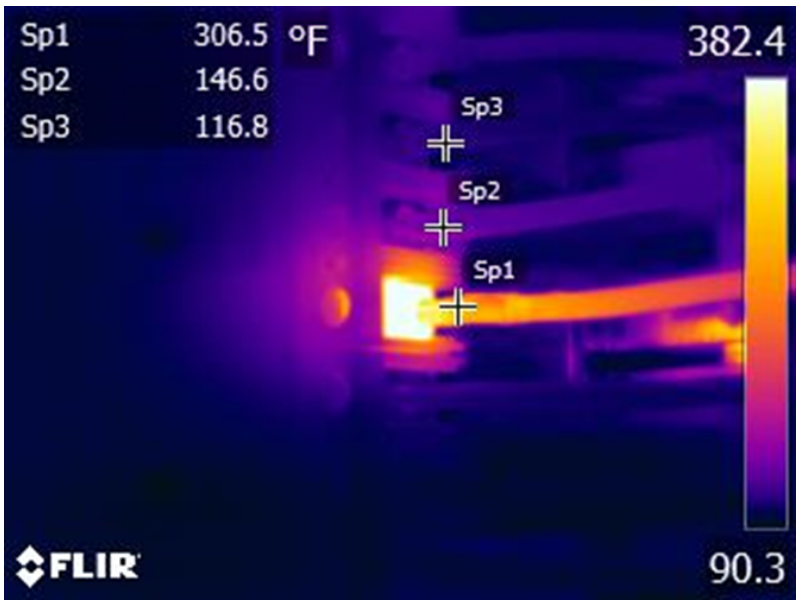


American Yeast
2024 Annual Infrared Survey Report

All electrical panels throughout the Memphis Plant were scanned using a FLIR **T865** infrared camera. The following report only contains defects that were found during the survey. Below is our classification system for each defect included in this report. If there are any questions or comments, please feelfree to contact us at any time.

HI-SPEED employs a three-tier defect rating system:

CLASS I: A defect or defects are present that are likely to cause a problem in the long term (2-6 months). Should be addressed in the normal course of maintenance scheduling.

CLASS II: A defect or defects are present that are likely to cause a failure in the short term (less than 2 months). Should be addressed as soon as practical, on a high maintenance priority. Consideration should be given to increase monitoring frequency.

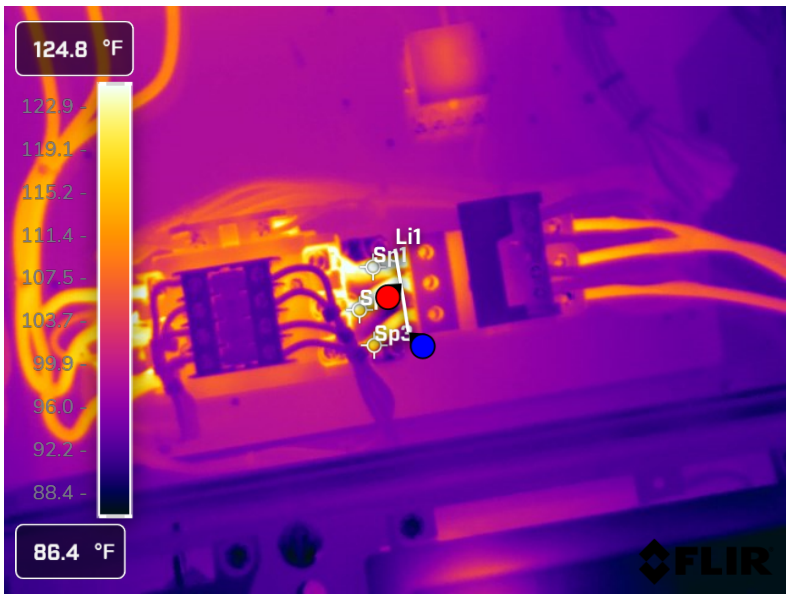
CLASS III: A defect or defects are present that make continued component reliability unpredictable and likelihood of secondary damage is high. Consideration should be given to an unscheduled shutdown to correct.

Component

Leads

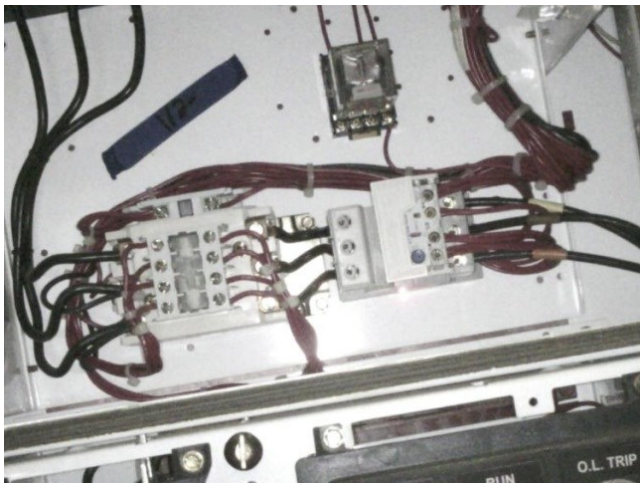
Equipment/Bucket ID

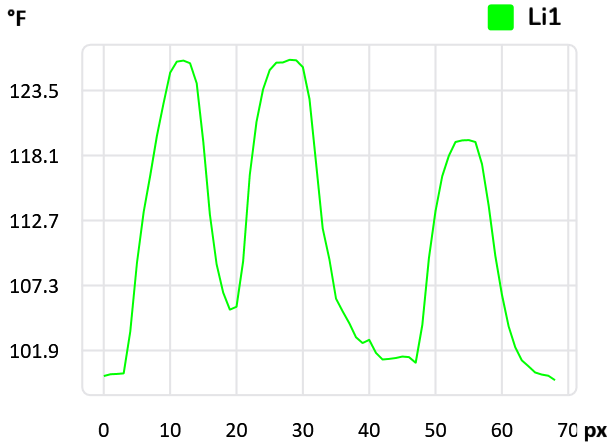
Sterile Molasses Tank Pump #1



Measurements

Li1	
Max	126.1 °F
Avg	111.4 °F
Min	99.5 °F
Sp1	127.3 °F
Sp2	119.6 °F
Sp3	117.5 °F





Fault

Lead Connection

Defect Rating

CLASS I

Recommendations

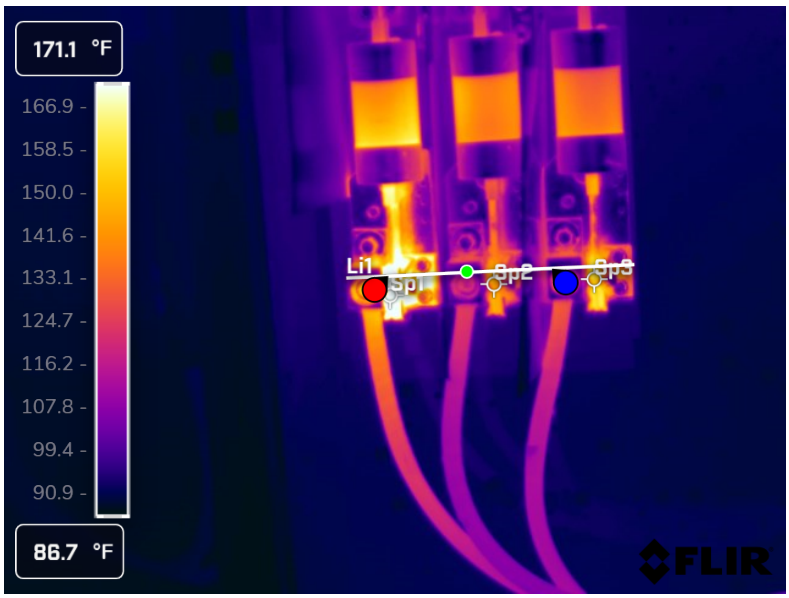
Wire may be undersized for the load or there may be a connection issue. Check amperage on each lead and ensure wire is rated for load. Also, ensure all connections are clean and tight.

Component

A Phase Fuse Connection

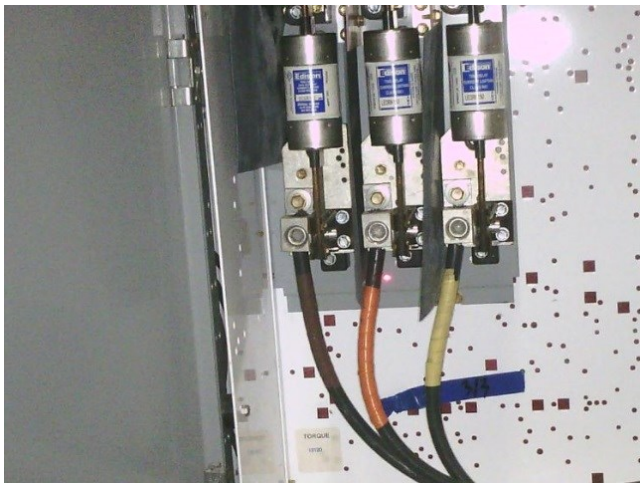
Equipment/Bucket ID

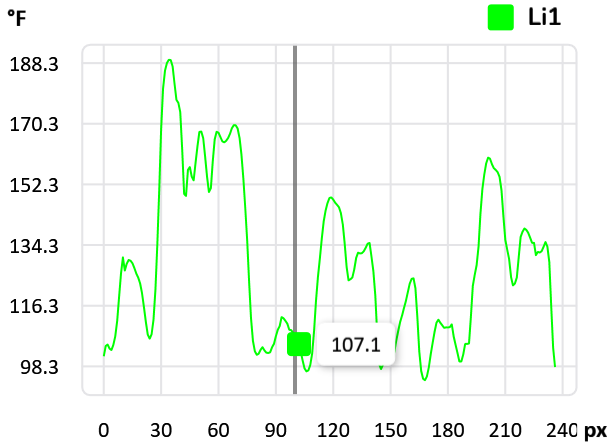
RVF2 Vacuum



Measurements

Li1	
Max	189.3 °F
Avg	128.9 °F
Min	94.2 °F
Sp1	194.5 °F
Sp2	147.0 °F
Sp3	156.5 °F





Fault

Faulty Fuse Connection

Defect Rating

CLASS II

Recommendations

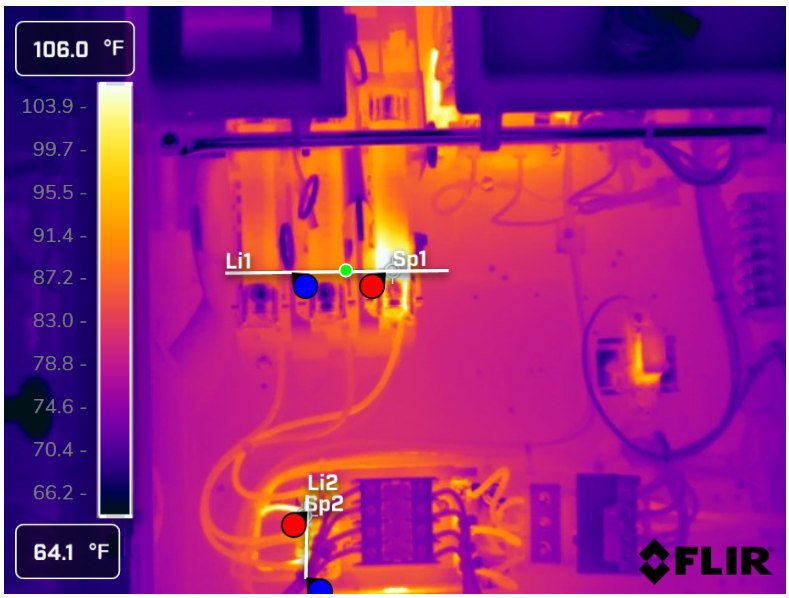
A phase fuse connection on load side appears to have an issue. Check lead connection and fuse clip assembly. Clean and ensure a tight connection. Fuse hoder assembly may need to be replaced due to wear.

Component

Fuse and lead connections

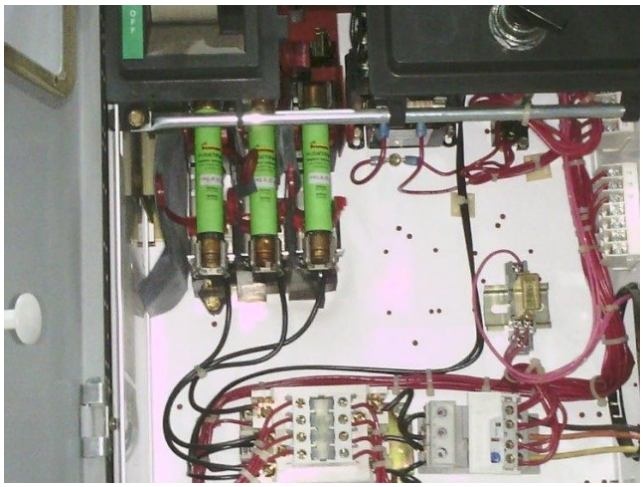
Equipment/Bucket ID

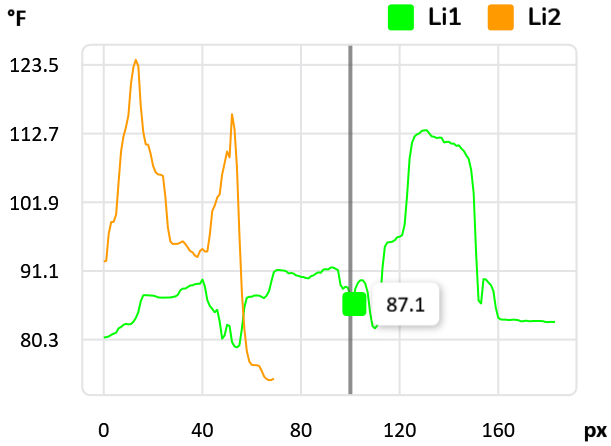
Supply Fan Turblex Rm



Measurements

Li1	
Max	113.3 °F
Avg	90.6 °F
Min	79.1 °F
Li2	
Max	124.3 °F
Avg	98.4 °F
Min	74.0 °F
Sp1	111.5 °F
Sp2	109.7 °F





Fault

Faulty Fuse and lead connection

Defect Rating

CLASS I

Recommendations

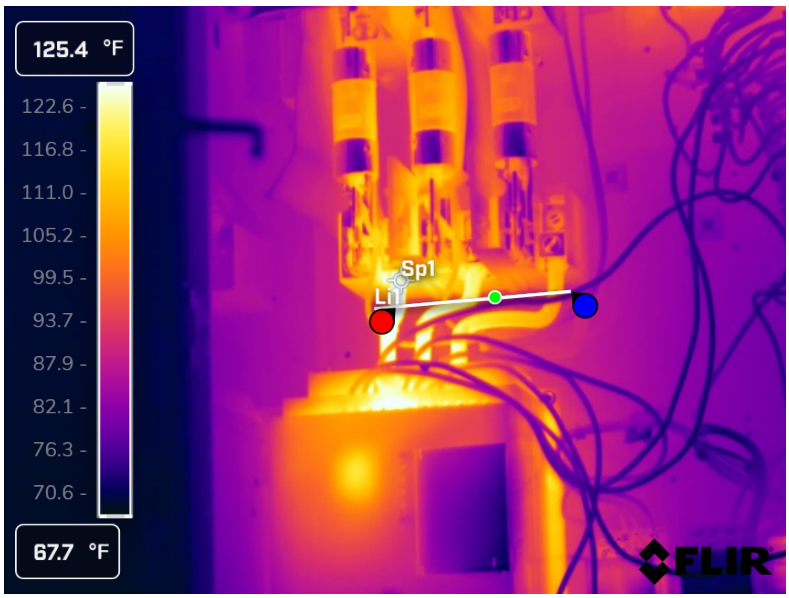
There appears to be two issues in this cabinet. The first issue is the C phase fuse on the load side. We recommend changing this fuse as it appears to have an internal issue. The second issue is likely a connection issue. Check connections on the terminal block ensuring a clean and tight connection.

Component

A phase lead

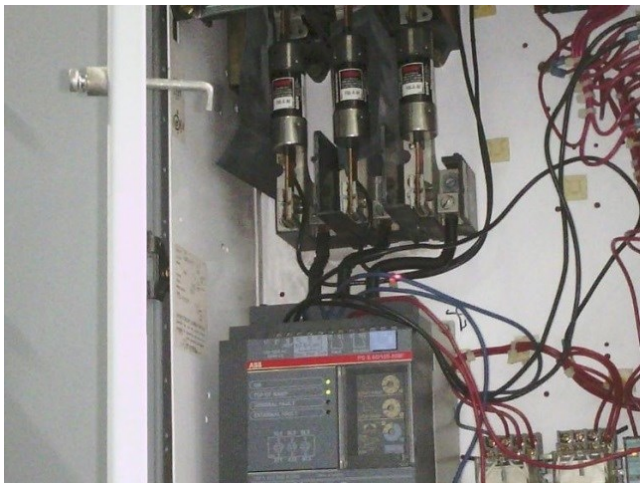
Equipment/Bucket ID

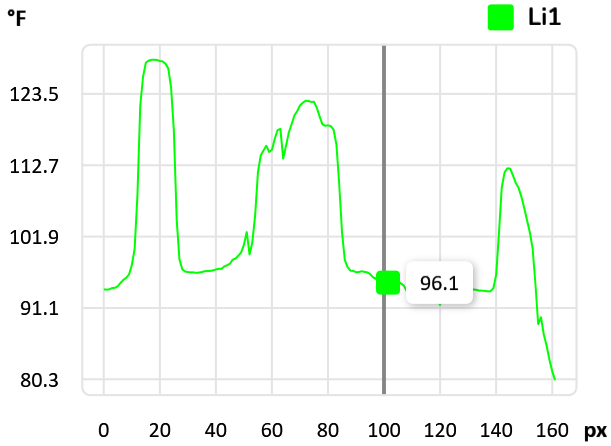
Warm Well Water Distribution Pump P1



Measurements

Li1	
Max	128.7 °F
Avg	103.1 °F
Min	80.2 °F
Sp1	126.5 °F





Fault

Load/connection issue

Defect Rating

CLASS I

Recommendations

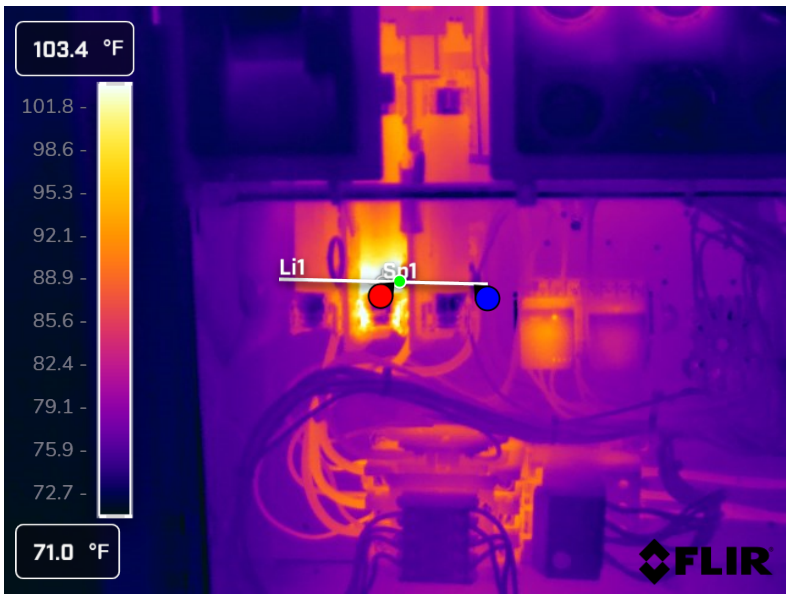
Wire may be undersized for the load or there may be a connection issue. Check connections and check wire for rated load.

Component

B phase fuse

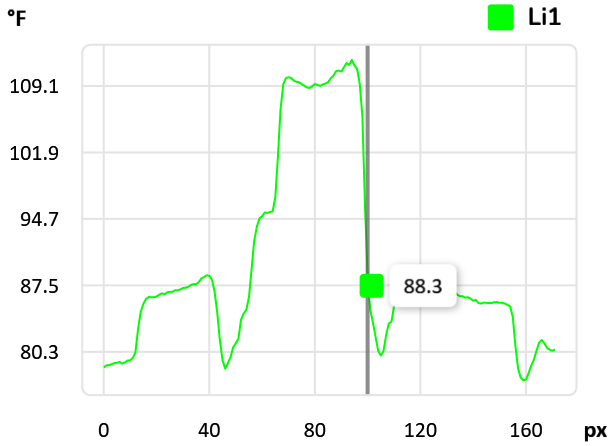
Equipment/Bucket ID

Waste water pit pump P2



Measurements

Li1	
Max	112.0 °F
Avg	89.9 °F
Min	77.3 °F
Sp1	110.3 °F



Fault

Weak/faulty fuse

Defect Rating

CLASS I

Recommendations

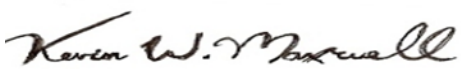
B phase fuse appears to have an issue. It is recommneded to change fuse as time allows. Ensure fuse holder/clip is in good shape and not worn or faulty.

Summary

File name	Created	Maximum temp.	Page number
FLIR0645.jpg	1/4/2000 6:12:26 PM	131.2 °F	3
FLIR0647.jpg	1/4/2000 6:16:53 PM	202.3 °F	4
FLIR0653.jpg	1/4/2000 7:25:47 PM	124.3 °F	5
FLIR0655.jpg	1/4/2000 7:41:48 PM	131.8 °F	6
FLIR0657.jpg	1/4/2000 7:47:22 PM	114.8 °F	7

This concludes our survey report. Please feel free to contact us at any time for question or comments.

Thank you for your business,



ITC Certified Level II Infrared Thermographer

(901) 486-4565

kwilliam@gohispeed.com