

Frigitek® Three-Phase Savings Analysis			Analysis Sheet # 2 of		2
Date -	July 21, 2006				
Customer -	Our Best Customer				
Room Description -	Wine Cellar - 40 degree				
Contact -	John Smith - General Manager				
Phone -	831-768-8818				
Total number of Fan Motors -	8		Hp/Motor -	0.75	
Fan motors per Power Unit -	2		Power Unit Hp -	1.50	
Fan Voltage -	460	V	Total Fan Hp -	6.00	Hp
Total Fan Motor Kw <sup>(1)</sup> -	8.13	Kw	Motor Efficiency <sup>(2)</sup> -	55.00	%
Fan Motors Speed (RPM) <sup>(3)</sup> -	1750		Motor Kw/Hp <sup>(4)</sup> -	1.356	
Electricity Cost per Kwh <sup>(5)</sup> -	10.0	Cents	Normal Duty Cycle <sup>(6)</sup> -	30	%
Operation time factor <sup>(7)</sup> -	100	%	Frigitek Duty Cycle <sup>(8)</sup> -	28.50	%
Number of Thermostats -	2		Duty Cycle Reduction <sup>(9)</sup> -	5.00	%
Frigitek Cost, Model -	\$6,160.00	1.50	Hp Power Units	Quan - 4	
Controller, Tee <sup>(10)</sup> -	\$690.00	2	Controllers and Tees		
Sales Tax -	\$0.00		Sales Tax Rate (%) -	0.000	
Install, Shipping, other costs -	\$0.00				
<b>Total Cost -</b>	<b>\$6,850.00</b>				
Total Frigitek Kwh Savings <sup>(11)</sup> -	5177.7	/Mo Avg	62,132.7	/Yr	
<b>Total Frigitek Dollar Savings <sup>(11)</sup> -</b>	<b>\$517.77</b>	/Mo Avg	<b>\$6,213.27</b>	/Yr	
Payback Time (ROI) <sup>(12)</sup> -	13.23	Months			
<b>Analysis Details -----</b>					
<b>Before Frigitek</b>					
Full-time High Speed Fan Cost <sup>(13)</sup> -	\$593.84	/Mo Avg	\$7,126.02	/Yr	
Fan Motors Kwh/Mo -	5,938.35	Kwh/Mo Avg	71,260	Kwh/Yr	
<b>With Frigitek</b>					
Frigitek Power Reduction Factor <sup>(14)</sup> -	90	%			
Fans Kwh Saved -	3821.33	/Mo Avg	45,855.97	/Yr	
Fan High Speed Cost <sup>(15)</sup> -	\$169.24	/Mo Avg	\$2,030.92	/Yr	
Fan Low Speed Cost <sup>(16)</sup> -	\$42.46	/Mo Avg	\$509.51	/Yr	
Total Fan Cost with Frigitek -	\$211.70	/Mo Avg	\$2,540.43	/Yr	
Fan Dollar Savings <sup>(17)</sup> -	\$382.13	/Mo Avg	\$4,585.60	/Yr	
<b>Compressor Cost Reduction</b>					
Fan Heat Power Reduction <sup>(18)</sup> -	3489.88	Watts	Heat Reduction <sup>(19)</sup> -	60	%
Fan Heat Reduction <sup>(20)</sup> -	11907.81	BTU/Hr	Heat Transfer Factor <sup>(21)</sup> -	9500	
Compressor Hp use Reduction <sup>(22)</sup> -	1.253453	Hp/Hr	Comp. Kw/Hp <sup>(23)</sup> -	1.36	
Compressor Pwr use Reduction <sup>(24)</sup> -	1.704696	Kw/Hr	Cond. fan Savings <sup>(25)</sup> -	\$11.20	/Mo
Compressor Pwr use Reduction <sup>(24)</sup> -	1244.40	Kwh/Mo			
Compressor Cost reduction <sup>(26)</sup> -	\$135.64	/Mo Avg	\$1,627.68	/Yr	
Note - Numbers in parentheses refer to "Frigitek® Three-Phase Savings Analysis – Calculations and Factors explained"					