

Frigitek® Single-Phase Savings Analysis				Analysis Sheet # 1 of		2	
Date -		July 25, 2005					
Customer -		Our Valued Customer					
Room and Evap. Description -		Dairy Room					
Contact -		John Smith - General Manager					
Phone -		831-768-8818					
Number of Evaporators on this sheet -		2		Enter one of these -			
Fan motors per Evaporator -		5		Amps/Motor -		1.60	
Fan Voltage -		120		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 -		812.9 Avg		Total Fan Motor Watts ⁽⁷⁾ -		1113.6 W	
Frigitek Cost, Quan., Model -		\$1,140.00 2		Model		120V - 10A	
Tax Amount -		\$0.00		Tax Rate (%) -		0.000	
Install, Shipping, other costs -		\$0.00					
Total Cost -		\$1,140.00					
Total Frigitek Kwh Savings ⁽⁸⁾ -		710.57 /Mo Avg		8,526.85 /Yr			
Total Frigitek Dollar Savings ⁽⁸⁾ -		\$71.06 /Mo Avg		\$852.68 /Yr			
Payback Time (ROI) ⁽⁹⁾ -		16.04 Months					
Analysis Details -----							
Before Frigitek							
Full-time High Speed Fan Cost ⁽¹⁰⁾ -		\$81.29 /Mo Avg		\$975.49 /Yr			
With Frigitek							
Frigitek Power Reduction Factor ⁽¹¹⁾ -		80 %					
Full-Time Low Speed Cost -		\$16.26 /Mo		\$195.10 /Yr			
Fans Kwh Saved -		442.22 /Mo Avg		5,306.68 /Yr			
Fan High Speed Cost ⁽¹²⁾ -		\$26.01 /Mo Avg		\$312.16 /Yr			
Fan Low Speed Cost ⁽¹³⁾ -		\$11.06 /Mo Avg		\$132.67 /Yr			
Total Fan Cost with Frigitek -		\$37.07 /Mo Avg		\$444.82 /Yr			
Fan Dollar Savings ⁽¹⁴⁾ -		\$44.22 /Mo Avg		\$530.67 /Yr			
Compressor Cost Reduction							
Fan Power Reduction ⁽¹⁵⁾ -		605.80 Watts		Heat Transfer Factor ⁽¹⁶⁾ -		9500	
Fan Heat Reduction ⁽¹⁷⁾ -		2067.04 BTU/Hr		Comp. Kw/Hp ⁽¹⁸⁾ -		1.55	
Compressor Hp use Reduction ⁽¹⁹⁾ -		0.2175837 Hp/Hr					
Compressor Power use Reduction ⁽²⁰⁾ -		0.33725466 Kw/Hr		Cond. fan Savings ⁽²¹⁾ -		\$2.22 /Mo	
Compressor Power use Reduction ⁽²⁰⁾ -		246.19 KwH/Mo					
Compressor Cost reduction ⁽²²⁾ -		\$26.83 /Mo Avg		\$322.02 /Yr			
Note - Numbers in parentheses refer to Explanation Sheet.							
Sheet version - 11/21/06							