.0	Cents	Normal Duty Cycle ⁽⁴⁾ -	40.00	%
Operation time factor ⁽⁵⁾ -	100	%	Frigitek Duty Cycle ⁽⁶⁾ -	32.00	%
Fan Motors Kwh/Mo -	772.3	Avg	Total Fan Motor Watts ⁽⁷⁾ -	1057.9	W
Frigitek Cost, Quan., Model -	\$1,120.00	2	Model	240V - 5A	
Tax Amount -	\$0.00	Tax Rate (%) -		0.000	
Install, Shipping, other costs -	\$0.00				
Total Cost -	\$1,120.00				
Total Frigitek Kwh Savings ⁽⁸⁾ -	675.04	/Mo Avg	8,100.51	/Yr	
Total Frigitek Dollar Savings ⁽⁸⁾ -	\$67.50	/Mo Avg	\$810.05	/Yr	
Payback Time (ROI) ⁽⁹⁾ -	16.59	Months			
Analysis Details -----					
Before Frigitek					
Full-time High Speed Fan Cost ⁽¹⁰⁾ -	\$77.23	/Mo Avg	\$926.72	/Yr	
With Frigitek					
Frigitek Power Reduction Factor ⁽¹¹⁾ -	80	%			
Full-Time Low Speed Cost -	\$15.45	/Mo	\$185.34	/Yr	
Fans Kwh Saved -	420.11	/Mo Avg	5,041.34	/Yr	
Fan High Speed Cost ⁽¹²⁾ -	\$24.71	/Mo Avg	\$296.55	/Yr	
Fan Low Speed Cost ⁽¹³⁾ -	\$10.50	/Mo Avg	\$126.03	/Yr	
Total Fan Cost with Frigitek -	\$35.22	/Mo Avg	\$422.58	/Yr	
Fan Dollar Savings ⁽¹⁴⁾ -	\$42.01	/Mo Avg	\$504.13	/Yr	
Compressor Cost Reduction					
Fan Power Reduction ⁽¹⁵⁾ -	575.51	Watts	Heat Transfer Factor ⁽¹⁶⁾ -	9500	
Fan Heat Reduction ⁽¹⁷⁾ -	1963.69	BTU/Hr	Comp. Kw/Hp ⁽¹⁸⁾ -	1.55	
Compressor Hp use Reduction ⁽¹⁹⁾ -	0.2067045	Hp/Hr			
Compressor Power use Reduction ⁽²⁰⁾ -	0.32039193	Kw/Hr	Cond. fan Savings ⁽²¹⁾ -	\$2.10	/Mo
Compressor Power use Reduction ⁽²⁰⁾ -	233.88	Kwh/Mo			
Compressor Cost reduction ⁽²²⁾ -	\$25.49	/Mo Avg	\$305.92	/Yr	
Note - Numbers in parentheses refer to Explanation Sheet.					
Sheet version - 11/21/06					