

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT

PERMIT ISSUED

This is to certify that WATERFRONT MAINE

Located At 254 COMMERCIAL

City of Portland

Job ID: 2011-02-420-HVAC

CBL: 041 - - A - 017 - 001 - - - -

has permission to Install LG VRF System on the roof & ceilings 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 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

Julie per B.W.

Fire Prevention Officer

[Signature] 3/11/11

Code Enforcement Officer / Plan Reviewer

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

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2011-02-420-HVAC	Date Applied: 2/11/2011	CBL: 041 - - A - 017 - 001 - - - - -	<div style="color: red; font-size: 2em; font-weight: bold;">PERMIT ISSUED</div> <div style="color: red; font-size: 1.5em; font-weight: bold;">MAR 18 2011</div> <div style="color: red; font-size: 1.2em; font-weight: bold;">City of Portland</div>	
Location of Construction: 254 COMMERCIAL	Owner Name: MAINE WATERFRONT	Owner Address: 14 MAINE ST BRUNSWICK, ME - MAINE 04011		
Business Name:	Contractor Name: DOYLE, RICHARD A	Contractor Address: 54 E KIDDER ST PORTLANDMAINE04103	Phone: 284-6360	
Lessee/Buyer's Name:	Phone:	Permit Type: HVAC - HVAC	Zone: WCZ	
Past Use: 1st floor marine related & offices above (#10-1205)	Proposed Use: Same: 1st floor marine related with office above – to add new HVAC systems	Cost of Work: 1099.00	CEO District:	
		Fire Dept: <input checked="" type="checkbox"/> Approved w/ conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group: B Type: HVAC ASHRAE 2.1.5 Signature: JMB	
Proposed Project Description: 254 Commercial Street / HVAC	Pedestrian Activities District (P.A.D.)			3/11/11
Permit Taken By:	Zoning Approval			

<p>1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.</p> <p>2. Building Permits do not include plumbing, septic or electrical work.</p> <p>3. Building permits are void if work is not started within six (6) months of the date of issuance. False informatin may invalidate a building permit and stop all work.</p>	<p>Special Zone or Reviews</p> <p><input type="checkbox"/> Shoreland</p> <p><input type="checkbox"/> Wetlands</p> <p><input type="checkbox"/> Flood Zone</p> <p><input type="checkbox"/> Subdivision</p> <p><input type="checkbox"/> Site Plan</p> <p><input type="checkbox"/> Maj <input type="checkbox"/> Min <input type="checkbox"/> MM</p> <p>Date: <i>ok with conditions</i> <i>3/17/11</i></p>	<p>Zoning Appeal</p> <p><input type="checkbox"/> Variance</p> <p><input type="checkbox"/> Miscellaneous</p> <p><input type="checkbox"/> Conditional Use</p> <p><input type="checkbox"/> Interpretation</p> <p><input type="checkbox"/> Approved</p> <p><input checked="" type="checkbox"/> Denied</p> <p>Date:</p>	<p>Historic Preservation</p> <p><input checked="" type="checkbox"/> Not in Dist or Landmark</p> <p><input type="checkbox"/> Does not Require Review</p> <p><input type="checkbox"/> Requires Review</p> <p><input type="checkbox"/> Approved</p> <p><input type="checkbox"/> Approved w/Conditions</p> <p><input type="checkbox"/> Denied</p> <p>Date: <i>[Signature]</i></p>
	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	PHON



041 A017

FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



emailed electronic to Lannie on 2/11/11

To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location / CBL 254-258 COMMERCIAL ST Use of Building OFFICE SPACE Date 11 FEB 2011

Name and address of owner of appliance WATERFRONT MAINE LLC, 14 MAINE ST. BRUNSWICK, ME. 04012

Installer's name and address ATLANTIC COMFORT SYSTEMS, INC, 392 HILL ST, PO BOX 665 BINGEFORD, ME 04005 Telephone 207 284 6360

Location of appliance:

- Basement
- Attic
- Floor
- Roof *CEILING*

Type of Fuel:

- Gas
- Oil
- Solid *ELECT*

Appliance Name: LC7 VRF SYSTEM

U.L. Approved Yes No

Will appliance be installed in accordance with the manufacture's installation instructions? Yes No

IF NO Explain: _____

The Type of License of Installer:

- Master Plumber # MS90012617
- Solid Fuel # _____
- Oil # _____
- Gas # PNT 1641
- Other _____

Type of Chimney:

NA Dick Doyle

- Masonry Lined
Factory built _____

- Metal
Factory Built U.L. Listing # _____

- Direct Vent
Type _____

Type of Fuel Tank NA

- Oil
- Gas

Size of Tank NA

Number of Tanks NA

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ 1,098,912.-

Permit Fee: \$ 11,010.-

RECEIVED

FEB 14 2011

Dept. of Building Inspections
City of Portland Maine

Approved

Approved with Conditions

Fire: _____

Ele.: _____

Bldg.: _____

- See attached letter or requirement

Inspector's Signature

Date Approved

Signature of Installer

Quail + ADS



PORTLAND MAINE

Strengthening a Remarkable City, Building a Community for Life www.portlandmaine.gov

PERMIT ISSUED

MAP 1 8 2011
Director of Planning and Urban Development
Penny St. Louis

City of Portland

Job ID: 2011-02-420-HVAC

Located At: 254 COMMERCIAL

CBL: 041 - - A - 017 - 001 - - - - -

Conditions of Approval:

Zoning

1. Cumulative sound levels shall not exceed 75 dBAs at the boundaries of the lot. Any future documented noise violations shall be addressed with appropriate mitigated actions to bring the noise violations into compliance with the Land Use Zoning Ordinance.
2. The WCZ Zone states that there shall not be an excess of 75 dBAs at the boundary lines of the property.

Fire

1. Installation shall comply with City Code Chapter 10.
2. Installation shall comply with NFPA 90A, *Standard for the Installation of Air-Conditioning and Ventilating Systems*; NFPA 91, *Standard for Exhaust Systems for Air Conveying Vapors, Gases, Mists, and Noncombustible Particulate Solids*; NFPA 70, *National Electrical Code*; and the manufacturer's published instructions.
3. A single source supplier should be used for all through penetrations.

Building

1. Separate permits are required for any electrical, plumbing, sprinkler, fire alarm, HVAC systems, heating appliances, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process
2. All penetrations through rated assemblies must be protected by an approved firestop system installed in accordance with ASTM 814 or UL 1479, per IBC 2009 Section 713.
3. Equipment must be installed in compliance per the manufacturer's specifications. Installation to comply with ASHRAE 62.1-2007 standards, smoke or fire dampers or combination F/S dampers shall be installed per code.



PORTLAND MAINE

Strengthening a Remarkable City, Building a Community for Life • www.portlandmaine.gov

PERMIT ISSUED

Director of Planning and Urban Development
Penny St. Louis

MAR 7 8 2011

Job ID: 2011-02-420-HVAC

Located At: 254 COMMERCIAL

CBL: 041 - - A - 017 - 001 - - - -

City of Portland

Conditions of Approval:

Zoning

1. Cumulative sound levels shall not exceed 75 dBAs at the boundaries of the lot. Any future documented noise violations shall be addressed with appropriate mitigated actions to bring the noise violations into compliance with the Land Use Zoning Ordinance.
2. The WCZ Zone states that there shall not be an excess of 75 dBAs at the boundary lines of the property.

Fire

1. Installation shall comply with City Code Chapter 10.
2. Installation shall comply with NFPA 90A, *Standard for the Installation of Air-Conditioning and Ventilating Systems*; NFPA 91, *Standard for Exhaust Systems for Air Conveying Vapors, Gases, Mists, and Noncombustible Particulate Solids*; NFPA 70, *National Electrical Code*; and the manufacturer's published instructions.
3. A single source supplier should be used for all through penetrations.

Building

1. Separate permits are required for any electrical, plumbing, sprinkler, fire alarm, HVAC systems, heating appliances, commercial hood exhaust systems and fuel tanks. Separate plans may need to be submitted for approval as a part of this process
2. All penetrations through rated assemblies must be protected by an approved firestop system installed in accordance with ASTM 814 or UL 1479, per IBC 2009 Section 713.
3. Equipment must be installed in compliance per the manufacturer's specifications. Installation to comply with ASHRAE 62.1-2007 standards, smoke or fire dampers or combination F/S dampers shall be installed per code.

BUILDING PERMIT INSPECTION PROCEDURES

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

or email: buildinginspections@portlandmaine.gov

PERMIT ISSUED

City of Portland

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.**

1. Close In Elec/Plmb/Framing
2. Final at completion of work

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 OCCUUPIED.

BUILDING PERMIT INSPECTION PROCEDURES

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

or email: buildinginspections@portlandmaine.gov

PERMIT ISSUED

MAR 1 2011

City of Portland

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.**

1. Close In Elec/Plmb/Framing
2. Final at completion of work

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.

Fire conditions

Installation shall comply with City Code Chapter 10.

Installation shall comply with NFPA 90A, *Standard for the Installation of Air-Conditioning and Ventilating Systems*; NFPA 91, *Standard for Exhaust Systems for Air Conveying Vapors, Gases, Mists, and Noncombustible Particulate Solids*; NFPA 70, *National Electrical Code*; and the manufacturer's published instructions.

A single source supplier should be used for all through penetrations.

Job Summary Report
Job ID: 2011-02-420-HVAC

Report generated on Feb 15, 2011 9:35:39 AM

Page 1

Job Type:	HVAC	Job Description:	254 Commercial Street / HVAC	Job Year:	2011
Building Job Status Code:	Initiate Plan Review	Pin Value:	657	Tenant Name:	
Job Application Date:		Public Building Flag:	N	Tenant Number:	
Estimated Value:	1,099	Square Footage:			
Related Parties:		MAINE WATERFRONT			
		RICHARD A. DOYLE - RICHARD DOYLE			

*Cumberland
Cold Storage
Property Owner*

PLUMBING CONTRACTOR

Job Charges

Fee Code Description	Charge Amount	Permit Charge Adjustment	Net Charge Amount	Payment Date	Receipt Number	Payment Amount	Payment Adjustment Amount	Net Payment Amount	Outstanding Balance
----------------------	---------------	--------------------------	-------------------	--------------	----------------	----------------	---------------------------	--------------------	---------------------

Location ID: 6220

Location Details

Alternate Id	Parcel Number	Census Tract	GIS X	GIS Y	GIS Z	GIS Reference	Longitude	Latitude
W09130	041 A 017 001		M				-70.253728	43.653624

Location Type	Subdivision Code	Subdivision Sub Code	Related Persons	Address(es)
1				254 COMMERCIAL STREET WEST

Location Use Code	Variance Code	Use Zone Code	Fire Zone Code	Inside Outside Code	District Code	General Location Code	Inspection Area Code	Jurisdiction Code
WAREHOUSE & STORAGE		NOT APPLICABLE	WCE <i>yes</i>				DISTRICT 2	CENTRAL BUSINESS DISTRICT

Structure Details

Structure: Heating System

Occupancy Type Code:

Structure Type Code	Structure Status Type	Square Footage	Estimated Value	Address
Office & Professional Buildings	0			254 COMMERCIAL STREET WEST

Longitude	Latitude	GIS X	GIS Y	GIS Z	GIS Reference	User Defined Property	Value
-----------	----------	-------	-------	-------	---------------	-----------------------	-------

Permit #: 20111273

Permit Data

2/11/11 → electronic

Job Summary Report
Job ID: 2011-02-420-HVAC

Report generated on Feb 15, 2011 9:35:39 AM

Page 2

Location Id	Structure Description	Permit Status	Permit Description	Issue Date	Reissue Date	Expiration Date
6220	Heating System	Initialized	Install LG VRF System on the roof & ceilings			

Inspection Details						
Inspection Id	Inspection Type	Inspection Result Status	Inspection Status Date	Scheduled Start Timestamp	Result Status Date	Final Inspection Flag

Fees Details								
Fee Code Description	Charge Amount	Permit Charge Adjustment	Permit Charge Adj Remark	Payment Date	Receipt Number	Payment Amount	Payment Adjustment Amount	Payment Adj Comment
HVAC Permit Fee	\$11,010.00							



Atlantic Comfort
Systems, Inc.

Cumberland Cold storage Building

392 Hill Street
P.O. Box 665
Biddeford
Maine 04005
207/284-6360
Fax 207/284-6377

The system to be installed is a variable refrigerant heat pump system and consists of 14 condensers, eight of which are mounted on the roof and the remainder on pads on the ground. There are one hundred and eleven ducted heads being served by the condensers.

There are also 8 exhaust fans and 16 Electric reheat duct coils.

Marge Schmuckal - Re: Merrill's Wharf Outside Units

From: "Dick Doyle" <dickdoyle@maine.rr.com>
To: "Marge Schmuckal" <MES@portlandmaine.gov>
Date: 2/17/2011 12:18 PM
Subject: Re: Merrill's Wharf Outside Units

Hi Marge,

You're correct. Totaling the unit (dB(A)) levels is not the right way to proceed. I'm not sure what the total decibel level would be if they were all running at the same time. Also, the per unit levels that I gave you is measured at 3.3 feet from the unit.

As you know there are two groups of units OU-11 through 15 are located on the ground on the NW corner of the building and the remainder or OU-1 through OU-10 and OU-16 are located on the roof.

I am definitely not the guy to answer questions about cumulative decibel levels at distances other than what's printed in the unit literature. The Engineer of record is Kurt Magnusson of Mechanical Systems Engineers out of Yarmouth. His phone number is 207-846-1441.

Thank you
 Dick

----- Original Message -----

From: Marge Schmuckal
To: Dick Doyle
Sent: Wednesday, February 16, 2011 3:07 PM
Subject: Re: Merrill's Wharf Outside Units

Thank you Dick.

However, I don't know how you totaled up the dBAs for the cumulative number. I know that is not one to one. The figures you gave me can not be correct. Jet engines are about 90 dBAs. Zoning would not let you install something that is 635 dBAs. People would not want to be near that building.

Can that be refigured? or at least only give me the individual dBAs for each unit.

>>> "Dick Doyle" <dickdoyle@maine.rr.com> 2/16/2011 8:44 AM >>>
 Marge,

Here are the (dB(A)) data that you requested. The units (OU) 1 through 14 are 58 (dB(A)) each. OU-15 is 52 (dB(A)) and OU-16 is 55 (dB(A)).

The ground mounted units on the NW corner of the building total 284 (dB(A)) and the roof mounted units total 635 (dB(A)).

Please let me know if you require any additional information.

Richard Doyle
 Estimator / Construction Manager
 Atlantic Comfort Systems, Inc.
 P (207) 284-6360
 F (207) 284-6377
dickdoyle@maine.rr.com

75 dBAS max at property
 long

Not correct

Not correct



ABOUT

PRODUCTS

ONLINE CATALOG

NEWSLETTER

RESOURCES

How-To

CONTACT

SEARCH OUR SITE

FIND:

SUBMIT

SIGN UP FOR SOUNDBITES

NAME:

EMAIL:

SUBMIT

Home > Resources > How-To's > Loudness

Checkout | My Account | Help

HOW-TO's

Decibel (Loudness) Comparison Chart

Here are some interesting numbers, collected from a variety of sources, that help one to understand the volume levels of various sources and how they can affect our hearing.

Environmental Noise	
Weakest sound heard	0dB
Whisper Quiet Library	30dB
Normal conversation (3-5')	60-70dB
Telephone dial tone	80dB
City Traffic (inside car)	85dB
Train whistle at 500', Truck Traffic	90dB
Subway train at 200'	95dB
<i>Level at which sustained exposure may result in hearing loss</i>	<i>90 - 95dB</i>
Power mower at 3'	107dB
Snowmobile, Motorcycle	100dB
Power saw at 3'	110dB
Sandblasting, Loud Rock Concert	115dB
<i>Pain begins</i>	<i>125dB</i>
Pneumatic riveter at 4'	125dB
<i>Even short term exposure can cause permanent damage - Loudest recommended exposure WITH hearing protection</i>	<i>140dB</i>
Jet engine at 100', Gun Blast	140dB
Death of hearing tissue	180dB
Loudest sound possible	194dB

OSHA Daily Permissible Noise Level Exposure	
Hours per day	Sound level
8	90dB
6	92dB
4	95dB
3	97dB
2	100dB
1.5	102dB
1	105dB
.5	110dB