



**TEMPAIR®**



**Warren Barich**

Thermal Remediation Specialist

Pest Control Specialist

**TEMP-AIR**

**Division of Rupp Industries, Inc.**



# THERMAL REMEDICATION

FROM **TEMPAIR**



# **TEMPAIR®**

*Bringing Thermal Remediation and the application of heat treatment to many industries*

- Food Processing
- Rice Mills
- Flour Mills
- Pet Food
- Furniture
- Sterilizing
- Corn Mills
- Cereal Processing
- Pork Industry
- Chocolate Factories
- Chemical
- Gas Off
- Wood Packaging
- Custom Cabinetry
- Pest Control Industry
- Tobacco
- Pharmaceutical
- Insulation Curing



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# Monitoring and Logging

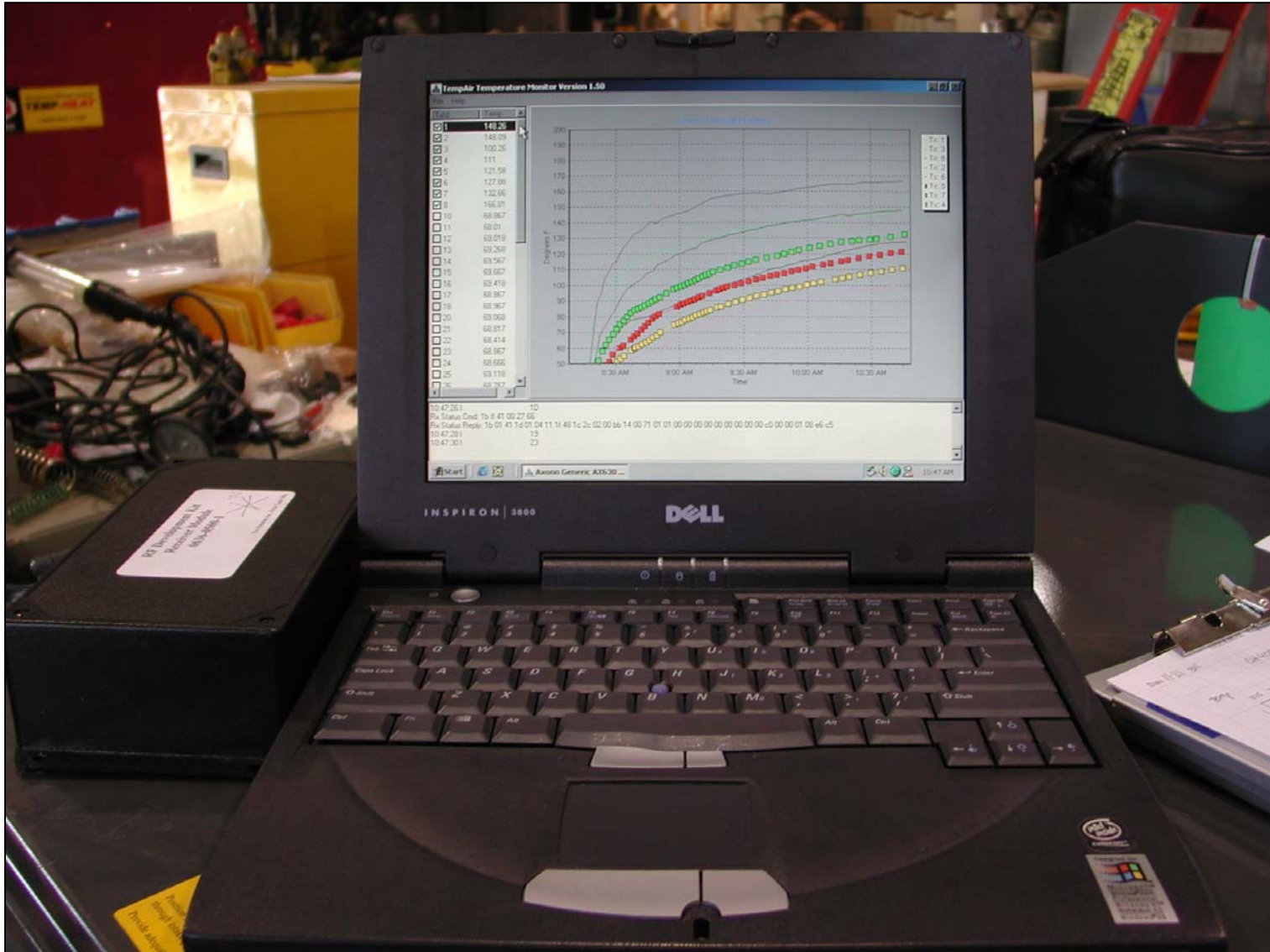


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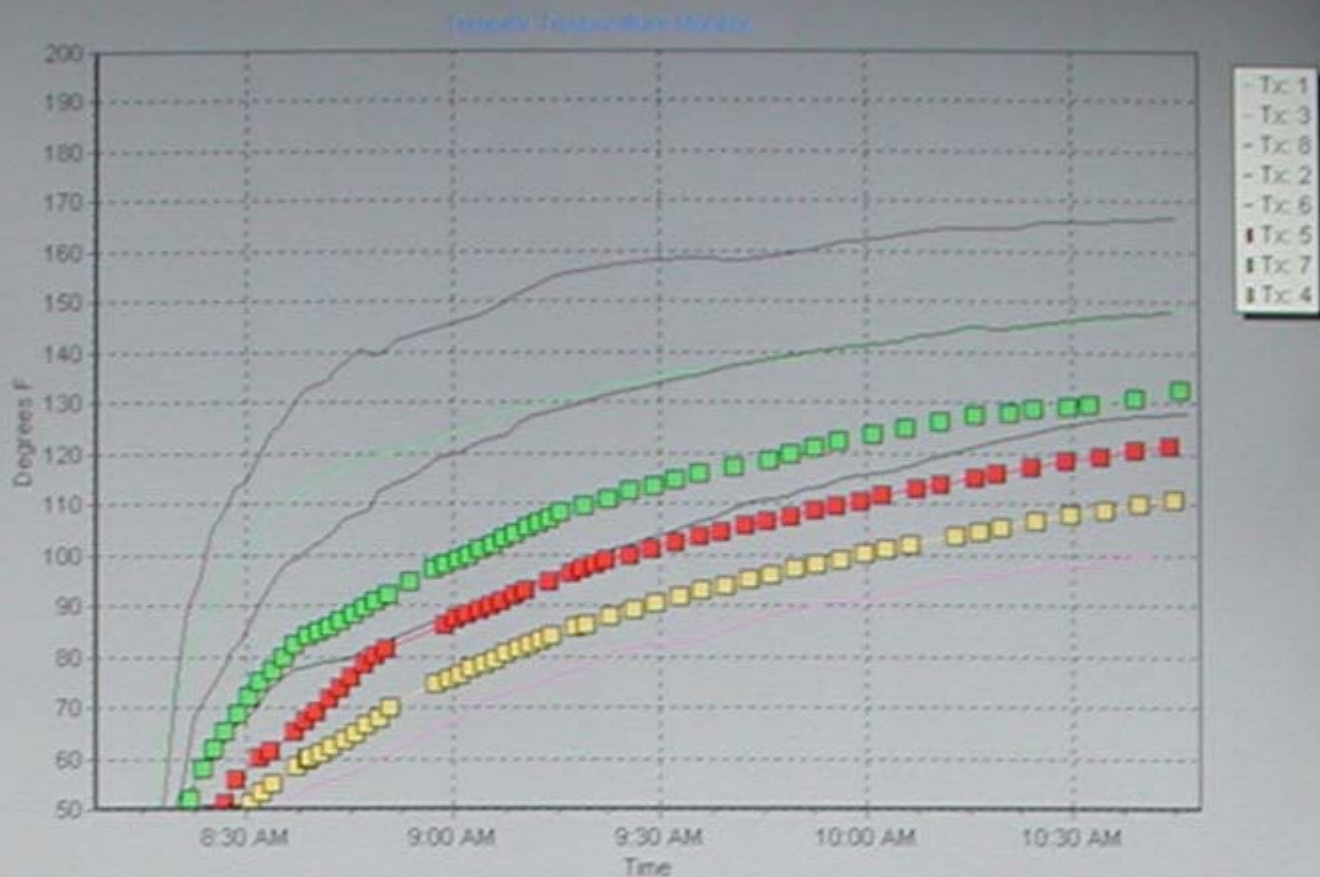




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Tyld	Temp
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<input checked="" type="checkbox"/> 2	148.09
<input checked="" type="checkbox"/> 3	100.26
<input checked="" type="checkbox"/> 4	111
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<input type="checkbox"/> 12	69.018
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<input type="checkbox"/> 14	69.567
<input type="checkbox"/> 15	69.667
<input type="checkbox"/> 16	69.418
<input type="checkbox"/> 17	68.867
<input type="checkbox"/> 18	68.967
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<input type="checkbox"/> 21	68.817
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10:47:26 I 1D

Rx Status Cmd: 1b ff 41 00 27 66

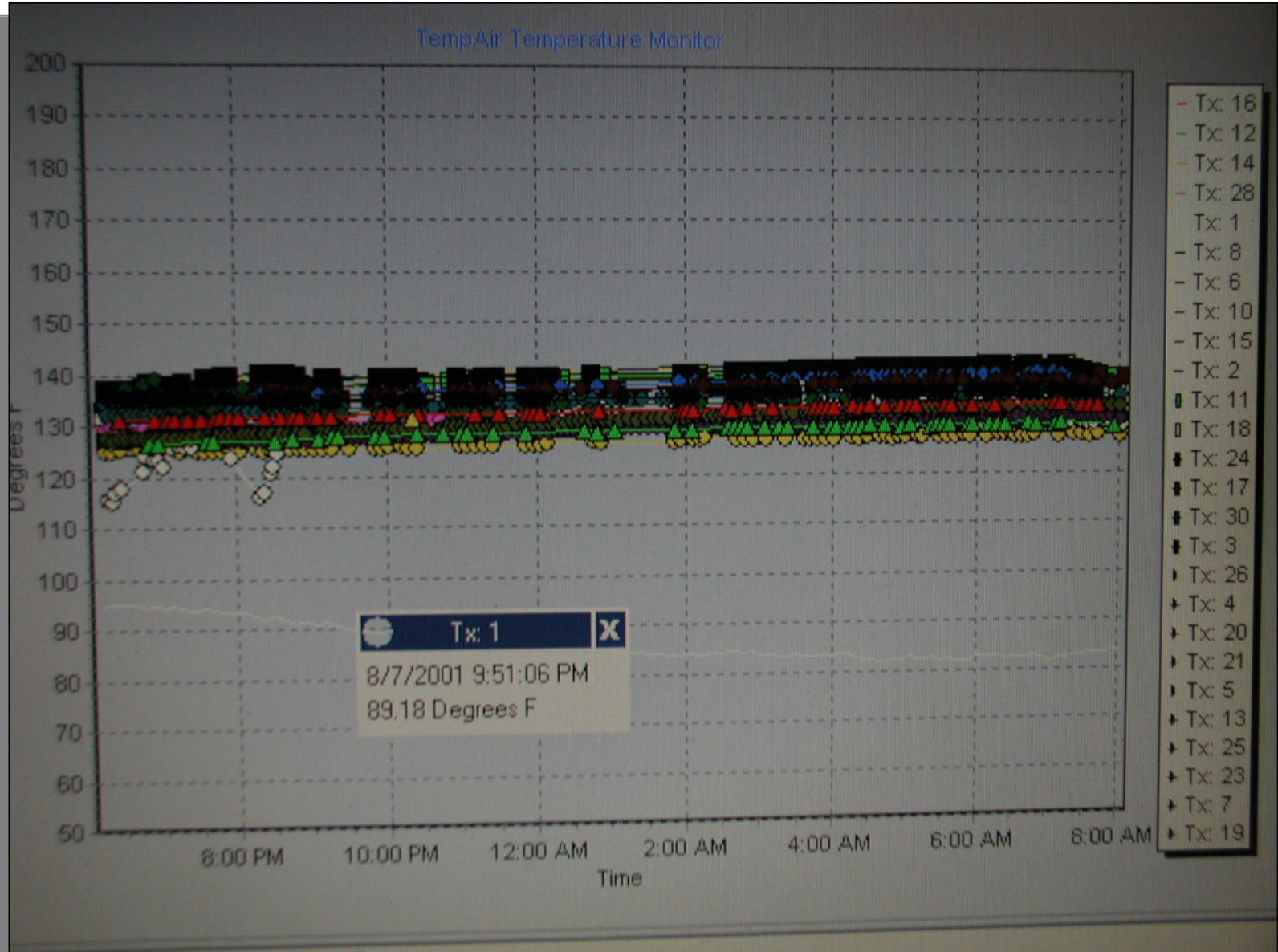
Rx Status Reply: 1b 01 41 1d 01 04 11 1f 48 1c 2c 02 00 bb 14 00 71 01 01 00 00 00 00 00 00 00 00 c0 00 00 01 08 e6 c5

10:47:28 I 19

10:47:30 I 23



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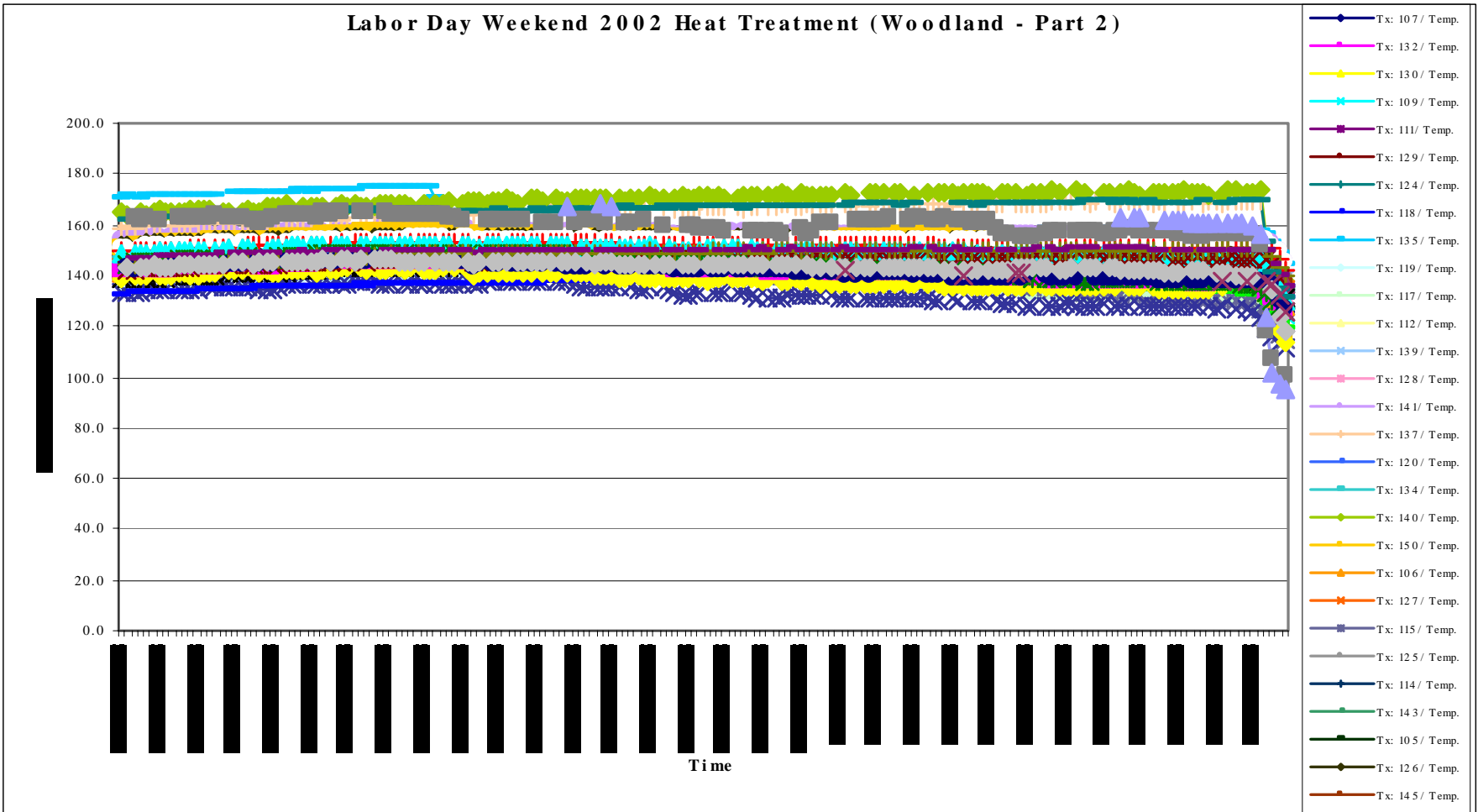


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# Past Performance

Labor Day Weekend 2002 Heat Treatment (Woodland - Part 2)





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## *Natural Gas / Propane*

### **Direct Fired**

***The most efficient and controllable  
heat treatment process***

- **From 300,000 to 4.5 Million Btu/Hr and 2,000 to 30,000 CFM**
- **Small to large physical size**
- **Contained flame**
  - **“Makeup-air” style**
  - **Redundant safety features**





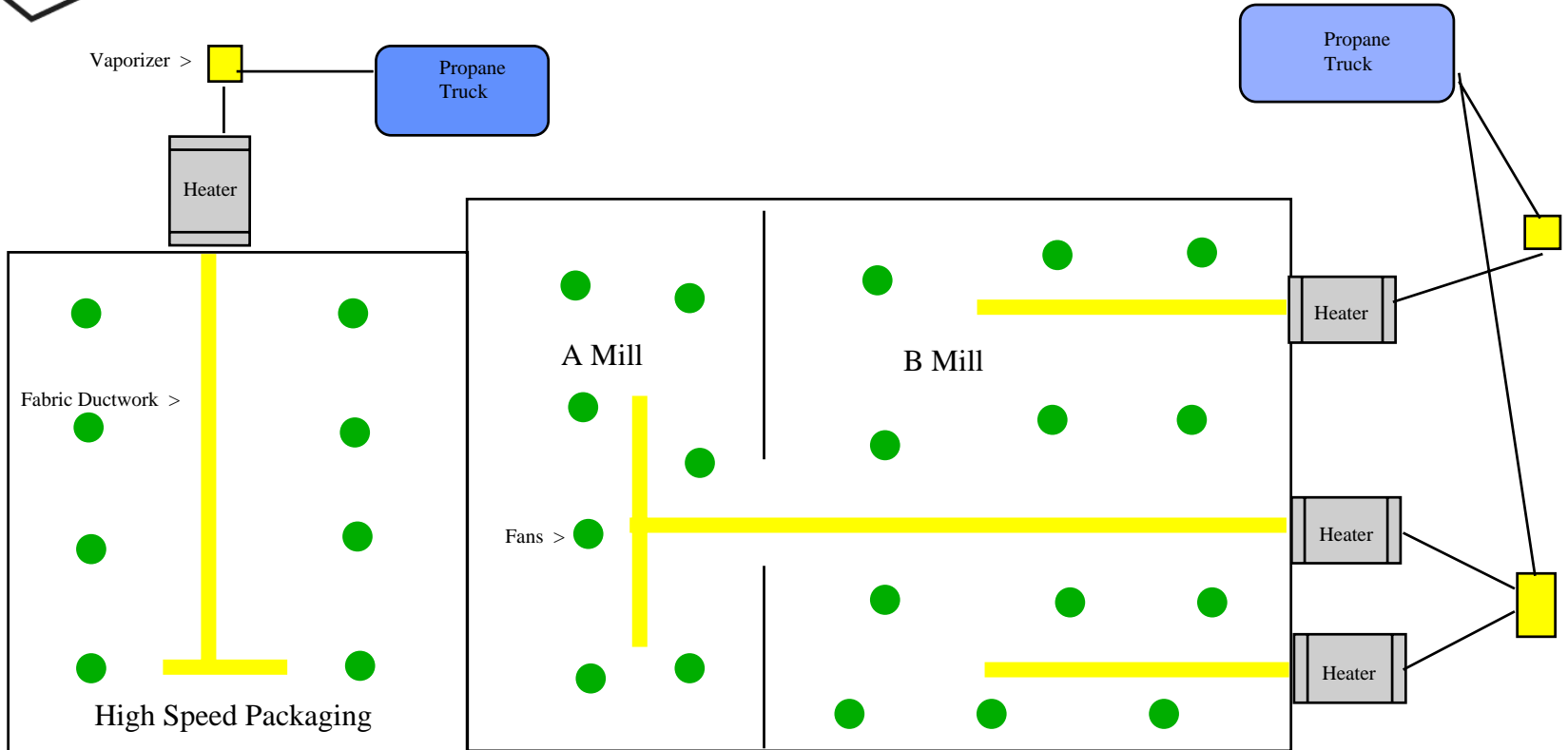
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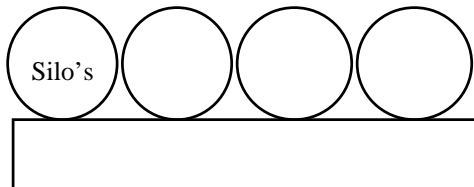
# Facility Applications



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Road



***Our Process***



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# Electrical





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**CFM (fans)**

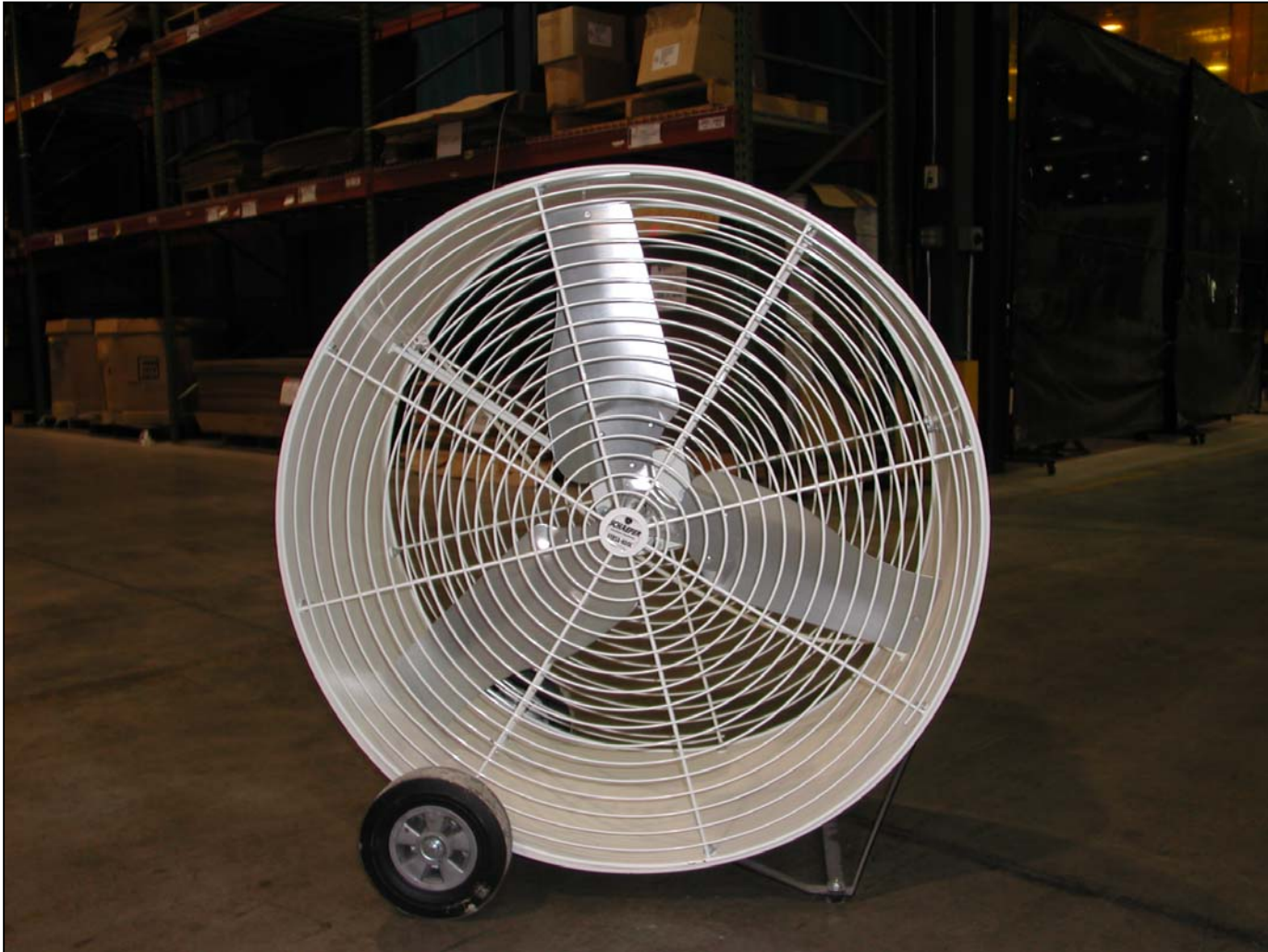


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# Bins and Silo Treatment



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# Heat Treatment for Wood Pallets and Packaging





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# Sterilizing



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## The Process

- Trailer bulk clean out
- Trailer wash out ( soap and sanitizer or none)
- High pressure air blow out
- Into heat bay for 35 to 45 minutes
- Trailer parked in clean area



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# Control Panel

- Door Controls
- 10" Touch Screen
- Trailer Numbers
- Heater Controls
- Auto Printer
- Sensor Calibration
- Modem





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XBT SIMULATOR



# THERMAL REMEDICATION

FROM **TEMPAIR®**

*Enter tractor & trailer numbers*

**BAY 1**

*Trailer No.* 47

*Tractor No.* 53

**BAY 2**

*Trailer No.* 68

*Tractor No.* 11

**System**

**next**



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### XBT SIMULATOR

#### Bay 1

Trailer No.

Tractor No.

8.2	9.5	0.2
9.2	1.8	2.1
5.3		1.6

#### Bay 2

Trailer No.

Tractor No.

7.1	9.4	1.2
3.8	3.5	6.7
6.9		9.9

**Waiting**

**Processing**

**Completed**

Time Remaining  
73

Heater Supply Air Temperature

**STOP**

**Start**

**main**





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# Barn Drying

- Custom systems that can dry in a fraction of the current times
- Purchase or Rental of equipment
- Temp-Air designs system for sterilizing at the same time drying is being performed





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# Empty Trailer Pest Eradication



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**Questions?**