

City of Portland, Maine - Building or Use Permit Application

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

Permit No: 05-1576	Issue Date: NOV 8 2005	CRL: 6 C005001
PERMIT ISSUED		
Owner Address: 777 STEVENS AVE	Phone:	
Contractor Address: 27 Main St. S. Portland	Phone: 207 672887	
Permit Type: HVAC	Zone:	

Location of Construction: 25 POLAND ST	Owner Name: HOME FOR THE AGED	Owner Address: 777 STEVENS AVE	Phone:
Business Name:	Contractor Name: Webber Energy Fuels	Contractor Address: 27 Main St. S. Portland	Phone: 207 672887
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	Zone:

Past Use: Multi-Family	Proposed Use: Multi-Family/ install 3 Propane Babfar Airheaters to maintain temp for exterior brick work	Permit Fee:	Cost of Work: \$0.00	CEO District: 4
Proposed Project Description: install 3 Propane Babfar Airheaters to maintain temp for exterior brick work		FIRE DEPT: <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Denied <i>w/ conditions</i>	INSPECTION: Use Group: <i>TEMP HEATING EQUIPMENT</i> Type:	

Signature: *Greg Cass* Signature: *[Signature]*

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action: Approved Approved w/Conditions Denied

Signature: _____ Date: _____

Permit Taken By: Idobson	Date Applied For: 10/27/2005	Zoning Approval	
-----------------------------	---------------------------------	------------------------	--

<ol style="list-style-type: none"> This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules. Building permits do not include plumbing, septic or electrical work. Building permits are void if work is not started within six (6) months of the date of issuance. False information may invalidate a building permit and stop all work.. 	Special Zone or Reviews <input type="checkbox"/> Shoreland <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone <input type="checkbox"/> Subdivision <input type="checkbox"/> Site Plan Maj <input type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: _____	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> Interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date: _____	Historic Preservation <input type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date: _____
---	---	---	---

CERTIFICATION

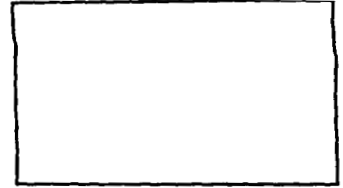
I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition,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

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE



FILL IN AND SIGN WITH INK

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



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 H6CS Use of Building Elderly Date 10-27-05
 Name and address of owner of appliance 25 Portland St Portland ME 04103
 Installer's name and address Webber Energy 27 Main St S. Portland
 Telephone 207-767-2837

Location of appliance:

- Basement
- Floor
- Attic
- Roof

Exterior

Type of Fuel:

- Gas
- Oil
- Solid

Propane

Appliance Name: Babbar Air heater

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 # _____
- Solid Fuel # _____
- Oil # _____
- Gas # _____
- Other _____

Type of Chimney:

- Masonry Lined
Factory built _____

- Metal
Factory Built U.L. Listing # _____

- Direct Vent
Type _____ UL# _____

Type of Fuel Tank

- Oil
- Gas

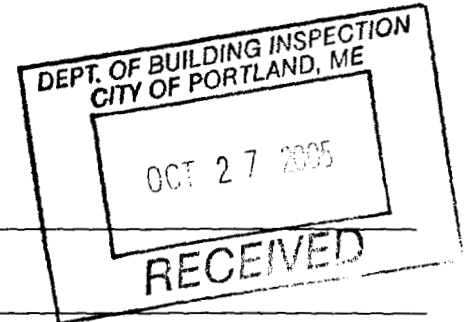
Size of Tank _____

Number of Tanks _____

Distance from Tank to Center of Flame _____ feet.

Cost of Work: \$ _____

Permit Fee: \$ 300.00



Approved

Fire: _____

Ele.: _____

Bldg.: _____

Approved with Conditions

- See attached letter or requirement

Inspector's Signature

Date Approved

Signature of Installer

[Handwritten Signature]

White - Inspection

Yellow - File

Pink - Applicant's

Gold - Assessor's Copy

City of Portland, Maine - Building or Use Permit

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

Permit No: 05-1576	Date Applied For: 10/27/2005	CBL: 146 C005001
------------------------------	--	----------------------------

Location of Construction: 25 POLAND ST	Owner Name: HOME FOR THE AGED	Owner Address: 777 STEVENS AVE	Phone:
Business Name:	Contractor Name: Webber Energy Fuels	Contractor Address: 27 Main St. S.Portland	Phone (207) 767-2837
Lessee/Buyer's Name	Phone:	Permit Type: HVAC	

Proposed Use: Multi-Family/ install 3 Propane Babfar Airheaters to maintain temp for exterior brick work	Proposed Project Description: install 3 Propane Babfar Airheaters to maintain temp for exterior brick work
--	--

Dept: Building	Status: Approved	Reviewer: Mike Nugent	Approval Date: 11/01/2005
Note:			Ok to Issue: <input checked="" type="checkbox"/>
Dept: Fire	Status: Approved with Conditions	Reviewer: Cptn Greg Cass	Approval Date: 10/27/2005
Note:			Ok to Issue: <input checked="" type="checkbox"/>
1) To comply with Nfpa 54 and as per previous discussion.			

ALLIED/COOK
CONSTRUCTION
Planners • Managers • Design/Builders
Building Excellence Since 1958

FAX

Fax to / Number: 874-8716

Attention: Hannie DOBSON

Date: 10/28/05

From: Bill HART 615-6739

Number of pages: 4 Project: Park Danforth

Additional comments:

NOISE LEVELS

MS

615-6739

Allied/Cook Construction

P.O. Box 1396
 Portland, Maine 04104
 PH: (207) 772-2888
 FAX: (207) 885-5135



FACSIMILE COVER PAGE

To: Bill	From: Jason Berry
Fax #: 1-207-797-0265	Fax #: 508-376-2089
Company: Allied Cook	Tel #: 508-376-5600

Subject: Noise Levels	
Sent: 10/28/2005 at 9:02:38 AM	Pages: 4 (including cover)

MESSAGE:

See Attached information on the noise levels.

WinFax PRO Cover Page

TO: Carol Hebb
(CA/T Project SBO Event Coordinator)

FROM: Erich Thalheimer
(CA/T Project Senior Noise Engineer)

DATE: 8 October 2003

RE: Noise Emission Level Tests for Babfar Model IDF2T Heater

In preparation for the ISBO Opening Event, Jim McDermott and I visited the offices of Babfar Equipment Corporation in Millis on 10/8/03 to perform noise emission measurements on their Model IDF2T Heater. We met with Babfar representatives Jason Berry and Dale Lambirth. This memo is intended to state the findings of the noise measurement tests and should not to be considered as an endorsement of the product by the Central Artery/Tunnel Project.

Test Specimen:

The heater under consideration is a Babfar Model IDF2T oil-fueled heater which is specified as producing 500,000 BTU at an air flow of 2,000 ACFM. The serial number of the particular test specimen was 85056154. The heater was placed on the ground outside Babfar's offices in their parking lot. The ground surface was acoustically reflective pavement and/or hard dirt. The heater in its housing is rectangular-box in shape of approximately 106" length x 33" width x 64" tall to its stack top. The combustion noise producing components were contained within the housing but the small motor or pump was only covered by grills.

Noise Instrumentation:

Noise measurements were performed perpendicular to each of the four sides of the heater at a distance of 25 feet. A CEL Instruments Model 593 Noise Analyzer (s/n 2/0481352) was used to collect the noise data in broadband and third-octave band format. When equipped with a Bruel & Kjaer Model 4189 Microphone (s/n 2096708) the CEL analyzer meets or exceeds ANSI S1.4 Standards for Type 1 accuracy. The analyzer was configured to measure Leq noise levels with an RMS fast time constant, and was calibrated in the field to 94.0 and 114.0 dB with a Bruel & Kjaer Model 4231 Acoustical Calibrator (s/n 2099917). Weather conditions were ideal for noise measurements; clear skies, calm winds, 75 deg.F, and no precipitation. The analyzer was mounted on a 5 foot tall tripod and a windscreen was used to protect the microphone.

Noise Test Results:

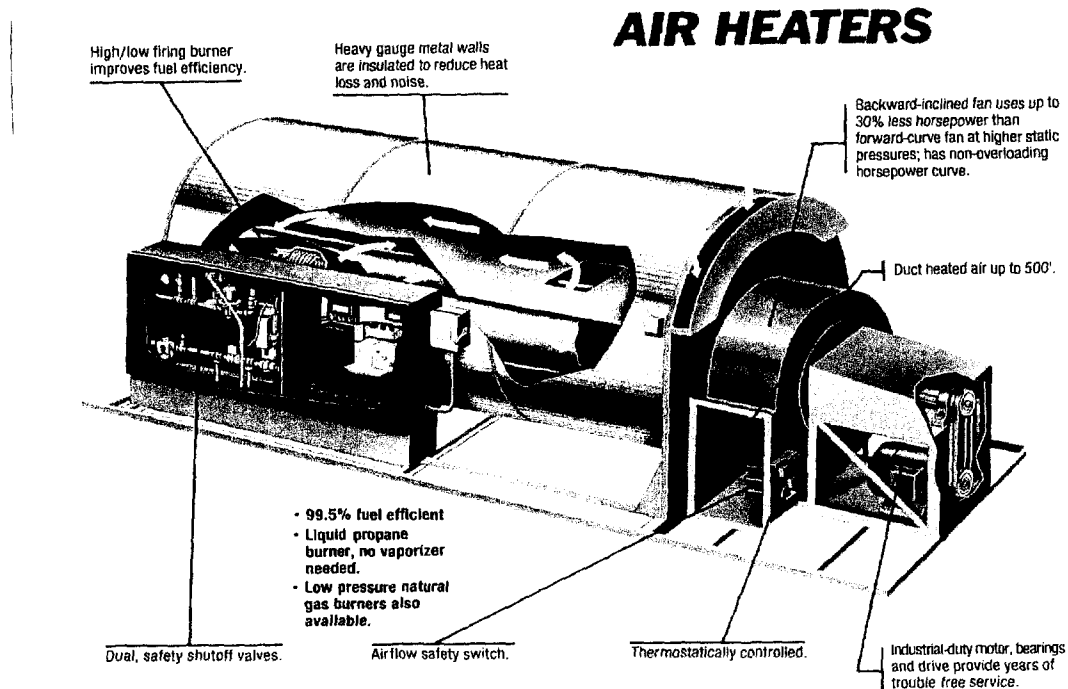
As shown in the attached table and graphical plot, noise emission levels were fairly smooth over the audible frequency spectrum with no particularly noticeable pure tone components. The resulting average sound pressure level (SPL) at 25 feet was 65.1 dBA re: 20 uPa, and the corresponding average sound power level (PWL) was 91.0 dBA re: 1pW. SPL is what human beings hear and must be reported with an associated distance. Conversely, PWL is a property of the source and is independent of the environment or distance from the source. Background noise conditions during the test were low enough as to not contribute to the measurement results. Determination of the item's suitability for our particular application will be made at a later time.

THE AIR HEATER DESIGN

BABFAR Equipment corporation has provided the construction industry with a safe and reliable source of temporary heating for more than **35 years**. We have offered only one style of heater for all of these years and it's the one that works for you. This style is the **positive pressure air heater**. All models are designed to take outside air heat it and fill the area to be heated.

The Design:

The direct fired heater is designed to be placed **outside** of your enclosure to utilize the **fresh outside air** to heat you space. **Direct firing** is the most efficient way to squeeze heat from fuel. Put simply, this **clean burning** technology uses all the fuel's energy to heat ... there is no chimney. The fuel is blended with **85% fresh make up air**. This allows you to **pressurize buildings** with the heated air and **eliminate problems with moisture** by providing a controlled air change. This is unlike other types of temporary heaters that claim a recirculation method to heat.



A sectional view showing the construction of the air heater and show the efficiency of the design

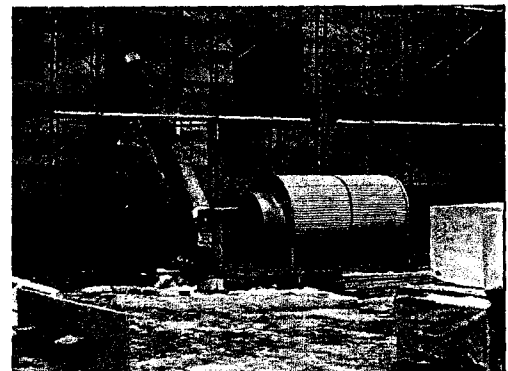


Providing over 35 years of service to the construction industry

Fuels: high or low pressure natural gas, liquid or vapor propane, #2 oil, steam and hot water.

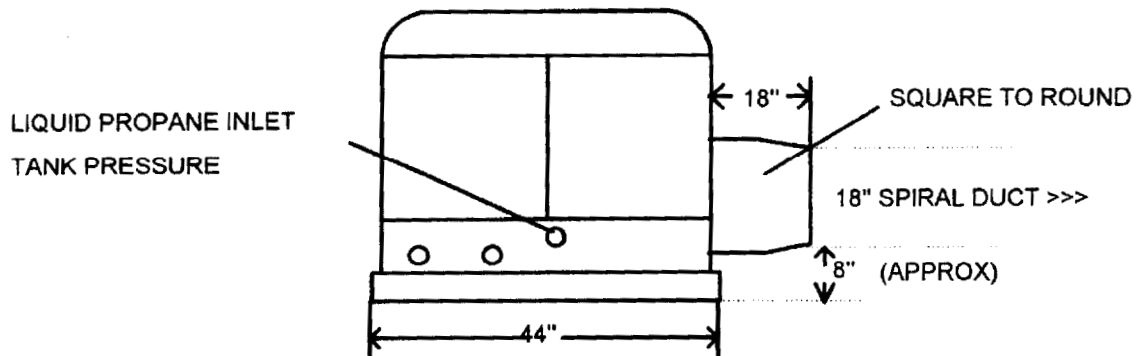
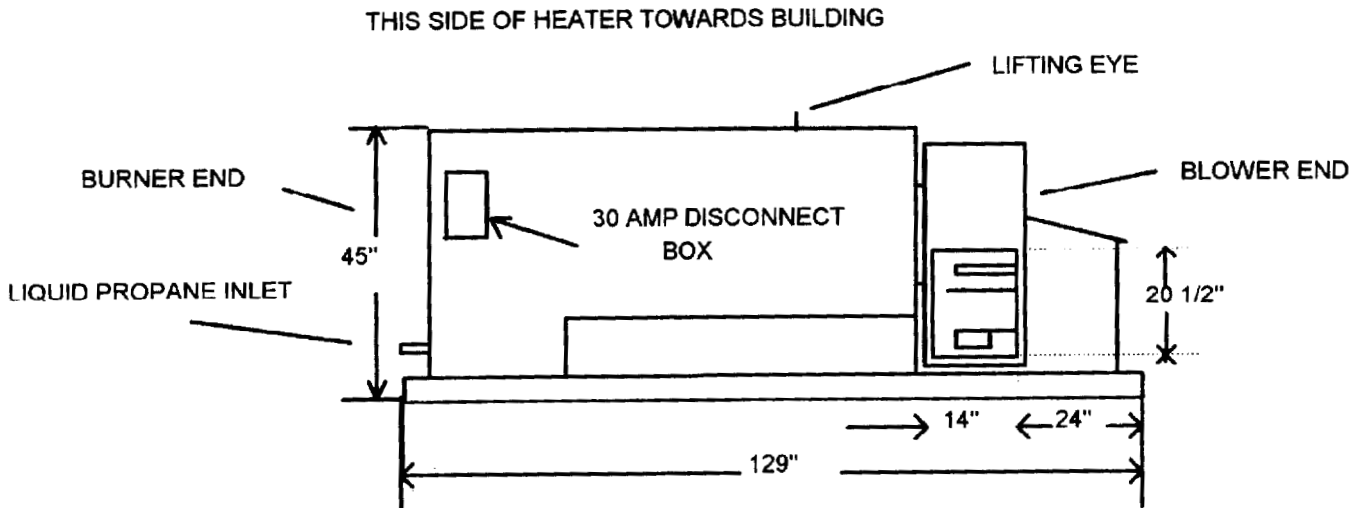
Outputs: 450,000 to 4.5 million BTU/HR, 1800 to 24,000 CFM.

1380 Main St • P.O. Box 307 • Millis, MA 02054
Ph: (800) 553-3554 • Fax: (508)376-2089
www.BABFAR.com • email: info@BABFAR.com



A typical installation

DF 6 LIQUID PROPANE



MODEL DF-6

LENGTH	129"	MOTOR H.P.	3 HP
WIDTH	44"	PHASE / VOLTAGE	1 PH. 220/3 PH 220/480
HEIGHT	45"	MIN. BREAKER SIZE	30 AMP
WEIGHT	1200 LBS	FUEL TYPE	LIQUID PROPANE
C.F.M.	6000	PRESSURE	TANK
MAX BTU'S	1,350,000	INLET SIZE	1/4" NPT