

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



# CITY OF PORTLAND

# BUILDING PERMIT

This is to certify that FOX STREET REALTY LLC

Job ID: 2011-12-2878-CH OF USE

Located At 109 (115) FOX ST

CBL: 023- A-008-001

has permission to Change the Use from an insectide plant to a Wet Cleaning Laundry with alterations provided that the person or persons, firm or corporation accepting this permit shall comply with all of the provisions of the Statues of Maine and of the Ordinances of the City of Portland regulating the construction, maintenance and use of the buildings and structures, and of the application on file in the department.

Notification of inspection and written permission procured before this building or part thereof is lathed or otherwise closed-in. 48 HOUR NOTICE IS REQUIRED.

A final inspection must be completed by owner before this building or part thereof is occupied. If a certificate of occupancy is required, it must be

**Fire Prevention Officer**

**Code Enforcement Officer / Plan Reviewer**

THIS CARD MUST BE POSTED ON THE STREET SIDE OF THE PROPERTY  
PENALTY FOR REMOVING THIS CARD



# Certificate of Occupancy

CITY OF PORTLAND, MAINE

Department of Planning and Urban Development  
Building Inspections Division



Location: 109 FOX ST

CBL: 023 A008001

Issued To: Fox Street Realty Llc

Issued Date: 12/11/2012

This is to certify that the building, premises, or part thereof, at the above location, built-altered-changed as to use under Building Permit No. 201113755 has had a final inspection, has been found to conform substantially to the requirements of the Building Code and the Land Use Code of the City of Portland, and is hereby approved for occupancy or use, limited or otherwise, as indicated below.

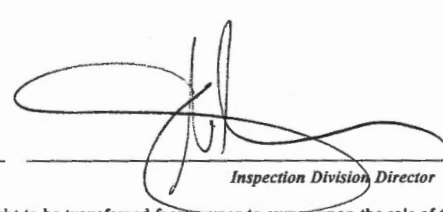
PORTION OF BUILDING OR PREMISES  
LEFT SIDE OF BUILDING - CENTER  
SUITE (115 FOX ST.)

APPROVED OCCUPANCY  
COMMERCIAL / INDUSTRIAL LAUNDRY  
USE GROUP: F-1  
TYPE: 3-A  
IBC 2009

LIMITING CONDITIONS: NONE

Approved: 12/11/12

  
Inspector

  
Inspection Division Director

Notice: This certificate identifies the legal use of the building or premises, and ought to be transferred from owner-to-owner upon the sale of the property.



1/17/12 See Revision Jason w. submitted for lower  
ceiling in Boiler Rm - Smokeproof JMB

1-24-12 DWM Jason 775-1050 Plumber John OK

1-27-12 DWM/BKL Jason Close-In OK

5-15-12 DWM/BKL/John Merdell Jason Pre final OK for employee  
training

7-6-12 GF OK for TCO - ck w/ DWM - siding?

Closed

## BUILDING PERMIT INSPECTION PROCEDURES

Please call 874-8703 or 874-8693 (ONLY)

or email: [buildinginspections@portlandmaine.gov](mailto:buildinginspections@portlandmaine.gov)

With the issuance of this permit, the owner, builder or their designee is required to provide adequate notice to the city of Portland Inspections Services for the following inspections. Appointments must be requested 48 to 72 hours in advance of the required inspection. The inspection date will need to be confirmed by this office.

- **Please read the conditions of approval that is attached to this permit!! Contact this office if you have any questions.**
- **Permits expire in 6 months. If the project is not started or ceases for 6 months.**
- **If the inspection requirements are not followed as stated below additional fees may be incurred due to the issuance of a "Stop Work Order" and subsequent release to continue.**

Underslab plumbing prior to covering, if installed

Close In Elec/Plmb/Frame prior to insulate or gyp

Certificate of Occupancy/Final Inspection

The project cannot move to the next phase prior to the required inspection and approval to continue, REGARDLESS OF THE NOTICE OF CIRCUMSTANCES.

IF THE PERMIT REQUIRES A CERTIFICATE OF OCCUPANCY, IT MUST BE PAID FOR AND ISSUED TO THE OWNER OR DESIGNEE BEFORE THE SPACE MAY BE OCCUPIED.



# PORTLAND MAINE

*Strengthening a Remarkable City, Building a Community for Life* • [www.portlandmaine.gov](http://www.portlandmaine.gov)

Director of Planning and Urban Development  
Penny St. Louis

Job ID: 2011-12-2878-CH OF USE

Located At: 109 FOX ST

CBL: 023- A-008-001

## **Conditions of Approval:**

### **Zoning**

1. The proposed awnings and signage are not being approved as part of this permit. Separate permits shall be required for any new signage.
2. This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.
3. This permit is being issued with the condition that the individual customer drop-off service is ancillary to the primary industrial laundry use and must remain so in the future since individual customer drop off is considered personal service which is not a permitted use in this zone.
4. You should check with the Department of Public Services for any permits required by them for the waste water generated by your use.

### **Fire**

1. The occupancy shall comply with City Code Chapter 10 upon inspection.
2. The Fire alarm and Sprinkler systems shall be reviewed by a licensed contractor[s] for code compliance. Compliance letters are required.
3. A separate Fire Alarm Permit is required for new systems; or for work effecting more than 5 fire alarm devices; or replacement of a fire alarm panel with a different model. This review does not include approval of fire alarm system design or installation.
4. A separate Suppression System Permit is required for all new suppression systems or sprinkler work effecting more than 20 heads. This review does not include approval of sprinkler system design or installation.
5. A firefighter Building Marking Sign is required.
6. Fire extinguishers are required per NFPA 10.
7. Any cutting and welding done will require a Hot Work Permit from Fire Department.

### **Building**

1. Application approval based upon information provided by applicant, including revisions received 1/10/12. Any deviation from approved plans requires separate review and approval prior to work.
2. All penetrations through rated assemblies must be protected by an approved firestop system installed in accordance with ASTM E 814 or UL 1479, per IBC 2009 Section 713.
3. Equipment and venting shall be installed in compliance with the manufacturer's specifications and the UL listing.
4. Separate permits are required for any electrical, plumbing, sprinkler, fire alarm, HVAC systems, heating appliances, including pellet/wood stoves, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process.

IL6

375



# General Building Permit Application

If you or the property owner owes real estate or personal property taxes 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: <u>115 Fox Street (109 Fox St)</u>		
Total Square Footage of Proposed Structure/Area <u>2,722</u>	Square Footage of Lot <u>101,124</u>	
Tax Assessor's Chart, Block & Lot Chart# <u>23</u> Block# <u>A</u> Lot# <u>8</u>	Applicant * <b>must</b> be owner, Lessee or Buyer* Name <u>Enviro mat, LLC</u> DBA <u>Portland's Greener Cleaner</u> Address <u>42 Hammond Street</u> City, State & Zip <u>Portland, Me 04101</u>	Telephone: <u>408-2233</u>
Lessee/DBA (If Applicable) <u>Enviro mat, LLC</u> DBA <u>Portland's Greener Cleaner</u> <u>42 Hammond Street</u> <u>Portland, Me 04101</u>	Owner (if different from Applicant) Name <u>Fox Street Realty, LLC</u> Address <u>322 Fore Street, unit 3</u> City, State & Zip <u>Portland, Me 04101</u>	Cost Of Work: \$ <u>27,000</u> C of O Fee: \$ <u>75</u> Total Fee: \$ _____
Current legal use (i.e. single family) _____ If vacant, what was the previous use? <u>natural insecticide production</u> Proposed Specific use: <u>Wet cleaning plant with storefront (Commercial Laundry) see attachment A</u> Is property part of a subdivision? _____ If yes, please name _____ Project description: <u>see attachment B</u> <u>Change of use from natural insecticide production facility to wet cleaning plant</u>		
Contractor's name: <u>Jason Wentworth</u> Address: <u>42 Hammond Street</u> City, State & Zip <u>Portland, Me 04101</u> Telephone: _____ Who should we contact when the permit is ready: <u>Jason Wentworth</u> Telephone: <u>408-2233</u> Mailing address: <u>42 Hammond Street, Portland, Me 04101</u>		

11.8.11

**Please submit all of the information outlined on the applicable Checklist. Failure to do so will result in the automatic denial of your permit.**

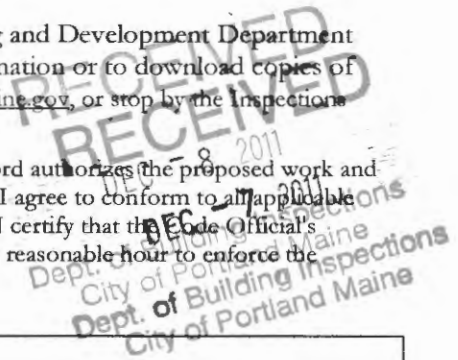
In order to be sure the City fully understands the full scope of the project, the Planning and Development Department may request additional information prior to the issuance of a permit. For further information or to download copies of this form and other applications visit the Inspections Division on-line at [www.portlandmaine.gov](http://www.portlandmaine.gov), or stop by the Inspections Division office, room 315 City Hall or call 874-8703.

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 permit.

Signature: [Signature]

Date: 12/6/11

**This is not a permit; you may not commence ANY work until the permit is issue**



IL6

Industrial use. - amp ft very restricted.

# Enviromat, LLC

42 Hammond Street • Portland, ME 04101 • 207-775-1050 • enviromat@gwi.net

January 17, 2012

Jeanie Bourke, CEO/LPI/Plan Reviewer  
Planning & Urban Development Dept./ Inspections Division  
389 Congress Street  
Portland, ME 04101

023-A-008

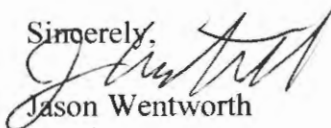
Dear Ms. Bourke,

I am writing to propose a change to our plans for 115 Fox Street, for which we have recently received a building permit. After careful consideration of how to make the boiler room smoke tight I have determined, in consultation with my architect, that the easiest method is to put a ceiling in on top of 10 foot high walls. The reason for this is the extensive number of electrical conduit, steam and water pipes and the roof beam structure that would make getting a proper seal on the walls nearly impossible. By putting the ceiling in at 10 feet there is only one 3" sewer vent to seal around for existing obstacles and we would easily be able to seal properly around the few new penetrations that are required for the boiler installation. We would drop sprinkler heads from above, through the ceiling to assure proper coverage both inside the boiler room and above it.

The ceiling construction would be 2" x 8" joists at 16" on center with GWB on the inside and 3/4" T & G Advantec on the top side. The ceiling would not be intended for storage above but we are proposing constructing it so that could be a future use if our needs change. There will be no permanent stair or ladder access to the space above the boiler room.

Hopefully this is an acceptable amendment to our plans. Please let me know is any further documentation is needed.

Sincerely,



Jason Wentworth

Attachment

RECEIVED  
JAN 17 2012  
Dept. of Building Inspections  
City of Portland Maine

RECEIVED  
JAN 17 2012  
Dept. of Building Inspections  
City of Portland Maine

REVISION  
OK  
JWB





Building Permit Application  
Enviromat, LLC  
DBA Portland's Greener Cleaner

Fire Department Submittals

Project Address: 115 Fox Street

Applicant: Enviromat, LLC  
DBA Portland's Greener Cleaner  
42 Hammond Street  
Portland, ME 04101  
Contact: Jason Wentworth (408-2233)

Architect: Kevin Moquin, AIA, LEED, AP  
53 Hammond Street  
Portland, ME 04101  
207-615-6421

Proposed use is a wet cleaning plant (commercial laundry) with a customer service area.

Zone: IL-b

IBC occupancy: ~~F-2 Low hazard~~

NFPA occupancy: General Industrial Occupancy, Low Hazard Contents

Construction Type: ~~Type IIA, Sprinklered~~ TYPE 3A

Occupant Load: 19 (1,822 sq.ft. @ 100 sq.ft./person), 3 (900 sq.ft. storage @ 300sq.ft./person),  
TOTAL 22

One exit required, <49 occupants & 100' travel distance w/ sprinkler, Table 1021.2

Please see attached plans for travel distance, location of extinguishers, exit lights and emergency lighting.

**EQUIPMENT SCHEDULE:**

- A. Miele 36# capacity wet cleaning washer - steam heated
- B. Miele 45# capacity wet cleaning dryer - stem heated, roof vented
- C. Miele 12# capacity wet cleaning stacked washer & dryer pair - electric heated
- D. Forenta cuff and collar pressing machine - steam heated
- E. Veit shirt pressing machine- steam heated
- F. Veit pressing table - steam heated
- G. Veit form finisher- steam heated
- H. Veit pants topper pressing machine- steam heated
- I. Future utility press
- J. Veit spotting cabinet- steam heated
- K. Ingersoll Rand air compressor - roof vented
- L. Fulton high pressure steam boiler - roof vented
- M. Stebel Eltron heat pump electric water heater - 80 gallon



**EXTERIOR VIEW**



**LOCATION PLAN**

**GENERAL NOTES:**

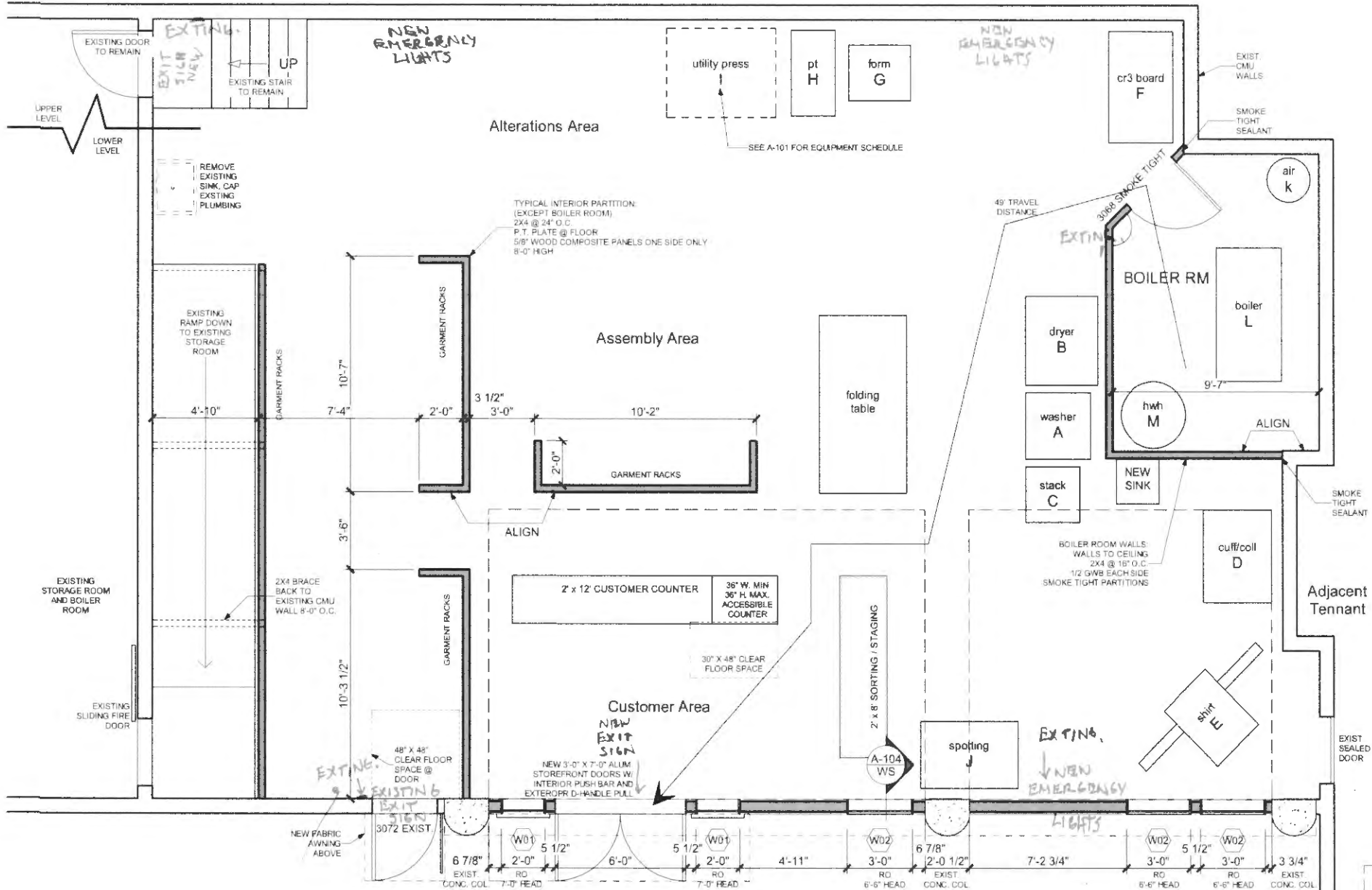
Zone: **L-b**

IBC occupancy: F-2 Low-hazard  
 NFPA occupancy: General Industrial Occupancy, Low Hazard Contents

Construction Type: Type IIA, Sprinklered

Occupant Load: 19 (1,822 sq.ft. @ 100 sq.ft./person), 3 (900 sq.ft. storage @ 300 sq.ft./person), TOTAL 22  
 One exit required, <49 occupants & 100' travel distance w/ sprinkler, Table 1021.2

Adjacent Tennant



Floor Plan 1/4 in = 1 ft

EXISTING EMERGENCY LIGHTS

© 2011 Kevin Morgan, AIA  
 Maine Licensed Architect  
 137 Parkville  
 Lewiston, Maine 04240

FLOOR PLAN  
 1/4" = 1'-0"

PERMIT SET  
 Revisions

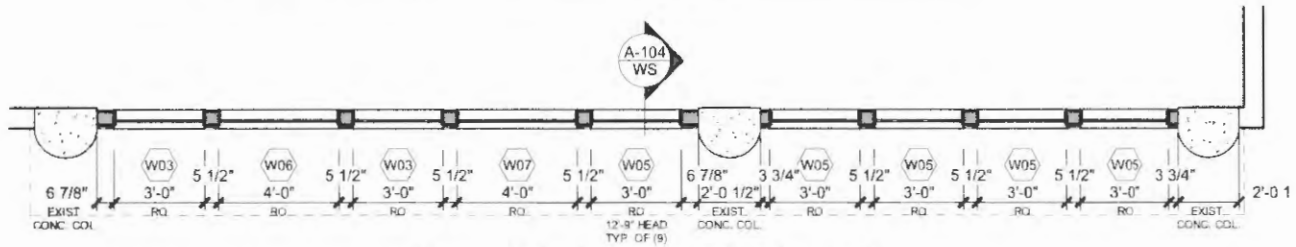
Portland's Greener Chamber  
 Streetfront & Interior Fit Out  
 115 Fox Street, Portland, ME

December 5, 2011

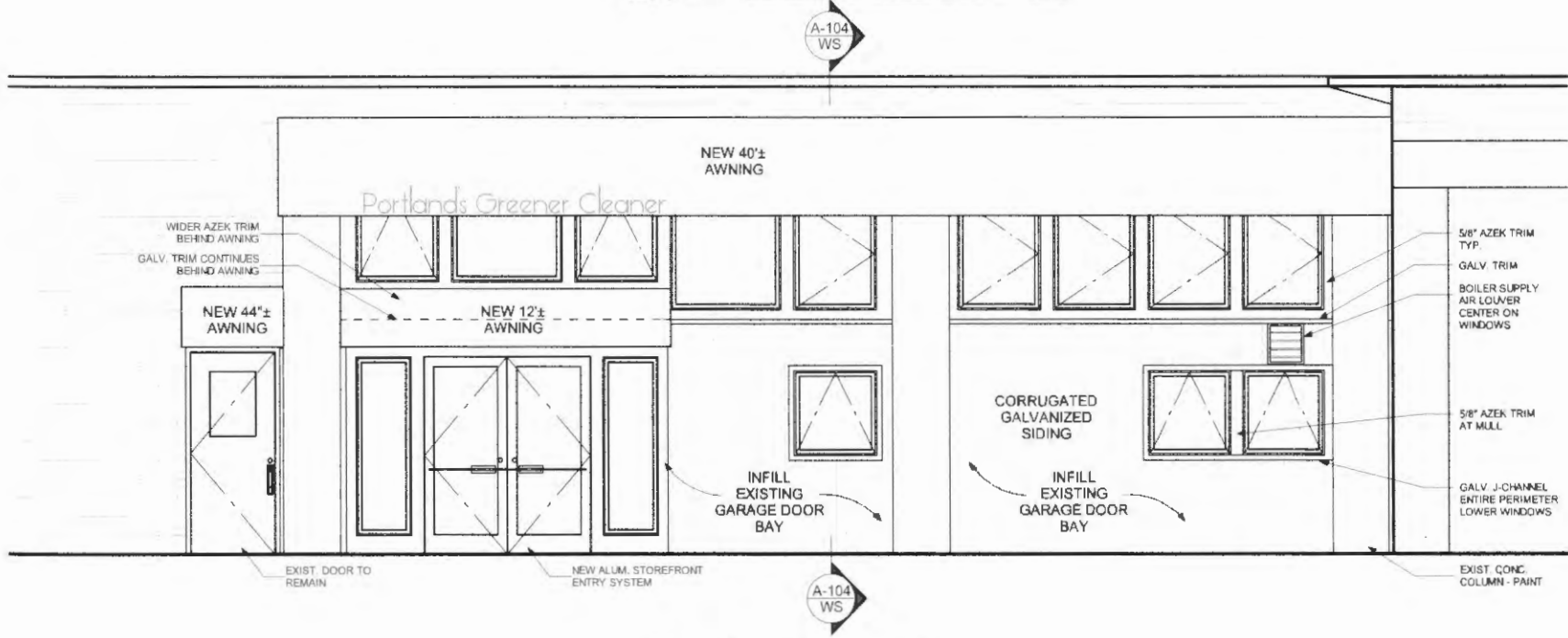
A-102  
 2 of 4

WINDOW SCHEDULE											
NUMBER	QTY	FLOOR	WIDTH	HEIGHT	TOP	R/O	TEMPERED	DESCRIPTION	CODE	MANUFACTURER	COMMENTS
W01	2	1	24"	76"	84"	24"X76"	YES	FIXED GLASS	CF2476	PARADIGM	
W02	3	1	36"	36"	78"	36"X36"		AWNING	A3636	PARADIGM	
W03	2	2	36"	36"	53"	36"X36"		AWNING	A3636	PARADIGM	
W05	5	2	36"	48"	53"	36"X48"		SNGL CASEMENT-HR	C3648	PARADIGM	
W06	1	2	48"	36"	53"	48"X36"		FIXED GLASS	CF4836	PARADIGM	
W07	1	2	48"	48"	53"	48"X48"		FIXED GLASS	CF4848	PARADIGM	

PARADIGM WINDOW NOTES  
CASEMENT, AWNING, AND FIXED UNITS AS SCHEDULED. COLOR: EVEREST. STANDARD LOW-E GLAZING, U VALUE = .30. POLE OPERATOR FOR UPPER UNITS



Upper Windows Plan 1/4 in = 1 ft



Elevation 1/4 in = 1 ft

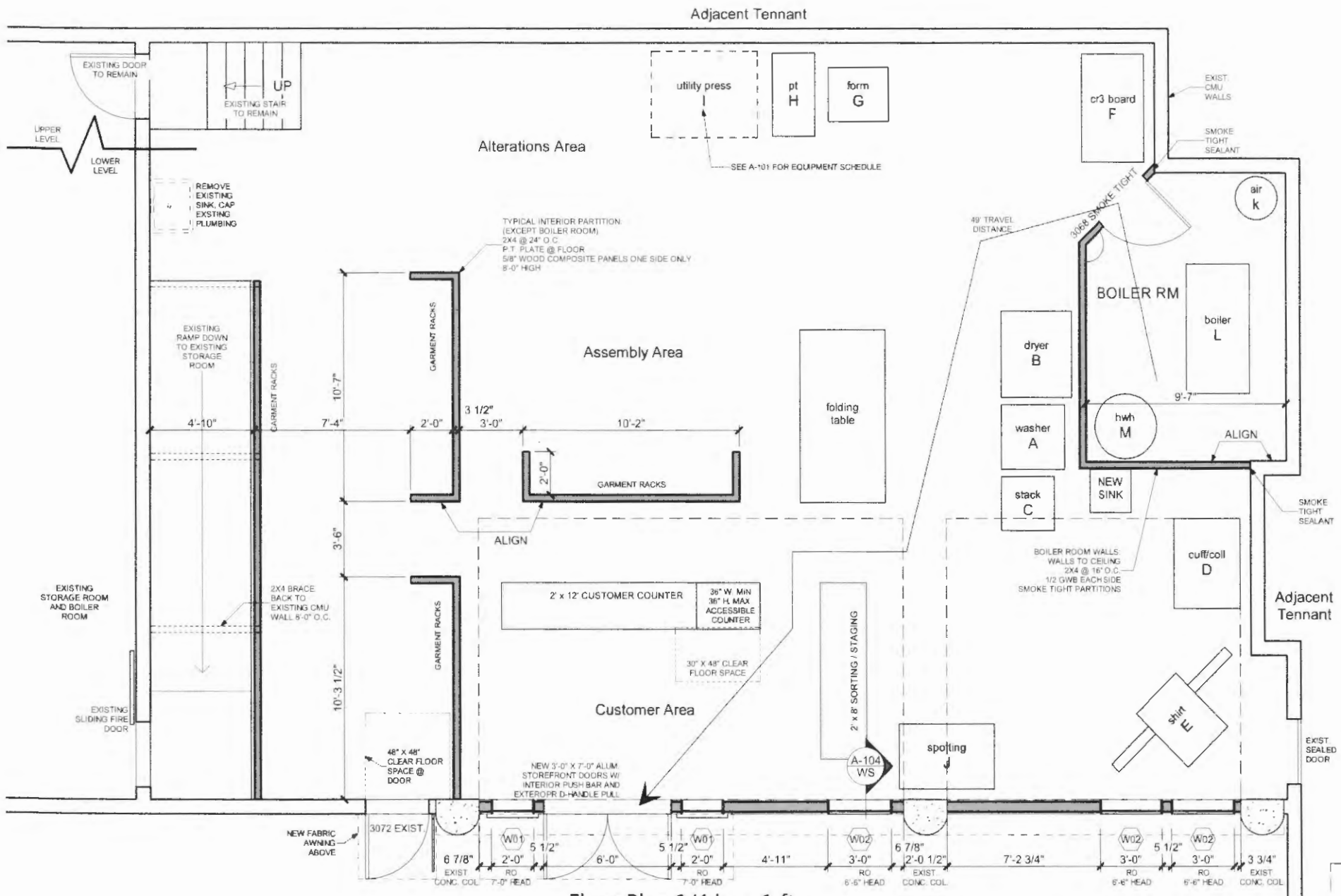
© 2011 Benh Mogart, MA  
115 Fox Street, Portland, ME  
2012  
benh@benhmagart.com

ELEVATION & SCHEDULES  
1/4" = 1'-0"

PERMIT SET  
Revisions

Portland's Greener Cleaner  
Storefront & Interior Fit Out  
115 Fox Street, Portland, ME

December 5, 2012  
A-103  
3 of 3



Floor Plan 1/4 in = 1 ft

C 2013 James McHugh, AIA  
 Architect  
 1407 Park St. N  
 Ann Arbor, MI 48106-1500

FLOOR PLAN  
 1/4" = 1'-0"

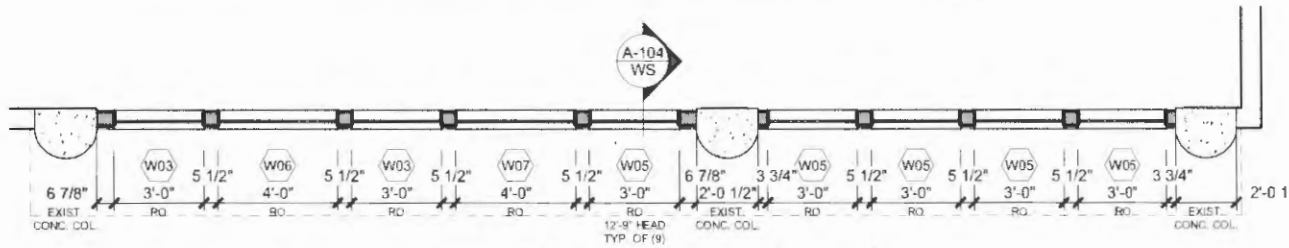
PERMIT SET  
 Remains

Portland's Greenest Cleaner  
 Storefront & Interior Fit Out  
 115 Fox Street, Portland, ME

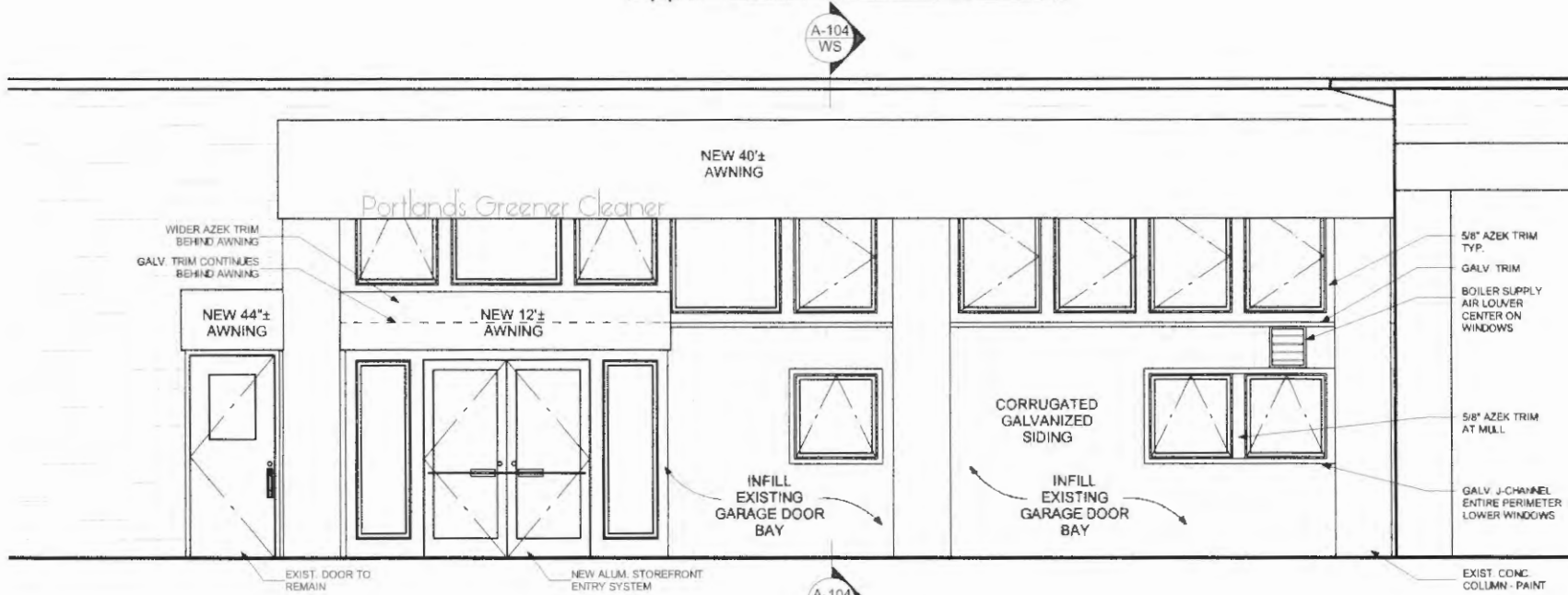
December 5, 2012  
 A-102  
 2 of 5

WINDOW SCHEDULE											
NUMBER	QTY	FLOOR	WIDTH	HEIGHT	TOP	R/O	TEMPERED	DESCRIPTION	CODE	MANUFACTURER	COMMENTS
W01	2	1	24"	76"	84"	24"X76"	YES	FIXED GLASS	CF2476	PARADIGM	
W02	3	1	36"	36"	78"	36"X36"		AWNING	A3636	PARADIGM	
W03	2	2	36"	36"	53"	36"X36"		AWNING	A3636	PARADIGM	
W05	5	2	36"	48"	53"	36"X48"		SNGL CASEMENT-HR	C3648	PARADIGM	
W06	1	2	48"	36"	53"	48"X36"		FIXED GLASS	CF4836	PARADIGM	
W07	1	2	48"	48"	53"	48"X48"		FIXED GLASS	CF4848	PARADIGM	

PARADIGM WINDOW NOTES  
CASEMENT, AWNING, AND FIXED UNITS AS SCHEDULED. COLOR: EVEREST. STANDARD LOW-E GLAZING, U VALUE = .30. POLE OPERATOR FOR UPPER UNITS



Upper Windows Plan 1/4 in = 1 ft



Elevation 1/4 in = 1 ft

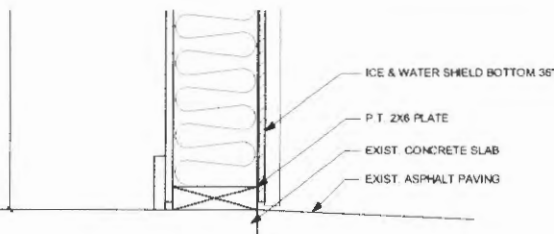
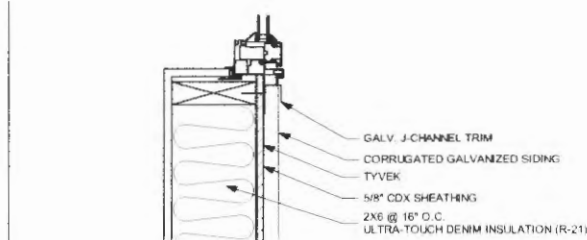
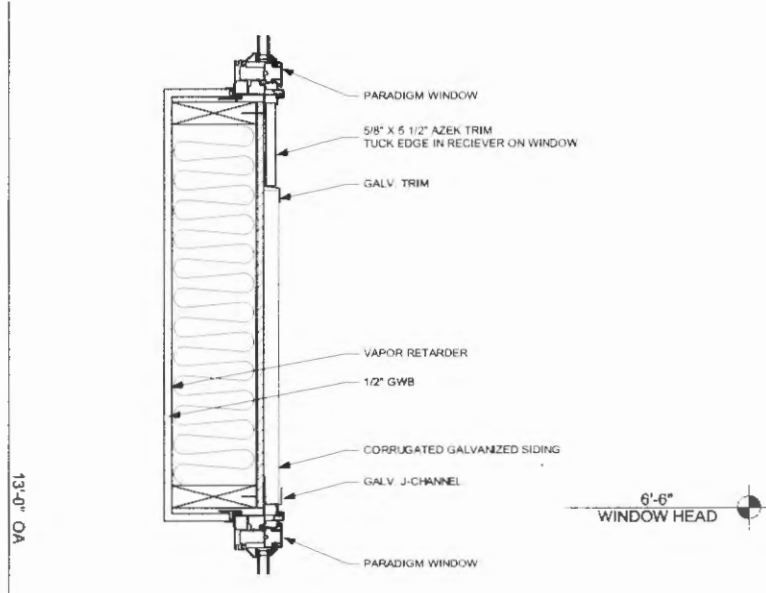
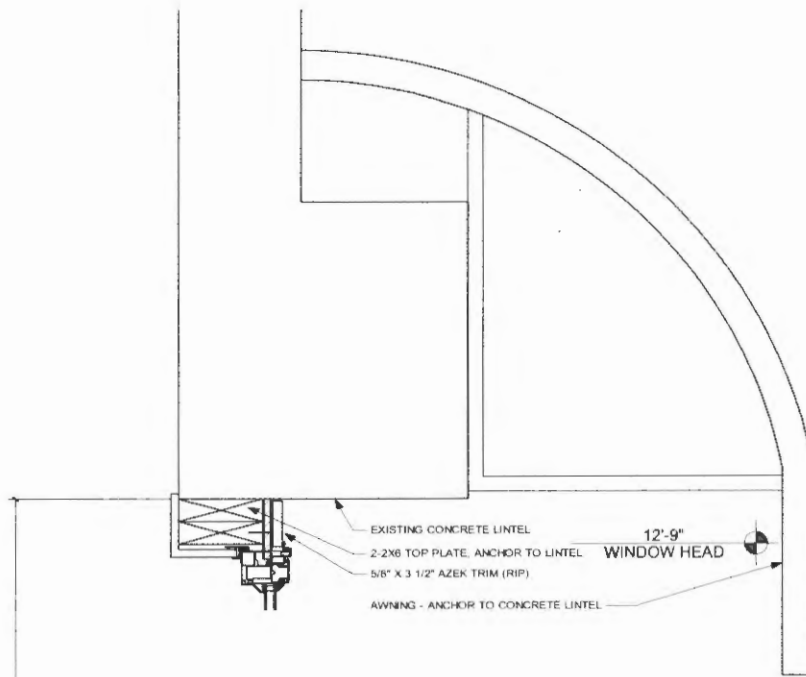
© 2011 Lemm Mognuin AM  
Main: 603-885-4100  
Fax: 603-885-4101  
lemm@lemmagnuin.com

ELEVATION & SCHEDULES  
1/4" = 1'-0"

PIBBERT SET  
@Pivots

Portland's Greener Cleaner  
Storefront & Interior Fit Out  
115 Co. Street, Portland, ME

December 5, 2012  
A-103  
3.8'x5'





Building Permit Application  
Enviromat, LLC  
Attachment A

Portland's Greener Cleaner will be a dedicated wet cleaning plant, processing all types of garments that are traditionally dry cleaned. In place of the petroleum based solvent used in dry cleaning, wet cleaning uses water and very sophisticated washers, dryers and pressing equipment along with detergents and conditioners formulated specifically for delicate fabrics.

Our plant will include 6-10 pieces of equipment that require high pressure steam (80-100 psi.), compressed air (80-100 psi) and 3-phase power. The process also requires a large area for sorting, stain treatment, order assembly, alterations and repair, garment storage (both short and long term) and delivery vehicle loading and unloading.

The plant will serve as a processing facility for customers who drop off garments at our laundromat, the Washboard Eco-Laundry and who come directly to 115 Fox street. Upon opening, 100% of the garments we process will be coming from the Washboard and our commercial accounts for which we provide pickup and delivery; at this time it is difficult to predict what percentage will come from drop off at Fox Street in the future as this depends entirely on what kind of customer response we get to our business idea. We will also be moving the processing for our existing and future commercial laundry accounts to this location to free up capacity at the Washboard. We are in the early planning stages for rehabbing another laundromat on the peninsula which would serve as a third drop off location and we will be looking at opening other "drop stores" in the Greater Portland area as customer demand dictates in the future.

Of the 2,722 square feet in the plant, about 130 would be dedicated to a customer drop-off area and the rest would be used for the processing activities, equipment, boiler room and storage. At full capacity the plant would have five to eight employees, though we plan to start with just three. We will operate between 7 AM and 6 PM, Monday through Friday and 8AM to 1:00 PM on Saturday, depending on workload.

Building Permit Application  
Enviromat, LLC  
Attachment B  
Project Description

The area of the building that we will use for our wet cleaning plant is cement block construction with a cement slab floor that was designed originally for commercial truck maintenance. The main floor area (approx. 35' x 47') is open space without partitions or roof supports, accessed by two large bay doors and a standard size entry door. The roof is steel frame construction with a flat deck, 3" of rigid insulation and a rubber membrane. The electrical service is 200 amp, three phase with feeds to all fixtures and receptacles being surface mounted in conduit. The plumbing is a combination of pvc, cast iron and copper with water feeds being surface mounted and drains under the slab. The building is fully sprinkled with a dry system.

The project consists of three construction elements—the addition of a boiler room, infill of the bay doors with windows/walls/entry doors and several free-standing partition walls to support garment racks. We are not proposing any changes to the footprint of the building nor modification of any load-bearing walls in any way that would impact their existing structural integrity.

The two existing bay doors will be raised, disconnected and then the openings will be filled in to create a wall with windows for ventilation and light and a new customer entrance. The construction method will be as per the plan details submitted with this application.

Partition walls will be constructed to form garment racks for storage of completed items while waiting for delivery to our laundromat or for customer pick-up. These partitions will be 8 feet tall and constructed as per the plan details submitted with this application.

The boiler room is necessary to house a high pressure, natural gas fired, steam boiler to generate process steam for the pressing machines; a separate HVAC permit application will be submitted for this unit as required. The room will also contain a 60 gallon, upright air compressor and an 80 gallon heat pump water heater. There are two sprinkler heads in the boiler room which we understand to be sufficient for fire suppression and hence construction of the space will be for smoke tightness, with wood framing and gypsum wall board. Make-up air for the boiler will be ducted to the room from the exterior of the building according to manufacturer specifications.

All of the electrical fixtures and wiring are currently surface mounted and updates or additions will also be surface mounted with the exception of the wiring for the lighting in the boiler room. Existing ceiling mounted fluorescent light fixtures will be replaced with new high efficiency T5 fixtures. All the pressing machines will be individually wired to the panel box with surface mounted feeds. A separate electrical permit application will be submitted as required.

There are only four proposed changes to the existing plumbing, for which a separate permit application will be filed as required: we will remove an existing utility sink and re-install in a new location as per the plans submitted with this application. The two washing machines will be drained into an existing stand pipe in the boiler room with new piping being surface mounted. The existing 1" water feed to the space, which now only serves the utility sink, will be extended to service the two new washers, the new utility sink and provide make-up water for the steam boiler. An 80 gallon heat pump water heater will be installed to service the two washers and the new utility sink.

On the exterior we propose adding three awnings, one of which will have signage, as per the plans submitted with this application; we are submitting a separate permit application for this part of the project, as required.

Parking for the business consists of 11 spaces along the length of the building which are dedicated by the property owner for our use as well as overflow spaces in the rest of the lot. The 11 spaces should easily meet our need for both employee and customer parking, particularly with the high turnover rate for customers.



*Strengthening a Remarkable City, Building a Community for Life* • [www.portlandmaine.gov](http://www.portlandmaine.gov)

*Penny St. Louis - Director of Planning and Urban Development  
Marge Schmuckal, Zoning Administrator*

September 30, 2011

Enviromat, LLC  
42 Hammond Street  
Portland, ME 04101  
Attn: Jason Wentworth & Sandrine Chabert

RE: 115 Fox Street – 23-A-8 – I-Lb Zone

Dear Mr. Wentworth and Ms. Chabert,

I am in receipt of your request for a determination letter concerning your proposed use at 115 Fox Street. The property is located in an I-Lb, low impact industrial zone.

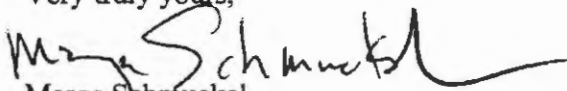
The I-Lb zone under section 14-232(a) allows low impact industrial uses. I am completely convinced that the majority of your wet cleaning plant meets the definition of a low impact industrial use as an industrial laundry. The real question is whether the individual customer drop-off area would constitute a separate use as a personal service use which is not a listed allowable use in the I-Lb zone.

Based upon the letter explaining your business plan, and along with the floor plan you submitted, I have determined that the individual customer drop-off use does not rise to the level of a separate personal service primary use. The individual customer drop-off service would be considered ancillary to the primary industrial laundry use.

Please note that this determination letter does not exempt you from applying from all the required permit(s) that you will need to establish your industrial laundry use. You will need a change of use permit with alterations from Inspection Services. Floor plans and a site/plot plan showing parking will be required with that submittal. Separate permits are required for any sign permits. Plumbing, electrical and HVAC permits are also required from the appropriate licensed installers. You should check with the City's Public Services department for any permits required for the waste water generated by your use.

If you have any questions regarding this letter, please do not hesitate to contact me at 874-8695.

Very truly yours,

  
Marge Schmuckal  
Zoning Administrator

# Enviromat, LLC

42 Hammond Street • Portland, ME 04101 • 207-775-1050 • [enviromat@gwi.net](mailto:enviromat@gwi.net)

September 23, 2011

RECEIVED

Marge Schmuckal  
City of Portland Zoning Administrator  
389 Congress Street  
Portland, ME 04101

SEP 23 2011

Dept. of Building Inspections  
City of Portland Maine

Dear Ms Schmuckal,

I-LB

We are writing to ask for a formal zoning determination on whether our proposed business, described below, is allowed in the zone that includes 115 Fox Street (CBL 23-A-8).

Portland's Greener Cleaner, as we plan to call it, will be a dedicated wet cleaning plant, processing all types of garments that are traditionally dry cleaned. In place of the petroleum based solvent used in dry cleaning, wet cleaning uses water and very sophisticated washers, dryers and pressing equipment along with detergents and conditioners formulated specifically for delicate fabrics. Though our process is very low impact in terms of the chemicals used, the equipment and production requirements make this use much more suitable for an industrial zone than the typical business zone in the city.

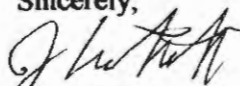
Our plant will include 6-10 pieces of equipment that require high pressure steam (80-100 psi.), compressed air (80-100 psi) and 3-phase power. The process also requires a large area for sorting, stain treatment, order assembly, alterations and repair, garment storage (both short and long term) and delivery vehicle loading and unloading.

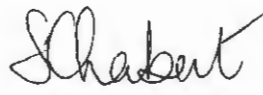
The plant will serve as a processing facility for customers who drop off garments at our laundromat, the Washboard Eco-Laundry and who come directly to 115 Fox street. Upon opening, 100% of the garments we process will be coming from the Washboard and our commercial accounts for which we provide pickup and delivery; at this time it is difficult to predict what percentage will come from drop off at Fox Street in the future as this depends entirely on what kind of customer response we get to our business idea. We will also be moving the processing for our existing and future commercial laundry accounts to this location to free up capacity at the Washboard. We are in the early planning stages for rehabbing another laundromat on the peninsula which would serve as a third drop off location and we will be looking at opening other "drop stores" in the Greater Portland area as customer demand dictates in the future.

Of the 2,250 square feet in the plant, about 130<sup>sq</sup> would be dedicated to a customer drop-off area and the rest would be used for the processing activities, equipment, boiler room and storage. At full capacity the plant would have five to eight employees, though we plan to start with just three. We will operate between 7 AM and 6 PM, Monday through Friday and 8AM to 1:00 PM on Saturday, depending on workload.

Hopefully this is enough detail for you to make a determination if this is an allowed use in the I-LB zone. If you have any questions please do not hesitate to contact us by phone or email as listed above.

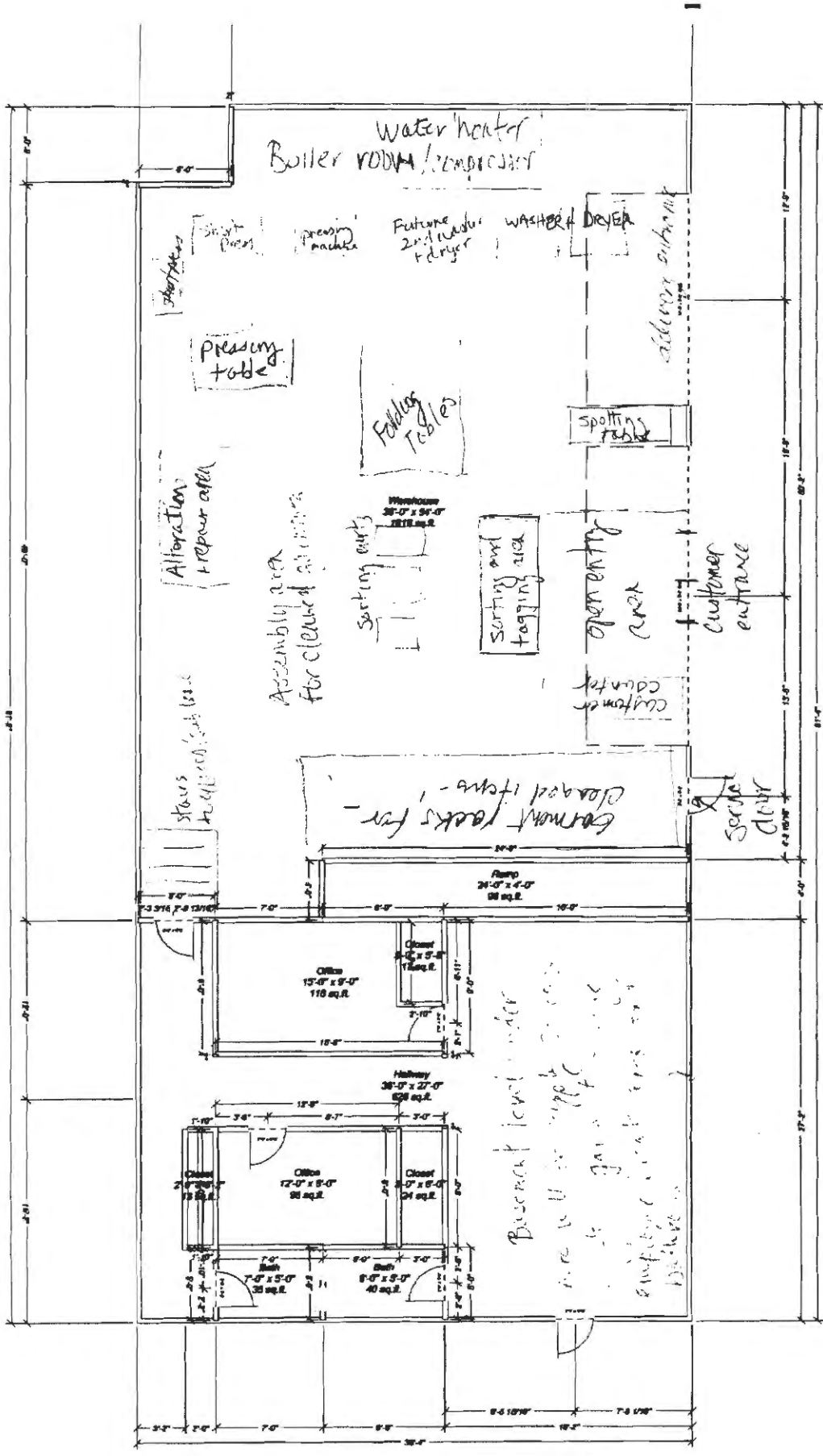
Sincerely,

  
Jason Wentworth

  
Sandrine Chabert

20' x 51' - 3/4"

20' x 81' - 1/2"





# Accessibility Building Code Certificate

Designer:

KEVIN MOQUIN, AIA, LEED AP

Address of Project:

115 Fox St.

Nature of Project:

INTERIOR RENOVATION AND

INFILL OF TWO GARAGE DOOR BAYS

IN TENANT SPACE

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. Residential Buildings with 4 units or more must conform to the Federal Fair Housing Accessibility Standards. Please provide proof of compliance if applicable



(SEAL)

Signature:

[Handwritten Signature]

Title:

ARCHITECT

Firm:

KEVIN MOQUIN ARCHITECT

Address:

53 HAMMOND ST.

PORTLAND ME 04104

Phone:

207-615-6421

For more information or to download this form and other permit applications visit the Inspections Division on our website at [www.portlandmaine.gov](http://www.portlandmaine.gov)



# Certificate of Design

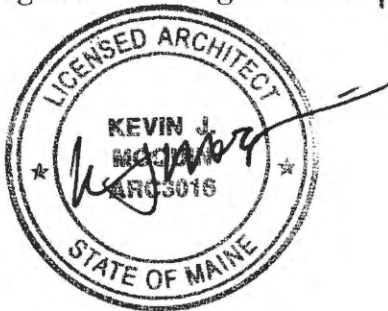
Date: 12-7-2011

From: KEVIN MOQUIN, AIA, LEED B+C

These plans and / or specifications covering construction work on:

115 FOX ST. - PORTLAND'S GREENER CLEANER

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the **2009 International Building Code** and local amendments.



(SEAL)

Signature: [Handwritten Signature]

Title: ARCHITECT

Firm: KEVIN MOQUIN ARCHITECT

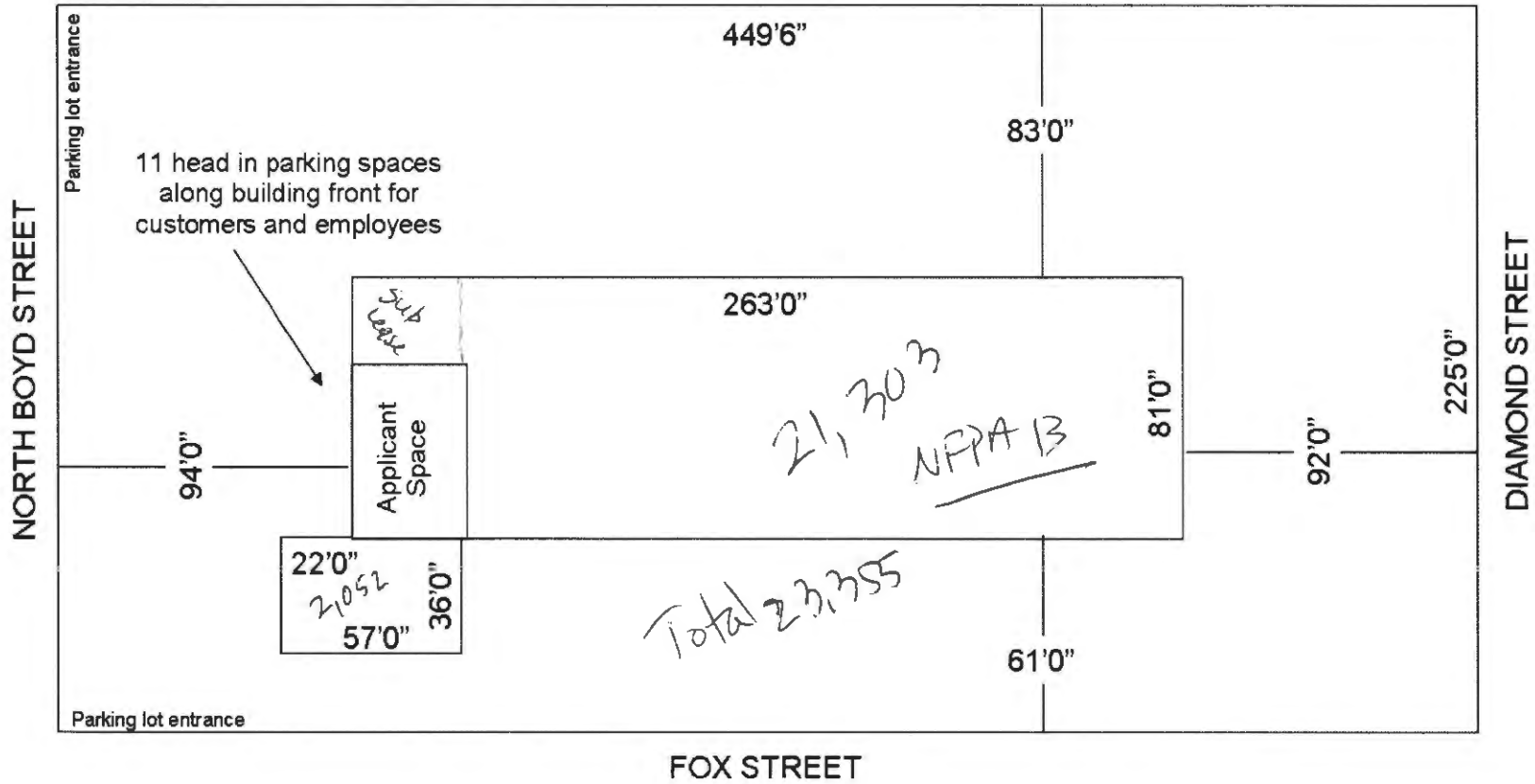
Address: 53 HAMMOND ST.  
PORTLAND ME 04101

Phone: 207-615-6421

For more information or to download this form and other permit applications visit the Inspections Division on our website at [www.portlandmaine.gov](http://www.portlandmaine.gov)



Building Permit Application  
Enviromat, LLC  
Plot Plan for 115 Fox Street



EQUIPMENT SCHEDULE:

- A. Miele 36# capacity wet cleaning washer - steam heated
- B. Miele 45# capacity wet cleaning dryer - steam heated, roof vented
- C. Miele 12# capacity wet cleaning stacked washer & dryer pair - electric heated
- D. Forenta cuff and collar pressing machine - steam heated
- E. Veit shirt pressing machine- steam heated
- F. Veit pressing table - steam heated
- G. Veit form finisher- steam heated
- H. Veit pants topper pressing machine- steam heated
- I. Future utility press
- J. Veit spotting cabinet- steam heated
- K. Ingersoll Rand air compressor - roof vented
- L. Fulton high pressure steam boiler - roof vented
- M. Stiebel Eltron heat pump electric water heater - 80 gallon



EXTERIOR VIEW



LOCATION PLAN

GENERAL NOTES:

Zone: L-b

IBC occupancy: F-2 Low-hazard

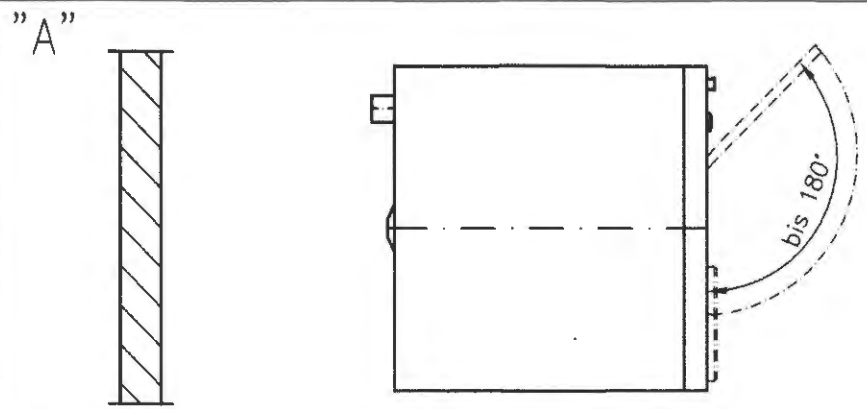
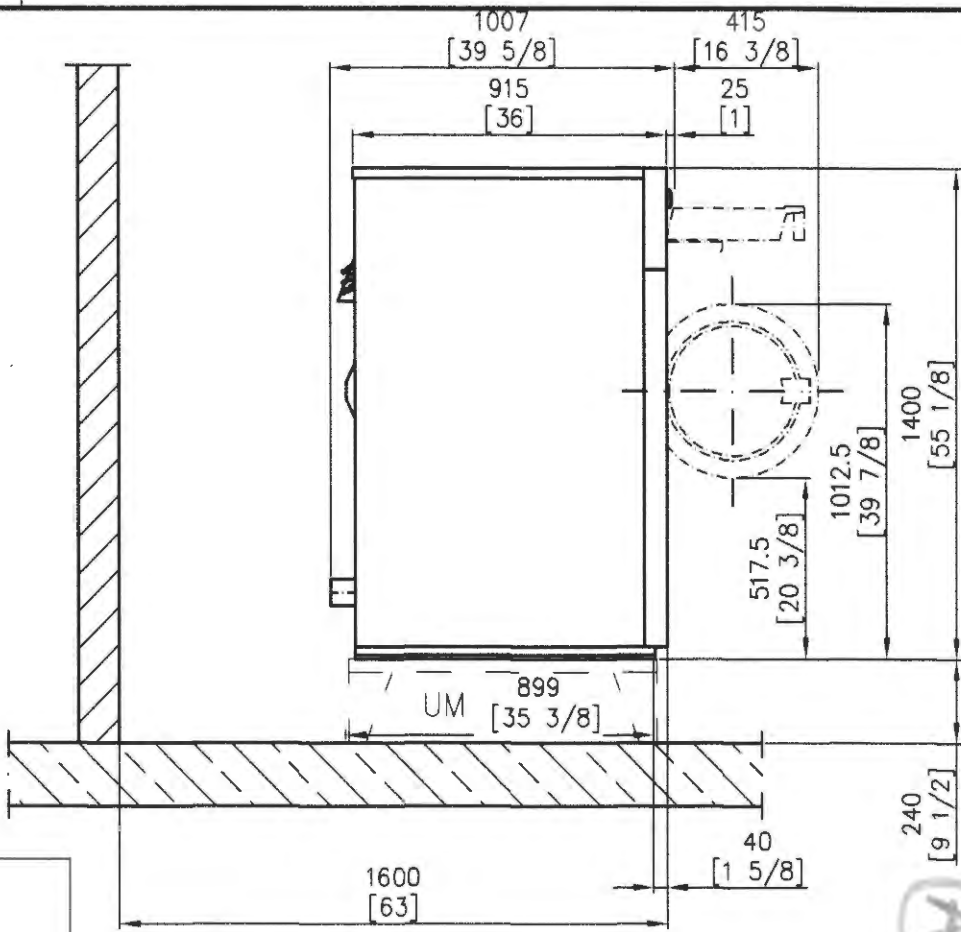
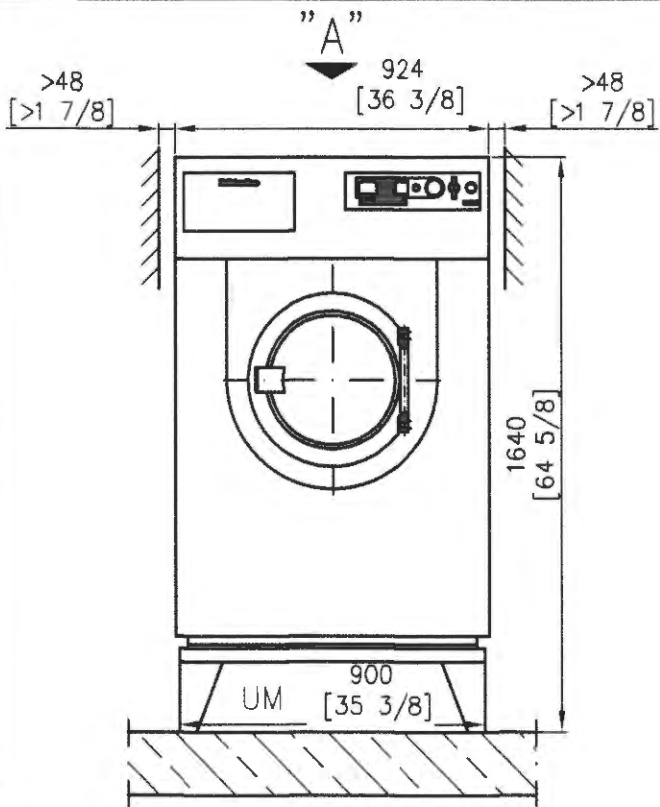
NFPA occupancy: General Industrial Occupancy, Low Hazard Contents

Construction Type: Type IIA, Sprinklered

Occupant Load: 19 (1,822 sq.ft. @ 100 sq.ft./person), 3 (900 sq.ft. storage @ 300 sq.ft./person), TOTAL 22

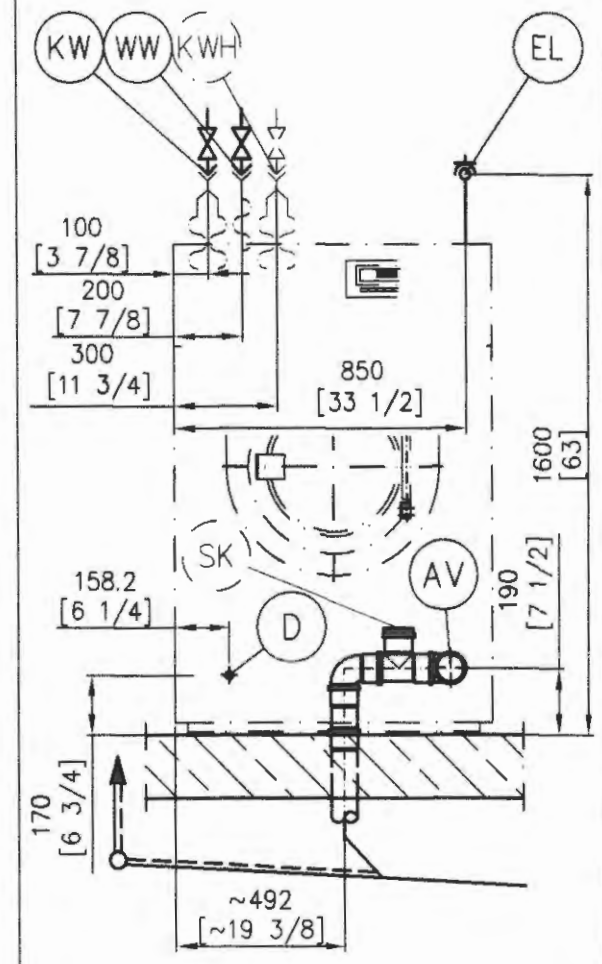
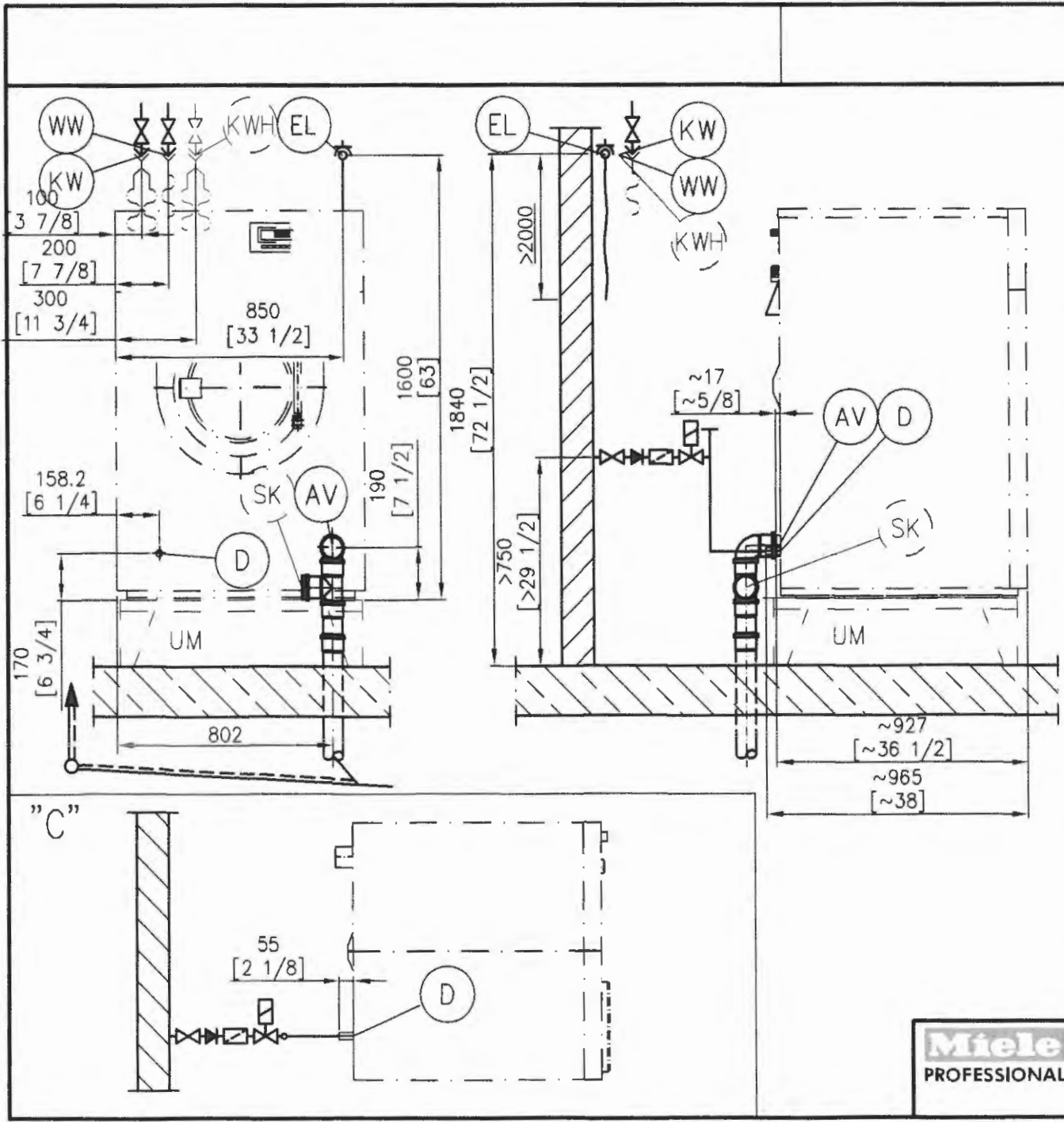
One exit required, <49 occupants & 100' travel distance w/ sprinkler, Table 1021.2

See revision  
1/10/12

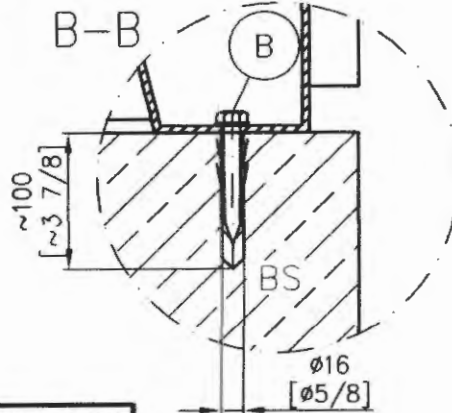
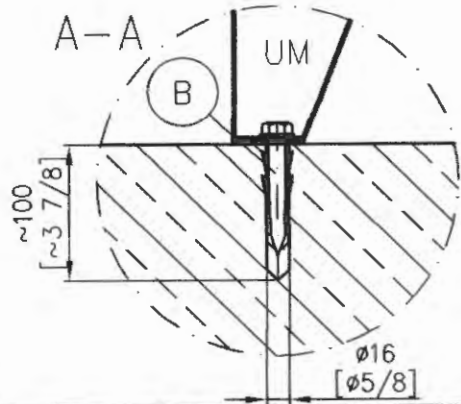
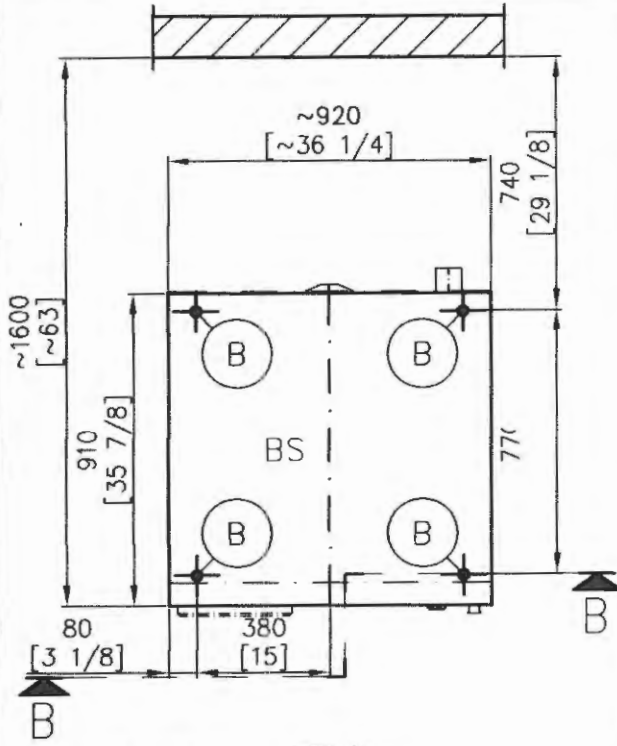
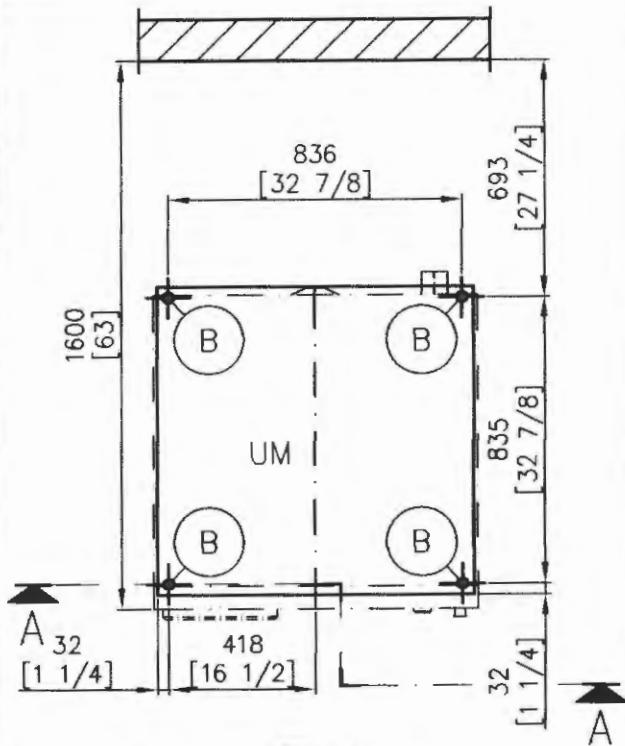
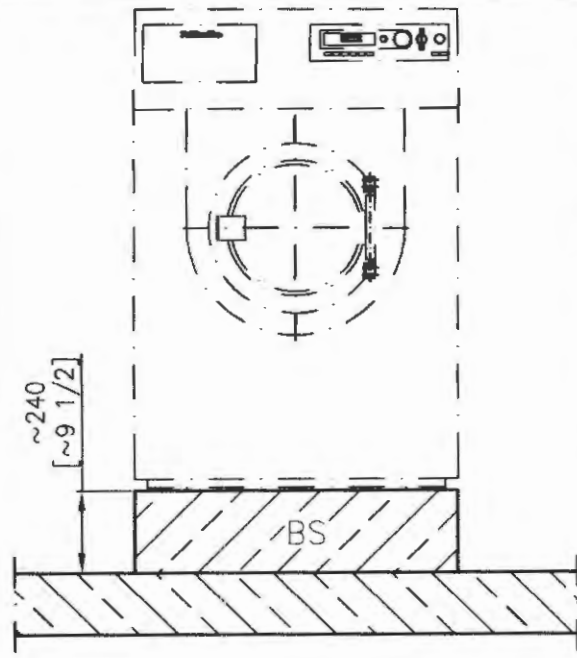
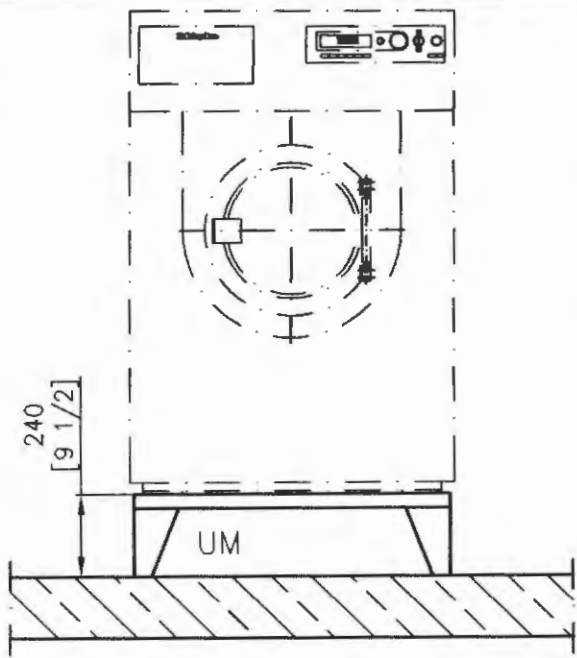


*Miele*  
Washer

<b>Miele</b> PROFESSIONAL	Installationsplan/Installation plan Waschmaschine/Washer PW 6161 D	Date: 19.10.2007
		Page: 3
		Name: SB



<b>Miele</b> PROFESSIONAL	Installationsplan/Installation plan Waschmaschine/Washer PW 6161 D (direkt)	Date: 19.10.2007
		Page: 5
		Name: SB



<b>Miele</b> PROFESSIONAL	Installationsplan/Installation plan Waschmaschine/Washer PW 6161 D	Date: 19.10.2007
		Page: 6
		Name: SB

Technical datasheet

**Miele**  
**PROFESSIONAL**

Washer:  
Heating:

PW 6161  
Steam

Legend:



Circled, bold-typed abbreviations:  
Connection required



Abbreviations surrounded by broken circle:  
Connection optional or required, depending on model



Options/Accessories:

UM	Miele plinth	UG/UO 6016 (UG = Box plinth/UO = Open plinth) Height Model Width UG (UO) Depth UG (UO)	9 7/16" 36 1/4" (35 7/16") 37" (35 3/8")	240 mm 920 (900) mm 939 (899) mm
BS	Concrete platform	Concrete platform optional (min. Quality B15) Recommended height Minimum height Recommended width Recommended depth Ensure good anchorage!	9 7/16" 4" 36 1/4" 35 13/16"	240 mm 100 mm 920 mm 910 mm
WI	Special product	With integrated scale		

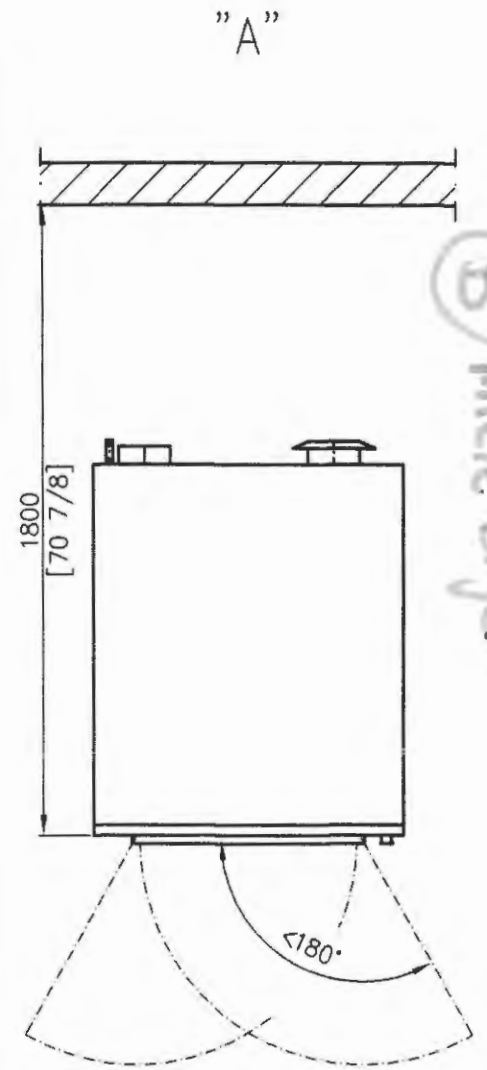
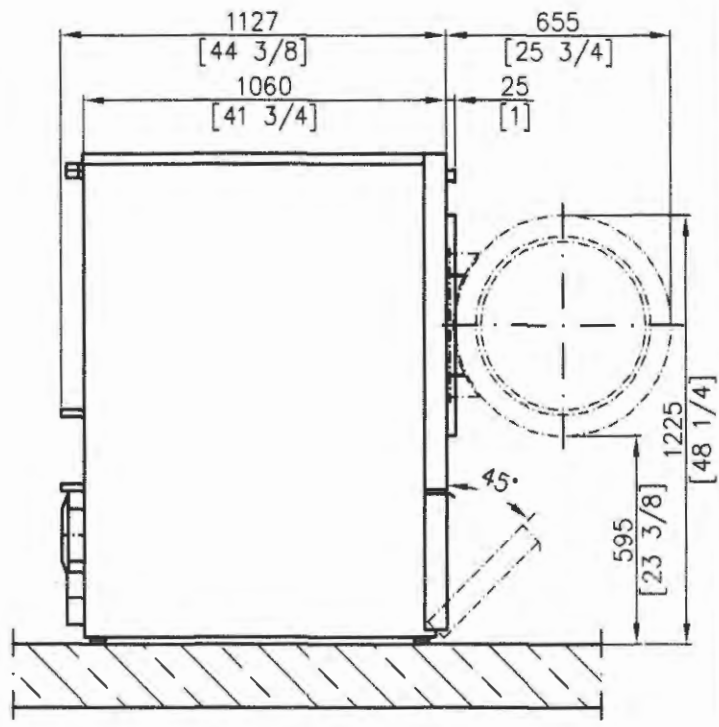
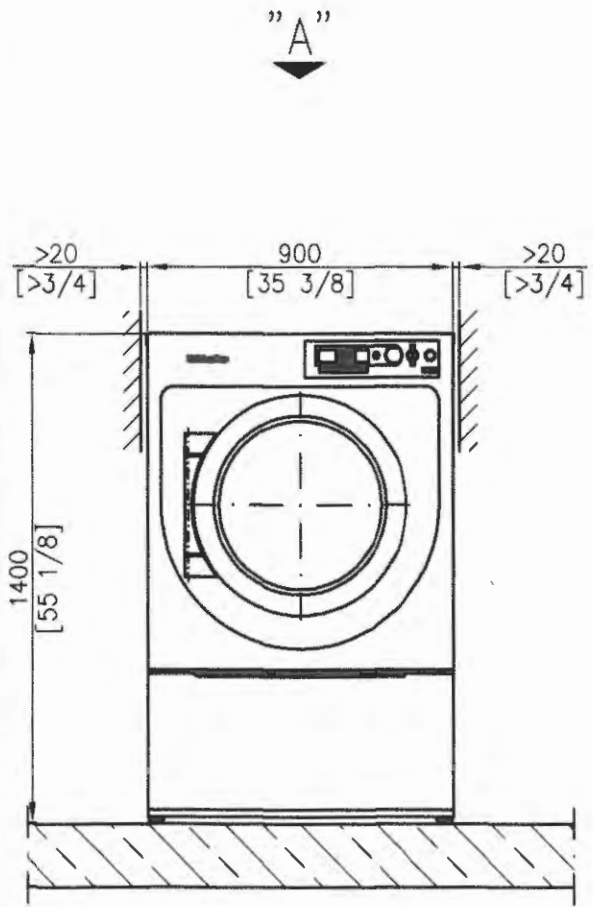
Machine connections:

(EL)	Electrical connections		USA	CDN
	 	<b>Standard voltage (factory set) *</b> Frequency Rated load Fuse rating Supply lead, wire size * If power supply includes a stinger leg, please call Technical Service at USA 1-800-991-9380 CDN 1-800-643-5361	3 AC 220-240 V 50-60 Hz 3 kW 3 x 15 A 14 AWG	3 AC 220-240 V 50-60 Hz 3 kW 3 x 15 A 4 x 1,5 mm <sup>2</sup>
		<b>Alternative voltage</b> Frequency Rated load Fuse rating Supply lead, wire size	reversible 3 AC 208 V 60 Hz 3 kW 3 x 15 A 14 AWG	3 AC 208 V 60 Hz 3 kW 3 x 15 A 4 x 1,5 mm <sup>2</sup>

			USA	CDN
D	Steam connection	Indirect steam (page 4)  Steam pressure Steam pressure on dryer version Boiling point Heating capacity Steam supply capacity Connection thread (on-site)  Steam valve, steam filter and steam faucet must be provided on-site.	87 - 145 psi 58 - 72 psi 306 - 363 °F 35 kW 143 lbs/h 1/2" MPT	87 - 145 psi 58 - 72 psi 152 - 184 °C 35 kW 65 kg/h 1/2" MPT
		Direct steam (page 5) Steam pressure (High pressure) Boiling point (High pressure) Heating capacity (High pressure) Steam supply capacity (High pressure) Steam pressure (Low pressure) Boiling point (Low pressure) Heating capacity (Low pressure) Steam supply capacity (Low pressure) Connection thread (on-site)  Steam valve, steam filter, steam faucet and non-return valve must be provided on-site.	≤ 58 psi ≤ 306 °F 27 kW 101 lbs/h ≤ 7.25 psi ≤ 84 °F 18 kW 48.5 lbs/h 1/2" MPT	≤ 58 psi ≤ 152 °C 27 kW 46 kg/h ≤ 7.25 psi ≤ 120 °C 13 kW 22 kg/h 1/2" MPT
		Note installation instructions for steam-heated Miele washer-extractors.		
K	Condensate connection	Indirect steam (page 4) Connection thread (on-site)  Steam valve, steam filter and steam faucet must be provided on-site.	1/2" MPT	1/2" MPT
KW	Cold water (Soft water)	Min. flow pressure Max. pressure Max. throughput (if hot water supply is not available) On-site connection thread Length of connection hose (supplied: 2 hoses and Y adapter) Water requirements (average 140°F [60°C] program) Standard connection (with hot water connection)  Additional requirements if hot water supply is not available.	14.5 psi 145 psi 6.9 (11) gal/min 3/4" MPT 59 1/16"  approx. 27.2 gal/h	14,5 psi 145 psi 26 (42) l/min 3/4" MPT 1.500 mm  approx. 103 l/h
WW	Hot water	Max. temperature Min. flow pressure Max. pressure Max. throughput On-site connection thread Length of connection hose (supplied) Water requirements (average for 140°F [60°C] program) Standard connection (with hot water connection)  If no hot water supply, connect hose to cold water!	158 °F 14.5 psi 145 psi 4.2 gal/min 3/4" MPT 59 1/16"  approx. 27.5 gal/h	70 °C 14,5 psi 145 psi 16 l/min 3/4" MPT 1.500 mm  approx. 104 l/h
KWH	Mains water (Raw water) (Optional)	Min. flow pressure Max. pressure Max. throughput On-site connection thread Length of connection hose (supplied: 2 hoses and Y adapter) Water requirements (average for 140°F [60°C] program) Standard connection (with hot water connection)  If connected to raw water supply, subtract cold water (soft) volume.  If no raw water supply, connect hose to cold water!	14.5 psi 145 psi 8.45 gal/min 3/4" MPT 59 1/16"  not yet available	14,5 psi 145 psi 32 l/min 3/4" MPT 1.500 mm  not yet available

			USA	CDN
(AV)	Drainage via dump valve	<p>Max. temperature Machine drain connection (d<sub>a</sub> × s × l)</p> <p>On-site drain connection (d<sub>i</sub>) Max. throughput</p> <p>Vented drainage required. If ventilation is insufficient, fit Miele kit, Mat. no. 05238090. Drain manifolds serving several machines must be of sufficient cross-section.</p>	<p>203 °F 3" x 1/16" x 2 13/16" 3" 52.8 gal/min</p>	<p>95 °C 75 × 1,9 × 72 mm 75 mm 200 l/min</p>
(SK)	Foam vent	A drainage system for foam escaping from the drain vent can be built using standard drain pipe sections. A 87° branch with an end cap should be provided for this purpose.		
(B)	Fittings (supplied)	<p>Miele plinth UG/UO 6016 4 × metal angled brackets (to secure machine to plinth) 4 × screws (Diameter × length) 4 × wall anchors (Diameter × length) Machine must be secured! Fixing materials provided for securing to concrete floor</p>	<p>1/2" x 3 9/16" 5/8" x 3 1/8"</p>	<p>12 × 90 mm 16 × 80 mm</p>
		<p>On concrete platform 2 × screws (Diameter × length) 2 × wall anchors (Diameter × length) Machine must be secured! Fixing materials provided for securing to concrete floor</p>	<p>1/2" x 3 9/16" 5/8" x 3 1/8"</p>	<p>12 × 90 mm 16 × 80 mm</p>
		<p>Without plinth 2 × screws (Diameter × length) 2 × wall anchors (Diameter × length) Machine must be secured! Fixing materials provided for securing to concrete floor</p>	<p>1/2" x 3 9/16" 5/8" x 3 1/8"</p>	<p>12 × 90 mm 16 × 80 mm</p>
	Special product W1:	<p>On concrete platform 4 × screws (Diameter × length) 4 × wall anchors (Diameter × length) Machine must be secured! Fixing materials provided for securing to concrete floor</p>	<p>5/16" x 2 9/16" 1/2" x 2 3/8"</p>	<p>8 × 65 mm 12 × 60 mm</p>
		<p>Without plinth 4 × screws (Diameter × length) 4 × wall anchors (Diameter × length) Machine must be secured! Fixing materials provided for securing to concrete floor</p>	<p>5/16" x 2 9/16" 1/2" x 2 3/8"</p>	<p>8 × 65 mm 12 × 60 mm</p>
	Machine data	<p>Width Depth Height Knocked-down dimensions (Width) Recommended clearance to rear wall (to machine front edge) Net weight Dynamic floor load during operation, max. Static load, max. Dynamic load max. Drum frequency, max. Average heat dissipation (depending on room temperature and selected program)</p>	<p>36 3/8" 39 5/8" 55 1/8" 36 5/8" 63" 1,000 lbs 5,469 N 5,003 N 466 N 19.2 Hz not yet available</p>	<p>924 mm 1,007 mm 1,400 mm 930 mm 1,600 mm 454 kg 5,469 N 5,003 N 466 N 19,2 Hz not yet available</p>
<p>Installation should only be carried out by authorized installers in accordance with all local and national regulations! Observe installation instructions when installing machine! All rights reserved!</p>				

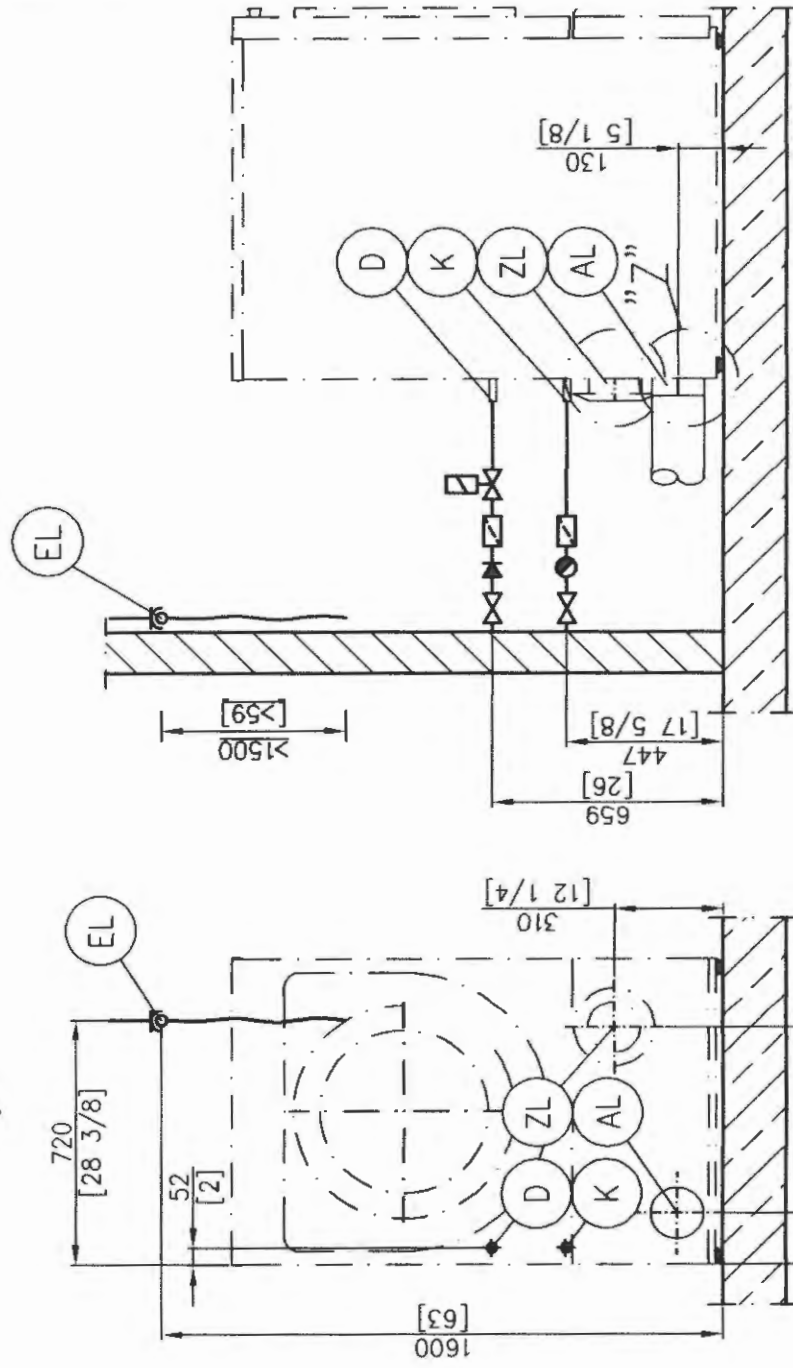




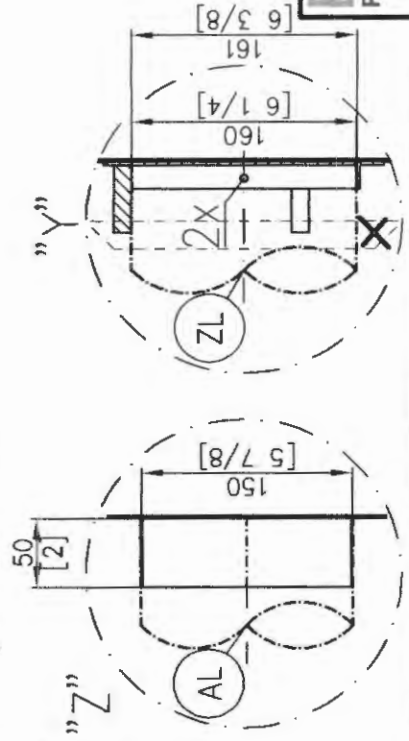
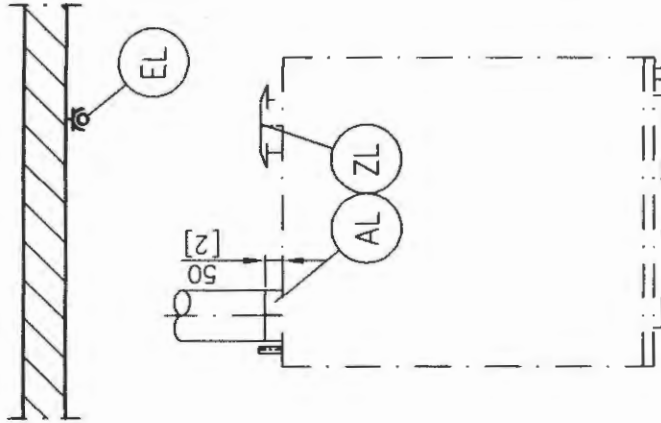
ⓑ Miele Dyer

<b>Miele</b> PROFESSIONAL	Installationsplan/Installation plan	Date:	07.07.2005
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	PT 7401 D	Name:	THage

"B" →



"B"



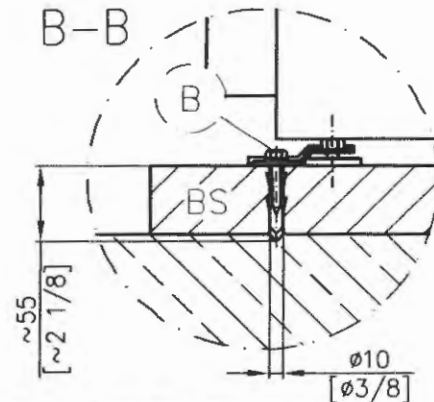
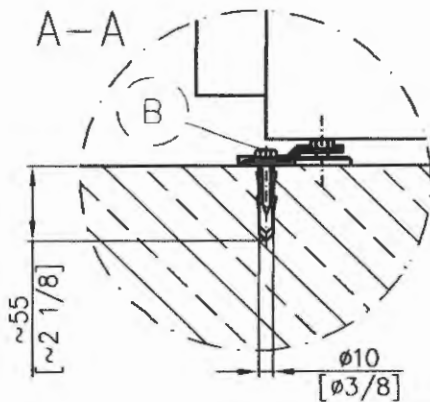
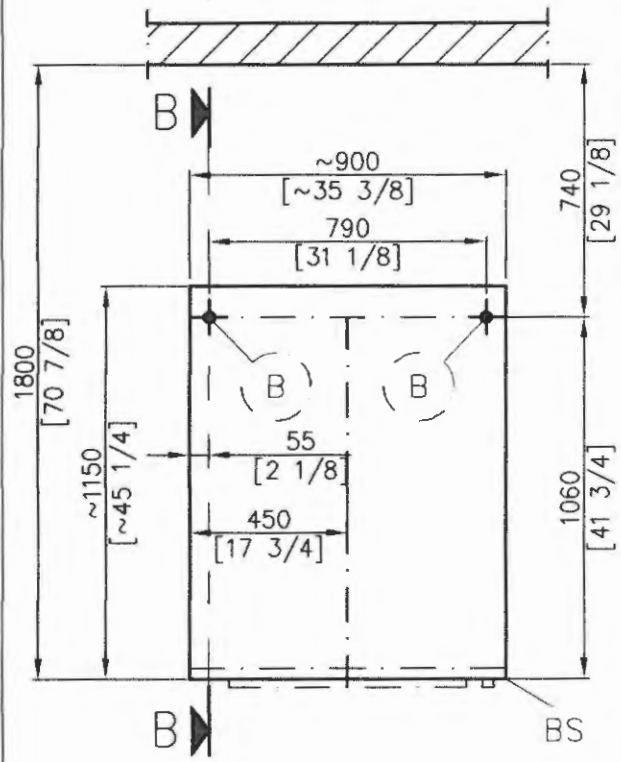
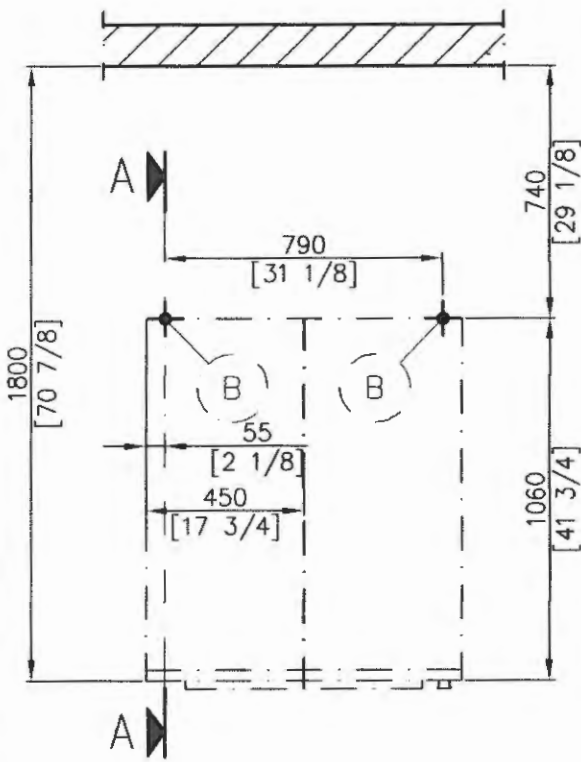
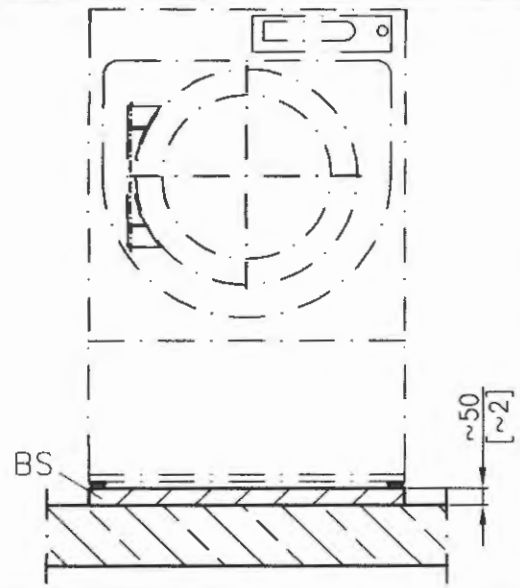
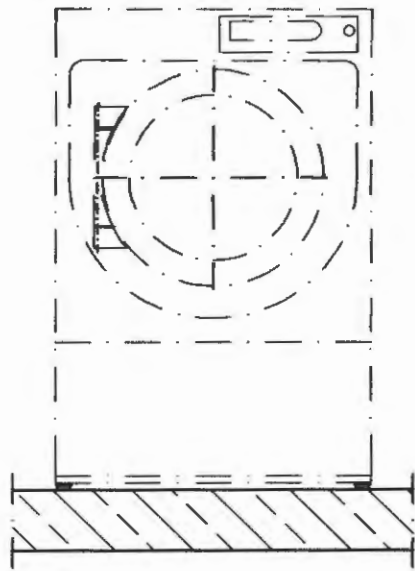
Installationsplan/Installation plan

Trockner  
PT 7401 D

Date: 07.07.2005

Page: 4

Name: THoge



**Miele**  
PROFESSIONAL

Installationsplan/Installation plan  
Trockner  
PT 7401 D

Date:	07.07.2005
Page:	5
Name:	THage

Technical datasheet



Dryer:  
Heating:

PT 7401  
Steam

Legend:



Circled, bold-typed abbreviations:  
Connection required



Abbreviations surrounded by broken circle:  
Connection optional or required, depending on model



Options/Accessories:

BS	Concrete platform	Concrete platform optional (min. Quality B15) Recommended height Minimum height Recommended width Recommended depth Ensure good anchorage!	2" 2" 47 1/4" 41 5/16"	50 mm 50 mm 1.200 mm 1.050 mm
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Machine connections:

<b>EL</b>	Electrical connections		USA	CDN
	 	Standard voltage (delivery status) * Frequency Rated load Fuse rating Supply lead, wire size * If power supply includes a stinger leg, please call Technical Service at USA 1-800-991-9380 CDN 1-800-643-5361	3 AC 220-240 V 60 Hz 1.3 kW 3 x 10 A 14 AWG	3 AC 220-240 V 60 Hz 1.3 kW 3 x 10 A 4 x 1,5 mm <sup>2</sup>
		Alternative voltage Frequency Rated load Fuse rating Supply lead, wire size	3 AC 208 V 60 Hz 1.3 kW 3 x 10 A 14 AWG	3 AC 208 V 60 Hz 1,3 kW 3 x 10 A 4 x 1,5 mm <sup>2</sup>
<b>D</b>	Steam connection	Steam pressure Boiling point Steam supply capacity Connection thread (on-site) Steam valve, steam filter and steam faucet must be provided on-site. Note installation instructions for steam-heated Miele dryers.	87 - 145 psi 329 - 363 °F 108 lbs/h 1/2" MPT	87 - 145 psi 165 - 184 °C 49 kg/h 1/2" MPT
<b>K</b>	Condensate connection	Connection thread (on-site) Steam valve and condensate trap must be provided on-site.	1/2" MPT	1/2" MPT

			USA	CDN
AL	Venting	Nominal air throughput in vented mode Permissible pressure attenuation Machine vent connection ( $d_a \times s \times l$ ) On-site vent connection (interior diameter) Max. temperature	26 500 ft <sup>3</sup> /h 0.0435 psi 5 7/8" x 0 x 3 1/16" 5 7/8" 176 °F	750 m <sup>3</sup> /h 300 Pa 150 x 0.6 x 78 mm 150 mm 80 °C
		As relative humidity can be as high as 100%, suitable measures must be taken to prevent a backflow of condensate into the machine.  If the machine fan is unable to transport air over the on-site vent ducting distance, an additional fan with a suitable capacity must be installed either in the ducting or at the point of discharge to atmosphere.		
ZL	Air intake	Standard connection: => Air intake from installation site Direct air intake recommended (to prevent draughts)	82.3 inch <sup>2</sup>	531 cm <sup>2</sup>
		Sufficient air intake should be available to replace the displaced volume of air.		
		Alternative connection: (cf. Detail Y) => Direct air intake Machine connection ( $d_i \times s \times l$ ) On-site connection (external diameter)  Lid removal exposes live components! For safety reasons, the pipe connected for central air intake should be at least 35 7/16" (900 mm) long and secured using two screws.	6 5/16" x 3/16" x 5/8" 6 5/16"	161 x 4 x 16 mm 160 mm
B	Fittings (supplied)	2 x screws (diameter x length) 2 x rawl plugs (diameter x length) The machine should be bolted to the floor. Fixing materials for floating screed floor to be provided on site	1/4" x 1 9/16" 3/8" x 2"	6 x 40 mm 10 x 50 mm
	Machine data	Width Depth Height Knocked-down dimensions (W x H) Rear wall gap (measured to front of machine) Net weight Dynamic floor load, max. Average heat dissipation (dependent on ambient room temperature and selected program) Acoustic power level (re1 pW) Sound pressure level measured at a distance of 3 ft (1 m) from the machine and at a height of 63" (1.6 m)	35 7/16" 45 3/8" 55 1/8" 39 3/8" x 59 1/16" 70 7/8" 564 lb 2.747 N 722 W  72 dB (A) 59.1 dB (A)	900 mm 1.152 mm 1.400 mm 1.000 x 1.500 mm 1.800 mm 256 kg 2.747 N 722 W  72 dB (A) 59.1 dB (A)
Installation should only be carried out by authorized installers in accordance with valid regulations! Observe installation instructions when installing machine! All rights reserved!				

© Miele Washer + dryer stack

**Technical Data for Washers**

Washers	PW 6065	PW 6101	PW 6131
Load Capacity - Laundry	15 lbs/6.5 kg	23 lbs/10 kg	30 lbs/13 kg
Heating Type	Electric	Electric	Electric
Machine Exterior - Front	Stainless Steel	Stainless Steel	Stainless Steel
Machine Exterior - Lid and Sides	Stainless Steel	Octoblue powder coat, galvanized	Octoblue powder coat, galvanized
Machine Dimensions	33.5" H	55.12" H incl. base	55.12" H incl. base
	23.5" W	31.65" W	31.65" W
	27.6" D	36.42" D	39.57" D
Drum Volume	17 gallons/ 59 liters	26.4 gallons/ 100 liters	34.3 gallons/ 130 liters
Drum Dimensions	18.9" Ø	23.2" Ø	23.2" Ø
	11.8" deep	14.4" deep	18.7" deep
Door Opening	11.8" Ø	14.6" Ø	14.6" Ø
Drum Type	Honeycomb™ Stainless Steel	Honeycomb™ Stainless Steel	Honeycomb™ Stainless Steel
Spin Speed	1400 RPM	1200 RPM	1100 RPM
G-Force	526	475	400
Control Type	Profitronic Plus	Profitronic M	Profitronic M
Net Weight	256.5 lbs/ 116.3 kg	714 lbs/ 324 kg	754 lbs/ 342 kg
Electrical Connection Standard	2 AC 208 V 60 Hz	3 AC 230 V 60 Hz	3 AC 230 V 60 Hz
Electrical Connection* Optional	n/a	208 V	208 V
Fuse Rating	2 x 20	3 x 25	3 x 50
Total Rated Load	4 kW	11 kW	17 kW
Required Water Flow Pressure	Min - 30 psi Max - 145 psi	Min - 30 psi Max - 145 psi	Min - 30 psi Max 145 psi
Maximum Floor Load	2022 N	3970 N	4304 N
Water Connection	3/4"	3/4"	3/4"
Cold Water Line	1	3	3
Warm Water Line	1	1	1
Drain Line	3/4" vented	3" vented	3" vented
Noise Level	Wash - 52 dB Spin - 71 dB	Wash - 62.8 dB Spin - 79.9 dB	Wash - 66.4 dB Spin - 80 dB

\* Some electrically heated units with a 230 V connection can be converted to 208 V.

## Dryers

Model Type	Laundry Capacity	Innovation M	Profitronic	Electric heat	Residual moisture control
PT 7136	15 lbs		•	•	•
PT 7251	22 lbs	•		•	•
PT 8337	30 lbs	•		•	•
PT 8407	36 lbs	•		•	•
PT 8507	45 lbs	•		•	•

## **Calculation of air outlet, air inlet and ventilation cross sections**

### **Calculating the total pipe length and diameter of the air outlet pipe, and air inlet pipe where applicable.**

The length of pipe required as well as the number and shape of the bends are always determined by the structural features of the building.

- The pipe should be as short as possible with as few bends as possible. Too many bends will impair the efficiency of the ventilation.
- It is also necessary to decide whether the air outlet pipe should be made of flexible pipe or of metal with round or square cross sections.
- If the dryer is connected to a central air intake system, that pipe length must also be added into the total. The maximum length of the air intake pipe must not exceed fifty percent of the total effective length.
- The venting system for exhaust air should be made of approved non-flammable materials only.

#### **Note:**

With upward sloping air venting pipes a condensate drain must be installed at the lowest point. The condensate should be collected in a suitable container or if possible drained away through a suitable drain.

Where more than one machine is (as an exception) ducted into a common flue, it is essential that each machine have a non-return flap.



## Calculation of air outlet, air inlet and ventilation cross sections

**Table 2**  
**Internal pipe diameter/internal length of side (square section) in relation to effective pipe lengths**

Internal pipe diameter or internal length of flexible and metal pipes (in)	Maximum permissible effective pipe length
	PT 7136 PT 8337 PT 8407 PT 8507
$2 \frac{3}{4}''$	
$3 \frac{1}{8}''$	
$3 \frac{9}{16}''$	
4	-
$4 \frac{5}{16}''$	
$4 \frac{3}{4}''$	
$5 \frac{1}{8}''$	
$5 \frac{1}{2}''$	
6"	55' 7"
$7 \frac{1}{16}''$	127' 9"
$7 \frac{7}{8}''$	213' 2"
$8 \frac{11}{16}''$	

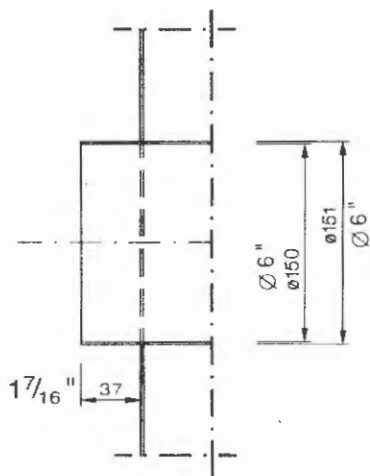
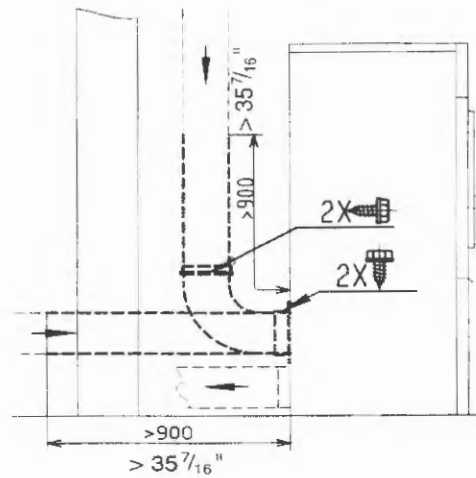
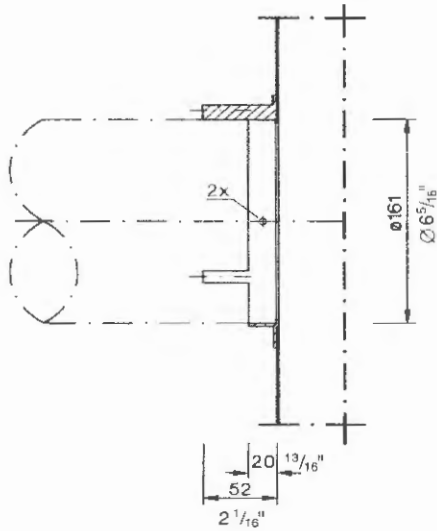
## Connection of air intake and venting systems

### Connection to a central air intake

⚠ When the protective cap is removed, live components may be electrically exposed.

To maintain safety, a plastic or metal pipe must be fitted to the fresh air intake for a minimum length of  $35 \frac{7}{16}$ ". Each connection point must be secured with 2 screws. The air intake pipe must not protrude into the machine.

### Connection for venting exhaust air

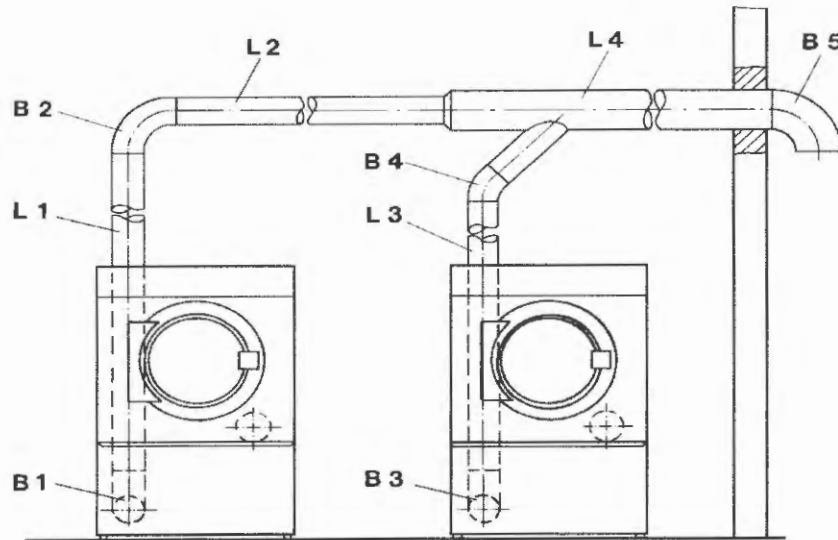


## Connection of air intake and venting systems

### Example 2

Calculation of a joint ventilation system (exception) in metal for Dryers T 8407 and T 8507

L1 to L4 each	6' 6 <sup>3</sup> / <sub>4</sub> " Metal piping
B1 to B3 each	90° Concertina bend (r = 2d)
B4	45° Round bend (r = 2d)
B5	90° Round bend (r = d)



#### 1. Effective length of piping T 6351

Metal pipe	L1 = 6' 6 <sup>3</sup> / <sub>4</sub> "	
Metal pipe	L2 = 6' 6 <sup>3</sup> / <sub>4</sub> "	
Metal pipe	L4 = 6' 6 <sup>3</sup> / <sub>4</sub> "	
90° concertina bend	B1 = 7' 10 <sup>1</sup> / <sub>2</sub> " *	* Extra pipe length according to <b>Table 1</b>
90° concertina bend	B2 = 7' 10 <sup>1</sup> / <sub>2</sub> " *	
90° round bend (r = d)	B5 = 10' 2 <sup>1</sup> / <sub>16</sub> " *	

**Total effective pipe length = 45' 7 <sup>1</sup>/<sub>4</sub>"**

#### 2. Pipe diameter in relation to effective pipe length

Total pipe length = 45' 7 <sup>1</sup>/<sub>4</sub>" (T 6251)  
 Maximum permissible effective pipe length 77' 1 <sup>9</sup>/<sub>16</sub>".  
 The internal pipe diameter is 6" (Table 2).

## Technical data for Dryers

Dryers	T 8407	T 8507
Load Capacity - Laundry	36 lbs/16 kg	55 lbs/25 kg
Heating Type	Electric	Electric
Machine Exterior - Front	Stainless Steel	Stainless Steel
Machine Exterior - Lid and sides	Octoblue powder coat, galvanized	Octoblue powder coat, galvanized
Machine Dimensions	55.12" H	64.57" H
	35.67" W	47.48" W
	45.2" D	39.49" D
Drum Volume	106 gallon/ 400 liter	132 gallon/ 500 liter
Drum Dimensions	33.5" Ø	43.3" Ø
	28" deep	20.8" deep
Drum Type	Honeycomb™ Stainless Steel	Honeycomb™ Stainless Steel
Control Type	Profitronic M	Profitronic M
Net Weight	421 lbs/ 191 kg	525 lbs/ 238 kg
Electrical Connection - Standard	3 AC 230 V 60 Hz	3 AC 230 V 60 Hz
Electrical Connection* - Optional	3 AC 208 V	3 AC 208 V
Fuse rating	3 x 65	3 x 80
Total rated load	23.8 kW	28.3 kW
Vent diameter	6"	6"
Evaporation Rate	12 fl oz/minute	15 fl oz/minute

\* Electrically heated units with a 230 V connection can be converted to 208 V.



Forenta Cuff + Collar

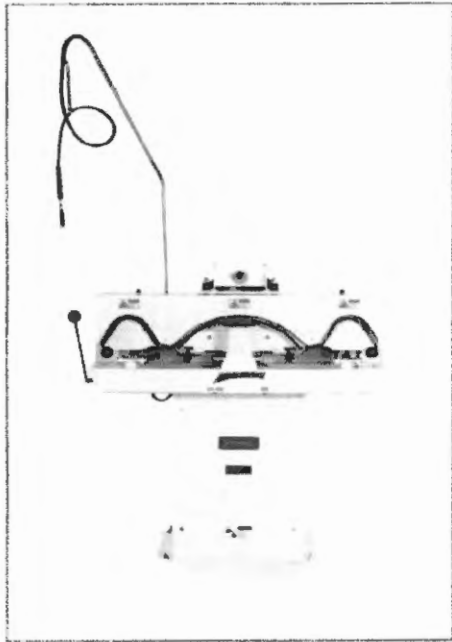
**Forenta**

Morristown, TN U.S.A.

## Collar-Cuff-Yoke Presses

Models 392SCS and 392SCSY

- Designed for pressing cuffs, collar, yoke in one lay
- Newly designed cuff heads and bucks for smaller sleeve gussets
- Automatic and adjustable timed cycle or manually controlled time cycle
- Shirt hanger rod can be placed on right side or left side
- Nickel-plated heads
- Two-hand control operation
- Water spray standard

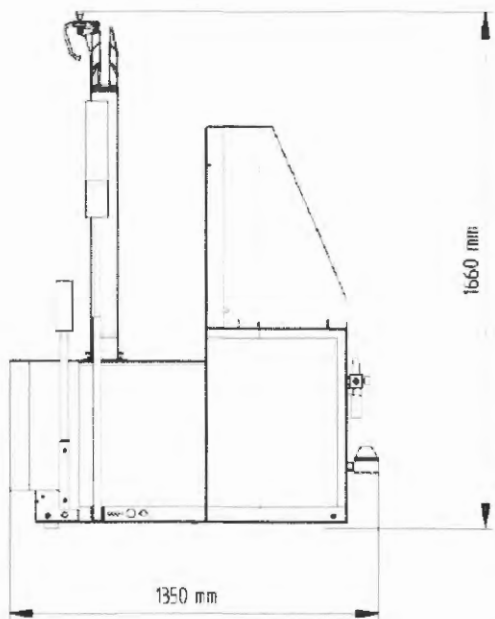


Model 392SCS/392SCSY

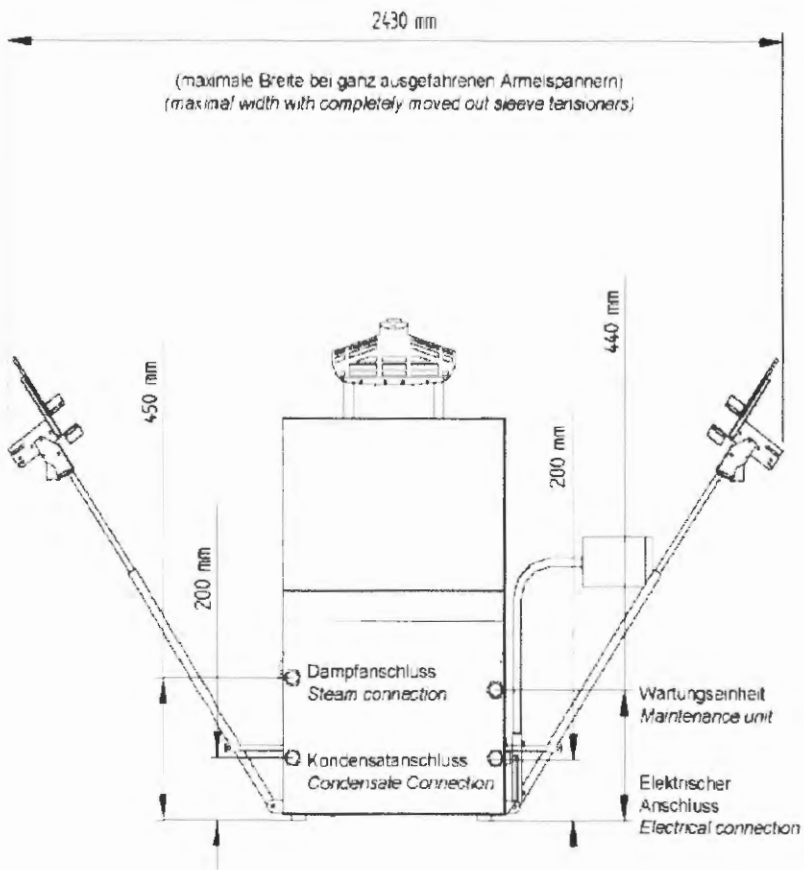
ⓔ Veit shirt press

3 Technische Daten ohne Entladevorrichtung / Technical Data without unloading

Seitenansicht / Lateral View



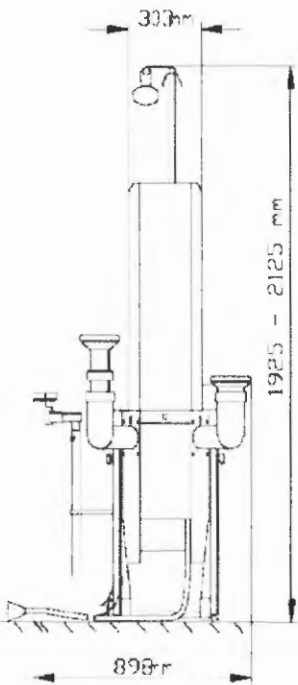
Rückansicht / Rear View



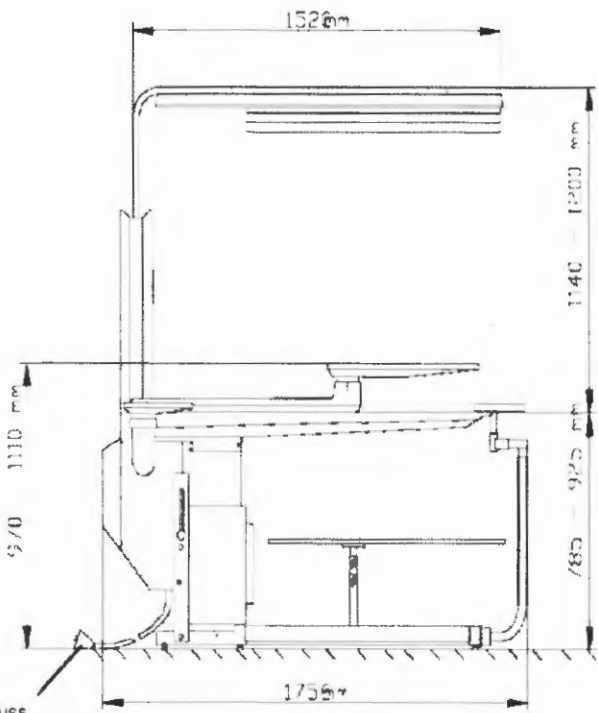
Ⓢ Veit pressing table

3 Technische Daten CR2 / Technical Data CR2

Ansicht von hinten / Rear View

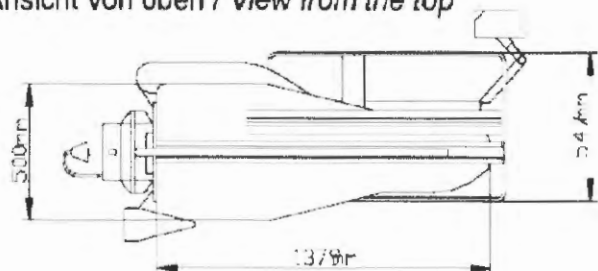


Seitenansicht / Lateral View



Elektrischer Anschluss  
Electr. connection

Ansicht von oben / View from the top



⑥ Veit Form Finisher

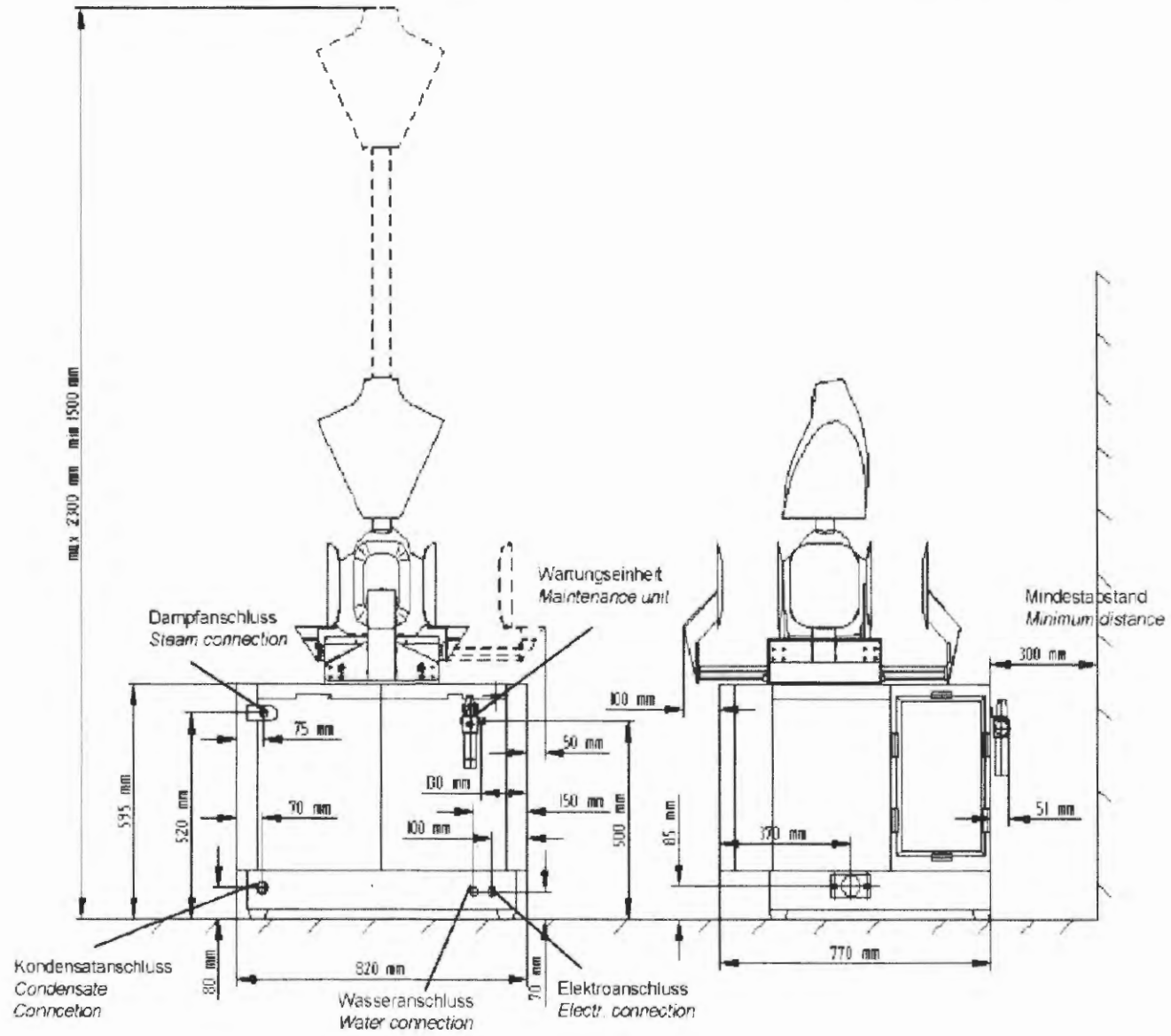
**veit**

Formfinisher VEIT 8362 (DE)  
VEIT 8362 (SG) Form Finisher

2.2 Technische Daten VEIT 8362 mit Dampferzeuger / Technical Data VEIT 8362 with steam generator

Seitenansicht / Lateral View

Rückansicht / Rear View





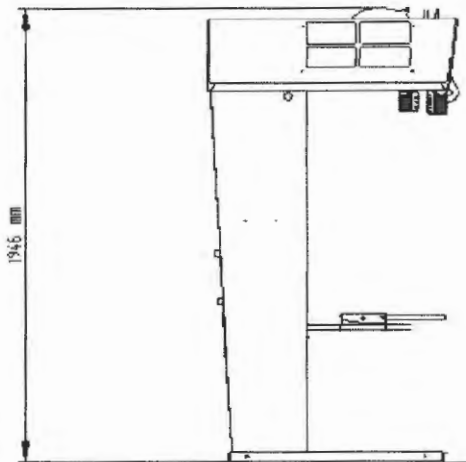
Ⓜ Veit pants topper



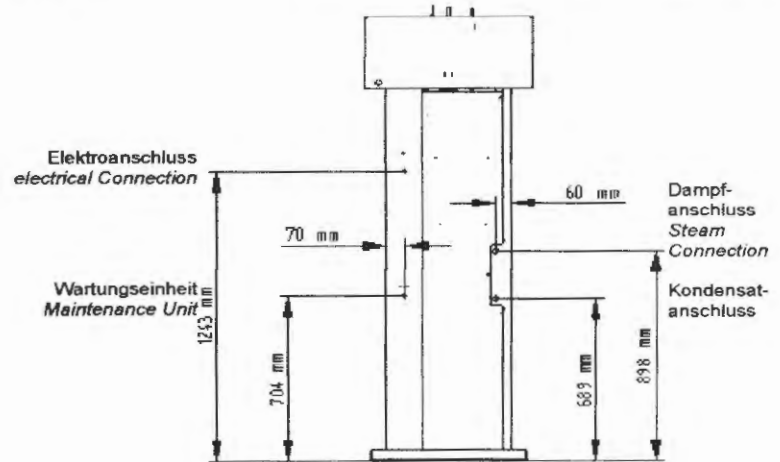
Hosentopper VEIT 8741  
VEIT 8741 Pants Finisher

### 3 Technische Daten / Technical Data

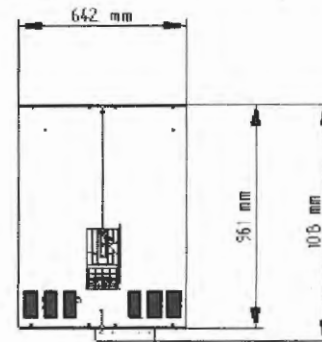
#### Seitenansicht / Lateral View



#### Rückansicht / Rear View

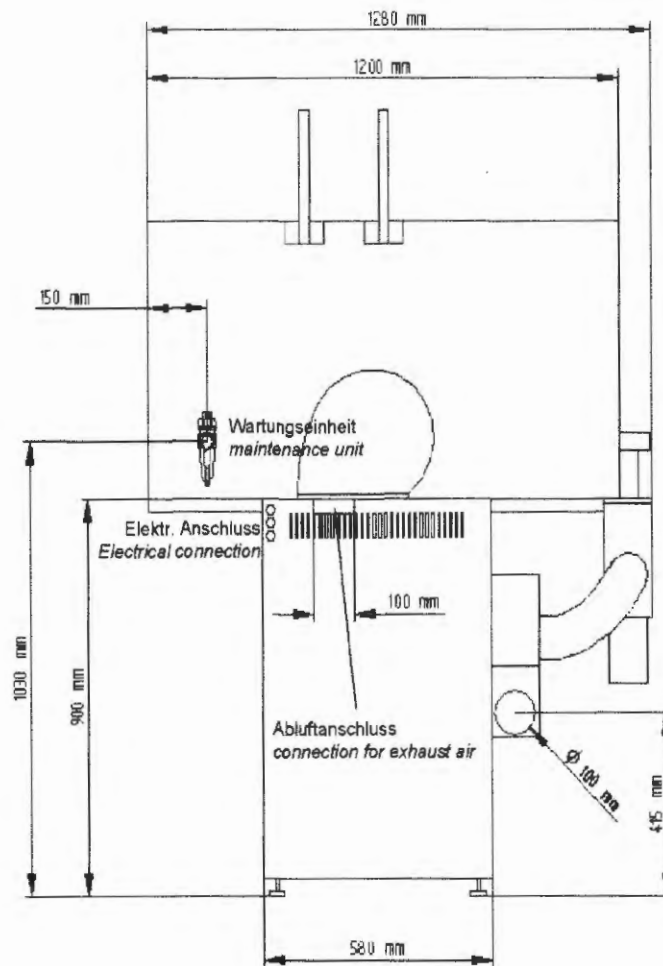


#### Ansicht von oben / View from the top

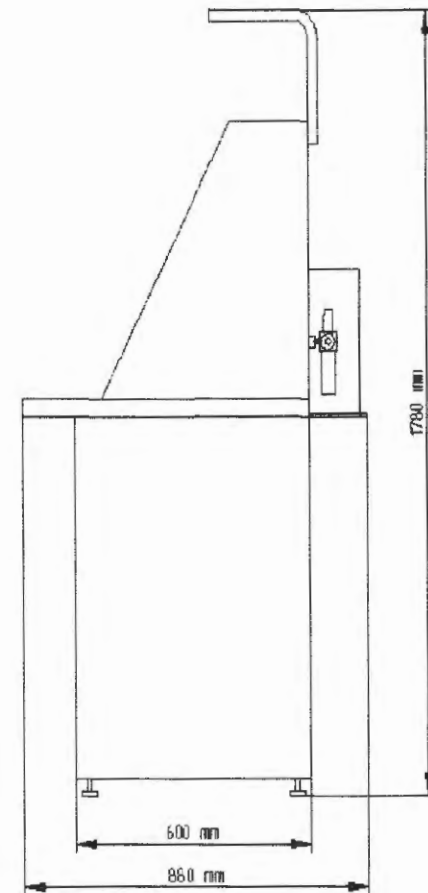


J Veit spotting cabinet

Rückansicht / Rear View



Seitenansicht / Lateral View



① steam boiler



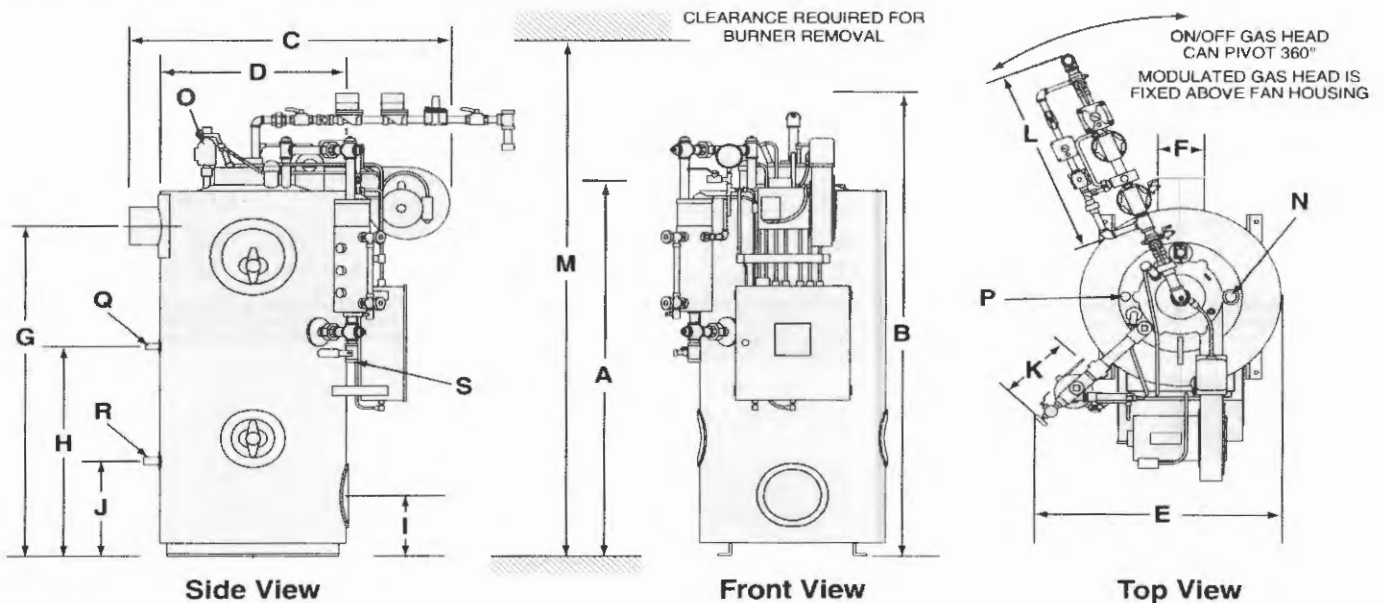
**Product Data Submittal**  
 Fulton Models: ICS/FB-A and ICX/FB-F

**Fulton Gas & Oil Fired  
 Vertical Tubeless  
 Steam Boilers**  
 (Standard Burner)

**Dimensions**

Standard Models ICS/FB-A Models ICX/FB-F		6	9.5	10	15	20	25	30	50	60
Unit Size:	BHP	6	9.5	10	15	20	25	30	50	60
A. Boiler Height	IN	57.5	67.5	63.5	69.5	72.5	75	82.5	87.5	93.5
	MM	1461	1715	1613	1765	1842	1905	2069	2223	2375
B. Boiler Height With Trim* & Fuel Train Assembly	IN	75	85	80.5	86.5	92.5	95	102	106.5	120
	MM	1905	2159	2045	2197	2350	2413	2591	2705	3048
C. Overall Depth Stack to Burner Fan Housing	IN	44	44	46	47	58	59	67	78	78
	MM	1118	1118	1168	1194	1474	1499	1702	1981	1981
D. Boiler Diameter	IN	26	26	28	30	39	39	46	55	55
	MM	660	660	710	760	990	990	1170	1400	1400
E. Overall Width with Water Column	IN	33	33	33.5	35.5	43	43	49	57	57
	MM	838	838	851	902	1091	1091	1244	1448	1448
F. Flue Outlet Diameter	IN	6	6	6	8	10	10	12	12	12
	MM	152	152	152	203	254	245	305	305	305
G. To Center of Flue Outlet	IN	52	62	58	63	66	68	73.5	79	85
	MM	1320	1575	1473	1600	1675	1728	1867	2007	2159
H. Feedwater Inlet	IN	33	33.5	33	33.5	34	34	34	35	35
	MM	840	851	840	851	865	865	865	890	890
I. Handholes	IN	19	19	19	19	19	19	19	20	20
	MM	485	485	485	485	485	485	485	510	510
J. Blowdown Outlet	IN	15	15.5	15.5	15.5	16.5	16.5	16.5	17.5	17.5
	MM	380	394	394	394	420	420	420	445	445
K. Water Column Extension	IN	14	14	14	14	14	14	14	14	14
	MM	355	355	355	355	355	355	355	355	355
L. Gas Train Extension (CSD-1)	IN	22.5	25	21.5	20.5	25	25	27	22.5	34
	MM	572	635	546	521	635	635	686	572	867
M. Clearance Required for Burner Removal *	IN	82	92	86	92	96	98	106	114	124
	MM	2083	2337	2184	2337	2438	2490	2692	2896	3150
<b>Weights</b>										
Approx. Shipping Weight	LB	1700	1900	2000	2280	3400	3500	4780	6526	7280
	KG	773	862	910	1036	1545	1591	2173	2966	330

\*This dimension is 6" less for oil fired units 4-50 HP and 12" less for oil fired units 60 HP.  
**NOTE:** Recommended minimum clearance is 24" to the side and back of unit; 36" in front



**M** Water heater

# Accelera® 300 Heat Pump Water Heater Technical Data

## Technical Data



ISO 9001  
CERTIFIED

STIEBEL ELTRON

Model		Accelera® 300 Heat Pump Water Heater	
<b>General Data</b>			
Part no.			222423
Operating temperature range	°F / °C		42 to 108 / 6 to 42
DHW temperature	°F / °C		140 / 60
Air flow rate	CFM		324
Sound level @ 1.1 yards / 1 m	dB(A)		64.2
Capacity	Gal / l		80.044 / 303
Refrigerant filling weight	-- / g		R 134a / 900
Height	in / cm		73.8 / 187.4
Diameter	in / cm		26 / 66
Height of unit when tilted (max 45°) including packing	in / cm		90 / 228.6
Weight dry	lb / kg		286.6 / 130
Weight wet	lb / kg		952.4 / 432
Water connection	in		R3/4" NPT
Condensate connection	in		3/4"
Condenser		Safety heat exchanger (tank wrap-around condenser)	
Operating pressure, water side	Psi / MPa		87 / 0.6
Permiss. positive pressure, refrigerant side	Psi / MPa		348.1 / 2.4
<b>Electrical Data</b>			
Voltage / Frequency	V / Hz		Single Phase 208-240 / 60
Maximum power draw	kW		2.2
Circuit breaker	A		15
Rated current compressor & fan	A		2.5
Rated power consumption compressor & fan <sup>2)</sup>	kW		0.5
Rated power, booster heater	kW		1.7
Heating output, heat pump <sup>3)</sup>	kW		approximately 1.7
COP (t) <sup>3)</sup>			3.18
Typical COP range			3-6
Energy factor according to ENERGY STAR			2.508
First hour rating	Gal / l		78.6 / 297.5

<sup>1)</sup> Tamb = 107.6 °F / 42 °C Twater = 140 °F / 60 °C / 240 V ~ Test point to DIN 8947 at 59 °F / 15 °C air temperature, 70 % rel. humidity and 113 °F / 45 °C water temperature

<sup>2)</sup> Test point at 59 °F / 15 °C air temperature, 70 % rel. humidity, heating up water from 59 °F / 15 °C to 140 °F / 60 °C (according to EN 255 T3, 240 V / 60 Hz)

<sup>3)</sup> Limited Warranty (Except: STIEBEL ELTRON, Inc. warrants to the original owner that the Accelera 300 Water Heater will be free from defects in workmanship and materials for a period of 11 YEARS from the date of purchase. Should any part(s) prove to be defective during this period, STIEBEL ELTRON, Inc. will be responsible for replacement of the defective part(s) only. STIEBEL ELTRON, Inc. is not responsible for labor charges.



TESTED TO ANSUL-499

**ISO 9001**  
CERTIFIED



TESTED TO CAN/CSA C22.2 NO.36

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[< Back to Accelera® 300 main page](#)

## Technical Data for Washers

Washers	PW 6161	PW 6201	PW 6241
Load Capacity - Laundry	36 lbs/16 kg	45 lbs/20 kg	54 lbs/24 kg
Heating Type	Electric	Electric	Electric
Machine Exterior - Front	Stainless Steel	Stainless Steel	Stainless Steel
Machine Exterior - Lid and Sides	Octoblue powder coat, galvanized	Octoblue powder coat, galvanized	Octoblue powder coat, galvanized
Machine Dimensions	55.12" H 36.38" W 39.65" D	55.12" H incl. base 36.38" W 40.94" D	64.57" H 42.8" W 48.23" D
Drum Volume	42.2 gallon/ 160 liter	52.8 gallon/ 200 liter	63.4 gallon/ 240 liter
Drum Dimensions	26.7" Ø 17.3" deep	26.7" Ø 21.7" deep	31.5" Ø 18.8" deep
Door Opening	14.6" Ø	14.6" Ø	16.9" Ø
Drum Type	Honeycomb™ Stainless Steel	Honeycomb™ Stainless Steel	Honeycomb™ Stainless Steel
Spin Speed	1150 RPM	1100 RPM	1100 RPM
G-Force	500	460	542
Control Type	Profitronic M	Profitronic M	Profitronic M
Net Weight	1001 lbs/ 454 kg	1091 lbs/ 495 kg	1411 lbs/ 640 kg
Electrical Connection Standard	3 AC 230 V 60 Hz	3 AC 230 V 60 Hz	3 AC 230 V 60 Hz
Electrical Connection* Optional	208 V	208 V	208 V
Fuse Rating	3 x 50	3 x 50	3 x 80
Total Rated Load	18 kW	19.3 kW	25 kW
Required Water Flow Pressure	Min - 30 psi Max - 145 psi	Min - 30 psi Max - 145 psi	Min - 30 psi Max - 145 psi
Maximum Floor Load	5469 N	6067 N	8471 N
Water Connection	3/4"	3/4"	1"
Cold Water Line	3	3	3
Warm Water Line	1	1	1
Drain Line	3" vented	3" vented	3" vented
Noise Level	Wash - 65.5 dB Spin - 87.4 dB	Wash - 62.1 dB Spin - 82.6 dB	Wash - 60.3 dB Spin - 82.2 dB

\* Some electrically heated units with a 230 V connection can be converted to 208 V.

## Installation requirements for Dryers

### Dimensions:

- Since these machines are larger, the customer needs to make sure they will fit through door and passageways for delivery access.
- The dryers are shipped on a pallet that is larger in width and depth than the unit. Keep this in mind when measuring doorways and walkways.

### Electrical Connection:

**These machines will not run on single phase power.**

- **The unit must have 2 feet of distance from the back wall for access to the rear panels for future servicing.**
- If a 2' clearance is not possible the unit must be able to be moved out via a pallet jack for servicing. Therefore, there must be enough clearance in front of the machine to have a pallet jack move it in and out of place.
- Electrically heated machines require 3 AC (230V). A wiring conversion for 208V is also available. This conversion can be performed on location by a qualified technician.  
Exception: Model PT 7136 is only available in 208V.
- Proper connection is 3 live and 1 ground (no neutral).
- A power cord is supplied only with the PT 7136.
- The PT 7136 is convertible to single phase (2AC 208V 60 Hz 30 A). For more information contact Miele Technical Service.
- All connections are made at the terminal block at the rear of the machine.  
The terminal block is inside the machine.

### Vent Connection:



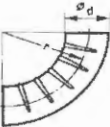
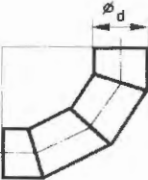
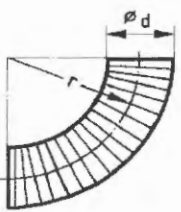
- See, "Calculation of air outlet, air inlet and ventilation cross sections".
- Dryer vents must adhere to machine specifications.

### Check phasing:

- Dryer exhaust has outward air flow.
- The dryer door will be more difficult to open when the unit is in operation. Once the cycle starts a vacuum will occur, creating suction to the door of the dryer.

## Calculation of air outlet, air inlet and ventilation cross sections





**Table 1**  
Substitute pipe lengths (inches)

Shape of bend	Substituted pipe length (inches)
	PT 7136 PT 7251 PT 8337 PT 8407 PT 8507
 <p>90° Round bend <math>r = 2 d</math></p> <p>45° Round bend <math>r = 2 d</math></p>	<p>43 <sup>5</sup>/<sub>16</sub>"</p> <p>27 <sup>9</sup>/<sub>16</sub>"</p>
 <p>90° Round bend <math>r = d</math></p> <p>45° Round bend <math>r = d</math></p>	<p>74 <sup>13</sup>/<sub>16</sub>"</p> <p>43 <sup>5</sup>/<sub>16</sub>"</p>
 <p>90° Concertina bend <math>r = 2 d</math></p> <p>45° Concertina bend <math>r = 2 d</math></p>	<p>126"</p> <p>78 <sup>3</sup>/<sub>4</sub>"</p>
 <p>90° Segmented bend (3 welded seams) <math>r = 2 d</math></p> <p>45° Segmented bend (3 welded seams) <math>r = 2 d</math></p>	<p>47 <sup>1</sup>/<sub>4</sub>"</p>
 <p>90° Westerflex pipe bend <math>r = d</math> <math>r = 2 d</math> <math>r = 4 d</math></p> <p>45° Westerflex pipe bend <math>r = d</math> <math>r = 2 d</math> <math>r = 4 d</math></p>	<p>47" 35 <sup>7</sup>/<sub>16</sub>"</p> <p>39 <sup>3</sup>/<sub>8</sub>" 31"</p>

## Calculation of air outlet, air inlet and ventilation cross sections

**Table 3**

Room ventilation inlet aperture in relation to the cross section of the air outlet pipe when drawing air in from the room where the appliance is installed.

Air outlet pipe			Ventilation aperture (minimum dimension)		
 (in)	 (in)	A (sq in)	A (sq in)	 (in)	 (in)
2		6	18	4 <sup>13</sup> / <sub>16</sub>	4 <sup>1</sup> / <sub>4</sub>
	2	7 <sup>9</sup> / <sub>16</sub>	22 <sup>13</sup> / <sub>16</sub>	5 <sup>3</sup> / <sub>8</sub>	4 <sup>13</sup> / <sub>16</sub>
3 <sup>1</sup> / <sub>8</sub>		7 <sup>3</sup> / <sub>4</sub>	23 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>2</sub>	4 <sup>13</sup> / <sub>16</sub>
	3 <sup>1</sup> / <sub>8</sub>	10	29 <sup>3</sup> / <sub>4</sub>	6 <sup>13</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>2</sub>
3 <sup>9</sup> / <sub>16</sub>		10	29 <sup>3</sup> / <sub>4</sub>	6 <sup>13</sup> / <sub>16</sub>	5 <sup>1</sup> / <sub>2</sub>
	3 <sup>9</sup> / <sub>16</sub>	12 <sup>9</sup> / <sub>16</sub>	37 <sup>11</sup> / <sub>16</sub>	6 <sup>15</sup> / <sub>16</sub>	6 <sup>1</sup> / <sub>8</sub>
4		12 <sup>7</sup> / <sub>16</sub>	36 <sup>3</sup> / <sub>4</sub>	6 <sup>7</sup> / <sub>8</sub>	6 <sup>1</sup> / <sub>16</sub>
	4	15 <sup>1</sup> / <sub>2</sub>	46 <sup>1</sup> / <sub>2</sub>	7 <sup>3</sup> / <sub>4</sub>	6 <sup>7</sup> / <sub>8</sub>
4 <sup>5</sup> / <sub>16</sub>		14 <sup>3</sup> / <sub>4</sub>	40	7 <sup>1</sup> / <sub>2</sub>	6 <sup>5</sup> / <sub>8</sub>
	4 <sup>5</sup> / <sub>16</sub>	18 <sup>3</sup> / <sub>4</sub>	56 <sup>1</sup> / <sub>4</sub>	8 <sup>7</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>2</sub>
4		17 <sup>1</sup> / <sub>2</sub>	52 <sup>9</sup> / <sub>16</sub>	8 <sup>3</sup> / <sub>16</sub>	7 <sup>1</sup> / <sub>4</sub>
	4	22 <sup>5</sup> / <sub>16</sub>	67	9 <sup>1</sup> / <sub>4</sub>	8 <sup>3</sup> / <sub>16</sub>
5 <sup>1</sup> / <sub>8</sub>		20 <sup>5</sup> / <sub>8</sub>	61 <sup>7</sup> / <sub>8</sub>	8 <sup>7</sup> / <sub>8</sub>	7 <sup>7</sup> / <sub>8</sub>
	5 <sup>1</sup> / <sub>8</sub>	26 <sup>3</sup> / <sub>16</sub>	78 <sup>9</sup> / <sub>16</sub>	10	8 <sup>7</sup> / <sub>8</sub>
5		23 <sup>7</sup> / <sub>8</sub>	71 <sup>5</sup> / <sub>8</sub>	9 <sup>9</sup> / <sub>16</sub>	8 <sup>7</sup> / <sub>16</sub>
	5	30 <sup>3</sup> / <sub>8</sub>	91 <sup>1</sup> / <sub>8</sub>	10 <sup>13</sup> / <sub>16</sub>	9 <sup>9</sup> / <sub>16</sub>
6		27 <sup>7</sup> / <sub>16</sub>	83 <sup>5</sup> / <sub>16</sub>	10 <sup>1</sup> / <sub>4</sub>	9 <sup>1</sup> / <sub>16</sub>
	6	34 <sup>7</sup> / <sub>8</sub>	104 <sup>5</sup> / <sub>8</sub>	11 <sup>5</sup> / <sub>8</sub>	10 <sup>1</sup> / <sub>4</sub>
7 <sup>1</sup> / <sub>16</sub>		39 <sup>3</sup> / <sub>8</sub>	118 <sup>1</sup> / <sub>8</sub>	12 <sup>3</sup> / <sub>8</sub>	11
	7 <sup>1</sup> / <sub>16</sub>	50 <sup>1</sup> / <sub>4</sub>	145 <sup>13</sup> / <sub>16</sub>	14	12 <sup>3</sup> / <sub>8</sub>
7 <sup>7</sup> / <sub>8</sub>		48 <sup>11</sup> / <sub>16</sub>	146	13 <sup>3</sup> / <sub>4</sub>	12 <sup>3</sup> / <sub>16</sub>
	7 <sup>7</sup> / <sub>8</sub>	62	186	15 <sup>9</sup> / <sub>16</sub>	13 <sup>3</sup> / <sub>4</sub>
8 <sup>11</sup> / <sub>16</sub>		58 <sup>7</sup> / <sub>8</sub>	176 <sup>11</sup> / <sub>16</sub>	15	14 <sup>13</sup> / <sub>16</sub>
	8 <sup>11</sup> / <sub>16</sub>	75	225 <sup>1</sup> / <sub>16</sub>	16 <sup>15</sup> / <sub>16</sub>	15 <sup>1</sup> / <sub>16</sub>
9 <sup>13</sup> / <sub>16</sub>		76 <sup>1</sup> / <sub>8</sub>	228 <sup>5</sup> / <sub>16</sub>	17 <sup>1</sup> / <sub>8</sub>	15 <sup>3</sup> / <sub>16</sub>
	9 <sup>13</sup> / <sub>16</sub>	96 <sup>7</sup> / <sub>8</sub>	290 <sup>5</sup> / <sub>8</sub>	19 <sup>5</sup> / <sub>16</sub>	17 <sup>1</sup> / <sub>8</sub>
11 <sup>13</sup> / <sub>16</sub>		109 <sup>9</sup> / <sub>16</sub>	328 <sup>1</sup> / <sub>4</sub>	20 <sup>1</sup> / <sub>2</sub>	18 <sup>1</sup> / <sub>8</sub>
	11 <sup>13</sup> / <sub>16</sub>	139 <sup>1</sup> / <sub>2</sub>	418 <sup>1</sup> / <sub>2</sub>	23 <sup>1</sup> / <sub>4</sub>	20 <sup>1</sup> / <sub>2</sub>

If the dryer is connected to a piped central air intake, then additional ventilation openings in the room are not usually required.

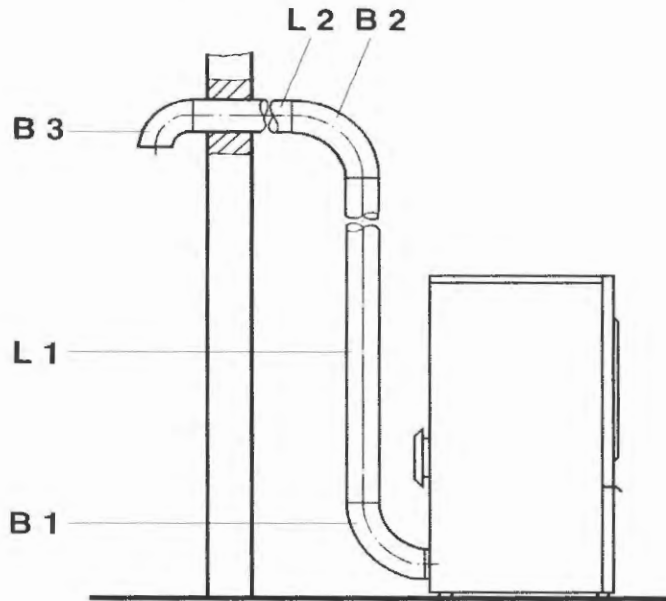


## Connection of air intake and venting systems

### Example 1

Calculating ventilation pipe in metal piping for Tumble Dryer T 8507

L1, L2 each 9' 10 1/8" metal piping  
 B1, B2 each 90° Concertina bend (r=2d)  
 B3 90° Round bend (r=d)



### 1. Effective length of piping

Metal pipe	L1 = 9' 10 1/8"	
Metal pipe	L2 = 9' 10 1/8"	
90° concertina bend (r = 2d)	B1 = 7' 10 1/2" *	* Extra pipe length according to <b>Table 1</b>
90° concertina bend (r = 2d)	B2 = 7' 10 1/2" *	
90° round bend (r = d)	B3 = 10' 2 1/16" *	

**Total effective pipe length** = 45' 7 1/4"

### 2. Pipe diameter in relation to the effective pipe length

The total effective pipe length for a T 8507 is calculated as 45' 7 1/4", this requires a minimum internal diameter of 6" for the venting ductwork, (see Table 2).

## Technical data for Dryers

Dryers	<b>PT 7136</b>	<b>PT 7251</b>	<b>T 8337</b>
Load Capacity - Laundry	15 lbs/6.5 kg	23 lbs/10 kg	30 lbs/13 kg
Heating Type	Electric	Electric	Electric
Machine Exterior - Front	Stainless Steel	Stainless Steel	Stainless Steel
Machine Exterior - Lid and sides	Stainless Steel	Octoblu powder coat, galvanized	Octoblu powder coat, galvanized
Machine Dimensions	33.5" H	55.12" H	55.12" H
	23.5" W	35.67" W	35.67" W
	27.6" D	32.91" D	40.12" D
Drum Volume	34 gallons/ 130 liters	66 gallons/ 250 liters	85.9 gallons/ 325 liters
Drum Dimensions	22" Ø	33.5" Ø	33.5" Ø
	22" deep	17.6" deep	22.9" deep
Drum Type	Honeycomb™ Stainless Steel	Honeycomb™ Stainless Steel	Honeycomb™ Stainless Steel
Control Type	Profitronic Plus	Profitronic M	Profitronic M
Net Weight	130 lbs/ 58 kg	346 lbs/ 157 kg	364 lbs/ 165 kg
Electrical Connection - Standard	3 AC 208 V 60 Hz	3 AC 230 V 60 Hz	3 AC 230 V 60 Hz
Electrical Connection* - Optional	208 V 60Hz 2 x 30	3 AC 208 V	3 AC 208 V
Fuse rating	3 x 30	3 x 50	3 x 50
Total Rated Load	6.4 kW	14.3 kW	18.8 kW
Vent diameter	4"	6"	6"
Evaporation Rate	3.4 fl oz/minute	7.5 fl oz/ minute	10 fl oz/minute

\* Some electrically heated units with a 230 V connection can be converted to 208 V.

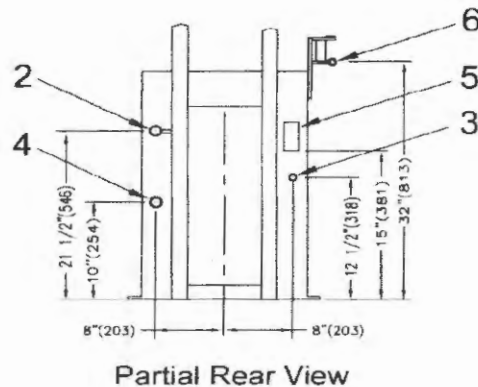
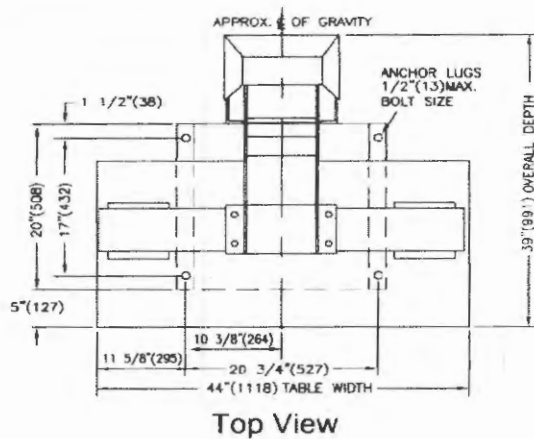
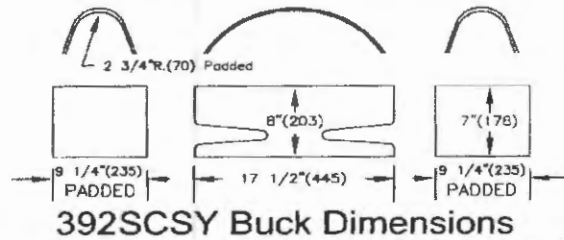
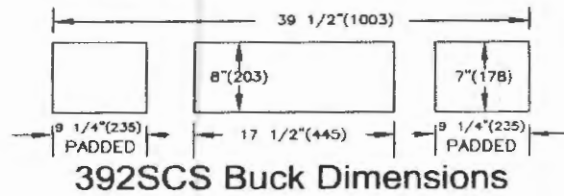
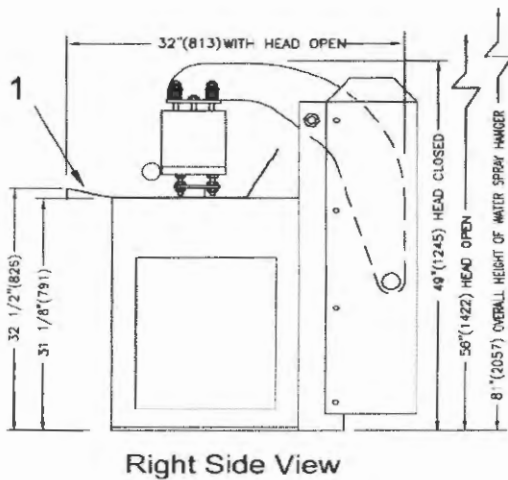


# Specifications

## Models 392SCS/SCSY

Electrical connections		392SCS SCSY
Voltage	120V 1PH 50/60Hz .5amps	Standard
Voltage	230V 1PH 50/60Hz .25amps	optional
Steam and Air connection		
Steam Inlet	NPT	1/2"
Steam Outlet	NPT	1/2"
Rec. steam pressure	PSIG	110-125
	KPa	758-861
Steam consumption	BHP	1
	kg/hr	15.6
Compressed air	NPT	3/8"
Air consumption	free air/cycle	0.8 CU.FT.
	free air/cycle	27 liters
Rec. air pressure	PSIG	60
	KPa	414
Water connection	NPT	1/4"
Weight (crated)		
Shipping	lbs	708
	kg	321
1	Control Push Buttons	4
2	Steam connection	5
3	Air connection	6
	Steam Outlet connection	
	Electrical Connection	
	Water Connection (for water spray only)	

### Detail Line Drawing (millimeters shown in parentheses)



<b>Elektrischer Anschluss</b>	1~ / N / PE (Mittelleiter und Schutzleiter nach VDE getrennt)
V	200...240
Hz	50-60
kW	2,2
A	
Netzseitige Absicherung	16 A
Dampfanschluss	½" / max. 6,5 bar
Kondensatanschluss	½"
Druckluftanschluss	DN 6 / 6 bar
<b>Maße und Gewicht</b>	
Länge	1350 mm (inkl. Kondensatabscheider)
Breite	max. 2430 mm (bei ausgefahrenen Ärmelspannern)
Höhe	1660 mm
Gewicht	290 kg
Schalldruckpegel (gemessen in 1 m Abstand und 1,6 m Höhe)	Dämpfen: 83 dB(A) Trocknen: 69 dB(A)

<b>Electrical connection</b>	<i>1~ / N / PE (neutral wire and earthed conductor separated according to VDE regulations)</i>
V	200...240
Hz	50-60
kW	2,2
A	
Fuse protection	16 A
Steam connections	½" / max. 6,5 bar
Condensate connections	½"
Compressed air connection	DN 6 / 6 bar
<b>Dimensions and Weight</b>	
Length	1350 mm / 53.2 inch (incl. condensate trap)
Width	max. 2430 mm / 95.7 inch (sleeve tensioners moved out)
Height	1660 mm / 65.4 inch
Weight	290 kg / 638.7 lbs
Sound intensity level (height 1.6 m, 1 m from the front edge)	Steaming: 83 dB(A) Drying: 69 dB(A)

**Elektrischer Anschluss:**

V	400
Hz	50
kW	0,55
A	1,8
Netzseitige Absicherung	16 A
Anschlusskabel	Länge: 4 m mit CEE-Stecker
Luftmenge max.	1000 m <sup>3</sup> /h
Gewicht	115 kg
Bügelfläche	500 x 1388 mm
Schalldruckpegel (1,6 m Höhe; 0,5 m Abstand von Vorderkante)	DOB CR 2: Saugen = 75 dB (A), Blasen = 75 dB (A) DOB schmal: Saugen = 69 dB (A), Blasen = 73 dB (A)

**Electrical connection**

V	400
Hz	50
kW	0,55
A	1,8
Fuse protection	16 A
Connection cable	Length: 4 m with CEE plug
Exhaust air volume max.	1000 m <sup>3</sup> /h
weight	115 kg
Ironing buck	500 x 1388 mm
Sound pressure level (height 1.6 m; distance 0.5 m from the front of the unit)	DOB CR2: Suction = 75 dB (A), Blowing = 75 dB (A) DOB narrow: Suction = 69 dB (A), Blowing = 73 dB (A)

**Elektrischer Anschluss**

V	
Hz	
kW	9,75
A	
Netzseitige Absicherung	25 A
Dampfanschluss	1/2"; max. 5 bar
Kondensatanschluss	1/2"
Druckluftanschluss	6 bar - Schlauchtülle di = 6 mm
Sattdampfleistung	11,7 kg/h
Zulässiger Betriebsüberdruck	5-6 bar
Kesselvolumen	6,5 l
Wasserinhalt (NW)	3,0 l
Wasseranschluss	R1/2" max. 10 bar
<b>Maße und Gewicht</b>	
Höhe	700 mm
Breite	920 mm
Tiefe	800 mm
Gewicht	190 kg
Schalldruckpegel: (gemessen in 1 m Abstand und 1,6 m Höhe)	Dämpfen: 85 dB (A) Blasen: 75 dB (A)

**Electrical connection**

V	
Hz	
kW	9,75
A	
Fuse protection	25 A
Steam connection	1/2"; max. 5 bar
Condensate connection	1/2"
Compressed air connection	6 bar - hose nozzle diameter inside 6 mm
Capacity of saturated steam	11,7 kg/h
Admissible operating overpressure	5-6 bar
Boiler volume	6,5 l
Water contents (min. water level)	3,0 l
Water connection	R1/2" max. 10 bar
<b>Dimensions and weight</b>	
Height	700 mm / 27.6 inch
Width	920 mm / 36 inch
Depth	800 mm / 31.5 inch
Weight	190 kg / 418.5 lbs
Sound intensity level: (height 1.6 m, 1 m from the front edge)	Steaming: 85 dB (A) Blowing: 75 dB (A)

	mit Detachierarm	ohne Detachierarm
<b>Elektrischer Anschluss</b>		
V	230	230
Hz	50	50
kW	0,85	0,3
A	4	1
<b>Netzseitige Absicherung</b>		
Luftmenge: Dauerabsaugung	1000 m³/h	1000 m³/h
Luftmenge: Detachierarm	500 m³/h	---
Druckluftanschluss	2-10 bar empfohlen: 6 bar	2-10 bar empfohlen: 6 bar
<b>Schalldruckpegel</b> 1,6 m Höhe, 1 m Abstand von Vorderkante	Dauerabsaugung und Absaugung am Detachierarm: 69 dB	Dauerabsaugung 61 dB
<b>Maße und Gewichte</b>		
Höhe (zusammengebaut)	1780 mm	1780 mm
Breite	1280 mm	1200 mm
Tiefe	880 mm	880 mm
Gewicht	110 kg	100 kg
	<b>with spotting arm</b>	<b>without spotting arm</b>
<b>Electrical connection</b>		
V	230	230
Hz	50	50
kW	0,85	0,3
A	4	1
<b>Fuse protection</b>		
air volume: spotting surface	1000 m³/h	1000 m³/h
air volume: spotting arm	500 m³/h	---
Compressed air connection	2-10 bar recommended: 6 bar	2-10 bar recommended: 6 bar
<b>sound intensity level</b> height 1.6 m, 1 m from the front edge	continuous suction and suction at the spotting arm: 69 dB	continuous suction: 61 dB
<b>Dimensions and Weight</b>		
height (assembled)	1780 mm / 70 inch	1780 mm / 70 inch
width	1280 mm / 50.4 inch	1200 mm / 47.2 inch
depth	880 mm / 34.6 inch	880 mm / 34.6 inch
weight	110 kg / 242 lbs	100 kg / 220 lbs



# Specifications

Models ICS/ICX/FB		6	9.5	10	15	20	25	30	50	60
<b>Boiler Connections</b>										
N. Steam Outlet 15 PSI		1" NPT	N/A	1.5" NPT	2" NPT	3" CL150# Flange	3" CL150# Flange	3" CL150# Flange	4" CL150# Flange	4" CL150# Flange
N. Steam Outlet 150 PSI		0.75" NPT	1" NPT	1" NPT	1.25" NPT	1.5" NPT	2" NPT	2" NPT	3" CL150# Flange	3" CL150# Flange
O. Safety Valve Outlet 15 PSI	IN	0.75	N/A	0.75	1.25	1.5	1.5	1.5	1.5	1.5
	MM	19		19	32	38	38	38	38	38
O. Safety Valve Outlet 150 PSI+ (9.5 HP 100 PSI)	IN	1	1	1	1	1	1	1	1.25	1.25
	MM	25	25	25	25	25	25	25	32	32
P. Safety Valve Inlet 15 PSI++	IN	0.75	N/A	0.75	1	1.25	1.25	1.25	1.25	1.25
	MM	19		19	25	32	32	32	32	32
P. Safety Valve Inlet 150 PSI (9.5 HP 100 PSI)	IN	0.75	0.75	0.75	0.75	0.75	0.75	0.75	1	1
	MM	19	19	19	19	19	19	19	25	25
Q. Feedwater Inlet	IN	0.75	1	1	1	1	1	1	1	1
	MM	19	25	25	25	25	25	25	25	25
R. Blowdown Outlet	IN	1	1	1	1	1.25	1.25	1.25	1.5	1.5
	MM	25	25	25	25	32	32	32	38	38
S. Water Column Blowdown	IN	1	1	1	1	1	1	1	1	1
	MM	25	25	25	25	25	25	25	25	25
Ratings* (Sea level to 3000 ft.)										
Output	1000 BTU/HR	201	318	335	503	670	838	1005	1674	2009
	1000 KCAL/HR	50.7	80.1	84.4	127	169	211	253	422	506
Steam Output	LB/HR	207	328	345	518	690	863	1035	1725	2070
	KG/HR	94	149	157	235	313	392	470	785	942
Approximate Fuel Consumption at Rated Capacity+++										
Light Oil	GPH	1.8	2.8	3.0	4.5	6.0	7.5	9.0	15.0	17.9
	LPH	6.8	10.6	11.4	17	22.7	28.4	34.1	56.8	67.8
Propane Gas (ICS)	FT3/HR	100	159	168	251	335	419	502	837	1004
(14" w.c. req'd)	M3/HR	2.8	4.5	4.8	7.1	9.5	11.9	14.2	23.7	28.4
Propane Gas (ICX)	FT3/HR	97		161	242	323	404	484		
(14" w.c. req'd)	M3/HR	2.7	N/A	4.6	6.9	9.1	11.4	13.7		
Natural Gas (ICS)	FT3/HR	257	398	419	628	837	1047	1256	2093	2511
(7" - 11" w.c. req'd)	M3/HR	7.1	11.3	11.9	17.8	23.7	29.7	35.4	59.3	71.1
Natural Gas (ICX)	FT3/HR	242	384	403	606	807	1009	1210		
(7" - 11" w.c. req'd)	M3/HR	6.9	10.8	11.4	17.2	22.9	28.6	34.3		
Natural Gas Boiler	IN	1	1	1	1	1.25	1.25	1.5	1.5	2
Connection Size (Std CSD-1)	MM	25	25	25	25	32	32	38	38	51
Oil Inlet Size	IN	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
	MM	6	6	6	6	6	6	6	6	6
Burner	3450 RPM/60 CY					1/3 gas	1/3 gas		1.5 gas	1.5 gas
Motor HP	2850 RPM/50 CY	1/3	1/3	1/3	1/3	3/4 oil	3/4 oil	3/4	2 oil	2 oil
Electric Power Requirements - Burner Only (in Amps) ***										
120V, 60 CY, 1 Phase		5.2	5.2	5.2	5.2	5.2 gas 9.2 oil	5.2 gas 9.2 oil	9.2	--	--
240V, 50/60 CY, 1 Phase		2.6	2.6	2.6	2.6	2.6 gas 4.6 oil	2.6 gas 4.6 oil	4.6	8.9 gas 9.5 oil	8.9 gas 9.5 oil
208V, 50/60 CY, 3 Phase		1.9	1.9	1.9	1.9	1.9 gas 3.1 oil	1.9 gas 3.1 oil	3.1	4.4 gas 5.7 oil	4.4 gas 5.7 oil
240V, 50/60 CY, 3 Phase		1.6	1.6	1.6	1.6	1.6 gas 2.8 oil	1.6 gas 2.8 oil	2.8	4.2 gas 5.4 oil	4.2 gas 5.4 oil
480V, 50/60 CY, 3 Phase		0.8	0.8	0.8	0.8	0.8 gas .4 oil	0.8 gas 1.4 oil	1.4	2.1 gas 2.7 oil	2.1 gas 2.7 oil
Water Content										
	U.S. GAL	16	16	24	39	77	82	170	245	270
	LITERS	61	61	91	148	292	310	644	927	1022

Specifications and Dimensions are approximate. We reserve the right to change specifications and/or dimensions. + High pressure boilers purchased with low pressure openings may have larger than specified opening sizes, consult factory for correct opening sizes. ++ 50 and 60 HP have two safety valves on low pressure. +++ Consumption based on light Oil 140,000 BTU/G; Natural Gas 1000 BTU/ft.<sup>3</sup>; Propane 2500 BTU/ft.<sup>3</sup>. \*All ratings from 0 PSIG and at 212 degrees F. \*\*\* Control circuit electrical requirement will vary with the system voltage, please consult factory. --Consult factory.



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