City of Portland, Maine - E	U		011	rmit No 06-0059	Plente Date	32 F00	2001
389 Congress Street, 04101 Te		5, Fax: (207) 874-87					
Location of Construction:	Owner Name:	C/F		r Address:	JAN 2 4	Phone:	
36 MARKET ST	36 MARKET			IILK ST			
3usiness Name:	Contractor Name			actor Address:	A CALL	Phone Phone	
		C Services Inc.		ashington Av€	Scarboneugh !	PT[/20788507	/1
Lessee/Buyer's Name	Phone:			t Type:			Zone:
			HV	AC		1	0-2
Past Use:	Proposed Use:	-	Perm	it Fee:	Cost of Work:	CEO District:]
Commercial		Replace existing units	l	\$2 10.00	\$20,500.0	0 1	
	w/ Lennox RT	'V's	FIRE	DEPT:	Approved	PECTION:,	
Legaluse; 1st Flooringst.	and 19th		10	D N CPA	Denied	e Group: H/A	Type:
offices Alan	regile 1776	01	- A.V			1/23/0	260 1
Proposed Project Description: Replace existing units w/ Lennox	DTV/a				· 1		1
Replace existing units w/ Lennox	KIVS		Signar PEDE	ture Grea	VITIES DISTRIC	nature:	Vict /
			Actio				Denied
			Signa	iture:		Date:	
Permit Taken By: Date Applied For:			Zoning Approval				
ldobson	1/12/2006	8 Pr					
1. This permit application does	not preclude the	Special Zone or Rev	iews	Zonin	g Appeal	Historic Prese	rvation
Applicant(s) from meeting ap Federal Rules.		Shoreland		Variance		Not in District	or Landmarl
 Building permits do not incluseptic or electrical work. 	ide plumbing,	Wetland		Miscellar	neous	Does Not Req	uire Review
3. Building permits are void if within six (6) months of the co		Flood Zone		Condition	nal Use	Requires Revi	ew
False information may invalid permit and stop all work		Subdivision		Interpreta	ation	Approved	
		Site Plan		Approved	i	Approved w/C	Conditions
		Maj Minor M	yı 🗀	Denied		Denied Language	on word
		Date: 1/9/06		Date:		Date: Lycure	<u>5A</u>
						Sporty	Cever -

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



APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT

PEDRAIT	
PERMIT ISSUED	Ī
JAN 2 4 2006	-
CITY OF PORTLAND	

To the INSPECTOR OF BUILDINGS, PORTLAND, ME.

The undersigned hereby applies for a pe	ermit to install thefollowing	heating, cooking	or power equipment
accordance with the Laws of Maine, the Buildin	ng Code of the City of Portla	nd, and the follow	ving specifications:

Location / CBL 36 Market St Portland, Mr. Name and address of owner of appliance E.L.C mark	
Installer's name and addressGELINAS_HVAC_	Services INC Telephone (207)
Location of appliance: Basement	of Chimney: Masonry Lined Factory built UL# M/A UL# M/A Description We der of Flame Cost of Lo. 500 co Permit Fee: \$ 210 co
Approved Fire: Ele.: Bldg.: Signature of Installer William W Selfa	Approved with Conditions See attached letter or requirement Inspector's Signature Date Approved
White Inspection Valloy - File Di	ink Applicant's Gold - Assassor's Conv

City of Portland, Maine - Buil	ding or Use Permit	,	Permit No:	Date Applied For:	CBL:
389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (2	207) 874-871	6 06-0059	01/12/2006	032 F002001
Location of Construction:	Owner Name:		Owner Address:		Phone:
36 MARKET ST	36 MARKET ST		20 MILK ST		
Business Name:	Contractor Name:		Contractor Address:		Phone
	Gelinas HVAC Service	es Inc.	2 Washington Ave	Scarborough	(207) 885-0771
Lessee/Buyer's Name	Phone:		Permit Type:		
			HVAC		
Proposed Use:		ropos	ed Project Description	:	
Commercial/ Replace existing units w	// Lennox RTV's	Repla	ace existing units w/	Lennox RTV's	
Dept: Zoning Status: A Note:	pproved	Reviewer	: Marge Schmuck	al Approval E	Oate: 01/19/2006 Ok to Issue: □
Dept: Building Status: A Note:	pproved	Reviewer	: Mike Nugent	Approval E	Oate: 01/23/2006 Ok to Issue: ✓
Dept: Fire Status: A Note: 1) Install to comply with NFPA 90 B	pproved with Conditions 3. And NFPA 54.	s Reviewer	: Cptn Greg Cass	Approval D	Ok to Issue:

L&L STRUCTURAL

ENGINEERING SERVICES, INC. Six Q Street

> South Portland, ME 04106 Phone: (207787-4830

Fax: (207) 789-5432

January 11, 2006

а

Mr Bill Gelinas Gelinas HVAC 2 Washington Avenue Scarborough, Maine 04074

Subject: Analysis of the Roof Structure to Support HVAC Units für the building located 36 Market Street, Portland, Maine

Dear Mr. Gelinas.

As per your request we have reviewed and analyzed the existing roof structure at the aforementioned building in Portland, Maine The purpose of our analysis and review was to determine "If the existing roof structure is capable of safely supporting the proposed HVAC units to be installed on top of the roof. The proposed HVAC units, wording to information provided by your office, are LENNOX TUT-Class (Model TGA090H2BS 1Y) 7 5 to 120 ton capacity units with an operational weight of 1360 pounds. The unit footprint is approximately 8'-3" x 4'-10". There are three units proposed to be installed on the roof. Two of the proposed units are to be installed on the west side of the roof near the center of the roof. The third unit is proposed to be located on the east side of the roof at approximately a quarter of the distance across the width of the building.

The existing flat roof structure consists of original 3"x9 ½" timber joists that have been reinforced relatively recently with additional 2-2x10 joists "sistered" to each side of the original joists spaced at approximately 20" on center. The Roof joists art supported on the exterior brick walls and an interior timber-bearing wall at the center of building. The maximum roof joist span is approximately 16"-3" between the exterior brick bearing wall and the interior central timber bearing wall. Our analysis and review of the roof structure was performed utilizing the 2003 International Building Code (IBC) adopted by the City of Portland and considering the Building Code Requirements for the material utilized in the existing roof structure. The existing roof structure is currently supporting HVAC units with similar weights and locations. The existing roof structure is capable of supporting the proposed HVAC units at the locations previously described in addition to the code stipulated roof loading.

If you have any further questions or require any additional information and/or technical assistance, please do not hesitate to call

Sincerely,

L&L/Structural Engineering Services, Inc.

Joseph H. Leasure, P.E.

rincipal

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STATE OF MAINE
PET SUPPOFESSIONAL'S FINANCIAL REGULATIC
PROFANE NATURAL GAS BOARD

I CENSE PNT.1078

VICE AN W GELLINAS
PROFANE NATURAL GAS TECH
AUTROPIE OF CONN & SERV. TECH

ISSUED Jon 16, 2005 EXPIRES Jul 31, 2007

STATE OF MAINE

DEPARTMENT OF PROFESSIONAL & FINANCIAL REGULATION
35 STATE HOUSE STATION
ALIGUSTA MAINE 04333-0035

(207) 624-8606

SIGNATURE REQUIRED



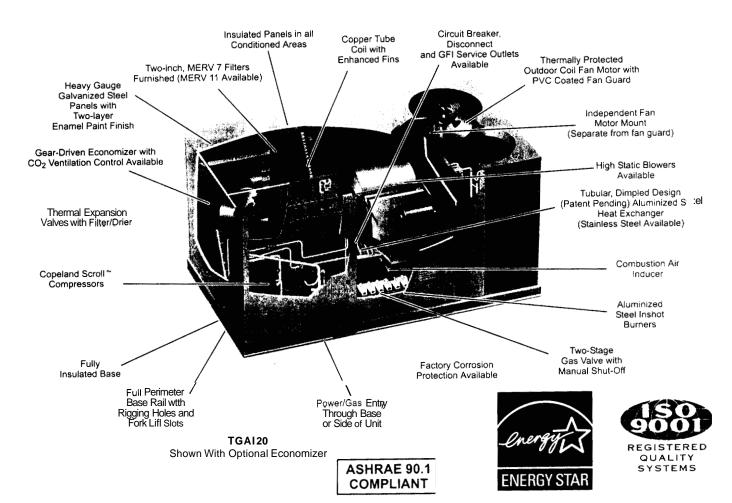
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PACKAGED GAS/ ELECTRIC

TG

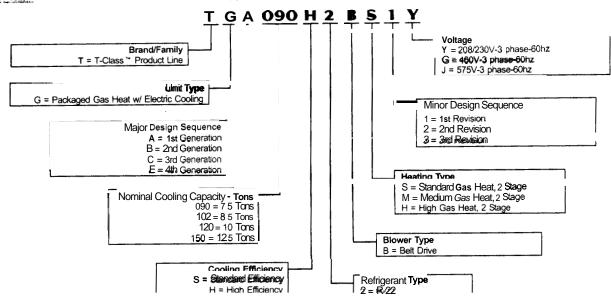
T-CLASS™ ROOFTOP UNIT - 60HZ 7.5 to 12.5 Tons

Bulletin No 210392 April 2004



MODEL NUMBER IDENTIFICATION

ganamanaganagginapana ana wan can-na-na-na-at-at-ggin estisa establis (1971-1981)



NOTE - Due to Lennox' ongoing committment to quality. Specifications, Ratings and Dimenstons subject to change without notice and without incurring liability improper installation, adjustment, alteration service or maintenance can cause property damage or personal injury ©2004 Lennox Industries Inclustration and service must be performed by a qualified installer and servicing agency

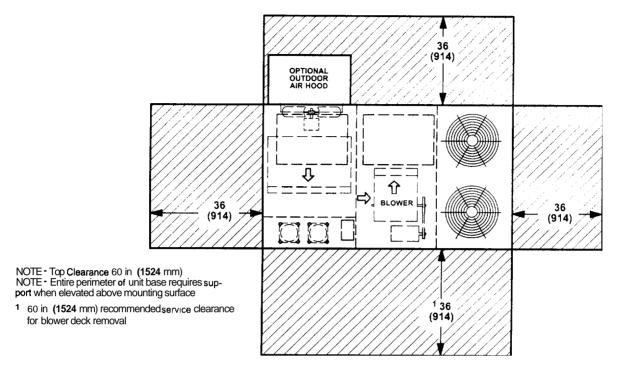
OPTIONAL ACCESSORIES - SEE PAGES 3-4 FOR DETAILED DESCRIPTIONS

	Accessories - See Pages 3-4 F				1	
	ltem	7.5 ton 090	8.5 ton 102	10 ton 120	12.5 ton 150	
binet	Coil Guards		•		•	
cessories	Hail Guards		TAHGKG	C 10/15		
	Horizontal Discharge Conversion Kit		LTHSDKG	C10/15		
iling	Step-Down - Net Weight	RTD11-95	· · · · · · · · · · · · · · · · · · ·	11-135	RTD11-185	
fusers		88 lbs. (40 kg) FD11-95	205 lbs	205 lbs. (93 kg)		
	Flush - Net Weight	75 lbs. (34 kg)	174 lbs. (79 kg) 289		FD11-185 289 lbs. (131 k	
	Transitions (Supply and Return) - Net Weight	LASRT08/10 30 lbs (14 kg)		T10/12 (15 kg)	LASRT15 36 lbs. (16 kg	
ntrols	Blower Proving Switch	LTABPSK				
	Dirty Filter Switch	. = . = = =				
	L Connection* Network		See Pages	s 18-21		
	Smoke Detector - Supply		LTASASDI	K10/36		
	Smoke Detector - Return		LTRASDK	-10130		
oling	PVC Condensate Drain Trap		LTACDKF	03/36		
cessories	Compressor Crankcase Heater	208/230V -	TACHK10/15-Y 575V - TACH	- 460V - TACHI K10/15-J	(10/15-G	
	Copper Condensate Drain Trap					
	High Pressure Switch					
			TALAK1			
	Low Ambient Kit					
onomizer	Economizer • Net Weight		AREMD10/15 - 4	`		
	Economizer Outdoor Air Hood - Net Weight Number and Size of Filters	(2)	LAOAH10/15 - 16 x 25 x 1 in. (40	6 x 635 x 25 mr	n)	
	Economizer Temperature Control (Sensible) for differential temperature control, order two kits		TASEKO			
	Economizer Enthalpy Control • Differential	LTADEK03/36				
	Economizer Enthalpy Control - Outdoor	LTASEK03/36				
	Economizer Modulating Sensor Kit		TAMEK03/36			
rometric	Down-Flow Barometric Relief Dampers - Net Weight	t LAGED10/15 - 8 lbs (4 kg)				
lief	Hood for Down-Flow LAGED		LAGEHO)9/15		
	Horizontal Barometric Relief Dampers - Net Weight	LAGEDH03/15 - 8 lbs (4 kg)				
tdoor D	Damper Section (down-flow) - Automatic - Net Weight					
	Damper Section (down-flow) - Manual - Net Weight		LAOAD10115 - 2	6 lbs (12 kg)		
mpers	Outdoor Air Hood (down-flow) Net Weight Number and Size of Filters	(2) 1	LAOAH10/15 - 16 x 25 x 1 in (40	11 lbs (5 kg) 6 x 635 x 25 mr	n)	
wer Exhaust	Power Exhaust Fan - Net Weight		LAPEF10/15 2	8 lbs (13 kg)		
ectrical	HACR Circuit Breaker		TAHBK10/15-* (i	,		
cessories	Disconnect Switch)/15-80 (80A) TA		150Δ)	
	GFI Service Outlets	אטוויו	LTAGFIK	,	1504)	
ters	MERV 11 High Efficiency	ΔEK-	11 (18 x 24 x 2 sp		unit)	
S	Combustion Air Intake Extensions	71113	LTACAIK	<u>·</u>		
	Cold Weather Kit	1 TA C\A/V 10/			5 575\/	
ating essories	Gas Piping Kit	LTACWK10/15-Y - 208/230V, LTACWK10/15-J - 575V				
	LPG/Propane Kits	LTAGPSK10/15 (Through Curb), LTAGPB10/15 (Through Unit Base LTALPGK-130- Standard Heat, LTALPGK-180- Medium Heat LTALPGK-240- High Heat			,	
	Vertical Vent Extension Kit		LTAWEK10115			
oor Air	CO ₂ Sensor Duct Mounting Kit					
ality (CO ₂)	_	LTIAQSDMK03/36 LTAIAQSWDK03/36				
nsors -	Sensor - white case CO ₂ display					
	Sensor - white case no display	LTAIAOSNIDO3/36				
	Sensor - black case C02 display	LTAIAQSND03/36				
		LTIAQABD03/36				
	Handheld CO ₂ Monitor		LTAIAQSHI	M03/36		
indard	14 in (356 mm) height - Net Weight	LARMF10/15-14 - 126lbs (57kg)				
TATE O la .	24 in (610 mm) height - Net Weight	LARMF10/15-24 - 174 lbs (79 kg)				
of Curbs		LARMF10/15S-14 • 126lbs (57 kg)				
plock 1000	14 in. (356 mm) height - Net Weight	LAF	RMF10/15S-14 -	126 lbs (57 kg)	
	14 in. (356 mm) height - Net Weight 18 in. (457 mm) height - Net Weight			, -		
	Handheld CO ₂ Monitor LTAIAQSHM03/36 14 in (356 mm) height - Net Weight LARMF10/15-14 - 126 lbs (57 kg) 24 in (610 mm) height - Net Weight LARMF10/15-24 - 174 lbs (79 kg) 14 in. (356 mm) height - Net Weight LARMF10/15S-14 - 126 lbs (57 kg)					

General	Nominal Tonnage		7.5 Ton		8 5 Ton		
Data		Model No	TGA09	00\$2B	TGA10	2S2B	
		Efficiency Type	Stan	dard	Stand	dard	
Cooling Performance	Gross Cooling Capac	city - Btuh (kW)	93,000	(27.2)	104,000	(305)	
Periormance	¹ Net Cooling Capac	city - Btuh (kW)	90,000	(26.4)	100,000	(29 3)	
	ARI Rated Air	flow - cfm (L/s)	3000 (1415)	3400 (1605)	
	Total U	nit Power (kW)	8	9	9 9	9	
	1 E	ER (Btuh/Watt)	10	1	10	1	
	² Integrated Part Load Va	llue (Btuh/Watt)	10	5	10	5	
•	Refrigerant Charge	Circuit 1	7 lbs 0 oz	(3 18 kg)	7 lbs 8 oz	(340 kg)	
	Furnished (HCFC-22)	Circuit 2	6 lbs 8 oz	(2 95 kg)	7 lbs 0 oz	(3 18 kg)	
3 Sound Ratin	g Number (dB)		8	8	88	3	
					1		
Performance	Input - Btuh (kW)	First Stage	84,500 (24.8)	117,000 (34.3)	84,500 (24.8)	117,000 (34.3)	
		Second Stage	130,000 (38.1)	180,000 (52.7)	130,000 (38.1)	180,000 (52.7)	
_	Output - Btuh (kW)	Second Stage	104,000 (30.5)	144,000 (42.2)	104,000 (30.5)	144,000 (42.2)	
	CSA The	rmal Efficiency	80.0%		80 0%		
	Gas Supply Connections		3/4 in. npt		3/4 in npt		
	Gas Supply Pressure	,		7 in. w.c. (1.7kPa)		7 in. w.c. (1.7kPa)	
		LPG/Propane	11 in. w.c.		11 in. w.c. (2.7 kPa)		
Compressor •	Number & Type		(2) Scroll		(2) Scroll		
Condenser Net face area -			29.3 (2.72) total		29.3 (2.72) total		
Con	Tube diameter - in. (mm)		3/8 (3/8 (
		lumber of rows	1		1		
		ns per inch (m)	20 (787)		20 (7	<u> </u>	
Condenser	Motor h	orsepower (W)	(2) 1/3 (249)		(2) 113 (249)		
Fans		Motor rpm		1075		1075	
		tal Motor watts	70		70		
	Diameter - in. (mm) - no. of blades		(2) 24 (610) - 3		(2) 24 (610) - 3		
		ume - cfm (L/s)	8000 (<u> </u>	8000 (3775)		
Evaporator Coil		ea - sq. ft. (m ²)	10.5 (0.9	•	10.5 (0.9	,	
	Tube diameter - in. (rnm)		318 (9.5)		318 (9.5)		
		umber of rows	3 14 (551)		3 14 (551)		
		ns per inch (m)				•	
	Drain Connection - no. & size Expansion device type		(1) 1 in. NPT coupling		(1) 1 in. NPT coupling sion Valve, removeable power head		
Ctondord	4 Belt Drive - Nomina	7.		' <u> </u>	<u>'</u>		
Standard Indoor	Maximum usable ou		2 hp (1.5 kW) 2.3 hp (1.7 kW) kit #1 - 680 - 925 rpm (1) 15 x 15 (381 x 381)		2 hp (1.5 kW) 2.3 hp (1.7 kW) kit #1 - 680 - 925 rpm (1) 15 x 15 (381 x 381)		
Blower and Drive		Drive kit					
ביואם	Wheel nominal diameter x						
Filters	TTICET HOTHINAI GIAITICLET X	Type of filter		·			
1 111013	Number and		Disposable, pleated MERV 7 (stan		andard) or $MERV 11$ (optional) $(4) 18 \times 24 \times 2 (457 \times 610 \times 51)$		
Number and size - in. (mm) Electrical characteristics			(4) 18 x 24 x 2 (457 x 610 x 51) (4) 18 x 24 x 2 (457 x 610 x 51) (4) 18 x 24 x 2 (457 x 610 x 6		31 X 010 X 31)		

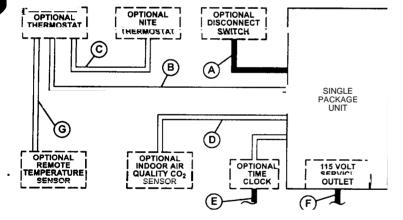
INSTALLATION CLEARANCES MINCHES (MM)





FIELD WIRING

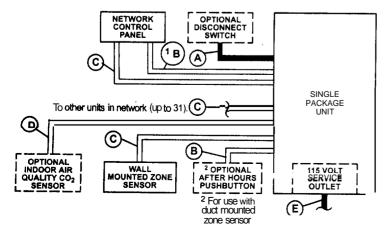
ELECTRO-MECHANICAL, ELECTRONIC OR HONEYWELL T7300 THERMOSTAT CONTROL SYSTEM



- A Three wire power (See Electrical Data Table)
- B Six wire low voltage (Electro-Mechanical)
 Seven wire low voltage (Electronic)
 Nine wire low voltage (Honeywell T7300)
 Ten wire low voltage (Honeywell T7300 with Service LED)
- C Two wire low voltage (Electro-Mechanical Only)
- D Four wire low voltage (All Systems)
- E Two wire power
- F Two wire power (115 volt)
- G Two wire low voltage
 - Seven wire low voltage (T7300 Room Sensor with override)
 - field wiring not furnished -

NOTE - All winng must conform to NEC or CEC and local electrical codes

L CONNECTIONW NETWORK THERMOSTAT CONTROL



- A Three wire power (See unit Electrical Data Table)
- B Two wire low voltage 20 AWG minimum
- C One twisted pair with shield (Belden type 88761) or equivalent (Must be daisy chained to each unit if more than one unit is connected to Network Control Panel)
- D Four wire low voltage 20 AWG minimum
- E Two wire power (115 volt)
 - Field winng not furnished -

NOTE — All wiring must conform to NEC α CEC and local electrical codes ¹ Optional wall-mount transformer may be used to power the NCP instead of using the unit's 24vac