City of Portland, Maine - Building or Use Permit Application

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

Permit No:	Issue Date:	CBL:
09-0643		406 A004001

Location of Construction:	Owner Name:	Owner Address:	Phone:
38 VERMONT AVE	CARRIERE CLAUDE M & NOREI	64 BROOK RD	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	W E Reynolds LLC	P.O. Box 494 Turner	2072252126
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	**Zone:**
		HVAC	R-3

Past Use:	Proposed Use:	Permit Fee:	Cost of Work:	CEO District:
Single Family Home leg Muse: Single Family	Single Family Home - install a me 80 boiler & Continuvm R75c in basement	$120.00	$10,000.00	4

FIRE DEPT: ☐ Approved ☐ Denied

Signature:

INSPECTION:
Use Group: R3 Type: HVAC
IRC 2003
ST. MAINE GHS Regulations
Signature: 6/22/09

Proposed Project Description:
install a me 80 boiler & Continuvm R75c in basement

PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)

Action: ☐ Approved ☐ Approved w/Conditions ☐ Denied

Signature: Date:

Permit Taken By:	Date Applied For:
Ldobson	06/22/2009

1. This permit application does not preclude the Applicant(s) from meeting applicable State and Federal Rules.
2. Building permits do not include plumbing, septic or electrical work.
3. 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..

Zoning Approval

Special Zone or Reviews	Zoning Appeal	Historic Preservation
☐ Shoreland	☐ Variance	☑ Not in District or Landmark
☐ Wetland to remain	☐ Miscellaneous	☐ Does Not Require Review
☐ Flood Zone DM	☐ Conditional Use	☐ Requires Review
☐ Subdivision	☐ Interpretation	☐ Approved
☐ Site Plan	☐ Approved	☐ Approved w/Conditions
Maj ☐ Minor ☐ MM ☐	☐ Denied	☐ Denied
Date: ok with conditions 6/22/09	Date:	Date:

PERMIT ISSUED

CITY OF PORTLAND

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 38 Vermont ST. Use of Building Residential Date 16 Jan '09

Name and address of owner of appliance Claude Carriere

64 Brook Road Portland ME

Installer's name and address W. E. Reynolds LLC

P.O. Box 494 Turner ME 04282 Telephone 207-225-2126 Cell 207-240-1407 (contact)

Location of appliance:

- ☒ Basement
- ☐ Floor
- ☐ Attic
- ☐ Roof

Type of Fuel:

- ☒ Gas
- ☐ Oil
- ☐ Solid

Appliance Name: MC 80 Boiler & Continuum RTC

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 # MS 30002614
- ☐ Gas # PNT 2943
- ☐ Other _____

Type of Chimney:

- ☐ Masonry Lined
  Factory built _____
- ☐ Metal
  Factory Built U.L. Listing # _____
- ☒ Direct Vent
  Type PVC (Combustion) UL# _____

Type of Fuel Tank NATURAL GAS

- ☐ Oil
- ☐ Gas

Size of Tank N/A

Number of Tanks N/A

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

Cost of Work: $ 10,170.00

Permit Fee: $ 120.00 30 1st 90 4 x 100s

Approved

Fire: _____

Ele.: _____

Bldg.: _____

Approved with Conditions

☐ See attached letter or requirement

_____ Inspector's Signature

_____ Date Approved

Signature of Installer _____ Walter Reynolds

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

City of Portland, Maine - Building or Use Permit

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Permit No:	Date Applied For:	CBL:
09-0643	06/22/2009	406 A004001

Location of Construction:	Owner Name:	Owner Address:	Phone:
38 VERMONT AVE	CARRIERE CLAUDE M & NOREI	64 BROOK RD	
Business Name:	**Contractor Name:**	**Contractor Address:**	**Phone**
	W E Reynolds LLC	P.O. Box 494 Turner	(207) 225-2126
Lessee/Buyer's Name	**Phone:**	**Permit Type:**	
		HVAC	

Proposed Use:	Proposed Project Description:
Single Family Home - install a me 80 boiler & Continuvm R75c in basement	install a me 80 boiler & Continuvm R75c in basement

Dept: Zoning **Status:** Approved **Reviewer:** Marge Schmuckal **Approval Date:** 06/22/2009

Note: **Ok to Issue:** ☑

Dept: Building **Status:** Approved with Conditions **Reviewer:** Tom Markley **Approval Date:** 06/22/2009

Note: **Ok to Issue:** ☑

1) The installation must comply with the State of Maine Gas Regulations.

2) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approrval prior to work.

PROPOSAL

W.E.REYNOLDS.L.L.C.
P O BOX 494
TURNER ME 04282

PROPOSAL NO.
SHEET NO.
DATE

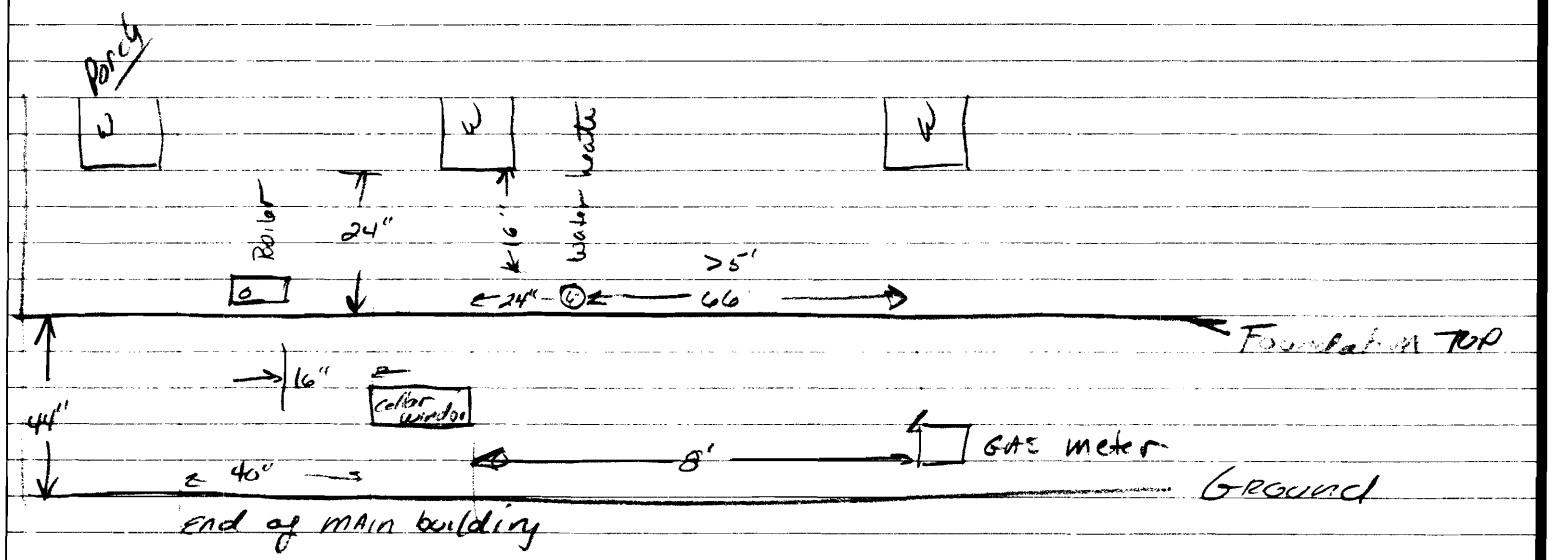
PROPOSAL SUBMITTED TO:

NAME 207 225 2126 Claude Cauvere
ADDRESS 38 Vermot ST
Portland
PHONE NO.

WORK TO BE PERFORMED AT:

ADDRESS
DATE OF PLANS
ARCHITECT

We hereby propose to furnish the materials and perform the labor necessary for the completion of Vent Terminations



All material is guaranteed to be as specified, and the above work to be performed in accordance with the drawings and specifications submitted for above work and completed in a substantial workmanlike manner for the sum of _____ Dollars ($_____)

with payments to be made as follows.

Respectfully submitted _____

Per _____

Any alteration or deviation from above specifications involving extra costs will be executed only upon written order, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents, or delays beyond our control.

Note — This proposal may be withdrawn by us if not accepted within _____ days.

ACCEPTANCE OF PROPOSAL

The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payments will be made as outlined above.

Signature _____

Date _____ Signature _____

Print Form

Munchkin Contender
Wall Mounted
Condensing Heater
Submittal Sheet
MC- Sub 1

HeatTransfer
Advanced Heating and Hot Water Systems
120 Braley Road · PO Box 429 · East Freetown MA 02717 · 508 763 8071 · Fax 508 763 3769

Munchkin Contender Wall Mounted Condensing Heater

JOB NAME: Claude Carriere
LOCATION: 38 Vermont St Portland Maine
ARCH./ENGR:
WHOLESALER: F.W.Webb
MECH. CONTRACTOR: W.E. Reynolds, L.L.C. P.O.Box 494 Turner Maine 04282
MODEL NUMBER: MC80
TYPE OF GAS: Natural
BTU/HR INPUT LOW FIRE: 19000
BTU/HR INPUT HIGH FIRE: 80000
NOTES:

Heat Exchanger

- Gasket less Heat Exchanger Design
- 30 PSI Relief Valve
- Removable Front Cover to access combustion chamber and burner
- Inlet and outlet temperature sensor

Combustion System

- Modulating burner with 3 to 1 turndown
- Up to .95EF / 93% AFUE
- High Grade Inconel Burner Design
- Direct Spark Ignition
- Models Available for Natural or LP Gas
- Dual Flame monitoring (Spark and Flame probe)

Integrated Control System

- Digital operating control with LED display with LED indicators for System Pump-Boiler Pump-DHW-Pump- System Fault – System operation
- Outdoor reset with Indirect Priority

Additional Features :

- Superior condensate collection system with float switch
- Vents in Plastic PVC –CPVC
- Vents up 85 equivalent feet (Combined Intake and Exhaust)
- 12 Year Limited Warranty
- A/C Convenience Receptacle for condensate pump
- Manual reset High temperature limit
- Dry contact for alarm output

Optional

☒ Vision 1 - Outdoor sensing

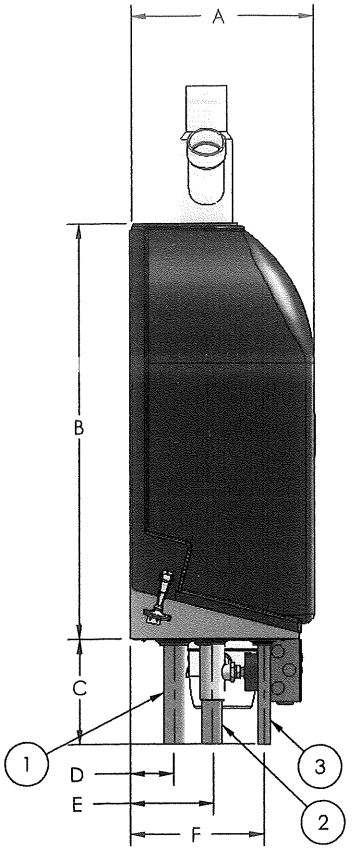
☒ Condensation Neutralization Kit (p/n #N1100)

☒ Stainless Steel Outside Termination Vent Kit (V500)

☒ Condensation Pump (p/n 554200))

☐ Alarm System (p/n 7350P-602)
(to monitor any failure)

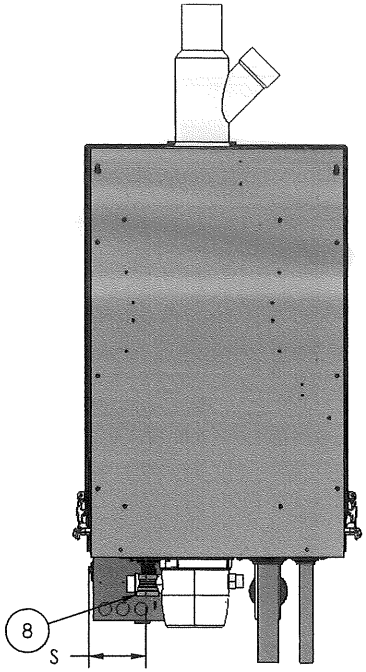
1. SYSTEM RETURN
2. SYSTEM SUPPLY
3. SYSTEM RELIEF
4. COMBUSTION AIR INLET CONNECTION
5. EXHAUST VENT CONNECTION
6. CONDENSATE CUP/DRAIN ASSEMBLY
7. ELECTRICAL BOX/CONTROL PANEL
8. GAS LINE CONNECTION



LEFT SIDE VIEW

FRONT VIEW

RIGHT SIDE VIEW



BACK VIEW

MUNCHKIN CONTENDER HEATER DIMENSIONS AND SPECIFICATIONS

MODEL NUMBER	BTU/HR INPUT LOW FIRE	BUT/HR INPUT HIGH FIRE	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	COMBUSTION AIR INLET/EXHAUST VENT CONNECTION SIZE	SYSTEM RELIEF PIPE SIZE	SYSTEM SUPPLY/ SYSTEM RETURN/ PIPE SIZE	GAS LINE CONN.	HEATER WATER VOLUME	ENERGY FACTOR EF	DOE EFF. AFUE 1	LOW WATER EFF. LTAAE 2	APPROX. SHIPPING WEIGHT
MC50	18,000	50,000	12.50	27.50	7.00	2.75	5.25	9.00	17.25	7.75	5.50	2.75	5.25	5.00	9.00	2.75	4.00	6.50	10.25	4.00	2.00	.75	1.25	.75	.58	.93	92%	98%	71 LBS
MC80	19,000	80,000	12.50	27.50	7.00	2.75	5.25	9.00	17,25	7.75	5.50	2.75	5.25	5.00	9.00	2.75	5.25	6.50	10.25	4.00	2.00	.75	1.25	.75	.67	.93	92%	98%	74 LBS
MC99	44,000	99,000	13.50	27.50	7.00	2.75	6.50	10.25	17.25	7.75	5.50	2.75	5.25	6.00	9.00	2.75	7.75	6.50	11.25	4.00	2.00	.75	1.25	.75	.96	.95	93%	98%	84 LBS
MC120	44,000	120,000	13.50	27.50	7.00	2.75	6.50	10.25	17.25	7.75	5.50	2.75	5.25	6.00	9.00	2.75	7.75	6.50	11.25	4.00	2.00	.75	1.25	.75	.96	.95	92%	98%	84 LBS

1 Tested by Heat Transfer Products to the ANSI/ASHRA Standard 103.
2 Tested by Heat Transfer Products to the ANSI/ASHRAE Standard 103 with 90° return and 110° supply water.

Rinnai.

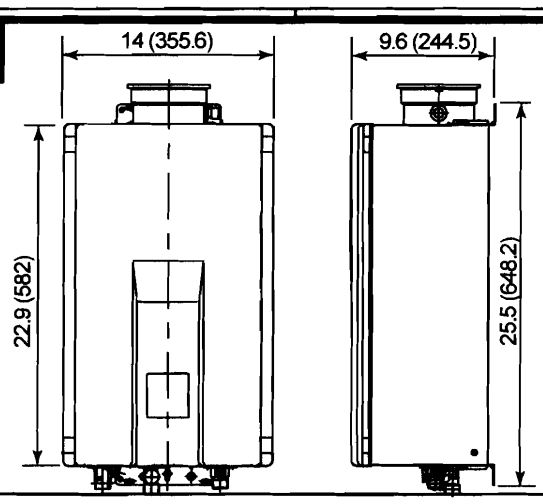
R75LSi (VA2528FFUD)

Water Temperature Control	Simulation feed forward and feedback
Controller	MC-91-1US (part of the front panel) Deluxe controller: MC-100V-1US (optional) Bathroom controller: BC-100V-1US (optional) Wireless controller: MC-502RC-1US-MS (optional) MCC-91-1US (for commercial applications)
Controller Cable	Non-polarized two-core cable, minimum 22 AWG
Safety Devices	• Flame failure - Flame Rod • Boiling protection • Combustion fan rpm check • Over current - glass fuse (3 amp) • Remaining flame (OHS) • Thermal fuse • Automatic frost protection
Clearances from Combustibles (suitable for closet, attic, and crawl space installations)	• Top of heater - 6 inches • Front of heater - 6 inches • Sides of heater - 2 inches • Back of heater - 0 inches • Bottom of heater - 12 inches • From vent pipe - 0 inches
Clearances from Non-combustibles	• Top of heater - 2 inches • Front of heater - 6 inches • Sides of heater - 1/2 inch • Back of heater - 0 inches • Bottom of heater - 12 inches • From vent pipe - 0 inches
Min. / Max. Gas Supply Pressure	Natural Gas: min 5" W.C. max 10.5" W.C. Propane Gas: min 8" W.C. max 13.5" W.C.
Manifold Gas Pressure (inches W.C.)	Natural Gas: high fire 2.7" W.C. low fire 0.52" W.C. Propane Gas: high fire 4.4" W.C. low fire 0.92" W.C.
NOx	Meets California and Texas NOx Emission Rules
Warranty	Heat exchanger: 12 years* for residential and 5 years* for commercial and hydronic applications; (10 years* if used with the Rinnai Hydronic Air Handler); all other parts 5 years*; labor 1 year; (* 3 years if used as a circulating water heater within a circulation loop, when the water heater is in series with a circulation system and all circulating water flows through the water heater)

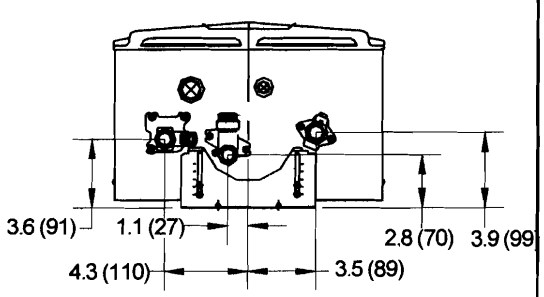
Rinnai is continually updating and improving products; therefore, specifications are subject to change without prior notice. Local, state, provincial and federal codes must be adhered to prior to installation.

DIMENSIONS

in (mm)



WEIGHT: 50 LBS (23 KG)



The wall bracket is adjustable to allow an additional 1.57 inches (40 mm).

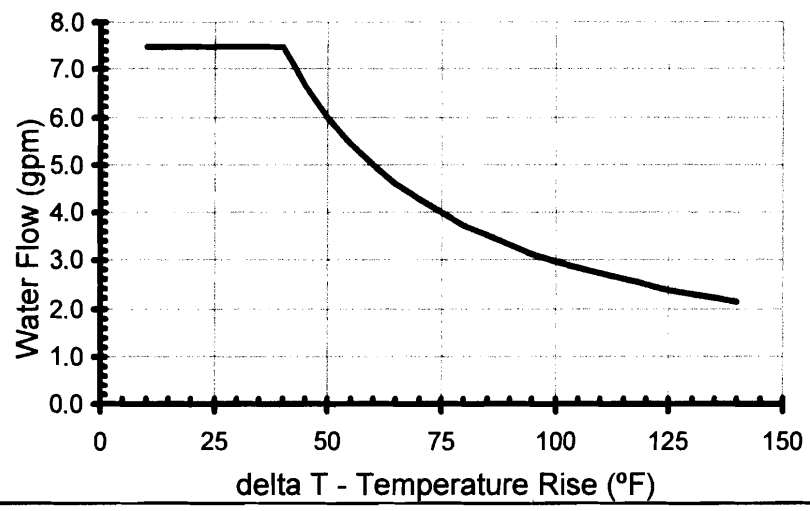
Rinnai Corporation • 103 International Drive • Peachtree City, GA 30269 • Toll-Free: 1-800-621-9419 • Fax: 678-364-8643 • www.rinnai.us

Rinnai.

R75LSi (VA2528FFUD)

Type of Appliance	Temperature controlled, continuous flow, gas hot water system
Rinnai Model Number	REU-VA2528FFUD(A)-UC
Operation / Exhaust System	Forced combustion / Direct vent
Minimum/Maximum Gas Rate (Input)	15,000 - 180,000 BTU/h (Natural Gas and Propane)
Electrical	Appliance: AC 120 Volts - 60 Hz Controller: DC 12 Volts
Electrical Consumption	Normal 65 watts Standby 2.0 watts Anti-frost protection 100 watts
Ignition System	Direct electronic ignition
Hot Water Capacity	0.6 to 7.5 GPM (35° F rise)
Temperature	98° - 120° F (factory default) Maximum temperature is selectable at 120° F or at 140° F; 98° - 160° F available with the MCC-91 controller for commercial and hydronic applications
Temperature (without remote)	120° F (factory default)
Approved Gas Types	Natural or Propane (ensure unit matches gas type)
Installation	Indoor only
Energy Factor	Natural Gas: 0.82 Propane: 0.82
Thermal Efficiency	Natural Gas: 84% Propane: 84%
Service Connections	Gas supply: 3/4 inch MNPT Cold water inlet: 3/4 inch MNPT Hot water outlet: 3/4 inch MNPT
Water Flow Control	Water flow sensor, electronic water control device and fixed by-pass
Minimum/Maximum Water Supply Pressure	20 - 150 PSI (recommended 30-80 PSI for maximum performance)

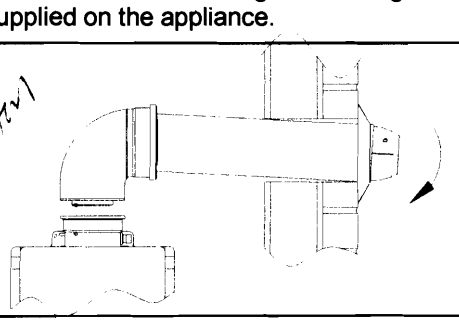
FLOW TABLE



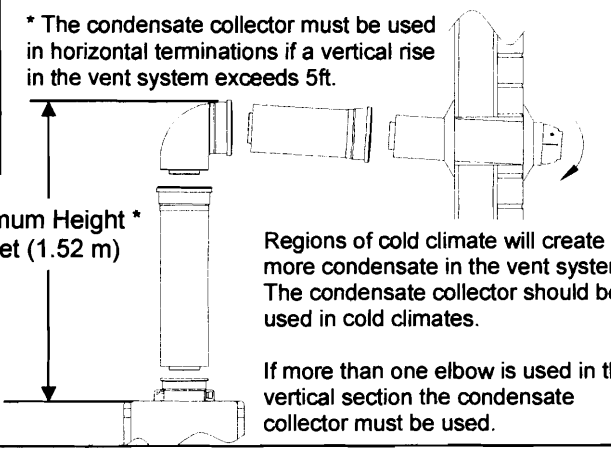
Horizontal Termination without using the Condensate Collector

⚠ WARNING

If the condensate collector is not used, the drain pipe must be capped to prevent exhaust gases and condensate from entering the building. The cap is supplied on the appliance.



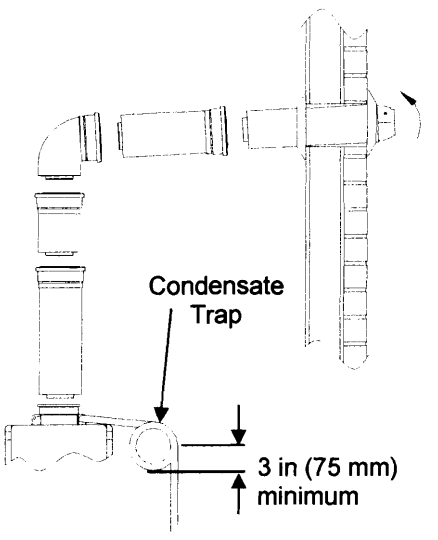
* The condensate collector must be used in horizontal terminations if a vertical rise in the vent system exceeds 5ft.



Regions of cold climate will create more condensate in the vent system. The condensate collector should be used in cold climates.

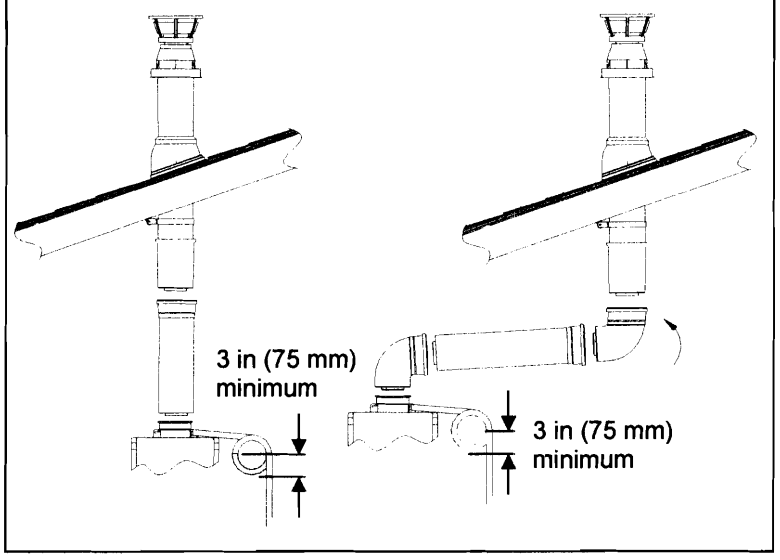
If more than one elbow is used in the vertical section the condensate collector must be used.

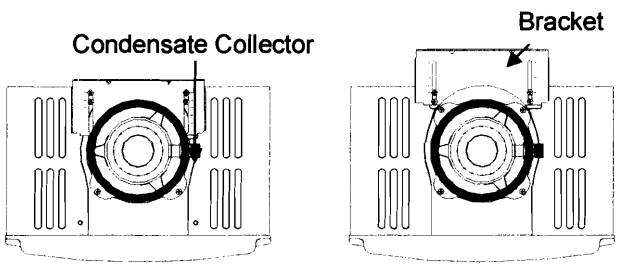
Horizontal Termination using the Condensate Collector



Vertical Termination

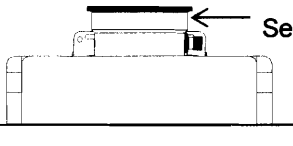
(condensate collector must be used in all installations)





To adjust the condensate collector position or to replace the female vent top with a male vent top:

1. Loosen the 4 screws at the rear bracket
2. Slide the bracket away from the female vent top.
3. Remove the 4 screws attaching the female vent top to the water heater.
4. Lift up the female vent top and reposition as desired (or replace with a male vent top).
5. Install the 4 screws at the vent top and tighten the 4 screws at the bracket.



Secure the first vent component to the water heater with one self-tapping screw at the hole located above the condensate collector.