City of Portland, Mair	ne - Building or Use	Permit Applicat	tion [Permit No:	Issue Date:	CBL:	
389 Congress Street, 0410) Tel: (207) 874-8703	, Fax: (207) 874-8	3716	10-1448		016 J01	7001
Location of Construction:	Owner Name:		Ow	ner Address:		Phone:	
29 WATERVILLE ST	WATERVILL	E TRIAD LLC	17	CHESTNUT ST	Т		
Business Name:	Contractor Name	:	Соп	tractor Address:		Phone	
	Grover Contra	cting	51	Burnham Drive	Naples	207577728	82
Lessec/Buyer's Name	Phone:	T	Per	mit Type:			Zone:
			Н	V _{AC}			K-6
Past Use:	Proposed Use:		Per	mit Fee:	Cost of Work:	CEO District:	
3 Unit Residential	100 000 000 000 000 000 000 000 000 000	ntial - install Pensco		\$260.00	\$24,000.00	1	
	Boiler and Ri	nna Hot water	FIF	RE DEPT:	Approved	ECTION:	Type WZ
					Denied Use G	Group:R-2	Type
			*	See Car	ditions t	PML-200	3
Proposed Project Description:			_	sec an	2,1,100	1	
install Penscott Boiler and	Rinna Hot water		Sign	nature: (KG	Signat	ture MB 12	3/6/16
N 5004455 (Section 50 No. 1005-0-0-0 No. 100					TITIES DISTRICT		10/10
			Act	ion: Approve	ed Approved w	w/Conditions	Denied
			Sia	nature:		Date.	
Permit Taken By:	Date Applied For:		318		A		
Idobson	11/19/2010			Zoning .	Approval	7	
This permit application		Special Zone or R	eviews	Zoning	g Appeal	Historic Prese	rvation
	ing applicable State and	Shoreland		Variance		Not in District	tor Landmark
Federal Rules.		Juoreland		Variatice	ĺ	W NOT III DISTILL	OFFICACIONIALK
2. Building permits do not	t include plumbing	Wetland		Miscellan	eous	Does Not Requ	uire Review
septic or electrical work					170 000		
3. Building permits are vo	id if work is not started	Flood Zone		Condition	ıal Us c	Requires Review	cw
within six (6) months of							
False information may i		Subdivision		Interpreta	tion	Approved	
permit and stop all work	K						
		Site Plan		Approved		Approved w/C	Conditions
PERMIT	ISSUED	Maj ∏ Minor ∏ M	мм 🗌	Deπied		☐ Denied	
		Maj Willion		Delined		Deliled	/
GEC -	- 6	Date:	5	Date:	ľ	Date:	
		110	1				
	D 11 1	11/19/					
City of	Portland						
		CERTIFIC	TION				
		CERTIFICA	TION				

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.

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

City of Portland, Maine - Bui	Iding or Use Permit	t	Permit No:	Date Applied For:	CBL:
389 Congress Street, 04101 Tel:	(207) 874-8703, Fax: (1	207) 874-8716	10-1448	11/19/2010	016 J017001
Location of Construction:	Owner Name:	0	wner Address:		Phone:
29 WATERVILLE ST	WATERVILLE TRIA	D LLC I	7 CHESTNUT ST	ſ	
Business Name:	Contractor Name:	C	ontractor Address:	-	Phone
	Grover Contracting	5	il Burnham Drive	Naples	(207) 577-7282
Lessee/Buyer's Name	Phone:	P	ermit Type:		·
			HVAC		
Proposed Use:		Proposed	Project Description:		
3 Unit Residential - install Penscott	Boiler and Rinna Hot wat	ter install F	Penscott Boiler and	Rinna Hot water	
Dept: Zoning Status:	Approved	Reviewer:	Marge Schmucka	Approval Da	ite: 11/19/2010
Note:					Ok to Issue:
1) All previous conditions are still i	n force				
., ,					
Dept: Building Status:	Approved with Condition	s Reviewer:	Jeanine Bourke	Approval Da	ite: 12/06/2010
Note:					Ok to Issue: 🗹
1) The appliance and venting shall	be installed in accordance	with the UL listi	ng, IMC 2003 and	NFPA 211.	
2) The installation must comply with					
2) The installation must comply with	in the State of Manie Cas	regulations.			
Dept: Fire Status:	Approved with Conditions	s Reviewer:	Capt Keith Gautre	eau Approval Da	ite: 12/02/2010
Note:					Ok to Issue: 🔽
1) Install shall comply with all man	ufacture's specifications.				
 Install shall comply with NFPA: A compliance letter is required. 	0				



Signature of Installer

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



City of Portland

To the INSPECTOR OF BUILDINGS, PORTLAND,	M	ÆΕ	E
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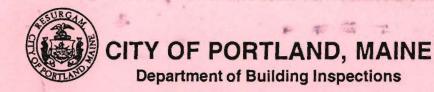
The undersigned hereby applies for a permit to install the following heating, cooking or power equipment in accordance with the Laws of Maine, the Building Code of the City of Portland, and the following specifications:

Location / CBL 29 WATER VILLE ST 160 Name and address of owner of appliance John Ryan	Use of Building Residential Dale 11/19/10
Installer's name and address GROVER CONTUACTOR	79 STECK GROVER Telephone 207-577-7282
Location of appliance: Basement Floor Roof	Type of Chimney: Masonry Lined Factory built
Type of Fuel: Gas Oil Solid HOT WATEN Appliance Name: Property No Will appliance be installed in accordance with the manufacture's installation instructions? Yes No The Type of License of Installer: Master Plumber # Solid Fuel # Oil # Oil # Oil #	Metal Factory Built U.L. Listing # Direct Vent Type
Gas # <u>PN + 3083</u> Other	Cost of Work: \$ 24,000 Permit Fee: \$ 260
Approved Fire: Ele.: Bldg.:	Approved with Conditions See attached letter or requirement
	Inspector's Signature Date Approved

Yellow - File

Pink - Applicant's

Gold - Assessor's Copy



Original Receipt

	11.19. 20 10	
	Carlo	
Received from	Orones	
Location of Work	29 waterillest	
Cost of Construction	\$Building Fee:	
Cost of Construction	Dullaling Fee.	
Permit Fee	\$ Site Fee:	
1 31	Certificate of Occupancy Fee:	_
+ EXX	Total: 260	_
Building (IL) Plum	bing (I5) Electrical (I2) Site Plan (U2)	
Other HVII (
CBL: /6 J	7	
Check #:	Total Collected \$ 260	(5)

No work is to be started until permit issued. Please keep original receipt for your records.

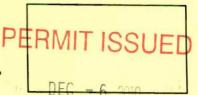
Taken by:

WHITE - Applicant's Copy YELLOW - Office Copy PINK - Permit Copy



Signature of Installer

APPLICATION FOR PERMIT HEATING OR POWER EQUIPMENT



To the INSPECTOR OF BUILDINGS, PORTLAND, ME.	City of Portland
The undersigned hereby applies for a permit to insta	ll the following heating, cooking or power equipment in
accordance with the Laws of Maine, the Building Code of the	e City of Portland, and the following specifications:
Name and address of owner of appliance John Ryan	Use of Building Ras: Dontial Date 11/19/10
Installer's name and address GROVER CONFUACTOR	79 Steff Grover Telephone 207-577-7282
Location of appliance:	Type of Chimney:
☐ Basement ☐ Floor	☐ Masonry Lined
☐ Attic ☐ Roof	Factory built
Type of Fuel: Gas Oil Solid HOT WATER Appliance Name: Ves No Will appliance be installed in accordance with the manufacture's installation instructions? Yes No IF NO Explain:	Direct Vent Type UL# Type of Fuel Tank Gas Size of Tank STree + Meters
The Type of License of Installer:	Number of Tanks
Master Plumber #	Number of failes
□ Solid Fuel #	Distance from Tank to Center of Flame feet.
Oil #	
Gas # PN+ 3883	Cost of Work: \$ 24,000
Other	Permit Fee: \$ 260
Approved	Approved with Conditions
Fire:	 See attached letter or requirement
Ele.:	
Bldg.:	Inspector's Signature Date Approved

Yellow - File

White - Inspection

Inspector's Signature

Gold - Assessor's Copy

Pink - Applicant's

Date Approved

Technical Data

Table 4

60-160 17-47 55-146 16-43 127 15.76 1.46	60-212 17-62 55-194 1 6 -57
17-47 55-146 16-43 127	17-62 55-194 1 6 -57
55-146 16-43 127 15.76	55-194 1 6 -57
16-43 127 15.76	16-57
12 7 15.76	
15.76	169
1.46	15.76
	1.46
4	4
10	10
14	14
14	14
96.1	96.1
155	155
70	70
1.9	1.9
7.2	7.2
15.4	15.4
3500	3500
60	60
4	4
210	/99
121 AUS	1 1/4
	3/4
*	₹4
	10
11/4	1 1/4
1	1
	68 to 20 to 169 74 210 114 34 34 114

^{*1}Output based on 140°F / 60°C, 120°F / 49°C system supply/return temperature.

^{*2}Net I = B = R rating based on piping and pick-up allowance of 1.15.

^{*3}If the gas supply pressure exceeds the maximum gas supply pressure value, a separate gas pressure regulator must be installed upstream of the heating system.

^{*4}See "Typical System Flow Rates" on page 28 in this manual.

2. TECHNICAL CHARACTERISTICS

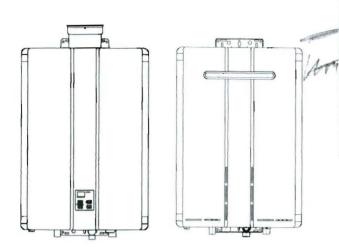
2.1 Technical data

Model		PCH 18
CE Certification	n°	0694BN3485
Appliance Type		B23p-B33-C13-C33-C43-C53-C63-C83-C93
Appliance Category		II2H3B/P
Heat Input max	kW - BTU/hr	18 - 61419
Heat Input max - D.H.W. production working	kW - BTU/hr	23.5 - 80185
Heat Input min	kW - BTU/hr	(G 20) 4 - 13.649 / (G 31) 5.50 - 18.767
Heat Output max - 122/86°F	kW - BTU/hr	19.26 – 65.718
Heat Output max - 176/140°F	kW - BTU/hr	17.69 – 60.374
Heat Output max - D.H.W. production working - 176/140°F	kW - BTU/hr	23.10 - 78822
Heat Output min - 176/140°F	kW - BTU/hr	3.90 – 13.294
Efficiency 100% (full load 122/86°F)	%	96
	%	97
Efficiency 30% (partial load 122/86°F) Efficiency 100% (full load 176/140°F)		87.7
	%	
Efficiency 30% (partial load176/140°F)	%	88.8
GAS DIRECTIVE 92/42/ECC - Efficiency marking	stars	4
Sedbuk	band	A
NOx	class	5
Central Heating circuit		1
Central Heating water temperature setting (min-max)	°C – °F	30-80 / 25-40 - 86-176 / 77-104
Max. heating working temperature	°C – °F	80 – 176
Expansion vessel capacity	litres - gal	6 - 1.60
Max. working pressure (heating)	bar - psi	2.1 - 30
Min. working pressure (heating)	bar - psi	0.3 - 4.29
Dimensions (Boiler casing size)		
Width	in	16.1
Height	in	28.7
Depth	in	11.2
Weight (net)	Ib	16.36
Hydraulic connections		
Central Heating Flow connection	NPT	3/4"
Central heating Return connection	NPT	3/4"
Cold water mains connection	NPT	1/2"
Gas connection	NPT	1/2"
Flue systems		
Horizontal-Concentric flue system	Ø mm - in	60/100 - 2 4/4
Max. Flue length	m - ft	5 - 16.4
Twin pipe flue system	Ø mm - in	80/80 - 3.15/3.15
Max. Flue length (from terminal to terminal)	m - ft	50 -164
Twin pipe flue system	Ø mm - in	60/60 - 2.4/2.4
Max. Flue length (from terminal to terminal)	m - ft	30 - 98
Vertical-Concentric flue system	Ø mm - in	60/100 - 2.4/4
Max. Flue length	m - ft	5 - 16 4
Gas Supply		
Natural gas G 20		
nlet pressure	mbar - psi	20 - 0.29
Gas consumption	m³/h - ft²/h	1.91 – 67.44
Propane G31	mhar na	27 0.52
nlet pressure	mbar - psi kg/h - ft³/h	37 - 0.53 1.40 – 25.71
Gas consumption	kg/11 - 11 /11	1,40 - 25,71
		100.00
Electrical specifications Power supply Electrical power consumption	V/Hz W	120/60 175

Rinnai

Direct Vent Tankless Water Heater

Operation and Installation Manual



RC80HPi.....REU-KA2530FFUD-US
RC98HPi.....REU-KA3237FFUD-US

FOR OUTDOOR APPLICATIONS ONLY

FOR INDOOR APPLICATIONS ONLY

RC80HPeREU-KA2530WD-US

Table of Contents2
Consumer Safety Information 4
Operating Instructions5
Maintenance12
Error Codes13
Installation Instructions
Consumer Support40
French Version42

Register your product at www rinnairegistration.com or call 1-866-RINNAI1 (746-6241)









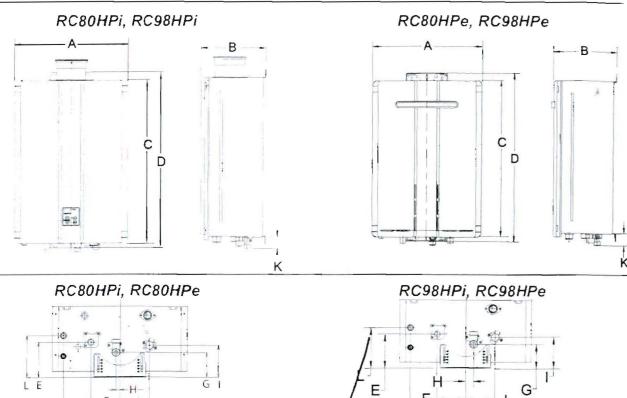


ANS Z21.10.3

• CSA 4.3 INSTALLER: Leave this manual with the appliance.
CONSUMER: Retain this manual for future reference.

WARNING: If the information in these instructions is not followed exactly, a fire or explosion may result causing property damage, personal injury or death.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- WHAT TO DO IF YOU SMELL GAS
 - Do not try to light ar
 Do not touch any el your building.
 - Immediately call your gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

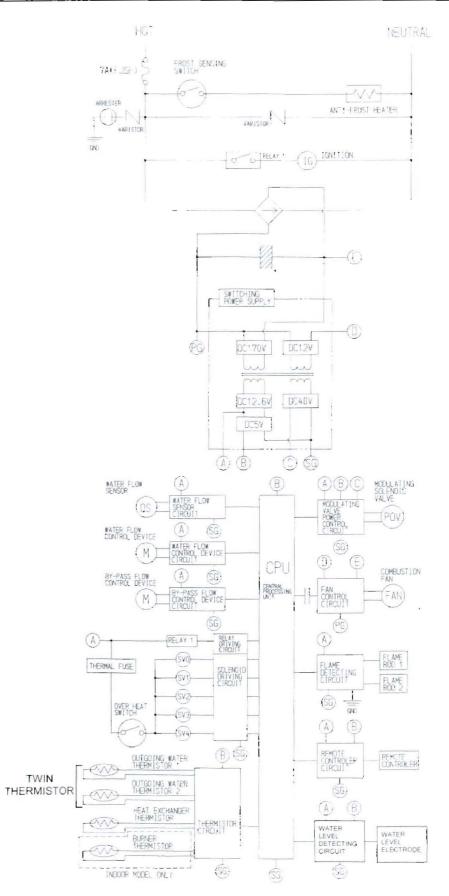


- M

			1/		
DI M	DESCRIPTION	RC80HPi in (mm)	RC98HPi in (mm)	RC80HPe in (mm)	RC98HPe in (mm)
Α	Width	18.5 (470)	18.5 (470)	18.5 (470)	18.5 (470)
В	Depth	10.5 (266.9) *	10.5 (266.9) *	10.7 (271.9)	10.7 (271.9)
С	Height - Unit	26.4 (670)	26.4 (670)	26.4 (670)	26.4 (670)
D	Height - with brackets	28.5 (723.2)	28.5 (723.2)	28.4 (721.6)	28.4 (721.6)
E	Hot Water Outlet - from wall	4.3 (110) *	4.3 (110) *	4.5 (115)	4.5 (115)
F	Hot Water Outlet - from center	3.9 (100)	3.9 (100)	3.9 (100)	3.9 (100)
G	Cold Water Inlet - from wall	2.8 (70.0) *	2.9 (74.6) *	3.0 (75.0)	3.1 (79.6)
Н	Cold Water Inlet - from center	0.5 (12.8)	1.1 (27.7)	0.5 (12.8)	1.1 (27.7)
1	Gas Connection - from wall	3.9 (99) *	3.9 (99) *	4.1 (104)	4.1 (104)
J	Gas Connection - from center	4.1 (103.2)	4.1 (103.2)	4.1 (103.2)	4.1 (103.2)
	From base to gas connection	1.6 (40.2)	1.6 (40.2)	1.6 (40.2)	1.6 (40.2)
Κ	From base to cold connection	2.0 (50.2)	2.0 (50.2)	2.0 (50.2)	2.0 (50.2)
	From base to hot connection	1.6 (41.2)	1.6 (41.2)	1.6 (41.2)	1.6 (41.2)
L	Condensate Dain - from wall	5.2 (132.6) *	5.2 (132.6) *	5.4 (137.6)	5.4 (137.6)
М	Condensate Drain - from center	7.7 (195)	7.7 (195)	7.7 (195)	7.7 (195)

^{*} This is the minimum dimension from the wall. The wall bracket is adjustable to allow an additional 1.57 inches (40 mm).

Manual - Rinnai Condensing Water Heaters



Manual - Rinnai Condensing Water Heaters