

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK



CITY OF PORTLAND BUILDING PERMIT

This is to certify that Vessell Services, Inc.

Located At 1 PORTLAND FISH PIER

Job ID: 2012-02-3206-HVAC

CBL: 041- A-001-002

has permission to Replace evaporator coils and add condensing units
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

BUILDING PERMIT INSPECTION PROCEDURES

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

or email: 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.**

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

Director of Planning and Urban Development
Penny St. Louis

Job ID: 2012-02-3206-HVAC

Located At: 1 PORTLAND FISH
PIER

CBL: 041- A-001-002

Conditions of Approval:

Zoning

1. This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.
2. This WCZ zone has maximum noise allowances. The City of Portland strictly enforces the level of sound generated on the property. Any verified noise violations shall require the owner to take mitigating measures to bring the property and the noise it generates into compliance.

Fire

Installation shall comply with City Code Chapter 10.

Installation shall comply with NFPA 211, *Standard for Chimneys, Fireplaces, Vents, and Solid Fuel-Burning Appliances*;

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.

City of Portland, Maine - Building or Use Permit Application

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

Job No: 2012-02-3206-HVAC	Date Applied: 2/3/2012	CBL: 041- A-001-002	
Location of Construction: 1 PORTLAND FISH PIER	Owner Name: VESSEL SERVICES INC	Owner Address: PORTLAND FISH PIER PORTLAND, ME 04101	Phone:
Business Name: Vessel Services	Contractor Name: Thayer Corporation	Contractor Address: 1400 Hotel Road, Auburn, ME 04210	Phone: 782-4197
Lessee/Buyer's Name:	Phone:	Permit Type: HVAC	Zone: WCZ
Past Use: Vessel Services/ Fish auction/wholesale and ice- making services	Proposed Use: Same: Vessel Services/ Fish auction/wholesale and ice- making services – to replace 5 evaporator coils connected to refrigeration system & provide 3 new roof condensing units	Cost of Work: \$166,000.00	CEO District:
		Fire Dept: <input checked="" type="checkbox"/> Approved w/conditions <input type="checkbox"/> Denied <input type="checkbox"/> N/A	Inspection: Use Group Type: <i>HWAC</i>
		Signature: <i>Capt. Rustone 2/3/12</i>	Signature: <i>[Signature]</i>
Proposed Project Description: refrigeration for vessel service		Pedestrian Activities District (P.A.D.)	
Permit Taken By: Gayle		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>[Signature]</i> 2/3/12</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 type="checkbox"/> Denied</p> <p>Date: <i>[Signature]</i></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		

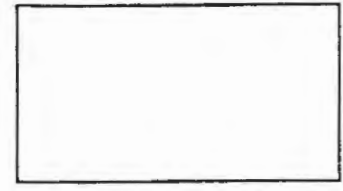
I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the appication 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



0012 023206
FILE IN AND SIGN WITH INK 68

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



WCE

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 041 A001 002 Use of Building Commercial Marine Sales Date 2-3-12
Name and address of owner of appliance Vessel Services, Inc. 7 Portland Fish Pier, Portland, ME 04101
207-772-5718
Installer's name and address Thayer Corporation, 1400 Hotel Rd, Auburn ME 04210
Telephone 207 782-4197

Location of appliance:
 Basement Floor
 Attic Roof

Type of Fuel: N/A
 Gas Oil Solid

Appliance Name: Kramer Thermobank
U.L. Approved Yes No

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

IF NO Explain: _____

Type of Chimney: N/A
 Masonry Lined
Factory built _____

Metal
Factory Built U.L. Listing # _____

Direct Vent
Type _____ UL# _____

Type of Fuel Tank: N/A RECEIVED
 Oil
 Gas FEB 03 2012

Size of Tank _____
Dept of Building Inspections
City of Portland, Maine

The Type of License of Installer:
 Master Plumber # _____
 Solid Fuel # _____
 Oil # _____
 Gas # _____
 Other 039403416
EPA Refrigerant

Number of Tanks _____

Distance from Tank to Center of Flame N/A feet.

Cost of Work: \$ 165,855

Permit Fee: \$ 3680

Approved

Approved with Conditions

Fire: _____
Ele.: _____
Bldg.: _____

See attached letter or requirement

Inspector's Signature

Date Approved

Signature of Installer _____

White - Inspection Yellow - File Pink - Applicant's Gold - Assessor's Copy

Code Enforcement
City of Portland
389 Congress Street
Portland, Maine 04101

February 3, 2012

Re: Vessel Services Refrigeration Permit

To Whom It May Concern,

We are reconfiguring and updating the ice storage refrigeration at Vessel Services located at 1 Portland Fish Pier in Portland.

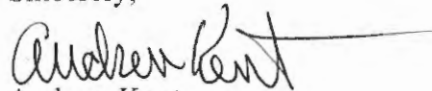
Our general scope of work is as follows:

- Replace (5) evaporator coils currently connected to central refrigeration system (coils located internal to building)
- Provide (3) roof-mounted condensing units to serve new evaporators (See Google Earth print showing equipment locations)
- Structural analysis was provided by The Sheridan Corporation, the original building constructor. (See attached letter and roof sketch showing equipment locations)
- Equipment cut sheets showing condensing unit dimensions and weights is included
- Sound data from the manufacturer is not published. Attached is a letter from the manufacturer's representative with an opinion on noise output.

If you require any additional information or clarification, please contact me at the number below.

Thank you for your consideration in this matter.

Sincerely,



Andrew Kent
Project Engineer



Google earth

feet
meters





The Sheridan Corporation

PO Box 359 Fairfield, ME 04937

Phone (207)453-9311

Fax (207)453-2820

www.sheridancorp.com

January 25, 2012

Andy Kent
Project Engineer
Thayer Corporation
1400 Hotel Road
Auburn, Maine 04201

RE: Vessel Services

The structural capacity of the roof at Vessel Services, 1 Portland Fish Pier, Portland, Me. was investigated in light of the company's need to add three rooftop mounted units to the lower roof area. The weights and approximate locations of the units were provided by the Thayer Corporation. Given this information, the roof support members were examined to determine if they would safely support these loads in the proposed locations. Our analysis indicates that this roof has adequate capacity to support these individual unit's loads in the proposed locations.

Sincerely,



THERMOBANK

0°F TO -40°F
SUCTION TEMPERATURE

PHYSICAL DATA - R-404A & R-507

MODEL	COMPRESSOR		COND FANS			CONNECTIONS		CHARGE LBS.		APPROX.
	CTT	QTY	MODEL NO.	QTY	DIA	HP	SUC OD	LIQ OD	UNIT ²	RECV ¹
0400L44	1	2DF-030E	2	24	1/2	1 1/8	1/2	8	30	700
0500L44	1	2DA-060E	2	24	1/2	1 3/8	1/2	8	30	880
0600L44	1	3DA-080E	2	24	1/2	1 3/8	1/2	10	30	950
0800L44	1	3DB-075E	2	24	1/2	1 5/8	5/8	10	30	1100
0900L44	1	3DF-090E	2	24	1/2	1 5/8	5/8	19	64	1120
1000L44	1	3DS-100E	2	24	1/2	1 5/8	5/8	19	64	1150
1200L44	1	4DA-101E	2	24	1/2	1 5/8	5/8	20	64	1230
1500L44	1	4DL-150E	3	24	1/2	1 5/8	7/8	21	71	1500
2200L44	1	4DT-220E	3	24	1/2	2 1/8	7/8	24	71	1870
2700L44	1	6DL-270E	3	24	3/4	2 1/8	7/8	27	71	2240
3100L44	1	6DT-300E	3	24	3/4	2 1/8	7/8	31	103	2890
4400L44	2a	4DT-220E	4	30	3/4	2 1/8	1 1/8	44	103	4030
5400L44	2a	6DL-270E	5	30	3/4	2 5/8	1 1/8	49	103	4580
6200L44	2a	6DT-300E	5	30	3/4	2 5/8	1 1/8	57	103	5930

¹ 2 Compressors piped in parallel. ² Receiver at 90% full. ³ Estimated refrigerant charge is for a condensing unit only. It does not include evaporators, interconnecting piping or other accessories.

ELECTRICAL DATA - R-404A & R-507

MODEL	230 - 3 - 60					460-3-60				
	COMPRESSOR		COND	UNIT		COMPRESSOR		COND	UNIT	
CTT	RLA	LRA	FLA	AMPS	MCA ³	RLA	LRA	FLA	AMPS	MCA ³
0400L44	18.8	102	8.0	25.8	30	8.1	52	4.0	12.6	15
0500L44	28.8	161	8.0	37.8	45	10.2	60	4.0	14.7	18
0600L44	30.3	150	8.0	39.3	47	13.7	77	4.0	18.2	22
0800L44	31.5	161	8.0	40.5	49	16.1	83	4.0	20.6	25
0900L44	39.0	215	8.0	48.0	58	16.9	106	4.0	21.4	26
1000L44	42.0	215	8.0	51.0	62	18.6	106	4.0	23.1	28
1200L44	45.2	220	8.0	54.2	66	22.6	110	4.0	27.6	34
1500L44	52.6	278	5.4	59.0	73	26.3	139	2.7	29.5	37
2200L44	66.0	374	5.4	72.4	89	33.0	187	2.7	36.2	45
2700L44	80.8	450	10.2	92.0	113	40.4	225	5.1	46.0	57
3100L44	95.6	470	10.2	106.8	131	47.8	235	5.1	53.4	66
4400L44	(2) 66.0	(2) 374	13.6	146.6	164	(2) 33.0	(2) 187	6.8	73.3	83
5400L44	(2) 80.8	(2) 450	17.0	179.6	200	(2) 40.4	(2) 225	8.5	89.8	101
6200L44	(2) 95.6	(2) 470	17.0	209.2	234	(2) 47.8	(2) 235	8.5	104.6	118

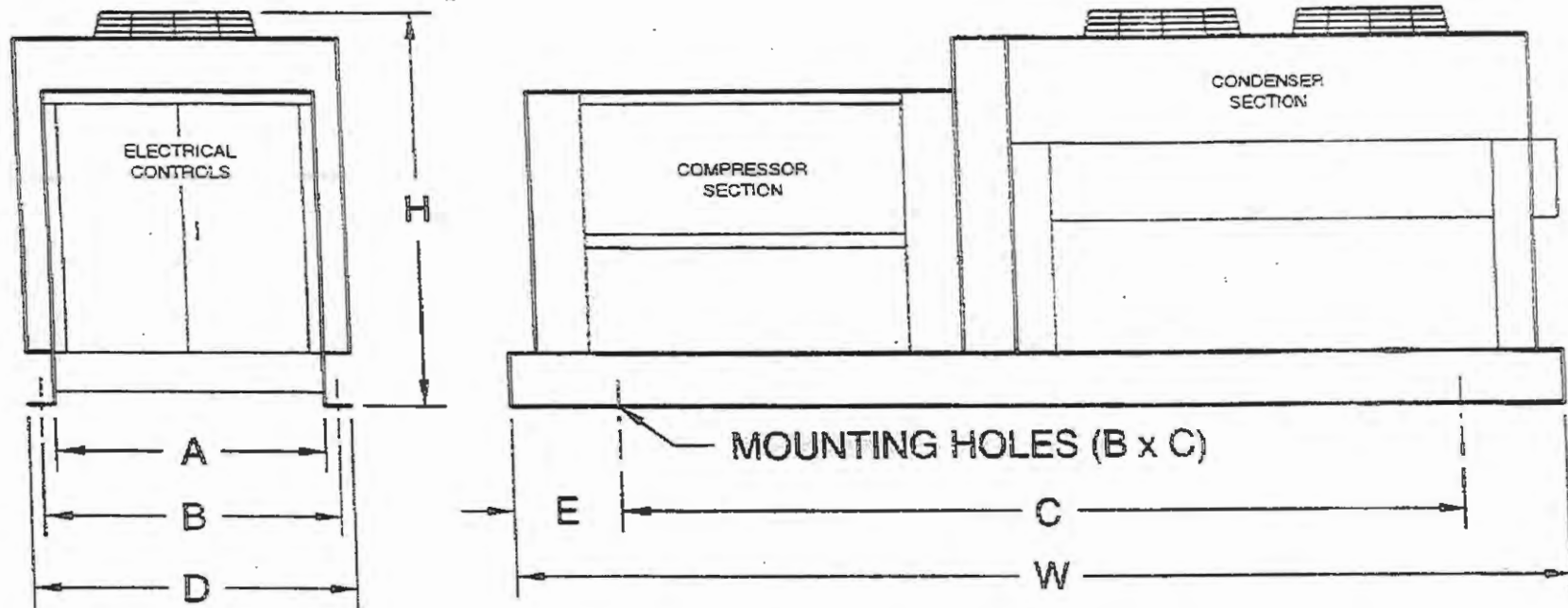
³ MCA does not include evaporator motors.

CAPACITY - BTUH @ 95°F AMBIENT

MODEL	SUCTION TEMPERATURE							
	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-40°F
0400L44	32700	29100	25700	22600	19700	17100	14700	10400
0500L44	42800	38400	34300	30400	26900	23600	20500	14900
0600L44	52500	47100	42000	37200	32800	28700	24900	18500
0800L44	60600	54900	48600	43400	38400	33700	29400	21600
0900L44	78100	69900	62300	55300	48700	42600	37100	27400
1000L44	82900	74700	67000	59700	52600	46400	40400	29800
1200L44	96100	86000	76800	68400	60700	53400	46500	33200
1500L44	113700	102400	92200	82700	73900	65700	57800	42400
2200L44	132000	119800	109200	98100	87500	77300	67600	49100
2700L44	169800	153700	138100	123100	108700	95200	82600	60400
3100L44	187300	169600	153900	136300	121700	106400	92700	69350
4400L44	267000	242100	218600	196300	175100	154800	135300	98300
5400L44	340500	307900	279100	248500	219400	192000	166400	121700
6200L44	373300	338000	306700	271650	242600	212100	184750	138200

AMBIENT CORR. FACTOR	
AMB.	404A
80°F	1.15
85°F	1.10
90°F	1.05
95°F	1.00
100°F	0.95
105°F	0.90

MODEL CTT DIMENSIONS SIZE 1500-6200



SIZE	OVERALL			MOUNTING		REFERENCE	
	H	W	D	B	C	A	E
1500L, 2200L, 2700L, 3100L	45	164	43 1/8	41	144 1/2	39	9
4400L	52 1/2	260	43 1/8	41	238	39	11
5400L, 6200L	64 1/2	276	57 7/8	56	256	53 1/4	10

Specifications, weights and dimensions subject to change without notice. All dimensions in inches.

THERMOBANK

0°F TO -40°F
SUCTION TEMPERATURE

PHYSICAL DATA - R-404A & R-507

MODEL CTT	COMPRESSOR		COND FANS			CONNECTIONS		CHARGE LBS.		APPROX.
	QTY	MODEL NO.	QTY	DIA	HP	SUC OD	LIQ OD	UNIT ²	RECV ¹	NET LBS.
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0800L44	1	3DB-075E	2	24	1/2	1 5/8	5/8	10	30	1100
0900L44	1	3DF-090E	2	24	1/2	1 5/8	5/8	19	64	1120
1000L44	1	3DS-100E	2	24	1/2	1 5/8	5/8	19	64	1150
1200L44	1	4DA-101E	2	24	1/2	1 5/8	5/8	20	64	1230
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5400L44	2a	6DL-270E	5	30	3/4	2 5/8	1 1/8	49	103	4580
6200L44	2a	6DT-300E	5	30	3/4	2 5/8	1 1/8	57	103	5930

¹ 2 Compressors piped in parallel. ² Receiver at 90% full. ³ Estimated refrigerant charge is for a condensing unit only. It does not include evaporators, interconnecting piping or other accessories.

ELECTRICAL DATA - R-404A & R-507

MODEL CTT	230 - 3 - 60					460-3-60				
	COMPRESSOR		COND	UNIT		COMPRESSOR		COND	UNIT	
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0800L44	31.5	161	8.0	40.5	49	16.1	83	4.0	20.6	25
0900L44	39.0	215	8.0	48.0	58	16.9	106	4.0	21.4	26
1000L44	42.0	215	8.0	51.0	62	18.6	106	4.0	23.1	28
1200L44	45.2	220	8.0	54.2	66	22.6	110	4.0	27.6	34
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2700L44	80.8	450	10.2	92.0	113	40.4	225	5.1	46.0	57
3100L44	95.6	470	10.2	106.8	131	47.8	235	5.1	53.4	66
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5400L44	(2) 80.8	(2) 450	17.0	179.6	200	(2) 40.4	(2) 225	8.5	89.8	101
6200L44	(2) 95.6	(2) 470	17.0	209.2	234	(2) 47.8	(2) 235	8.5	104.6	118

³ MCA does not include evaporator motors.

CAPACITY- BTUH @ 95°F AMBIENT

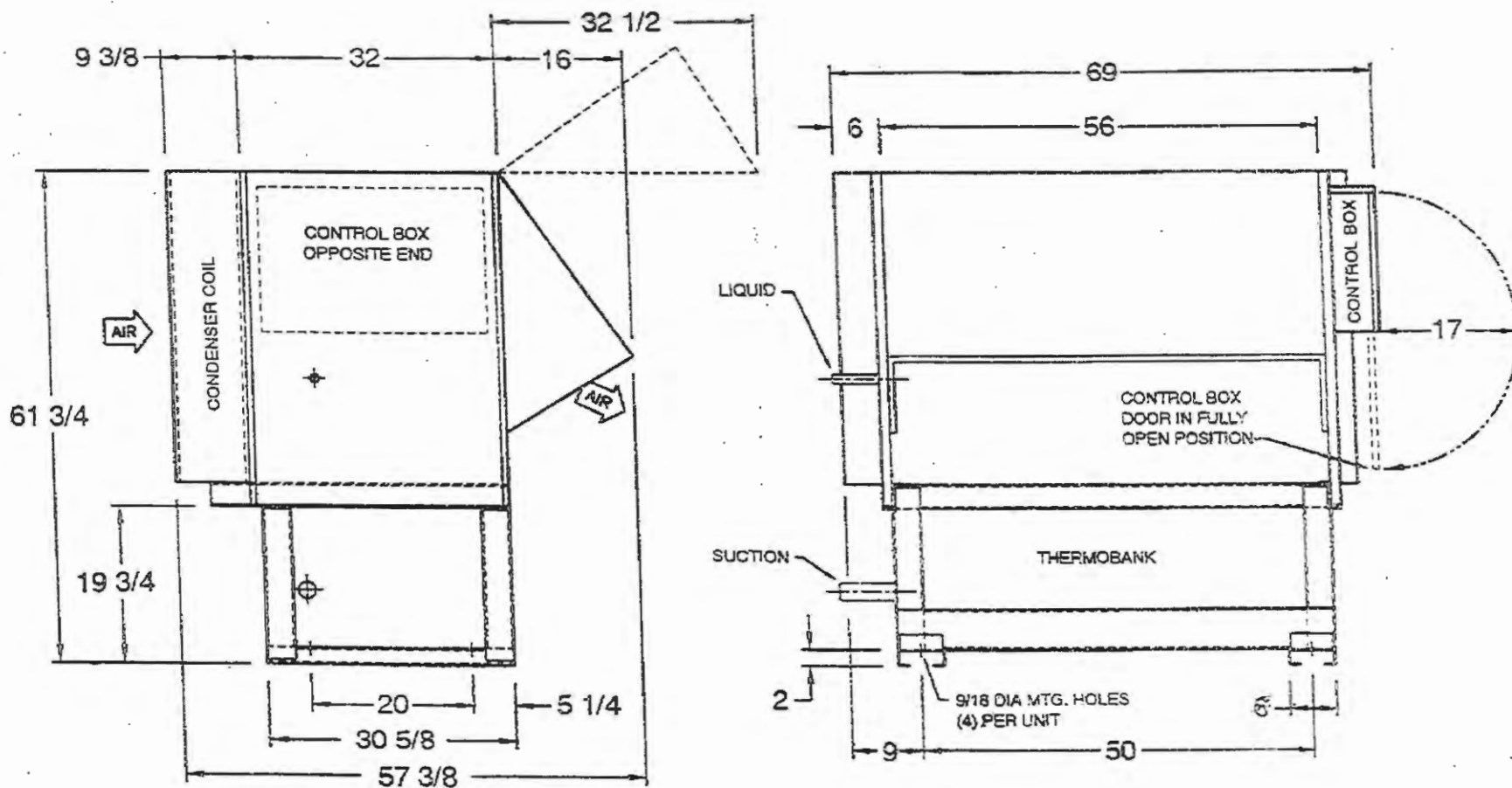
MODEL CTT	SUCTION TEMPERATURE							
	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-40°F
0400L44	32700	29100	25700	22600	19700	17100	14700	10400
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0600L44	52500	47100	42000	37200	32800	28700	24900	18500
0800L44	60800	54600	48800	43400	38400	33700	29400	21600
0900L44	78100	69900	62300	55300	48700	42600	37100	27400
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3100L44	187300	169600	153900	136300	121700	106400	92700	69350
4400L44	267000	242100	218600	196300	175100	154800	135300	98300
5400L44	340500	307900	279100	248500	219400	192000	166400	121700
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AMBIENT CORR. FACTOR	
AMB.	404A
80°F	1.15
85°F	1.10
90°F	1.05
95°F	1.00
100°F	0.95
105°F	0.90



LOW TEMPERATURE HOT GAS DEFROST

MODEL CTT DIMENSIONS SIZE 0400-1200





Kramer
1123 Church Street
Covington, GA 30015
(770)-788-5800
(770)-788-5820
Kramer.htpgusa.com

February 1st, 2012

Thayer Corporation
1200 Hotel Road
Auburn, ME 04210

Attn: Andy Kent

Re: Sound Data for Kramer Units

Dear Andy,

I'm writing you regarding sound data on the Kramer Thermobank systems. Kramer has never published sound data on their larger condensing units however I can estimate the approximate decibel level each unit will emit. At best this will be an educated approximation since Copeland does not publish sound data on their compressors. Therefore, I made my estimates based upon the condenser fans which typically produce the most noise of any condensing unit.

CTT22200L44-G (approximately 61 dB at 30 feet)

CTT20600L44-G (approximately 58 dB at 30 feet)

Again I must reiterate that these are just approximations. The actual measurements may vary depending upon installation variables. Also, environmental factors may have a significant influence on the data.

If you have any questions please feel free to contact me.

Best Regards:

Benjamin A. Mizack

Benjamin A. Mizack
SENIOR APPLICATIONS ENGINEER / SALES SPECIALIST
REFRIGERATION SPECIALISTS CO NE LLC

OK
14-311(d)(2) -
75 dBAs at property
lines