Form # P 04

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

B[illegible]CTION

PERMIT

Please Read Application And Notes, If Any, Attached

Permit Number: 041240

CITY OF PORTLAND
DEC 06 2004
PERMIT ISSUED

This is to certify that Alpine Realty Corp/Wayne [illegible]dy / Advantage Linen

has permission to Commercial Laundry

AT 135 Walton St [illegible] 142 I001001

provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statutes of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and written permission procured before this building or part thereof is lathed or closed-in. 24 HOUR NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept. [illegible]

Health Dept. _____

Appeal Board _____

Other _____
Department Name

Director - Building & Inspection Services

12/6/04

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, **04101** Tel: (207) 874-8703. **Fax:** (207) 874-8716

Permit No:	Issue Date:	CBL:
04-1240		142 I001001

Location of Construction: 135 Walton St	**Owner Name:** Alpine Realty Corp	**Owner Address:** 120 Exchange St **(Phone:**
Business Name:	**Contractor Name:** Wayne Brady / Advantage Linen	**Contractor Address:** 415-5200 **Phone** 2078782676
Lessee/Buyer's Name	**Phone:**	**Permit Type:** Change of Use - Commercial **Zone:** M
Past Use: Commercial/ Printing Co.	**Proposed Use:** Commercial Laundry	**Permit Fee:** $546.00 **Cost of Work:** $50,000.00 **CEO District:** 4
Proposed Project Description: Commercial Laundry		**FIRE DEPT:** ☑ Approved ☐ Denied Signature **INSPECTION:** Use Group: F1 Type: 3B 12/6/04 Signature
		PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.) Action: ☐ Approved ☐ Approved w/Conditions ☐ Denied Signature: Date:

Permit Taken By:	**Date Applied For:**
ldobson	0812312004

Zoning Approval

Special Zone or Reviews	Zoning Appeal	Historic Preservation
☐ Shoreland	☐ Variance	☑ Not in District or Landmarl
☐ Wetland	☐ Miscellaneous	☐ Does Not Require Review
☐ Flood Zone	☐ Conditional Use	☐ Requires Review
☐ Subdivision	☐ Interpretation	☐ Approved
☐ Site Plan	☐ Approved	☐ Approved w/Conditions
Maj ☐ Minor ☐ MM ☐ all w/ cond. 3	☐ Denied	☐ Denied
Date: 9/23/04	late:	Date:

CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas **covered by** such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT | ADDRESS | DATE | PHONE

RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE | DATE | PHONE

3/18/05. Checked plumbing for new laundry - all lasts on & holding OK - no problems seen - underground & above ground pipes checked. OK - Jon M.

John,

I combed through this permit & found nothing indicating permitting for the 4 tanks. Would you look incase I've overlooked them.

Here is John's # 929-5550 He's from Webber Energy Fuels. Just A reminder: They are looking to ammend the 4 tanks w/ a 5th tank.

RE: 135 WALTON ST

MARSHALL PERRY
Webber Energy
So. Port.

767-2837
or
Chuck MARTIN
767-2837

City of Portland, Maine - Building or Use Permit

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No:	Date Applied For:	CBL:
04-1240	08/23/2004	142 I001001

Location of Construction:	Owner Name:	Owner Address:	Phone:
135 Walton St	Alpine Realty Corp	120 Exchange St	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	Wayne Brady / Advantage Linen		(207) 878-2676
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	
		Change of Use - Commercial	

Proposed Use:	Proposed Project Description:
Commercial Laundry	Commercial Laundry

Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Marge Schmuckal **Approval Date:** 09/23/2004

Note: **Ok to Issue:** ☑

1) Separate permits for any new installation for dryer hoods and/or ventilation shall be required. It will be necessary to submit all manufacturer's information concerning sound levels for such units. All maximum sound levels shall be met prior to their installation.

2) Please note that the industrial laundry use shall not violate the I-M zone maximum permissible sound levels: 70 dBA between the hours of 7:00 am and 10:00 pm; and 55 dBA between the hours of 10:00 pm and 7:00 am as measured at or within the boandaries of any residential zone. 135 Walton Street is located directly across the street from an established residential zone. This ordinance will be strictly enforced.

3) Separate permits shall be required for any new signage.

4) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

Dept: Building **Status:** Approved with Conditions **Reviewer:** Mike Nugent **Approval Date:** 12/06/2004

Note: **Ok to Issue:** ☐

1) The Vent systems must comply with the dB levels for this zoning district. The Owner agreed to this in a meeting datyed 12/4/04, here at City hall.

2) David Reinheimer, SMRT agrees to provide structurals on all Roof units etc, prior to that phase.

Dept: Fire **Status:** Approved with Conditions **Reviewer:** Lt. MacDougal **Approval Date:** 0912712004

Note: **Ok to Issue:** ☐

1) fire extinquishers shall be installed in accordance with NFPA 10 standards

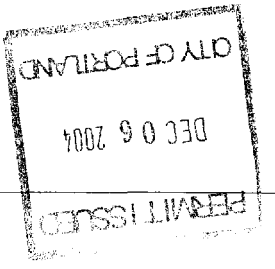
2) the fire alarm system and sprinkler system shall be tested to the appropriate standard and the results submitted to the Portland Fire Department

3) more detail is needed on the venting of the dryers

4) More detail is needed on the venting of the chemical storage room

5) the sprinkler system shall be maintained to NFPA 13 standards

6) the fire alarm system shall be maintained to NFPA 72 standards



Comments:

10/12/2004-mjn: need HVAC plans w/ structurals, owner and designer notified

CK# 9946

20

All Purpose Building Permit Application

If you or the property owner owes real esfafe or personal property faxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: 135 Waltons t Portland me

Total Square Footage of Proposed Structure: 20,179

Square Footage of Lot: 129.29759 Ft 2.5 acres

Tax Assessor's Chart, Block & Lot			Owner:	Telephone:
Chart#	Block#	Lot#		
142	I	001	WRE Brokers	878 2696

Lessee/Buyer's Name (If Applicable)	Applicant name, address & telephone:	Cost Of Work: $
advantage linen	PO Box 1041 Portland me 04104	50,000

Fee: $ 471.75 cmo 5760.00 30 cmg use

Current use: Vacant

If the location is currently vacant, what was prior use: Colonial OFFset Printing

Approximately how long has it been vacant: May 1 2004

Proposed use: Commercial laundry

Project description: Plumbing & Wiring to accomodate Equipment

Contractor's name, address & telephone:

RECEIVED

Who should we contact when the permit is ready: Wayne G. Bradbury.

Mailing address: advantage linenservice

We will contact you by phone when the permit is ready. You must come in and pick up the permit and review the requirements before starting any work, with a Plan Reviewer. A stop work order will be issued and a $100.00 fee if any work starts before the permit is picked up. PHONE: 878-2476

IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE SUBMISSIONS THE PERMIT WILL BE AUTOMATICALLY DENIED AT THE DISCRETION OF THE BUILDING/PLANNING DEPARTMENT, WE MAY REQUIRE ADDITIONAL INFORMATION IN ORDER TO APROVE THIS PERMIT.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued. I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this p e w.

Signature of applicant: Wayne G. Bradbury Date: 7/26/04

This is NOT a permit, you may not commence ANY work unfil the permit is issued.
If you are in a Historic District you may be subject to additional permitting and fees with the Planning Department on the 4th floor of City Hall

SMRT

ARCHITECTURE
ENGINEERING
PLANNING

Letter of Transmittal

ATTN:	ADVANTAGE LINEN SERVICE	Date:	8-18-04
Company:	Portland, ME	From:	Chris Bailey
		Re:	Drawings/Certificate
		Project:	Advantage Linen Service
		Job #:	04127

We are sending you: ☐ Attached ☐ Under separate cover via _____ the following:

☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications

☐ Copy of letter ☐ Change Order ☒ Other: See Below

Copies	Date	No	Description
1	8-17-04		Issued for Construction Drawing Set

☒

cc: JLH, File 04127/ 21

144 Fore Street
PO Box 618
Portland, Maine 04104
☎ 207 772-3846
207 772-1070
www.smrtinc.com

Signature: _____

CITY OF PORTLAND
BUILDING CODE CERTIFICATE
389 Congress St., Room 315
Portland, Maine 04101

TO: Inspector of Buildings City of Portland, Maine
Department of Planning & Urban Development
Division of Housing & Community Service

FROM DESIGNER: Janet Hansen / SMRT
144 Fore Street, Portland, Maine

DATE: August 17, 2004

Job Name: Advantage Linens Renovation (approx 16,000 SF)

Address of Construction: 135 Walton Street

THE BOCA NATIONAL BUILDING CODE / 1999 (FOURTEENTH EDITION)
Construction project was designed according to the building code criteria listed below:

Building Code and Year BOCA 1999 Use Group Classification(s) F-1

Type of Construction 3B/4 Bldg. Height varies Bldg. **Sq.** Footage 56,500 S.F. +/-

Seismic Hazard Exposure Group NA Seismic Performance Category NA

Roof Snow Load Per **Sq.** Ft. NA Dead Load Per Sq. Ft. NA

Basic Wind Speed (mph) NA Effective Velocity Pressure Per **Sq.** Ft. NA

Floor Live Load Per **Sq.** Ft. NA

Structure has full sprinkler system? Yes X No _____ Alarm System? Yes X No _____

Sprinkler & Alarm systems must be installed according to BOCA and **NFPA** Standards with approval from the Portland Fire Department.

Is Structure being considered unlimited area building: Yes X No _____

If mixed use, what subsection of 313 is being considered: _____

List Occupant loading for each room or space, designed into this project.

LICENSED ARCHITECT
JANET L. HANSEN
#1991
(SEAL)
STATE OF MAINE

Janet L Hansen
Designers Stamp & Signature

CITY OF PORTLAND
BUILDING CODE CERTIFICATE
389 Congress *S* t., Room 315
Portland, Maine 04101

TO: Inspector of Buildings City of Portland, Maine
Department of Planning & Urban Development
Division of Housing & Community Service

FROM: Janet Hansen / SMRT

RE: Certificate of Design

DATE: 8/17/04

These plans and / or specifications covering construction work on:

Advantage Linen's Renovation

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the ***BOCA National Building Code / 1999 (Fourteenth Edition)*** and local amendments.

(SEAL)

JANET L. HANSEN #1991 STATE OF MAINE

As per Maine State Law

$50,000.00 or more in new construction, repair expansion, addition, or modification for Building or Structures, shall be prepared by a registered design Professional.

Signature: Janet L Hansen

Title: Architect

Firm: SMRT

Address: 144 Fore Street
Portland, Maine 04101

CITY OF PORTLAND
BUILDING CODE CERTIFICATE
389 Congress St., Room 315
Portland, Maine 04101

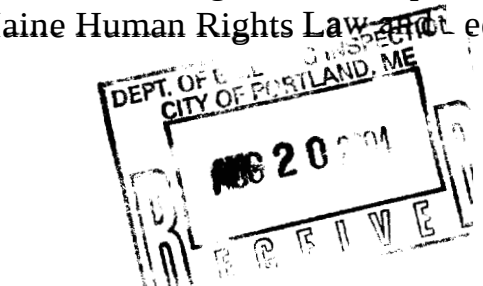
ACCESSIBILITY CERTIFICATE

Designer: Janet Hansen/SMRT

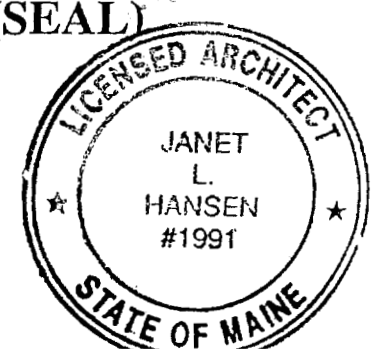
Address of Project: 135 Walton Street

Nature of Project: Renovation to accommodate commercial laundry operation

The technical submissions covering the proposed construction work as described above have been designed in compliance with applicable referenced standards found in the Maine Human Rights Law and federal Americans with Disability Act.



(SEAL)



Signature: Janet L Hansen

Title: Architect

Firm: SMRT

Address: 144 Fore Street
Portland Maine 04101

Phone: 207-772-3941

MAR-18-2004 FRI 02:51 PM ASTRO CHEMICALS FAX NO. 4137817246 P. 02

ASTRO PRODUCT CODE # 15039

H. Krevit & Company, Inc.

Superior Chemicals For Industry Since 1919

First Manufacturer of Sodium Hypochlorite In The United States
73 Welton Street • P.O. Box 9433 • New Haven, CT 06534-0433
Tel (203) 772-3350 • Fax: (203) 776-0730

Material Safety Data Sheet (M.S.D.S.) • *Rev. 3.15.2000*
HYPOCHLORITE SOLUTION *Synonyms: Bleach*

A. DESCRIPTION

M.S.D.S. Number: 0236
Date: 03/15/00 Edition: 004
Trade Name: Soda Bleach Solution
Chemical Name/synonyms: Sodium Hypochlorite- Aqueous Solution (4.8 16.6% NaOCl)
Chemical Family: Inorganic Salt Formula: NaOCl
CAS Number: 007681 52 9
U.S. D.O.T. Shipping Name: Hypochlorite Solution
U.S. D.O.T. Hazard Class: Corrosive Material
Subsidiary Risk: N/A I.D. number: UN1791
Reportable Quantity (R.Q.): 100 Lbs./45.4 K.G.
Canadian Dangerous Goods Description - Shipping Name: Hypochlorite Solution
Primary Classification: Class 8, Subsidiary Class: 9.2,
Pin Number: UN1791, Packing Group: III
WHMIS Classification: Class E - Corrosive Material

Joe
329-1345

135 Walton St.
Cell # 329-1345
Joe

B. PHYSICAL DATA

Boiling Point @ 760 MM HG: Decomposes
Vapor Density (Air=1): N/A
Specific Gravity (H_2O=1): 1.21 @ 20 C
PH of Solutions: Approx. 13
Freezing/melting Point: -14 C (6 F)
Solubility (weight % in water): complete
Bulk Density: 8.8 Lbs./gal. (U.S.) [11.4 - 12.1 lbs./Imperial gal.]
Volume % Volatile: complete
Vapor Pressure: 17.5 MM HG @ 20 C
Evaporation Rate: (Water = 1): 1
Heat of Solution: N/A
Appearance and Odor: Clear, pale yellow or greenish liquid with a chlorine odor.

OCT 1 9

C. INGREDIENTS:

Material	Percent
Sodium Hypochlorite (weight %)	4.8 - 16.6
Sodium Hydroxide	Approx. .2 - 1.7
Water	Balance

MATERIAL SAFETY DATA SHEET

A Product Of:
Arrow Paper Corporation
P.O. Box 1001
Wilmington, MA 01882

Date: 1-1-2004
Ref. No.: 2753
Telephone: 1-888-622-7769
Contact: James Brangwynne

SECTION I - PRODUCT IDENTIFICATION

Trade Name: [redacted]
Chemical name / synonyms: Water Base Alkaline Detergent
Formula: Mixture
D.O.T. Proper Shipping Name: None regulated Class 55 Cleaning Compound
HMIS CODE: Health 1, Fire 1, Reactivity 0
HMIS KEY: 4=Extreme, 3=High, 2=Moderate, 1=Slight, 0=insignificant

SECTION II - HAZARDOUS INGREDIENTS

Substance	% Composition	TLV
2-Butoxyethanol CAS # 111-76-2	>5	25 ppm (skin)

SECTION III - PHYSICAL DATA

Boiling Pt (°F): 212
Specific Gravity: 1.02
Vapor Pressure (mm Hg): NA
V.O.C.(% by weight): <15
Vapor Density (air=1): NA
Evaporation Rate (water=1): 1
Solubility in water: complete
pH: 8
Appearance and Odor No Odor, faint odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Pt (°F): N.E.
Flammable limits in air (vol. %)
Test method: NA
Upper: NA Lower: NA
Extinguishing Media: As necessary for surrounding fire.
Special fire fighting procedures: NA
Unusual fire and explosion hazard: NA

SECTION V - HEALTH HAZARD DATA - ROUTES OF ENTRY

Threshold Limit Value: See Section II
Primary Route(s) of Entry: Eye contact. Skin Contact. Inhalation of mist if sprayed.
Health Hazard (Acute and Chronic): Although pH alone is not a precise indicator of irritation potential, this product should be handled as possibly irritating to eyes based on pH.
Signs And Symptoms Of Overexposure: EYES - tearing, stinging, redness. SKIN - stinging, redness, some swelling possible. INHALATION - coughing, soreness in respiratory tract, chest tightness, difficulty breathing. Conditions Generally Recognized As Being Aggravated By Exposure: Persons with pre-existing skin disorders may be more susceptible to irritating effects. Persons with pre-existing lung disorders may be more susceptible to irritating effects.
Emergency And First Aid Procedures: EYES - Immediately flush with plenty of cool water for at least 15 minutes while holding the eyelids open. Do not attempt neutralizing with chemical agents. Contact a physician immediately. SKIN - Immediately remove contaminated clothing and flush area with large quantities of water for at least 15 minutes. Do not attempt neutralizing with chemical agents. Contact a physician if irritation develops. INGESTION - If patient conscious, give several glasses of water for dilution effect and contact a physician. Do not induce vomiting. Do not give an unconscious person anything by mouth. INHALATION - Remove from contaminated atmosphere. If breathing has stopped, give artificial respiration then oxygen if needed. Contact a physician.

SECTION VI - REACTIVITY DATA

Stability: stable
Conditions to avoid: Avoid mixing concentrate with strong acids.
Hazardous decomposition products: carbon monoxide and unidentified organic compounds may be formed during combustion.
Hazardous polymerization products: Will not occur.

SECTION VII - SPILL OR LEAK PROCEDURE

Steps to be taken if material is released or spilled:
Large spills: Dike and contain. Place in non-leaking containers for disposal agency.
Small spills: soak or mop up. Small spills may be flushed to sewer.
Waste disposal method: Small quantities will evaporate readily. Large amounts should be given to licensed disposal agency.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Should not be necessary when diluted before spraying.
Ventilation -local exhaust: recommended
-mechanical exhaust: not necessary
Protective gloves: rubber
Eye protection: chemical goggles if contact is likely.
Other protective equipment: none

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Store above 35°F.
Keep container tightly closed when not in use.

Other precautions: KEEP OUT OF REACH OF CHILDREN.
NA means NOT APPLICABLE on this form.
NE means NOT ESTABLISHED on this form.

The information on this Material Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application that is not described on the label or in the Product Data Sheet is the responsibility of the user.

This Material Safety Data Sheet was prepared to comply with the OSHA Hazard Communications Regulation and Massachusetts Right to Know Law.

e information on this Material Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application that is not described on the label or in the Product Data Sheet is the responsibility of the user.

is Material Safety Data Sheet was prepared to comply with the OSHA Hazard Communications Regulation and Massachusetts Right to Know Law.

MATERIAL SAFETY DATA SHEET

A Product Of:
Arrow Paper Corporation
P.O. Box 1001
Wilmington, MA 01882

Date: 1-1-2004
Ref. No.: 2703
Telephone: 1-888-622-7769
Contact: James Brangwynne

SECTION I - PRODUCT IDENTIFICATION

Trade Name: ~~PATRIOT FRONTLINE ALK~~
Chemical name / synonyms: Alkaline water base detergent
Formula: Mixture
D.O.T. Classification: Corrosive Liquid, N. O. S. (Contains Sodium Hydroxide), 8, UN 1760, PG III
HMIS CODE: Health 3, Fire 0, Reactivity 1
HMIS KEY: 4=Extreme, 3=High, 2=Moderate, 1=Slight, 0=insignificant

SECTION II - HAZARDOUS INGREDIENTS

Substance	% Composition	TLV
Sodium Hydroxide CAS# 1310-73-2	> 30	2mg/m3

SECTION III - PHYSICAL DATA

Boiling Pt (°F): 212
Specific Gravity: 1.2
Vapor Pressure (mm Hg): NA
Percent Volatile: NA
Vapor Density (air=1): NA
Evaporation Rate (water=1): 1
Solubility in water: complete
pH: 14
Appearance and Odor: no color, no odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Pt (°F): None
test method: NA
Flammable limits in air (vol. %)
Upper: NA Lower: NA
Extinguishing Media: As necessary for surrounding fire.
Special fire fighting procedures: NA
Unusual fire and explosion hazard: NA

SECTION V - HEALTH HAZARD DATA ROUTES OF ENTRY

Threshold Limit Value: See Section II
Acute Effects of Overexposure: EYES - causes severe burns. May cause irreparable damage, and/or loss of vision. SKIN - corrosive action causes burns. Prolonged contact destroys tissues. INHALATION - mist may cause damage to the upper respiratory tract and lung tissue depending on extent of exposure. Effects range from mild irritation of mucous membranes, severe pneumonitis and lung tissue destruction. INGESTION - can cause very severe damage to mouth, esophagus, stomach. May be fatal.
Chronic Effects of Exposure: local effect may consist of multiple areas of superficial destruction of the skin or of primary dermatitis. Similarly, inhalation of the spray or mist may result in varying degrees of irritation.
Emergency and first aid procedures: EYES - flush with plenty of cool water for at least 15 minutes. Hold eyelids open during this flushing with water. Obtain medical attention. SKIN - immediately flush skin with plenty of water while removing contaminated clothing and boots. Call a physician. If skin feels slippery, caustic may still be present in sufficient quantities to cause rash or burn. Continue washing until slick skin feeling is gone. Thoroughly clean contaminated clothing and boots before reuse or discard. INHALATION - remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. INGESTION - If conscious, drink large quantities of water. Do not induce vomiting.

Take immediately to a hospital or physician. If vomiting occurs spontaneously, keep airway clear. If unconscious or in convulsions, take immediately to hospital. Do not attempt to induce vomiting or give anything by mouth to an unconscious person.

SECTION VI -REACTIVITY DATA

Stability: stable
Conditions to avoid: Avoid mixing concentrate with strong acids.
Hazardous decomposition products: carbon monoxide and unidentified organic compounds may be formed during combustion.
Hazardous polymerization products: Will not occur.

SECTION VII - SPILL OR LEAK PROCEDURE

Steps to be taken if material is released or spilled: Large spills: Dike and contain. Place in none leaking containers for disposal agency. Small spills: soak or mop up. Small spills may be flushed to sewer.
Waste disposal method: Small quantities will evaporate readily. Large amounts should be given to licensed disposal agency.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Eye Protection: Splash goggles and/or face shield.
Respiratory Protection: None is normally required. However if misting or heavy vapor formation should occur, a NIOSH approved respirator should be worn.
Other Protection: Rubber boots. Rubber over leather shoes is not recommended. Rubber apron, rainwear or disposable TYVEK suit should be worn.
Ventilation: Provide adequate ventilation to meet TLV Requirements.
Protective gloves: Rubber, latex, plastic. Do not use leather or wool.
Additional Information: Safety eye wash/shower stations must be available in work area.

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Store above 35°F. Keep container tightly closed when not in use.

Other Precautions: KEEP OUT OF REACH OF CHILDREN.
NA means NOT APPLICABLE on this form.

MATERIAL SAFETY DATA SHEET

A Product Of:
Arrow Paper Corporation
P.O. Box 1001
Wilmington, MA 01882

Date: 1-1-2004
Ref. No.: 2707
Telephone: 1-888-622-7769
Contact: James Brangwynne

SECTION I - PRODUCT IDENTIFICATION

Trade Name: PATRIOT ULTRA SOUR
Chemical name / synonyms: Acid base solution
Formula: Mixture
D.O.T. Classification: Compounds, Cleaning Liquid (Contains Phosphoric Acid) 8, NA 1760, PG II
HMIS CODE: Health 3, Fire 0, Reactivity 1
HMIS KEY: 4=Extreme, 3=High, 2=Moderate, 1=Slight, 0=insignificant

SECTION II - HAZARDOUS INGREDIENTS

Substance	% composition	TLV
Phosphoric Acid CAS# 7664-38-2	15-25	1 mg/m3

SECTION III - PHYSICAL DATA

Boiling Pt (°F): 222
Specific Gravity: 1.09
Vapor Pressure (mm Hg): NA
V.O.C. (% by weight): 0
Vapor Density (air=1): NA
Evaporation Rate (water=1): N/A
Solubility in water: complete
pH: 1
Appearance and Odor: CLEAR liquid, no odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Pt (°F): None
test method: NA
Flammable limits in air (vol. %)
Upper: NA Lower: NA
Extinguishing Media: As necessary for surrounding fire.
Special fire fighting procedures: NA
Unusual fire and explosion hazard: NA

SECTION V - HEALTH HAZARD DATA ROUTES OF ENTRY

Threshold Limit Value: See Section II
Acute Effects of Overexposure: EYES-causes severe burns. May cause irreparable damage, and/or loss of vision. SKIN- corrosive action causes burns. Prolonged contact destroys tissues. INHALATION-mist may cause damage to the upper respiratory tract and lung tissue depending on extent of exposure. Effects range from mild irritation of mucous membranes, severe pneumonitis and lung tissue destruction. INGESTION-can cause very severe damage to mouth, esophagus, stomach. May be fatal.
Chronic Effects of Exposure: local effect may consist of multiple areas of superficial destruction of the skin or of primary dermatitis. Similarly, inhalation of the spray or mist may result in varying degrees of irritation.
Emergency and first aid procedures: EYES-flush with plenty of cool water for at least 15 minutes. Hold eyelids open during this flushing with water. Obtain medical attention. SKIN-immediately flush skin with plenty of water while removing contaminated clothing and boots. Call a physician. If skin feels slippery, caustic may still be present in sufficient quantities to cause rash or burn. Continue washing until slick skin feeling is gone. Thoroughly clean contaminated clothing and boots before reuse or discard. INHALATION-remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. INGESTION- If conscious, drink large quantities of water. Do not induce vomiting. Take immediately to a hospital or physician. If vomiting occurs spontaneously, keep airway clear. If unconscious or in convulsions, take immediately to hospital. Do not attempt to induce vomiting or give anything by mouth to an unconscious person.

SECTION VI -REACTIVITY DATA

Stability: stable
Conditions to avoid: Avoid mixing concentrate with strong acids.
Hazardous decomposition products: carbon monoxide and unidentified organic compounds may be formed during combustion.
Hazardous polymerization products: Will not occur.
Conditions and materials to avoid: Metal, glass, stoneware, alkali and strong concentrated acids.
When heated to decomposition, it emits highly toxic and corrosive fumes of Hydrogen Fluoride, Silica Tetrafluoride and Hydrogen gas.

SECTION VII - SPILL OR LEAK PROCEDURE

Steps to be taken if material is released or spilled: Large spills: Dike and contain. Place in nonleaking containers for disposal agency. Small spills: soak or mop up. Small spills may be flushed to sewer.
Waste disposal method: Small quantities will evaporate readily. Large amounts should be given to licensed disposal agency.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Eye Protection: Splash goggles and/or face shield.
Respiratory Protection: None is normally required. However if misting or heavy vapor formation should occur, a NIOSH approved respirator should be worn.
Other Protection: Rubber boots. Rubber over leather shoes is not recommended. Rubber apron, rainwear or disposable TYVEK suit should be worn.
Ventilation: Provide adequate ventilation to meet TLV Requirements.
Protective gloves: Rubber, latex, plastic. Do not use leather or wool.
Additional Information: Safety eye wash/shower stations must be available in work area.

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Store above 35°F. Keep container tightly closed when not in use.
Other precautions: KEEP OUT OF REACH OF CHILDREN.
NA means NOT APPLICABLE on this form.

of application that is not described on the label or in the Product Data Sheet is the responsibility of the user.

his Material Safety Data Sheet was prepared to comply with the OSHA Hazard Communications Regulation and Massachusetts Right to Know Law.

MATERIAL SAFETY DATA SHEET

A Product Of:
Arrow Paper Corporation
P.O. Box 1001
Wilmington, MA 01882

Date: 1-1-2004
Ref. No.: 2712
Telephone: 1-888-622-7769
Contact: James Brangwynne

SECTION I - PRODUCT IDENTIFICATION

Trade Name: ~~PATRIOT~~ ULTRA RECLAIM WHITE
Chemical name / synonyms: Alkaline Cleaning Compound
Formula: Mixture of Alkalies and wetting agents
D.O.T. Classification: Corrosive Solids, N.O.S. (Sodium Hydroxide, Sodium Metasilicate), 8, UN 1759, PG III
HMIS CODE: Health 3, Fire 0, Reactivity 1, Personal D
HMIS KEY: 4=Extreme, 3=High, 2=Moderate, 1=Slight, 0=insignificant

SECTION II - HAZARDOUS INGREDIENTS

Substance	% Composition	TLV
Sodium Metasilicate CAS# 6834-92-0	15.0-25.0 %	Not Est.
Sodium Hydroxide CAS# 1310-73-2	15.0-25.0 %	2 mg/m3

SECTION III - PHYSICAL DATA

Boiling Pt (°F): NA
Vapor Pressure (mm Hg): NA
Vapor Density (air=1): NA
Solubility in water: complete
Specific Gravity: >1.23
Voc (% wt): NA
Evaporation Rate (water=1): NA
pH: 13.0-13.4
Appearance and Odor: White Powder.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Pt (°F): None Flammable
Test method: NA
Flammable limits in air (Vol. %)
Upper: NA Lower: NA
Extinguishing Media: As necessary for surrounding fire.
Special fire fighting procedures: NA
Unusual fire and explosion hazard: NA

SECTION V - HEALTH HAZARD DATA - ROUTES OF ENTRY

Threshold Limit Value: See Section II
Primary Route(s) of Entry: Eye contact. Skin Contact. Inhalation of mist if sprayed.
Health Hazard (Acute and Chronic): Although pH alone is not a precise indicator of irritation potential, this product should be handled as possibly irritating to eyes base on pH.
Signs And Symptoms Of Overexposure: EYES- Tearing, stinging, redness. SKIN- Stinging, redness, some swelling possible. INHALATION- Coughing, soreness in respiratory tract, chest tightness, difficulty breathing.
Conditions Generally Recognized As Being Aggravated By Exposure: Persons with pre-existing skin disorders may be more susceptible to irritating effects. Persons with pre-existing lung disorders may be more susceptible to irritating effects.
Emergency And First Aid Procedures: EYES- Immediately flush with plenty of cool water for at least 15 minutes while holding the eyelids open. Do not attempt neutralizing with chemical agents. Contact a physician immediately. SKIN- Immediately remove contaminated clothing and flush area with large quantities of water for at least 15 minutes. Do not attempt neutralizing with chemical agents. Contact a physician if irritation develops. INGESTION- If patient conscious, give several glasses of water for dilution effect and contact a physician. Do not induce vomiting. Do not give an unconscious person anything by mouth. INHALATION-

Remove from contaminated atmosphere. If breathing has stopped, give artificial respiration then oxygen if needed. Contact a physician.

SECTION VI - REACTIVITY DATA

Stability: stable
Conditions to avoid: Avoid mixing concentrate with strong acids.
Hazardous decomposition products: carbon monoxide and unidentified organic compounds may be formed during combustion.
Hazardous polymerization products: will not occur.

SECTION VII - SPILL OR LEAK PROCEDURE

Steps to be taken if material is released or spilled: In case of spillage, sweep up excess material and dispose of in accordance with applicable regulations. Dispose of in accordance with local, state and federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: NIOSH approved respirator for a nuisance dust when using or handling the concentrated powder.
Ventilation -local exhaust: recommended
-mechanical exhaust: recommended
Protective Gloves: rubber
Eye Protection: chemical goggles if contact is likely.
Other Protective Equipment: none

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Store above 35°F. Keep container tightly closed when not in use.

Other precautions: KEEP OUT OF REACH OF CHILDREN.
NA means NOT APPLICABLE on this form.

The information on this Material Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method

MSDS - Material Safety Data Sheet

Product Name: QUANTEX

MSDS No.: 998

FOR SKIN, WASH WITH SOAP AND WATER FOR 3-5 MINUTES. RINSE WITH WATER.
FOR EYES, FLUSH WITH WARM WATER FOR AT LEAST 15 MINUTES. CONTACT PHYSICIAN. CONTINUE TO FLUSH WITH WATER UNTIL MEDICAL ATTENTION IS RECEIVED.
IF INGESTED, DRINK LARGE VOLUMES OF WATER FOLLOWED BY MILK. THEN ADMINISTER MILK OF MAGNESIA (APPROXIMATELY 2 TABLESPOONS). IF VOMITING OCCURS SPONTANEOUSLY, ADMINISTER FLUID REPEATEDLY. GIVE MILK OR BEATEN EGGS EVERY ONE TO TWO HOURS.
INHALATION: REMOVE TO FRESH AIR. GET MEDICAL ATTENTION IF NEEDED.

Other Health Warnings:

V. Fire Fighting Measures:

Flash Point: 109°F **Lower Explosive Limit:** - **Upper Explosive Limit:** -

F.P. Method: STEAFLASH

Fire Extinguishing Media: DRY CHEMICAL, WATERFOG, CO2, FOAM

Special Fire Fighting Procedures:

USE NIOSH/MSHA APPROVED SELF CONTAINED BREATHING APPARATUS WHERE PRODUCT IS INVOLVED IN FIRE.

Unusual Fire and Explosion:

EXPLOSIVE MIXTURES CAN FORM WITH AIR. COMBUSTION PRODUCTS ARE TOXIC.

VI. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled:

FOR A SMALL SPILL, IMMEDIATELY HOSE DOWN WITH COOL WATER AND DISPOSE TO DRAIN.
FOR A LARGE SPILL, DIKE, COLLECT AND CONTACT LOCAL AUTHORITIES ABOUT DISPOSAL.

VII. Handling and Storage:

Precautions to be Taken:

EMPTY DRUMS MUST BE TREATED AS HAZARDOUS BECAUSE OF RESIDUES. STORE IN A DRY PLACE. KEEP CONTAINER CLOSED.

Other Precautions:

STORE IN COOL EVENLY TEMPERED LOCATION. KEEP CONTAINER CLOSED. AVOID TEMPERATURE EXTREMES AND OPEN FLAME.

VIII. Exposure Controls/Personal Protection:

Ventilation Requirements:

AVOID BREATHING MIST. IF EXPOSURE IS LIKELY, USE FILTER OR PROTECTIVE RESPIRATOR. MECHANICAL VENTILATION IS ACCEPTABLE. (EXPLOSION PROOF)

Personal Protective Equipment:

HAVE AN EYE BATH AND SAFETY SHOWER CLOSE BY.
WASH HANDS, CHANGE OUT OF CLOTHES AS SOON AS POSSIBLE. WASH CLOTHES, SHOWER OR BATHE AS SOON AS POSSIBLE.

Friday, June 21, 2002

MSDS - Material Safety Data Sheet

Product Name: QUANTEX

MSDS No.: 998

IX. Physical and Chemical Properties:

Boiling Point: NO DATA

Melting Point: NO DATA

Evaporation Rate (Butyl Acetate = 1): NO DATA

Vapor Pressure (mm Hg.): NO DATA

Specific Gravity (H20 = 1): 0.91000

Vapor Density (AIR = 1): -

Solubility in Water: EXCELLENT

Appearance and Odor: LIGHT AMBER LIQUID, ALCOHOL ODOR

Other Information: THIS PRODUCT CONTAINS NO PHOSPHATES
EPA APPROVED PRODUCT
MILDEW INHIBITOR AND SANITIZER

X. Stability and Reactivity:

Stability:

VERY STABLE

Incompatibility (Materials to Avoid):

AVOID CONTACT WITH STRONG OXIDIZERS, REDUCING AGENTS, OR OTHER LAUNDRY CHEMICALS. STRONG DECOMPOSITION REACTION CAN RESULT.

Decomposition/By Products:

Hazardous Polymerization:

HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

XI. Toxicological Information:

CONTACT U.N.X. INCORPORATED

XII. Ecological Information:

CONTACT U.N.X. INCORPORATED

XIII. Disposal Considerations:

FOR A SMALL SPILL, IMMEDIATELY HOSE DOWN WITH COOL WATER AND DISPOSE TO DRAIN.
FOR A LARGE SPILL, DIKE, COLLECT AND CONTACT LOCAL AUTHORITIES ABOUT DISPOSAL.

XIV. Transport Information:

UN 1903
DOT HAZARD CLASS: 8
LABEL: CORROSIVE
PG: II
PROPER SHIPPING NAME: DISINFECTANT, CORROSIVE LIQUID, NOS (DIDECYL DIMETHYL AMMOINIUM CHLORIDE)

XV. Regulatory Information:

UNLESS OTHERWISE NOTED, NO COMPONENTS ARE SARA TITLE 3 SECTION 313 40 CFR LISTED MATERIALS.
THE INGREDIENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY.
THIS PRODUCT IS NOT MADE WITH VOC'S THAT COULD CAUSE DAMAGE TO THE OZONE LAYER.

XVI. Other Information:

JUN.21.2002 12:29PM UNX INCORPORATED GREENVILLE NC NO.406 P.8/1
JUN-21-02 FRI 11:21 AM FAX:2523550431 PAGE 2

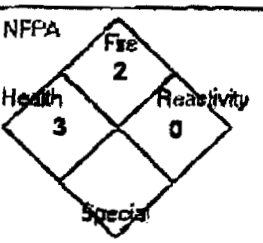
MSDS - Material Safety Datu Sheet

Product Name: QUANTEX

MSDS No.: 998

I. Basic Information:

Manufacturer: U.N.X. INCORPORATED
Address: 707 ARLINGTON BLVD.
City, ST Zip: GREENVILLE, NC 27858
Emergency Contact: CHEMTEL
Emergency Telephone Number: 800-255-3924
Contact: AMENDT; MANGIN; SPICER
Information Telephone Number: 252-756-8616
Last Update: 04/16/2002



3	Health
2	Flammability
0	Reactivity
C	Pers. Protection

Chemical State: [X] Liquid [ ] Gas [ ] Solid
Chemical Type: [ ] Pure [X] Mixture

II. Ingredients:

[ ] Trade Secret

CAS No.	Chemical Name	% Range	EHS NTP	IARC SUB Z	SARA 313	OSHA PEL	ACGIH TLV	Other Limits
64175	Ethanol	0-10				1000ppm	1000ppm	
N/A	Trade Secret PSRN 57948000-5071P	45-55						

III. Hazardous Identification:

Hazard Category:

[ ] Acute [ ] Chronic [ ] Fire [ ] Pressure [ ] Reactive

Hazardous Identification Information:

IV. First Aid Measures:

Route(s) of Entry:

SKIN, EYES, INHALATION

Health Hazards (Acute and Chronic):

INHALATION. CAN IRRITATE NOSE, THROAT, AND LUNGS.
SKIN CONTACT. CAN IRRITATE OR CHAP SKIN.
INGESTION. MAY BE FATAL. BURNING OF THE MOUTH, THROAT, AND ABDOMEN. CONVULSIONS COULD OCCUR.

Signs and Symptoms:

PRODUCT, CAN BE DESTRUCTIVE TO TISSUE. SKIN BURNS CAN BE PRODUCED. CONTACT WITH EYES CAN CAUSE PERMANENT DAMAGE.

Medical Conditions Generally Aggravated by Exposure:

Emergency and First Aid Procedures:

NOISE CENTER OF THE LEAGUE

1 888 NOISE 88

NOISE LEVELS IN OUR ENVIRONMENT FACT SHEET

How Loud is Too Loud? Experts agree that continued exposure to noise above 85 dBA over time, will cause hearing loss. To know if a sound is loud enough to damage your ears, it is important to know both the loudness level (measured in decibels, dBA) and the length of exposure to the sound. In general, the louder the noise, the less time required before hearing loss will occur. According to the National Institute for Occupational Safety and Health (1998), the maximum exposure time at 85 dBA is 8 hours. At 110 dBA, the maximum exposure time is one minute and 29 seconds. If you must be exposed to noise, it is recommended that you limit the exposure time and/or wear hearing protection.

Measure Up and Turn it Down: Decibel Levels Around Us The following are decibel levels of common noise sources around us. These are typical levels, however, actual noise levels may vary depending on the particular item. Remember noise levels above 85 dBA will harm hearing over time. Noise levels above 140dBA can cause damage to hearing after just one exposure.

Points of Reference *measured in dBA or decibels

- 0 The softest sound a person can hear with normal hearing
- 10 normal breathing
- 20 whispering at 5 feet
- 30 soft whisper
- 50 rainfall
- 60 normal conversation
- 110 shouting in ear
- 120 thunder

Home

- 50 refrigerator
- 50 - 60 electric toothbrush
- 50 - 75 washing

Work

- 40 quiet office, library
- 50 large office
- 65 - 95 power lawn mower

Recreation

- 40 quiet residential area
- 70 freeway traffic
- 85 heavy traffic, noisy

machine

- 50 - 75 air conditioner
- 50 - 80 electric shaver
- 55 coffee percolator
- 55 - 70 dishwasher
- 60 sewing machine
- 60 - 85 vacuum cleaner
- 60 - 95 hair dryer
- 65 - 80 alarm clock
- 70 TV audio
- 70 - 80 coffee grinder
- 70 - 95 garbage disposal
- 75 - 85 flush toilet
- 80 pop-up toaster
- 80 doorbell
- 80 ringing telephone
- 80 whistling kettle
- 80 - 90 food mixer or processor
- 80 - 90 blender
- 80 - 95 garbage disposal
- 110 baby crying
- 110 squeaky toy held close to the ear
- 80 manual machine, tools
- 85 handsaw
- 90 tractor
- 90 - 115 subway
- 95 electric drill
- 100 factory machinery
- 100 woodworking class
- 105 snow blower
- 110 power saw
- 110 leafblower
- 120 chain saw, hammer on nail
- 120 pneumatic drills, heavy machine
- 120 jet plane (at ramp)
- 120 ambulance siren
- 125 chain saw
- 130 jackhammer, power drill
- 130 air raid
- 130 percussion section at symphony
- 140 airplane taking off
- 150 jet engine taking Off
- 150 artillery fire at 500 feet

restaurant

- 90 truck, shouted conversation
- 95 - 110 motorcycle
- 100 snowmobile
- 100 school dance, boom box
- 110 disco
- 110 busy video arcade
- 110 symphony concert
- 110 car horn
- 110 -120 rock concert
- 112 personal cassette player on high
- 117 football game (stadium)
- 120 band concert
- 125 auto stereo (factory installed)
- 130 stock car races
- 143 bicycle horn
- 150 firecracker
- 156 capgun
- 157 balloon pop
- 162 fireworks (at 3 feet)
- 163 rifle
- 166 handgun

decibel , abbr. dB, unit used to measure the **loudness** of sound. It is one tenth of a bel (named for A. G. Bell), but the larger unit is rarefy used. The decibel is a measure of sound intensity as a function of power ratio, with the difference in decibels between two sounds being given by $dB=10 \log_{10}(P_1/P_2)$, where P, and P_2 are the power levels of the two sounds. The faintest audible sound, corresponding to a sound pressure of about 0.0002 dyne per sq cm, is arbitrarily assigned a value of 0 dB. The loudest sounds that can be tolerated by the human ear are about 120 dB. The level of normal conversation is about 50 to 60 dB. The decibel is also used to measure certain other quantities, such as power loss in telephone lines.

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Occupational noise exposure. - 1910.95

Regulations (Standards - 29 CFR) - Table of Contents

o Part Number:	1910
• Part Title:	Occupational Safety and Health Standards
o Subpart:	G
o Subpart Title:	Occupational Health and Environment Control
• Standard Number:	1910.95
• Title:	Occupational noise exposure.
• Appendix:	A, B, C, D, E, E, G, H, I

1910.95(a)

Protection against the effects of noise exposure shall be provided when the sound levels exceed those shown in Table G-16 when measured on the A scale of a standard sound level meter at slow response. When noise levels are determined by octave band analysis, the equivalent A-weighted sound level may be determined as follows:

FIGURE G-9 - Equivalent A-Weighted Sound Level
(For Figure G-9, Click Here)

Equivalent sound level contours. Octave band sound pressure levels may be converted to the equivalent A-weighted sound level by plotting them on this graph and noting the A-weighted sound level corresponding to the point of highest penetration into the sound level contours. This equivalent A-weighted sound level, which may differ from the actual A-weighted sound level of the noise, is used to determine exposure limits from Table 1.G-16.

1910.95(b)

1910.95(b)(1)

When employees are subjected to sound exceeding those listed in Table G-16, feasible administrative or engineering controls shall be utilized. If such controls fail to reduce sound levels within the levels of Table G-16, personal protective equipment shall be provided and used to reduce sound levels within the levels of the table.

1910.95(b)(2)

If the variations in noise level involve maxima at intervals of 1 second or less, it is to be considered continuous.

TABLE G-16 - PERMISSIBLE NOISE EXPOSURES (I)

Duration per day, hours	Sound level dBA slow response
8	90
6	92

- 135 noisy squeeze toys
- 180 rocket launching from pad
- 170 shotgun

ADVANTAGE LINEN SERVICE
Div. of Downeast Uniform Sales Inc.
P.O.Box 1041
Portland, Maine 04104
Tel. (207)878-2676 • Fax (207)878-2622
Pager 1-800-498-0077 Pin #5338

To: City Engineer
City of Portland

From: Wayne Bradbury
President: Advantage Linen Services

Based on information received fiom Washex Inc, current distributors of Challenge-Cook Dryers, the CPGS Model Dryers generate 85-88db on noise levels of all duct-fans and motors, and was taken fiom a distance of three feet (3).

Plans are to install the Cook Challenge dryers near the rear of the lease space which locates them 240 feet fiom Canco Road. They will be vented through a lint filter located above the dryers into an existing sound insulated building directly above the dryers on the roof The exhaust from these dryers will then be pointed towards the rear of the building, Forest Avenue, and the rail road tracks located at the property line. We estimate the noise decibel rating of the exhaust vent to be 65-70db and ambient at the rear of the property.

The noise decibel rating at the Canco Road property line will be less than ambient while these dryers are in operation.

Oakhurst refrigerated trailers located at this property currently emit 86db three feet from the refrigeration units noise levels at the property line are less than 60db.

I hope this addresses your concerns regarding the db levels about the commercial dryers that we are attempting to install at 135 Walton Street.

Any further questions please feel free to contact me at (207) 878-2676.

Sincerely,

Wayne L. Bradbury

President
Advantage Linen
(207) 878-2676

According to the "inverse square law" which applies to spherical waves the **intensity of sound radiated from a point source diminishes as the square of the distance** i.e. = **a sum 88db** *3ft* from **machine, then**

3' = 88dbs

9' = 44 db (3x3 = 9')

81 = 22 **dbs** (9 **x** 9 = 81')

Questions Vondyra Hoyer
239-643-1711

1470 Don Street • Naples, Florida 34104

Telephone: (239) 643-1711
Fax: (239) 643-6081
Customer Service: (800) 944-1711

Installation & Operation Manual
For ENERGENICS 9002 Control
In-Line Space Saver Lint Filters

OCT 1 9 20

DESCRIPTION OF LINT FILTER OPERATION

Your new Energenics Lint Filter represents the most advanced features available in the laundry industry to date. The following list the functions and mode of operation:

Blowdown (cleaning) – The Lint Filter will monitor the system backpressure and automatically initiate the blowdown cycle. On the main control the Normal Light will be lit when the system senses airflow from the dryers. As the screen fills with lint the set light will illuminate when the backpressure reaches a set reference (default is .5" w.c.). 30 seconds after the set light illuminating the 6 second blowdown occurs. The setting can be adjusted by the operator by adjusting the pressure input box located on top of the Lint Filter. The adjustment is done by turning a screw at the bottom of the box. 70% of the lint will be removed from the screen even though the dryer(s) may be operating. When the dryer(s) are all off the pressure input box will sense no airflow and will initiate a blowdown signal which will remove 100% of the Lint on the screen. A manual blowdown can also be done by depressing the button on the side of the Lint Filter control. Note that a **blowdown cannot occur within 3 minutes of a prior blowdown.** This is done to allow the compressed air supply to fully recover.

Optional Excess Pressure Alarm – If for any reason the Lint Filter has not blown down properly (i.e.: compressor turned off) the system will sense a higher backpressure than normal. The excess light on the filter control and the siren and the strobe light both activate. The Filter control will attempt to blowdown every 3 minutes until the excess backpressure condition has terminated. If this condition persist a manual inspection of the lint screen and observation of proper blowdown must be done.

Optional Fire Control System – A normally open sensor located inside of the filter at the top of the inlet will close at 360 degrees F. The control will open the water solenoid, illuminate the strobe as well as energize the siren. The Alarm will be active until 30 seconds after the temperature has dropped bellow 360 degrees F. After 30 seconds the alarm will automatically reset, Inside the control box is a Fire Control test button. Depress the button and the Fire Control will be activated for 30 seconds. The function of the test button is to check the circuit. It does not test the sensor itself- Using a propane torch to the sensor will test the complete system.

Receiving and Installation

Before you sign the Bill of Lading:

1. **Receiving-** Inspect units inside and out for signs of damage
   Verify all components are delivered per the Bill of Materials.

Report damage to the carrier IMMEDIATELY.
Note ALL damage on the Bill of Lading.
This is your responsibility and you must file all claims.

The filter is fully assembled and ready for installation. The control, valves, lint bag is in a cardboard box. Make sure both are complete. Per Exhibit A.

2 Installation-Follow instructions attached:

Determine *the* location with reference to minimum duct work from the tumbler and ease of access for inspection.

If using a lint drop pipe allow enough room for lint to travel down 4' before the first bend. Max bend angle is 30 degrees.

If using lint bag or container make sum adequate clearance is allowed.

Conduit or Sealtight between filter junction boxes should be ¾ inch.

Not all connection positions 1-16 on the three Control Box terminals, J1, J2 and J3 will not necessarily have wires connected to them, it depends *on* the options ordered.

If the Fire Contro Option is NOT ordered the installer must supply a junction box to connect *the* wires from the Pressure Input Box and valves to the wires running to the Control Box.

When mounting the filter overhead, mount the control below the filter where it can be easily accessed.

Important Installation Considerations

All Energenics Lint Collectors can be mounted indoors or outdoors. If it is mounted outdoors we recommend our Side Discharge or a field installed swept radius elbow (Gooseneck). Do not use a "China type" cap on the discharge. The Pressure transducer should be mounted on top of the filter to prevent condensation running down the tubes into the pressure switch located in the pressure input box. Also, mount the supplied air pressure gauge at the blowdown pipe on top of the filter.

All solenoids should be mounted as practically close to the filter as possible, but always inside the building. This will allow most of the air and water (if equipped with optional Fire Control) piping to remain pressure charged for most efficient operation.

Energenics supplies a reel of wire connected on one end to the Filter Control. In most cases the reel is long enough for most indoor installations. In rare situations the wire is not long enough and must be extended. This is not difficult, but make sure the wire extensions are properly marked for correct termination.

The Filter Control box should be located in a position to be easily seen and in close proximity to personnel. In other words if the Filter Control is located outdoors, 20 feet in the air or in another room away from the laundry personnel, this would be the ***wrong*** location.

Since the Filter uses compressed air it is important that the air receiver (if equipped) be located as close to the filter as possible. The longer the pipe runs the more restrictive. You will need to increase the pipe diameter if the run is very long.

If the installation is a multi-dryer/multi-duct installation it may be necessary to use backdraft dampers to prevent lint backflow into the ducts of turned off dryers. Most dryers have them available as standard equipment or can be ordered to add on.

After everything is mounted and utilities turned on press the manual blowdown button located on the side of the Filter control box and the rotor on the inside the lint filter should spin. Make sure that the air pressure at the filter starts out at 100 and ends at about 60 at the end of the blowdown cycle. If it is too low the rotor won't turn.

If the Filter is equipped with Fire Suppression the test button is on the inside of the Filter Control. It is on the inside to keep people from pushing the button as they walk by. When the button is pushed the strobe and siren will go on along with the water solenoid valve. The system operates for 5 seconds and turns off automatically.

Exhibit A: Components Packed in Canton

Layout all components in the carton and ascertain that order is complete.

****Note that Lint Bag is not shown in the picture.****

Components listed from left to right:

Neoprene tubing, optional black siren, pressure input box, surge protectors, optional red strobe, air pressure gauge fitting, spooled wire, main control box, air pressure gauge, air solenoid valve, optional water solinoid valve, transformer box, pressure input box mount, and fasteners

Warning and Caution

You have purchased the finest lint filter available for your facility. Please follow these instructions to ensure a safe long life for your filter and facility.

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN AN UNSAFE OPERATING CONDITION, INCLUDING THE POSSIBILITY OF FIRE.

DO NOT OPERATE ANY DRYER CONNNECTED TO THIS FILTER WITHOUT BEING CERTAIN THE FILTER STARTUP HAS BEEN COMPLETED AND THE FILTER IS IN OPERATING CONDITION.

Insure it is installed in compliance with local *codes.*

Step 1. Install the compressed air (Fire suppression plumbing if ordered), and piping system(s) including solenoid valves. If the filter is in position, make all final connections.

Step 2. Mount the *9002* control in a visible location on a solid vibration free surface and connect all components.

Step 3. Provide dedicated electrical service to the transformer and test all systems.

Step 4. Install sheet metal and ducting.

START UP AND OPERATION INSTRUCTIONS

Inspect the fitter installation. Is it complete? Review the entire installation requirements prior to startup.

1. Verify the 9002 control wiring.

2. Test the blow down cycle (push manual button on control).
   Watch the pressure gauge. It should start at 100psi and should not drop below 80psi during the 6-10 second cycle.

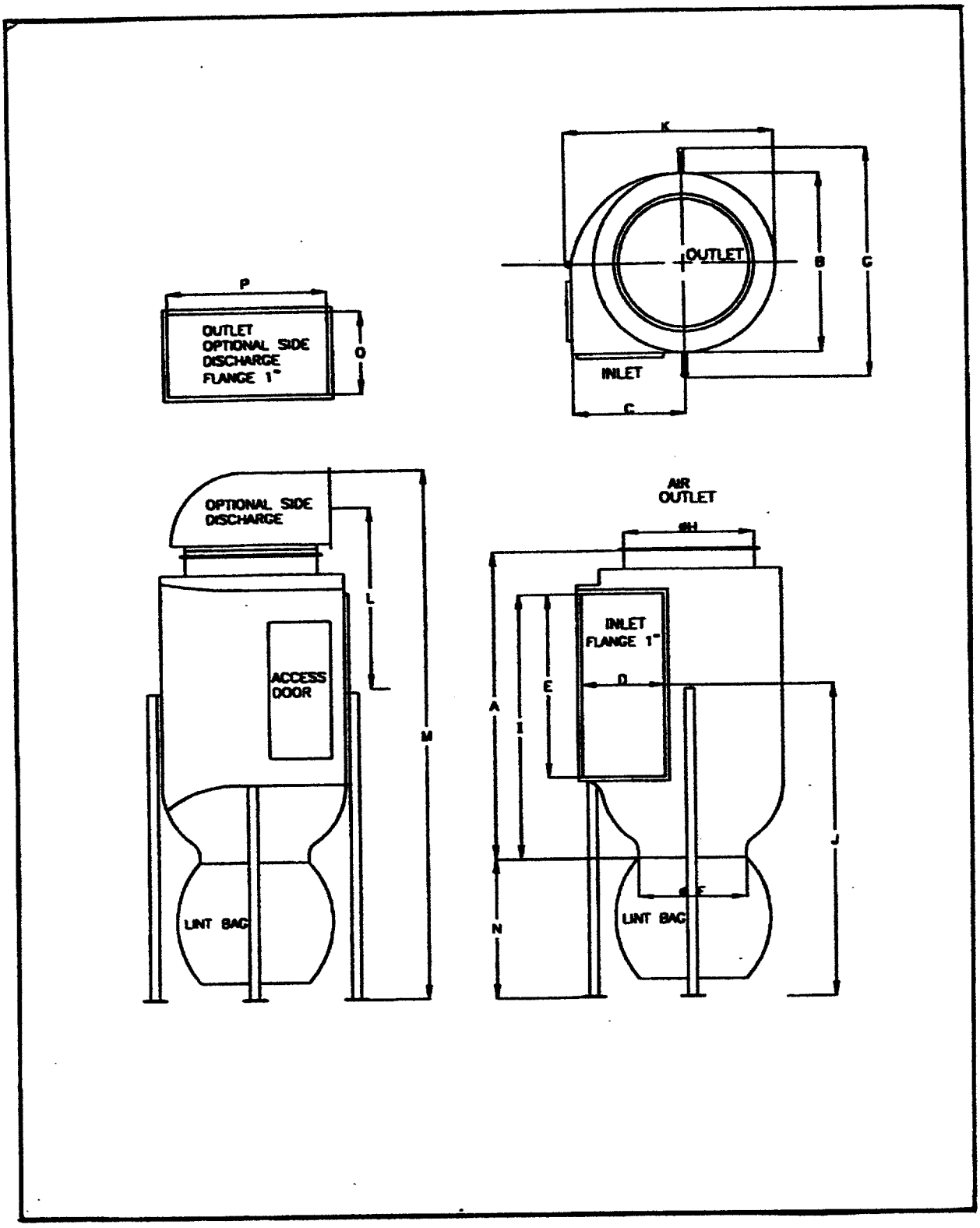
   The rotor should turn 6-12 times during blow down. The rotor propulsion is adjustable by increasing the number of horizontal holes on the top horizontal portion of the rotor end.

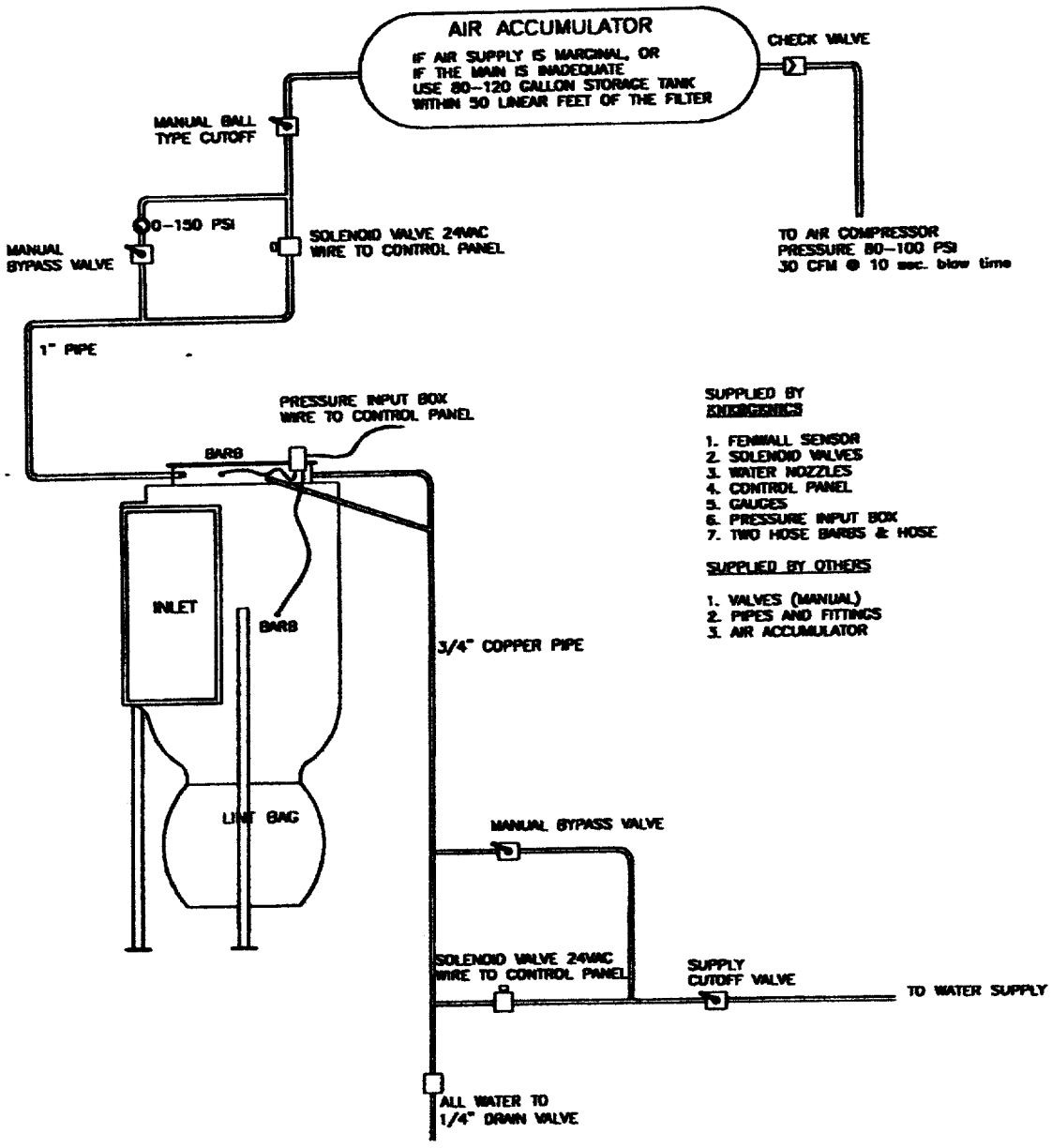
3. Review maintenance requirements and establish a regular PM schedule.

CAUTION - DO NOT OPERATE FILTER WITH BOOSTER FAN WITHOUT BAROMETRIC DAMPER !!!!!!!

Model #	S-4	FRP-6	S-6	FRP-8	FRP-10	S-10	FRP-15	S-15	FRP-20	S-20	FRP-25	S-25	FRP-30	S-30
CFM	4,000	6,000	6,000	8,000	10,000	10,000	15,000	15,000	20,000	20,000	25,000	25,000	30,000	30,000
Screen Area Sq. Feet	18	20	20	40	36	30	40	37	49	51	66	66	98	98
Oper. Wt. Lbs.	130	180	300	200	170	370	210	410	450	750	475	750	475	775
Ship Wt. Lbs.	160	220	360	260	280	400	350	490	530	880	555	875	585	895
A	52.0	54.0	52.0	94.5	67.0	59.0	63.0	61.0	80.0	75.0	88.0	88.0	88.0	88.0
B	27.0	32.0	30.0	30.0	44.0	40.0	52.0	48.0	58.0	56.0	84.0	84.0	84.0	84.0
C	15.0	22.0	22.0	18.0	30.0	29.0	39.0	33.0	46.0	40.0	45.0	45.0	45.0	45.0
D	12.0	20.0	12.0	12.0	24.0	16.0	32.0	24.0	36.0	24.0	48.0	48.0	48.0	48.0
E	30.0	30.0	36.0	56.0	40.0	46.0	40.0	46.0	50.0	58.0	58.0	58.0	58.0	58.0
F	27.0	27.0	30.0	27.0	23.0	20.0	29.5	24.0	24.0	24.0	30.0	30.0	30.0	30.0
G	30.0	35.0	35.0	34.0	50.0	46.0	58.0	52.5	64.0	64.0	94.0	94.0	94.0	94.0
H	16.0	20.0	20.0	26.0	28.0	24.0	30.0	30.0	34.0	34.0	48.0	48.0	48.0	48.0
I	42.0	35.0	42.0	62.0	57.0	53.5	52.0	56.0	72.0	70.0	70.0	70.0	70.0	70.0
J	51.0	44.0	48.0	36.0	61.0	54.5	56.0	57.0	52.0	65.0	65.0	65.0	65.0	65.0
K	28.0	38.0	37.0	33.0	46.0	49.0	52.0	57.0	67.0	68.0	94.0	94.0	94.0	94.0
L	34.0	43.0	37.0	69.0	40.0	38.5	41.0	38.0	51.0	48.0	61.0	61.0	61.0	61.0
M	92.0	94.0	92.0	134.0	109.0	101.0	105.0	103.0	131.0	125.0	140.0	140.0	140.0	140.0
N	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
O	14.0	14.0	14.0	14.0	16.0	16.0	16.0	16.0	24.0	24.0	28.0	28.0	28.0	28.0
P	24.0	24.0	24.0	30.0	39.0	39.0	40.0	40.0	48.0	48.0	60.0	60.0	60.0	60.0

3-24" Inlet COLORS Refer to Page 10


P
OUTLET
OPTIONAL SIDE
DISCHARGE
FLANGE 1"
O
K
OUTLET
B
G
INLET
C
OPTIONAL SIDE
DISCHARGE
L
ACCESS
DOOR
M
LINT BAG
AIR
OUTLET
INLET
FLANGE 1"
D
E
A
I
J
N
LINT BAG



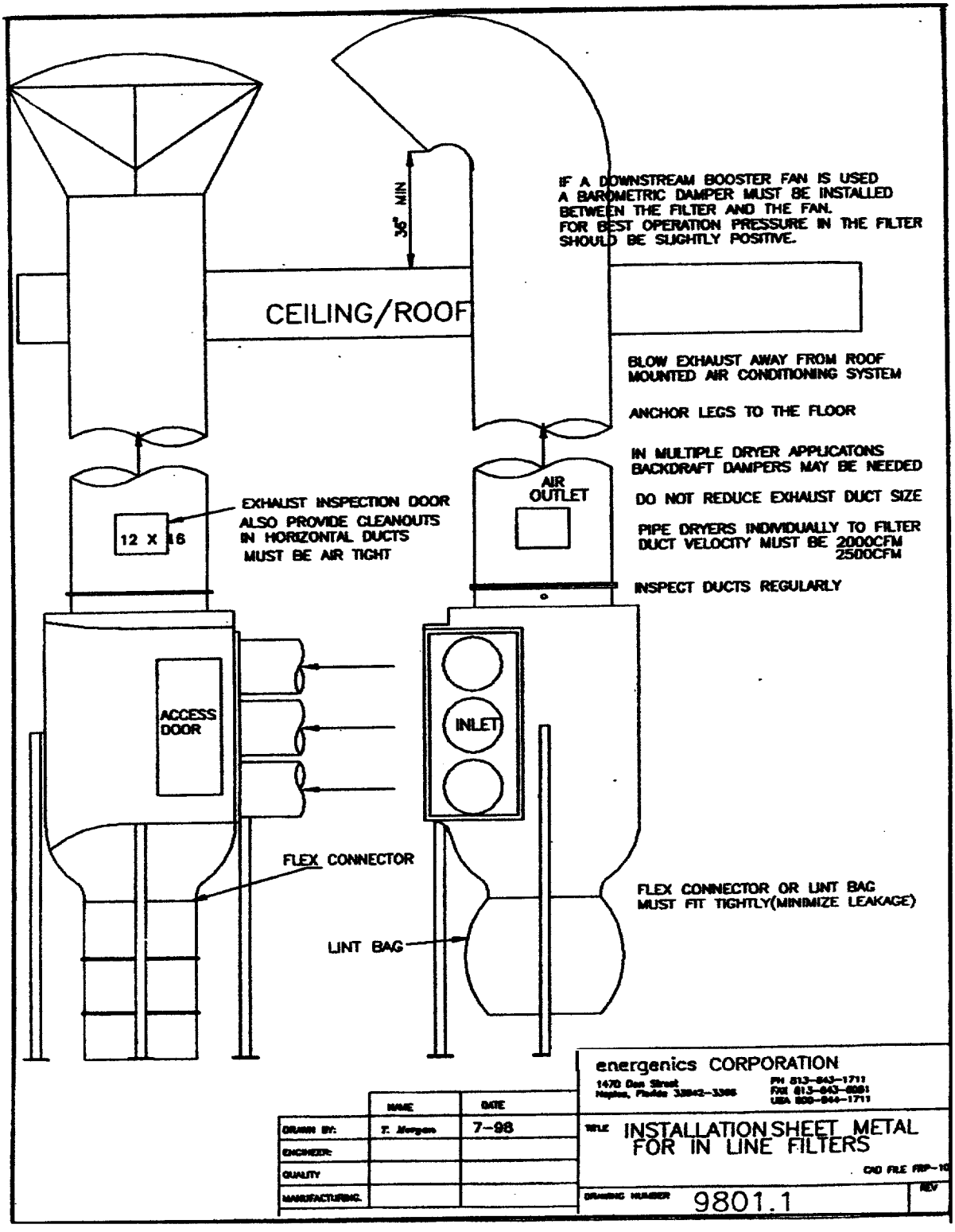
	NAME	DATE
DRAWN BY:	K. Sumner	02-02
ENGINEER:		
QUALITY:		
SCALE:	NONE	

ENERGENICS CORPORATION
1470 Don Street
Naples Florida 34104
PH (941)643-1711
FAX (941)643-6081
USA (800)944-1711

TITLE

UTILITIES INSTALLATION

DRAWING NUMBER INSTALL 2

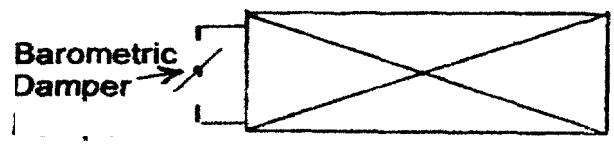

36" MIN
CEILING/ROOF
IF A DOWNSTREAM BOOSTER FAN IS USED
A BAROMETRIC DAMPER MUST BE INSTALLED
BETWEEN THE FILTER AND THE FAN.
FOR BEST OPERATION PRESSURE IN THE FILTER
SHOULD BE SLIGHTLY POSITIVE.
BLOW EXHAUST AWAY FROM ROOF
MOUNTED AIR CONDITIONING SYSTEM
ANCHOR LEGS TO THE FLOOR
IN MULTIPLE DRYER APPLICATONS
BACKDRAFT DAMPERS MAY BE NEEDED
DO NOT REDUCE EXHAUST DUCT SIZE
PIPE DRYERS INDIVIDUALLY TO FILTER
DUCT VELOCITY MUST BE 2000CFM
2500CFM
INSPECT DUCTS REGULARLY
12 X 16
EXHAUST INSPECTION DOOR
ALSO PROVIDE CLEANOUTS
IN HORIZONTAL DUCTS
MUST BE AIR TIGHT
AIR
OUTLET
ACCESS
DOOR
INLET
FLEX CONNECTOR
LINT BAG
FLEX CONNECTOR OR LINT BAG
MUST FIT TIGHTLY(MINIMIZE LEAKAGE)
energenics CORPORATION
1470 Don Street
Naples, Florida 33942-3366
PH 813-643-1711
FAX 813-643-8981
USA 800-840-1711
NAME
DATE
DRAWN BY:
T. Morgan
7-98
ENGINEER:
QUALITY
MANUFACTURING
TITLE
INSTALLATION SHEET METAL
FOR IN LINE FILTERS
CAD FILE FRP-10
DRAWING NUMBER
9801.1
REV

PROPER APPLICATION OF LINT FILTER ON SMALL DRYERS WITH BOOSTER FANS

Introduction: Sets of 35lb. /150lb. Dryers are normally installed with only the lint drawer underneath the dryer, which does not collect all of the lint. The lint which bypasses the drawer collects in the ductwork and becomes a fire hazard. This hazard can be eliminated by adding an Energenics Lint Filter as shown below, with a booster-blower to overcome the resistance of the long ductwork and barometric dampers to relieve any vacuum inside the lint Filter.

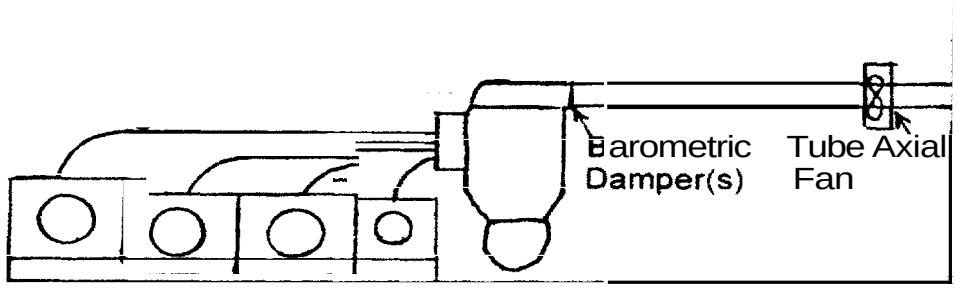
Application: Provide a booster fan if the ductwork is excessive. Balance the airflow through the systems with all dryers running (i.e. slight positive pressure on the outlet of the lint filter). This will allow the rated airflow through each dryer and each dryer will run well (one can measure the actual airflow with a pitot tube, if necessary). This will allow the dryers to work as designed and the lint to fall off the lint screen, as designed.

Number Of Dryers "on"	static pressure on Hint Filter inlet
3	+
2	+
1	0 (never negative)



cross-sectional view

boss to keep damper from opening into the airstream



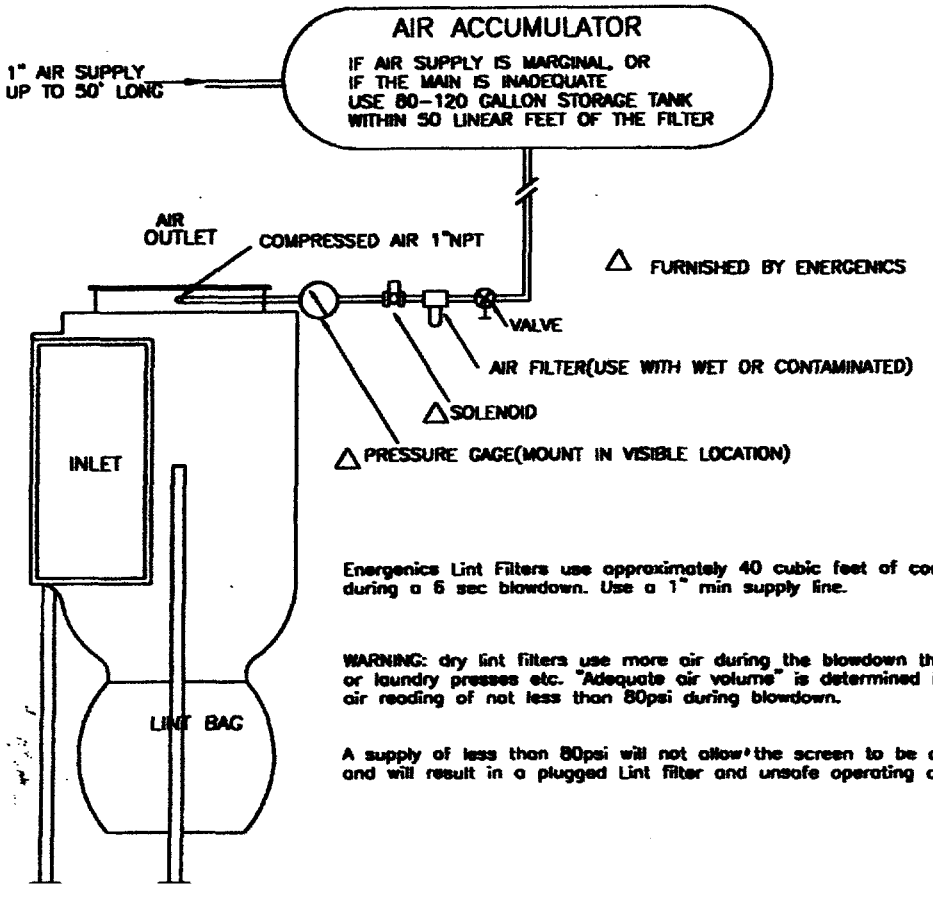
OUTDOORS

Use no birdscreen, it will plug with lint and restrict the airflow.

Locate Lint Filter as near as possible to the dryers to collect all the lint before it accumulates in the duct system, to keep the duct system free of lint.

COMPRESSED AIR REQUIREMENTS

AIR SHOULD BE SUPPLIED TO THE FILTER AT 100psi
AND SHOULD NOT DROP BELOW 80psi AFTER THE 6 sec blowdown



Energenics Lint Filters use approximately 40 cubic feet of compressed air at 100psi during a 6 sec blowdown. Use a 1" min supply line.

WARNING: dry lint filters use more air during the blowdown than washers or laundry presses etc. "Adequate air volume" is determined by a compressed air reading of not less than 80psi during blowdown.

A supply of less than 80psi will not allow the screen to be cleaned automatically and will result in a plugged Lint filter and unsafe operating conditions.

	NAME	DATE
DRAWN BY:	T. Morgan	7-98
ENGINEER:		
QUALITY		
MANUFACTURING:		

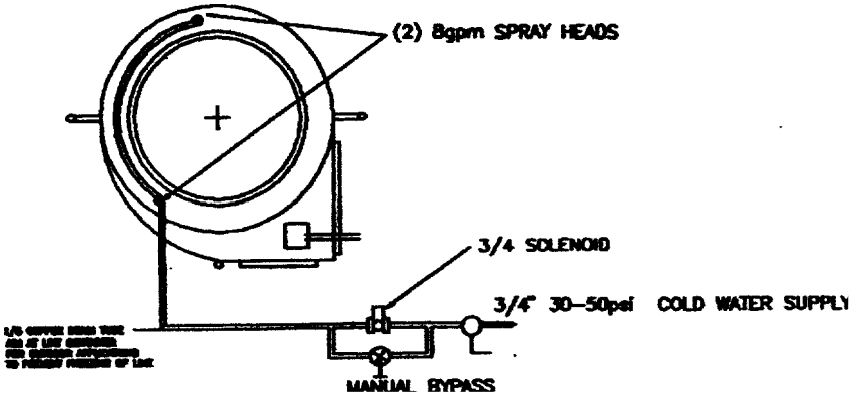
energenics CORPORATION
1470 Oak Street
Naples, Florida 33942-3308
PH 813-643-1711
FAX 813-643-6081
USA 800-944-1711

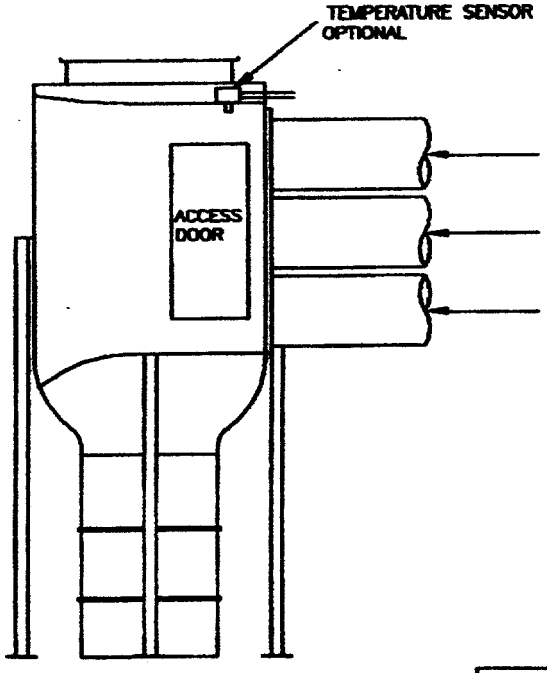
TITLE COMPRESSED AIR REQUIREMENTS

CAD FILE FRP-H

DRAWING NUMBER 9801.2

PLUMBING FOR
FIRE SUPPRESSION OPTION 41





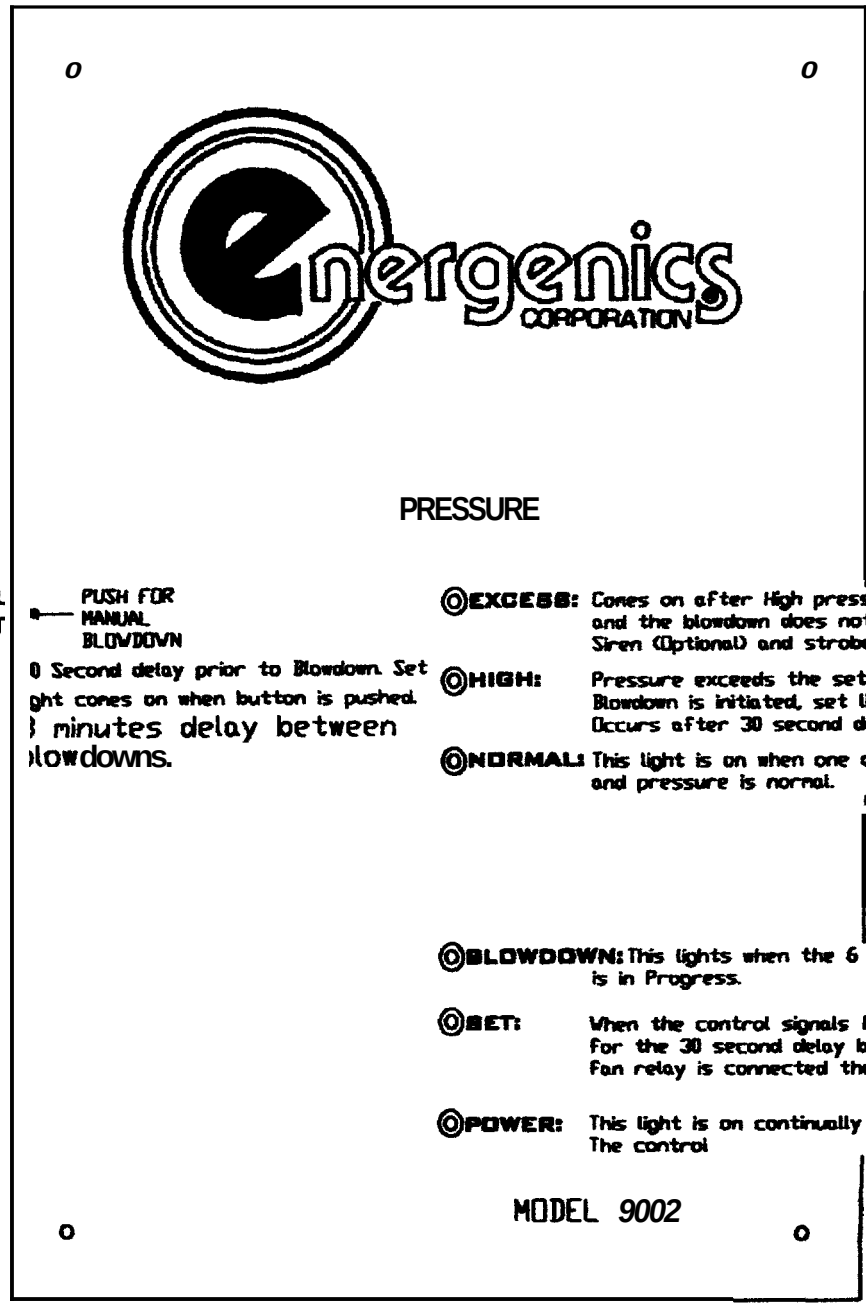
energenics CORPORATION

	NAME	DATE
DRAWN BY:	F. Morgan	7-98
CHECKED:		
QUALITY		
MANUFACTURING		

FIRE SUPPRESSION
WATER SYSTEM

DRAWING NUMBER 9801.3

FRONT COVER

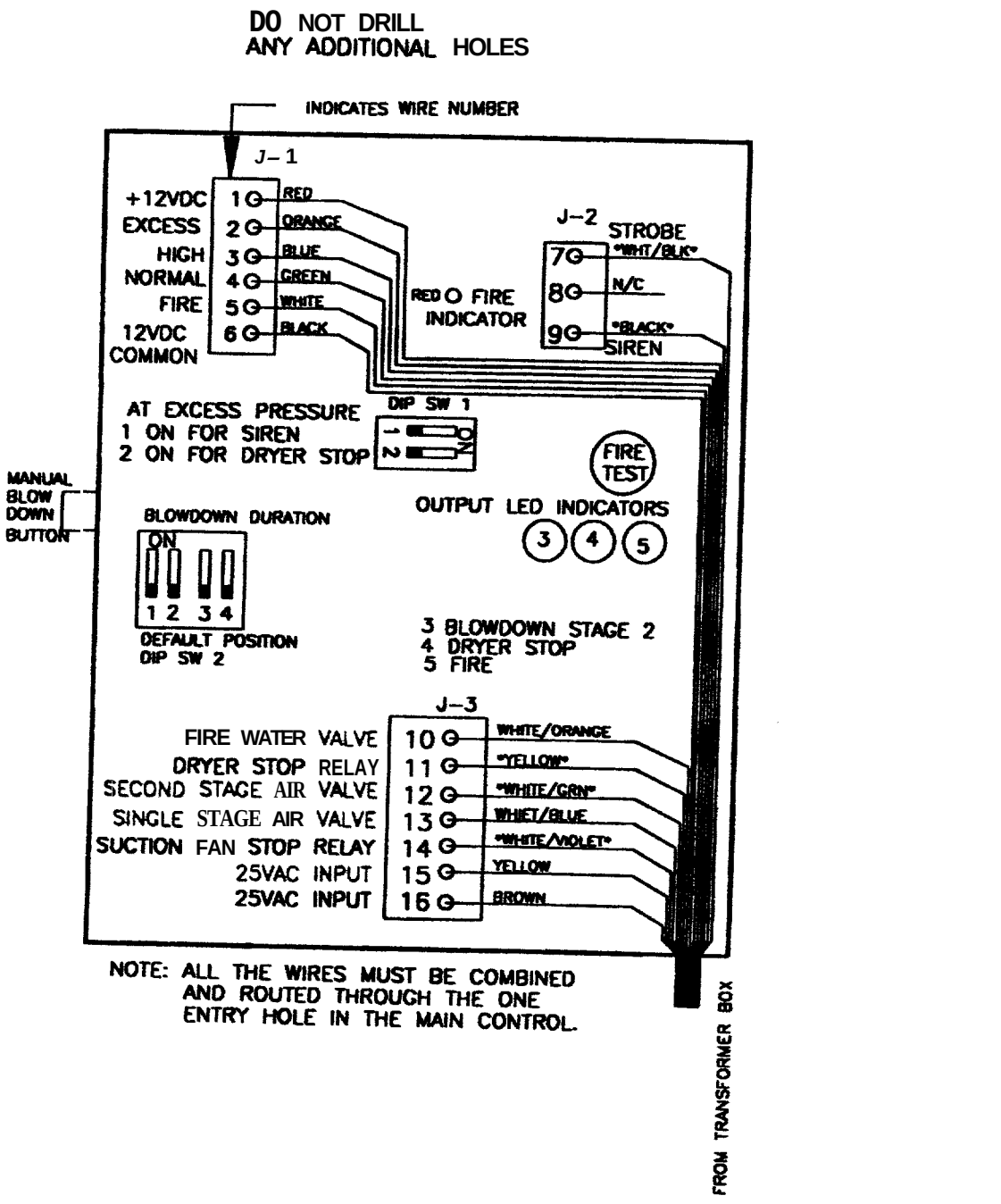


	NAME	DATE
DRAWN BY:	Keith Summers	7-00
ENGINEER:	REVISED	9-02
QUALITY:		
SCALE:		

ENERGENICS CORPORATION
1470 Don Street
Naples Florida 34104
PH (941)643-1711
FAX (941)643-6081
USA (800)944-1711

TITLE
CONTROL PANEL(COVER)

DRAWING NUMBER 9002.0

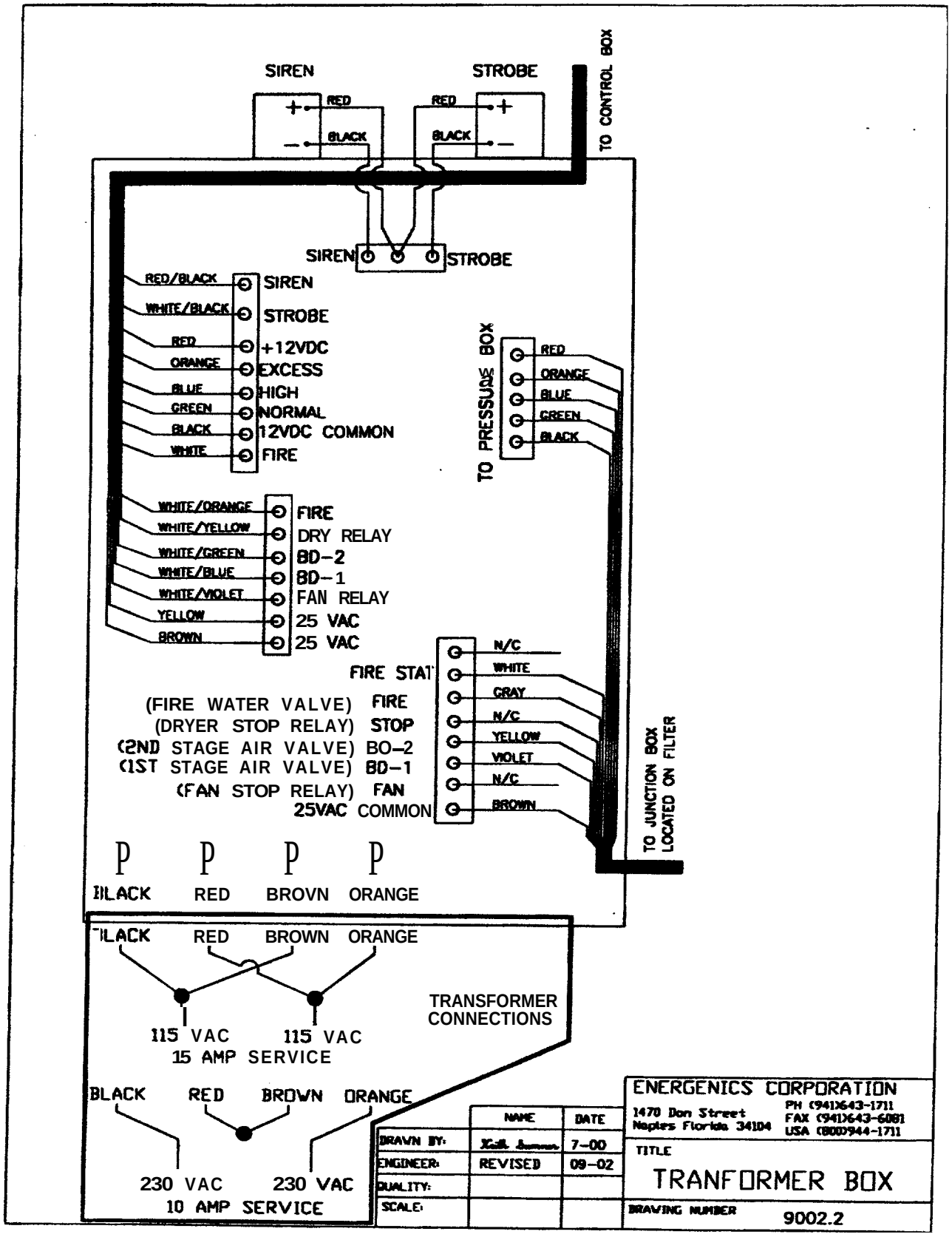


	NAME	DATE
DRAWN BY:	Kelli Summers	7-00
ENGINEER:	REVISED	09-02
QUALITY:		
SCALE:		

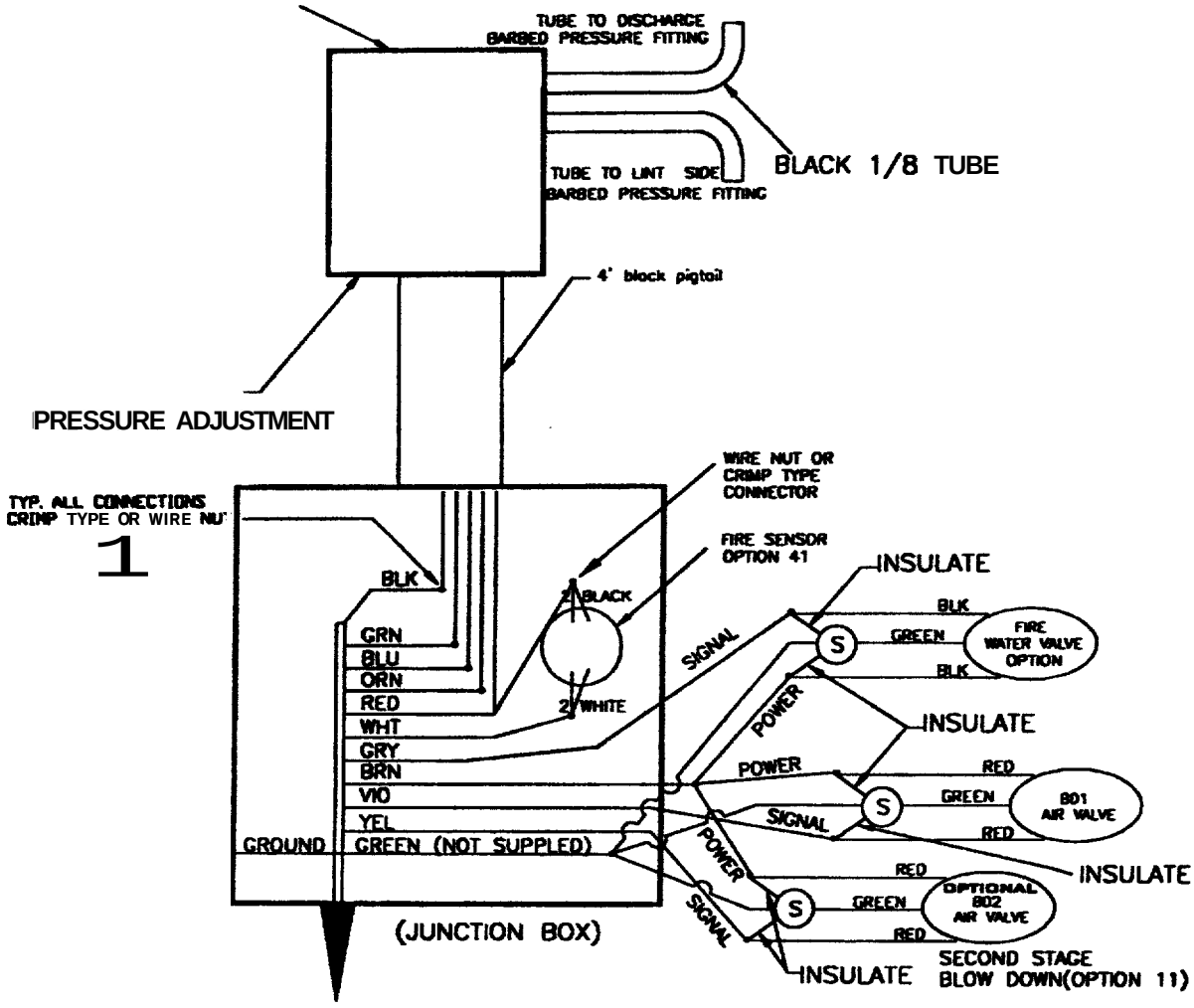
ENERGENICS CORPORATION
1478 Don Street
Naples Florida 34104
PH (941)643-1711
FAX (941)643-6081
USA (800)944-1711

TITLE
MAIN CONTROL BOX

DRAWING NUMBER 9002.1


SIREN
STROBE
RED
BLACK
TO CONTROL BOX
SIREN
STROBE
RED/BLACK
SIREN
WHITE/BLACK
STROBE
RED
+12VDC
ORANGE
EXCESS
BLUE
HIGH
GREEN
NORMAL
BLACK
12VDC COMMON
WHITE
FIRE
TO PRESSUSW BOX
RED
ORANGE
BLUE
GREEN
BLACK
WHITE/ORANGE
FIRE
WHITE/YELLOW
DRY RELAY
WHITE/GREEN
BO-2
WHITE/BLUE
BO-1
WHITE/VIOLET
FAN RELAY
YELLOW
25 VAC
BROWN
25 VAC
FIRE STAT
N/C
WHITE
GRAY
N/C
YELLOW
VIOLET
N/C
BROWN
(FIRE WATER VALVE) FIRE
(DRYER STOP RELAY) STOP
(2ND STAGE AIR VALVE) BO-2
(1ST STAGE AIR VALVE) BO-1
(FAN STOP RELAY) FAN
25VAC COMMON
TO JUNCTION BOX LOCATED ON FILTER
BLACK
RED
BROWN
ORANGE
BLACK
RED
BROWN
ORANGE
TRANSFORMER CONNECTIONS
115 VAC
115 VAC
15 AMP SERVICE
BLACK
RED
BROWN
ORANGE
230 VAC
230 VAC
10 AMP SERVICE
NAME
DATE
DRAWN BY:
7-00
ENGINEER:
REVISED
09-02
QUALITY:
SCALE:
ENERGENICS CORPORATION
1470 Don Street
Naples Florida 34104
PH (941)643-1711
FAX (941)643-6081
USA (800)944-1711
TITLE
TRANFORMER BOX
DRAWING NUMBER
9002.2

PRESSURE INPUT BOX

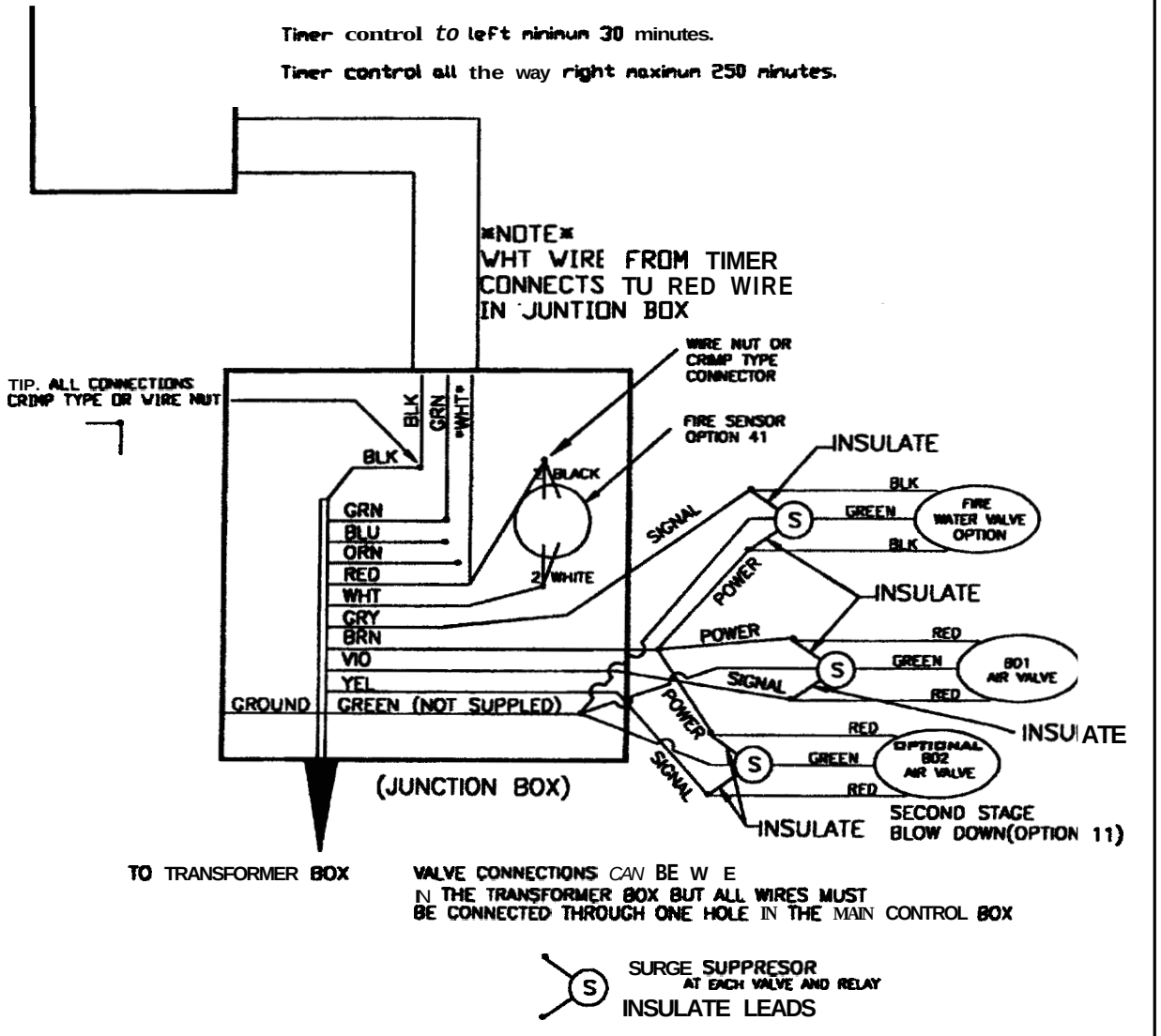


DRAWN BY:	Scott Summers	07-00
ENGINEER:	REVISED	09-02
QUALITY:		
SCALE:		

ENERGENICS CORPORATION
1470 Don Street PH (941)643-1711
Naples Florida 34104 USA FAX (941)643-6081 (800)944-1711

PRESSURE INPUT BOX

DRAWING NUMBER 9002.3

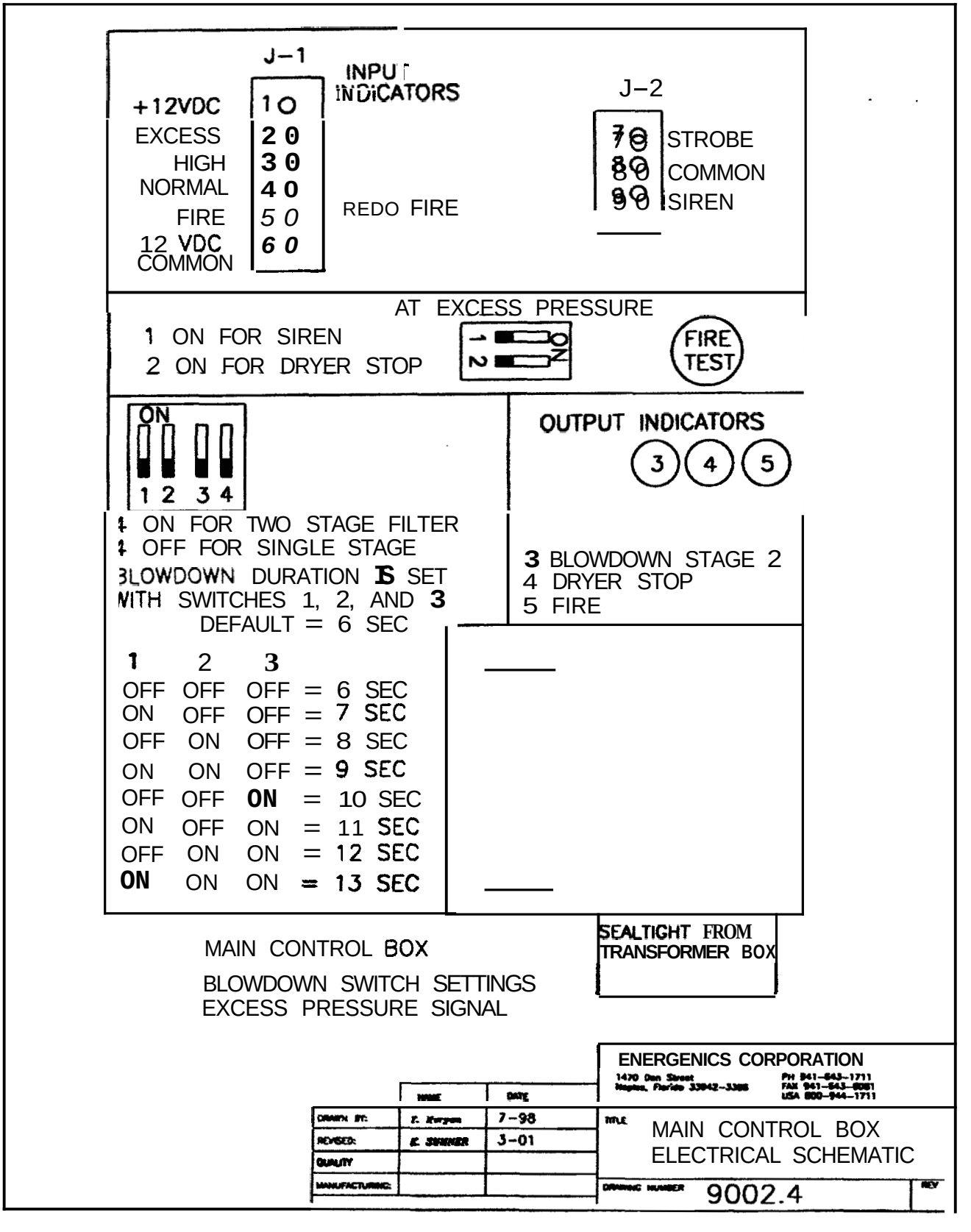


	NAME	DATE
DRAWN BY:	[illegible]	7-00
ENGINEER:	REVISED	09-02
QUALITY:		
SCALE:		

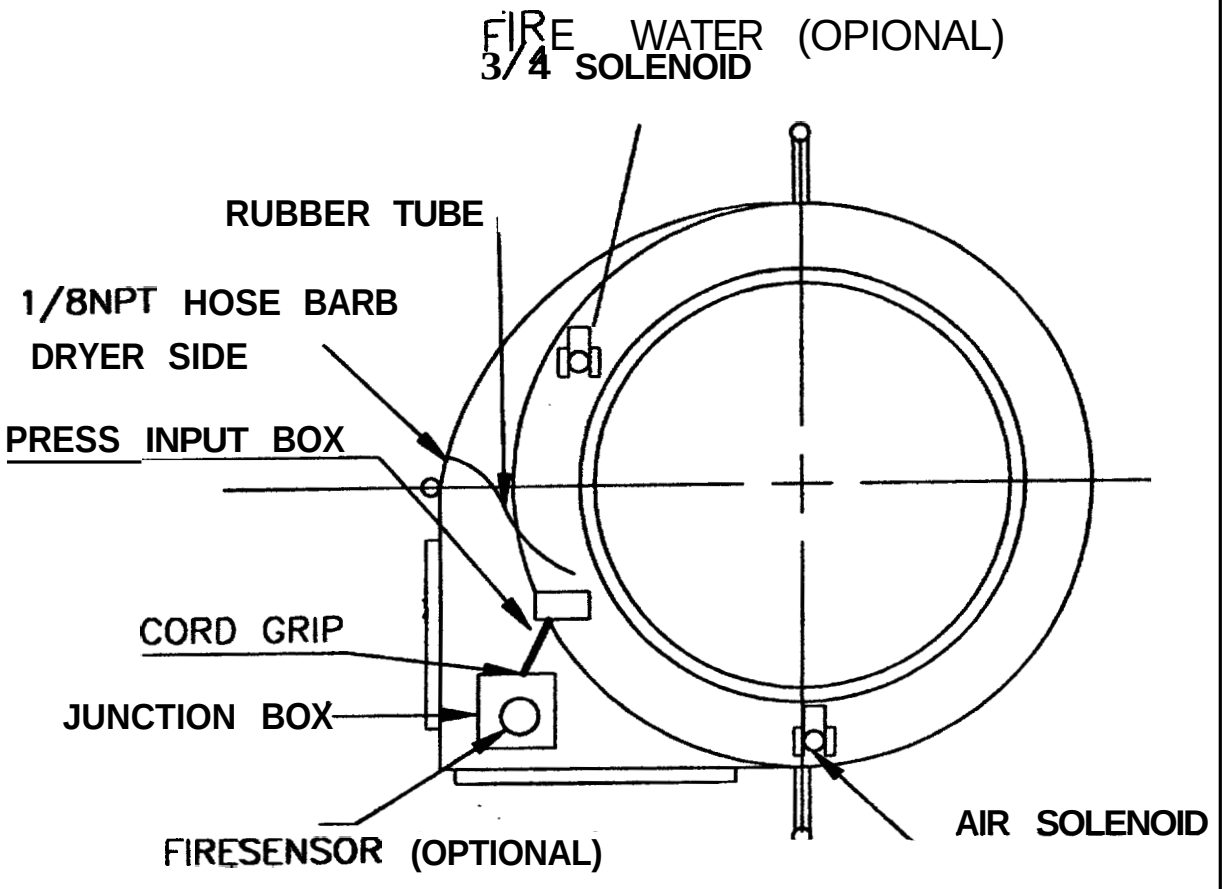
ENERGENICS CORPORATION
1470 Don Street
Naples Florida 34104
PH (941)643-1711
FAX (941)643-6081
USA (800)944-1711

TITLE
TIMER BOX

DRAWING NUMBER
9002.3A


J-1
INPUT INDICATORS
+12VDC
EXCESS
HIGH
NORMAL
FIRE
12 VDC COMMON
1 O
2 0
3 0
4 0
5 0
6 0
REDO FIRE
J-2
STROBE
COMMON
SIREN
AT EXCESS PRESSURE
1 ON FOR SIREN
2 ON FOR DRYER STOP
ON
1
2
FIRE TEST
ON
1 2 3 4
OUTPUT INDICATORS
3
4
5
1 ON FOR TWO STAGE FILTER
1 OFF FOR SINGLE STAGE
BLOWDOWN DURATION IS SET WITH SWITCHES 1, 2, AND 3
DEFAULT = 6 SEC
3 BLOWDOWN STAGE 2
4 DRYER STOP
5 FIRE
1 2 3
OFF OFF OFF = 6 SEC
ON OFF OFF = 7 SEC
OFF ON OFF = 8 SEC
ON ON OFF = 9 SEC
OFF OFF ON = 10 SEC
ON OFF ON = 11 SEC
OFF ON ON = 12 SEC
ON ON ON = 13 SEC
SEALTIGHT FROM TRANSFORMER BOX
MAIN CONTROL BOX
BLOWDOWN SWITCH SETTINGS
EXCESS PRESSURE SIGNAL
ENERGENICS CORPORATION
1470 Don Street
Naples, Florida 33942-3386
PH 941-643-1711
FAX 941-643-8061
USA 800-944-1711
NAME
DATE
DRAWN BY:
P. Kurgan
7-98
REVISED:
E. SKINNER
3-01
QUALITY
MANUFACTURING:
TITLE
MAIN CONTROL BOX
ELECTRICAL SCHEMATIC
DRAWING NUMBER
9002.4
REV

CONNECTION REQUIREMENT

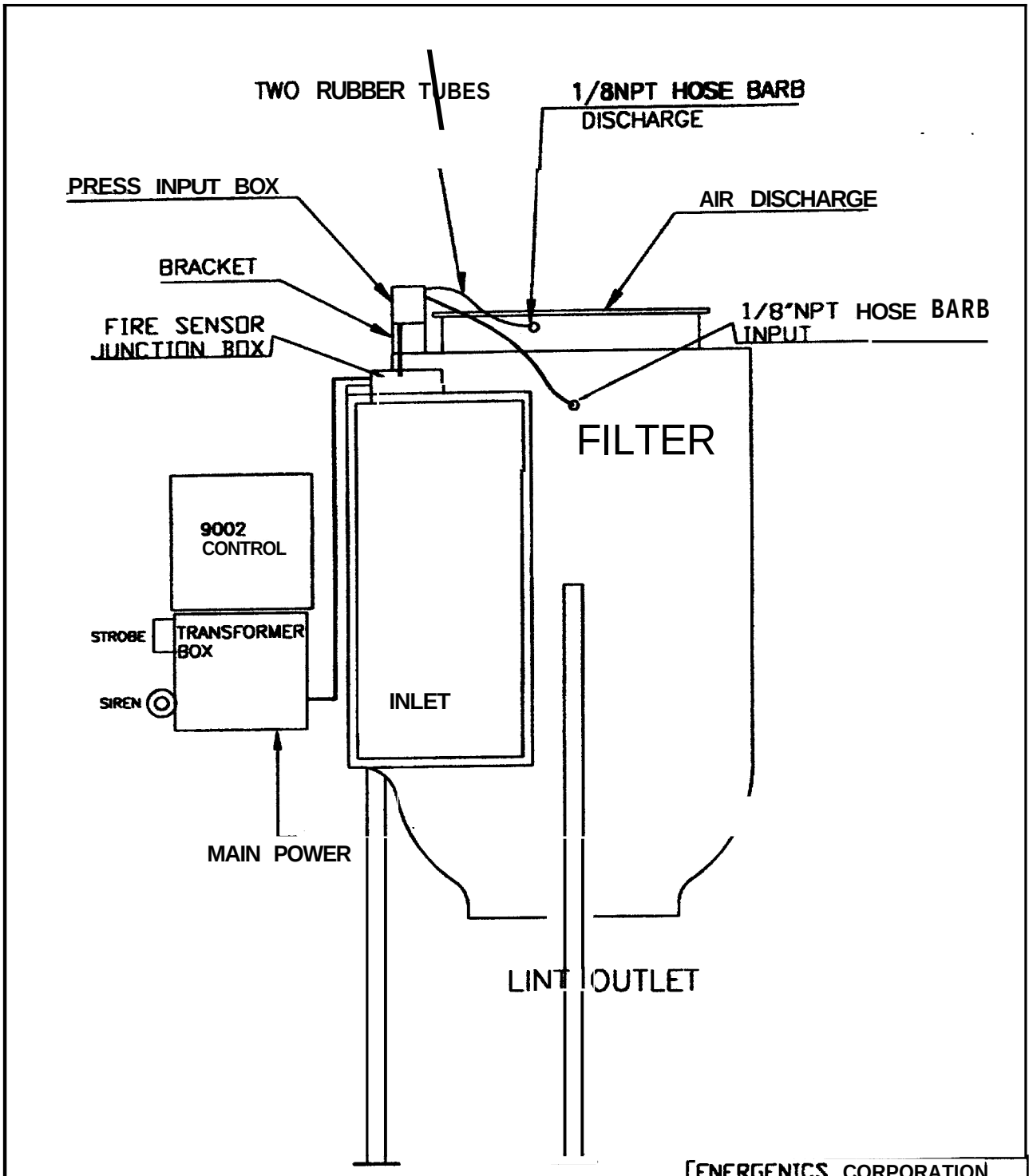


	NAME	DATE
DRAWN BY:	[illegible]	7-00
ENGINEER:		
QUALITY:		
SCALE:		

ENERGENICS CORPORATION
1470 Don Street
Naples Florida 34104
PH (941)643-1711
FAX (941)643-6081
USA (800)944-1711

TITLE
CONNECTION REQUIREMENT

DRAWING NUMBER 9002.5



	NAME	DATE
DRAWN BY:	Keith Summers	7-00
ENGINEER:		
QUALITY:		
SCALE:		

ENERGENICS CORPORATION
1470 Don Street
Naples Florida 34104
PH (941)643-1711
FAX (941)643-6081
USA (800)944-1711

TITLE
CONNECTION REQUIREMENT
(SIDE VIEW)

DRAWING NUMBER 9002.6

Maintenance Requirements

The frequency of your maintenance requirements depends upon the number of hours of operation and upon variances in your product output. For a single-shift operation, without special problems, the frequency recommended below should suffice. You should set your own schedule based on your experience.

1. **WEEKLY**
   Visually inspect the filter inside and outside, its controls and their operation. At time of such inspection, note and correct any discrepancies from normal operation.

2. **MONTHLY**
   Check the static pressure. Disconnect the lower pressure hose, and then use a magnehelic gauge, manometer, or U-tube to measure and record the resistance. This will show the pattern of operation of your system. If pressure exceeds 1 inch W.C., insure the rotor is correctly turning and cleaning the screen.

   Watch the air pressure gauge on the filter. Record the drop in pressure during the blow down cycle. A normal pressure is from 100psi at the start to 80psi after six seconds. The minimum pressure is 80psi. Any less will not reliably clean the screen. If the pressure were to fall from 100psi to 40psi, the air supply is inadequate or obstructed.

3. QUARTERLY
   On filters using fire protection control, carefully test the Fenwall fire sensor accessed through the inspection door. First disconnect the initiator/solenoid leads from the panel and connect a 24 VDC bulb to initiator terminals in the control unit. Heat the Fenwell fire sensor with a heat lamp or other convenient source. When the bulb in the control unit changes state, remove heat source and allow Fenwell fire sensor to cool. Reset control unit. Test lamp must change state and stay changed after system is reset. Do not reconnect initiator/solenoid leads until all Fenwell fire sensors have cooled below set point as indicated by test lamp.

FILTER SCREEN MAINTENANCE

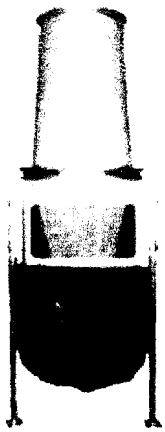
Chemicals present in the laundry uniforms, shop towels or other linen may eventually clog the filter screen. When this occurs, try *the* following:

1. Spray with an engine degreaser like GUNK. Allow soaking per the instructions for cleaning an auto *engine.* Spray *clean* with water.

2. Operate one dryer without a load to blow bot air through the filter to dry it.

3. Restart the dryer. Operation should be perfectly normal. It should not be necessary to replace the screen unless it is punctured.

Energenics Corporation founded in **1974** is the largest manufacturer of Lint Filters and Automatic Laundry Cart Washing Machines. Energenics manufactures **45** models of Lint Filters (collectors) that accommodate dryer exhaust from 500 **cfm** to **40,000 cfm**. **Over 5,000** Energenics Lint Filters have been sold worldwide. Energenics sells both "wet" and "dry" style filters fabricated of both fiberglass and stainless steel.



Energenics new Lint Filter control operates ***on*** differential back pressure. The Lint Filter **can** be ***set*** to self clean when back pressure **reaches** the desired set point from .**5** to **10** inches **of** pressure. The control also senses the change in pressure as dryers or the dryer **is** cycle on and off, this initiates another cleaning cycle. Our new control cleans the screen only when **it** is needed optimizing dryer **performance.**

Energenics Space Saver line of filters revolutionized Lint Filtering in the **1990's** by utilizing the smallest footprint to filter maximum exhaust. Space Saver Filters are available from 4,000 *cfm* to 30,000 cfm in both fiberglass and stainless steel.

This style dominates the market and is installed with most new dryers.

NEW On premise Laundry Lint Filter introduced in **1997** requires no compressed air for ***screen*** cleaning. Energenics ***new*** Air Free "no blowdown" filter is sized to filter from 250 cfm to ***7,000 cfm***.

Energenics Kartwasher is the value driven answer to sanitizing laundry carts after the **soiled** linen is removed. The Kartwasher cleans **30** carts per hour with its two minute cycle. Automatic cart ejection is standard. Options include conveyor driven auto feeding and removing of the **carts.** The Energenics Kartwasher, introduced in **1995,** is now the leading machine in the market.

Site Created and Powered by 4What Interactive

1470 Don St
Naples FL 34104
A.N. Vondy
Install manual
In Line Space Saver

WASHEX

Wichita Falls, Texas 76306

E-Mail: dave.smith@uashex.COm

Tel: 1-800-433-0933 Ext. 7263
Direct: 1-940-855-7263
Fax: 1-940-855-9349

October 12, 2004

FAX TO:
Mr. Wayne Bradbury
Advantage Linen
Portland, ME
Fax#: 1-207-878-2622

Re: Challenge CFGS Dryer

Dear Mr. Bradbury,

With regards to our conversation earlier this week, I have discussed your request concerning noise levels for the CFGS dryer with our engineers. This machine will emk average decibel readings from 85 *to 88,* since it was not provided with an insulated outside air *dud* installed over the burner. These decibel levels are determined using normal OSHA specification by taking readings in six (6) operator positions around the machine from three (3) feet away.

Determining *what* decibel levels you *may* find exterior to the building is something that we are not prepared to estimate. There are far too many variables to consider, including the *size,* thickness and length *of* ducts; the type of *exhaust* opening; the location of the exhaust opening (roof, wall, etc.) and the type of duct rain cap used. This is further complicated by the fact that we have no idea where the city would want sound readings taken.

I can tell you this: me Washex factory is located *in* a rural area along interstate 44. During dryer testing I can see *the* exhaust steam from the Side *of* the building, but I cannot hear the dryer running. I can't imagine that the sound from the dryer measured outside *of* the building would be more than ambient noise levels.

I hope this information is helpful. Please let us know *if* you need any further details.

Sincerely,

David J. Smith
Administrative *Sales* Manager

cc: Bob Montgomery, VP Sales

OCT 19 2004

CITY OF PORTLAND, MAINE

Department of Building Inspections

Aug 20 20 04

Received from ADVANTAGE Linen Service

Location of Work 135 Walton St.

Cost of Construction $ 50,000

Permit Fee $ 576.

471 constr.
75 C of O
30 Chg of Use

Building (IL) X Plumbing (I5) ___ Electrical (I2) ___ Site Plan (U2) ___

Other _____

CBL: 142 I 001

Check #: 1946 **Total Collected** $ 576.00

THIS IS NOT A PERMIT

No work is to be started until PERMIT CARD is actually posted upon the premises. Acceptance of fee is no guarantee that permit will be granted. PRESERVE THIS RECEIPT. In case permit cannot be granted the amount of the fee will be refunded upon return of the receipt less $10.00 or 10% whichever is greater.

WHITE - Applicant's Copy
YELLOW - Office Copy
PINK - Permit Copy

Donna