

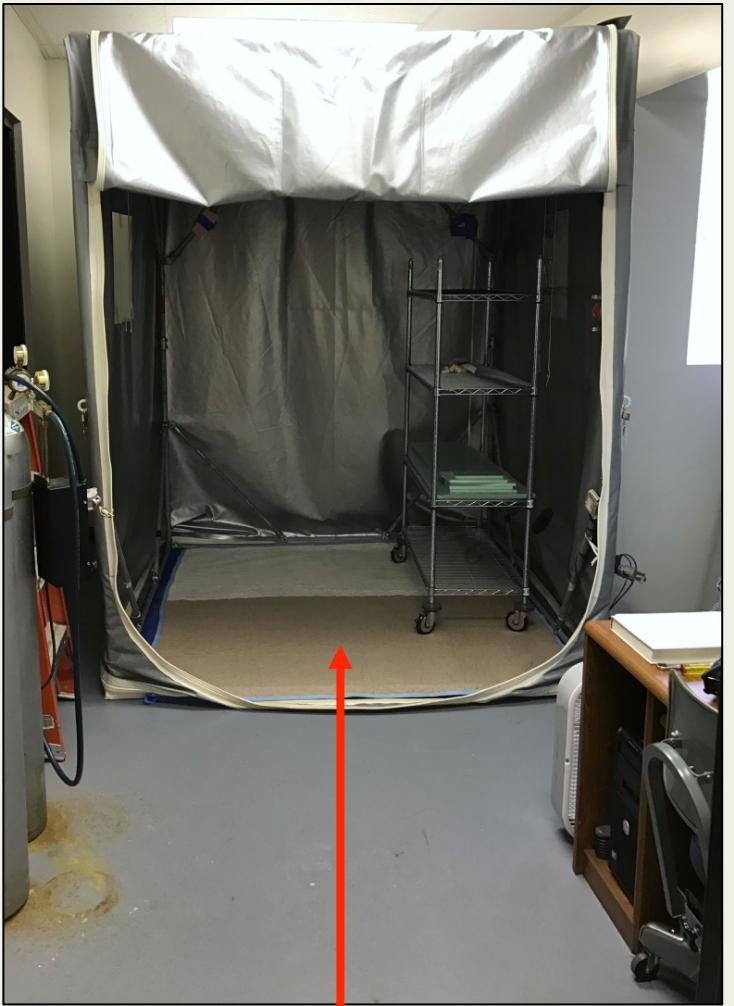


# Winterthur Museum, Garden & Library

## *Modified Atmosphere / CO<sub>2</sub> treatment*

William Donnelly

# Modified Atmosphere - Components



Framed bubble in a fixed location



CO<sub>2</sub> tanks

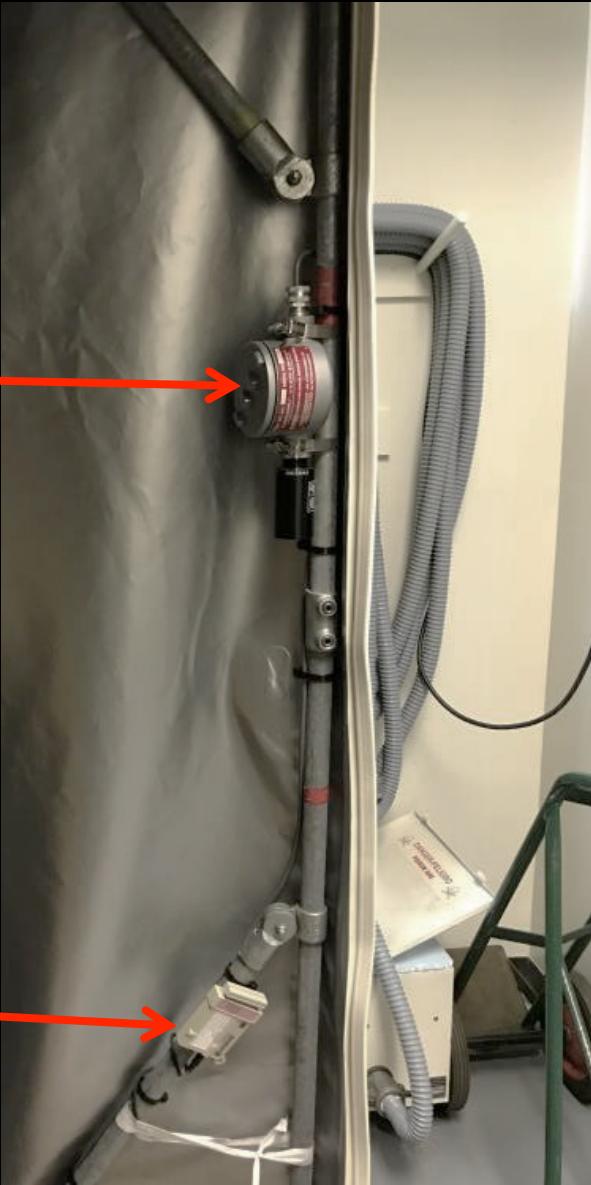
Gas heater



Vacuum pump

# Modified Atmosphere - Components

O<sub>2</sub> sensor

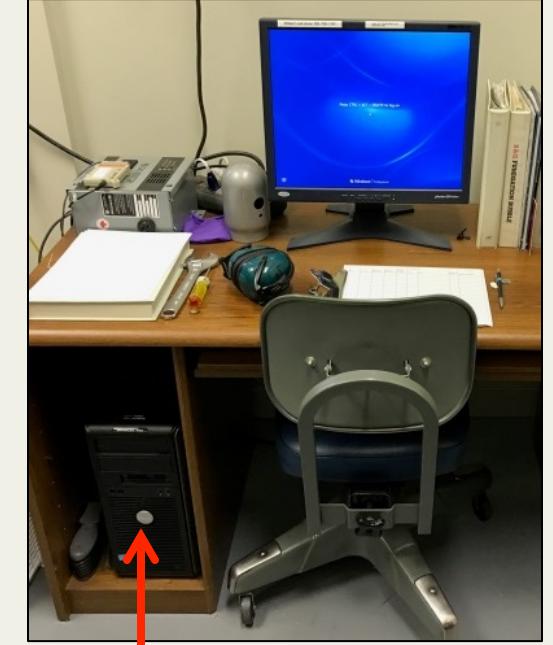


Internal data logger



Gas monitor

External data logger



System Computer

# Modified Atmosphere - Process



Quarantine space

PLEASE NOTE: PEST ERADICATION BY FREEZING OR CO<sub>2</sub> TAKES A MINIMUM OF 21 DAYS  
FREEZER SIZE: 27" x 22" x 67" LESS A 9" x 10" x 22" MOTOR SPACE AT ONE END

*Winterthur Museum, Garden & Library*

**PEST ERADICATION REQUEST FORM / RECORD**

Date \_\_\_\_\_  
Name \_\_\_\_\_  
Department \_\_\_\_\_

Object \_\_\_\_\_  
Accession # \_\_\_\_\_  
Object \_\_\_\_\_  
Accession # \_\_\_\_\_  
Object \_\_\_\_\_  
Accession # \_\_\_\_\_  
Object \_\_\_\_\_  
Accession # \_\_\_\_\_  
Reason for eradication \_\_\_\_\_

Location of object when suspected infestation was discovered \_\_\_\_\_

Date needed (for exhibit or loan) \_\_\_\_\_  
Person responsible for removal after eradication \_\_\_\_\_

Conservator Approval or Signature if applicable: \_\_\_\_\_

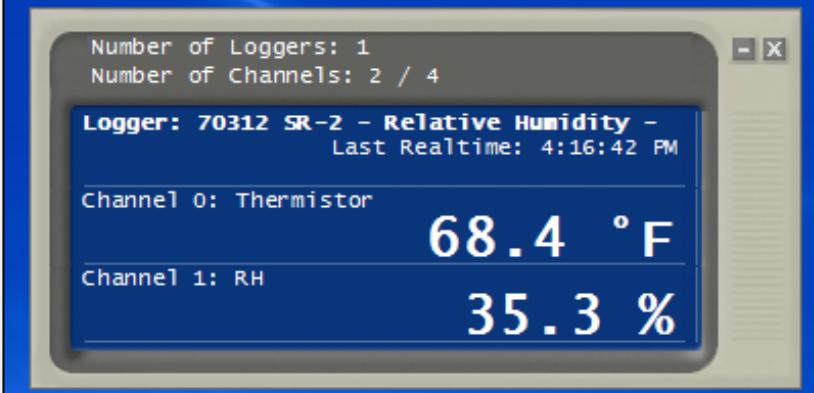
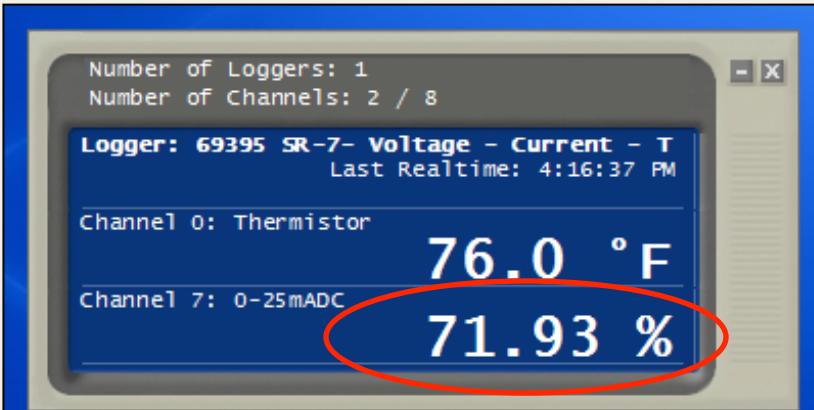
Method of eradication \_\_\_\_\_  
Dates of eradication \_\_\_\_\_  
Eradication overseen by \_\_\_\_\_  
Copy of form transferred to Objects File    Yes    No  
Comments: \_\_\_\_\_  
\_\_\_\_\_

Request forms

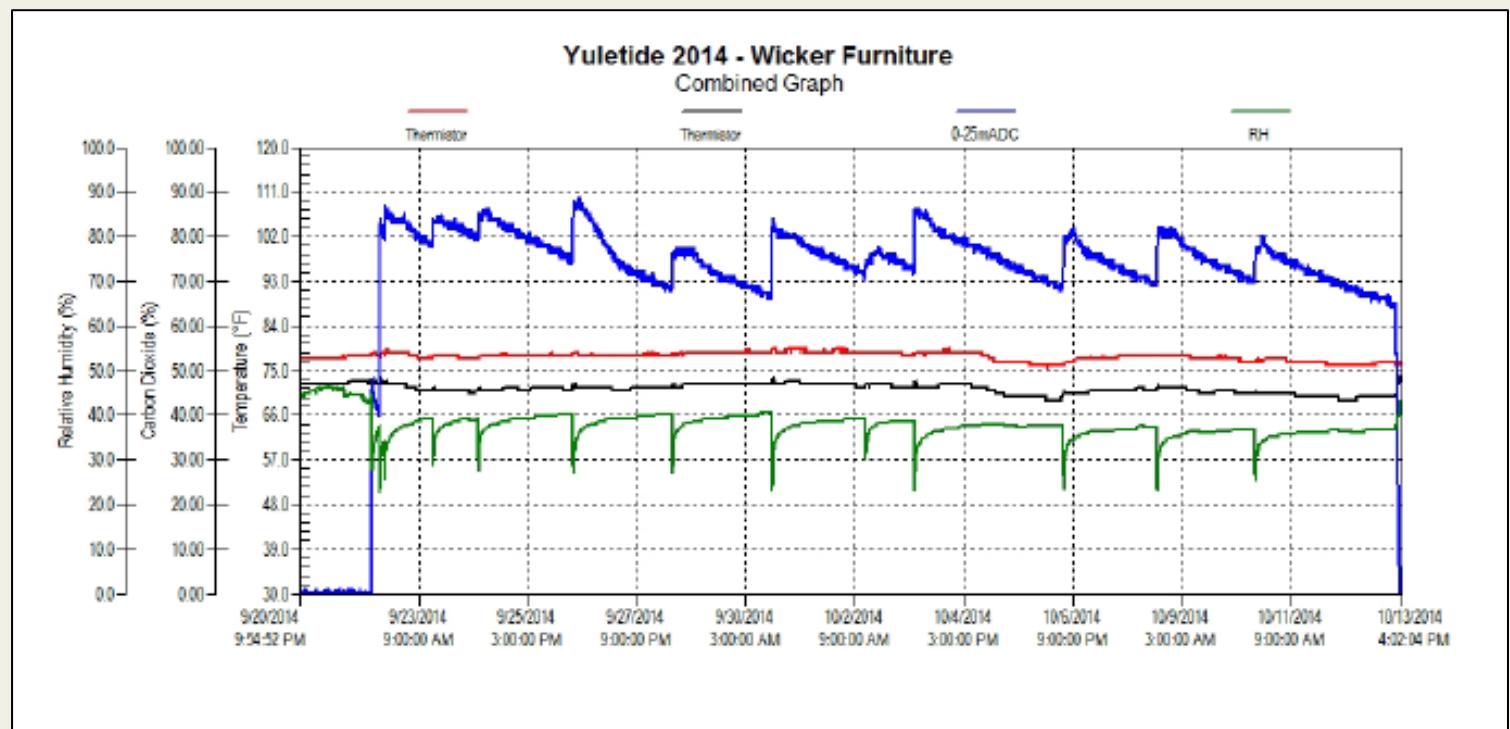


Loaded chamber

# Modified Atmosphere - Process



CO<sub>2</sub> concentrations maintained above 60%



Environmental data collected during the cycle is backed up and graphed

# Winterthur Museum, Garden & Library

- *Modified Atmosphere / CO<sub>2</sub> treatment*

## Acknowledgements

Dr. Joelle Wickens

Joy Gardiner

Debbie Hess Norris

Bruno Pouliot

Bob Hoag

Matt Mickletz & the Preventive Team

Winterthur Museum, Garden & Library

WUDPAC – Winterthur/University of Delaware Program in Art Conservation

William Donnelly

Conservation Assistant, Textile Lab R401

Winterthur Museum, Garden & Library

5105 Kennett Pike

Winterthur, DE 19735

302-888-4680