



CERTIFICATE OF APPROPRIATENESS PLACARD

for Raleigh Historic Resources

Project Description:

105 N BLOODWORTH STREET

Address

OAKWOOD

Historic District

Historic Property

019-16-MW

Certificate Number

1/27/2016

Date of Issue

7/27/2016

Expiration Date

- Install tankless water heater.

OK to PERMIT

This card must be kept pasted in a location within public view until all phases of the described project are complete. The work must conform with the code of the City of Raleigh and laws of the state of North Carolina. When your project is complete, you are required to ask for a final zoning inspection in a historic district area. Telephone the RHDC office at 832-7238 and commission staff will coordinate the inspection with the Inspections Department. If you do not call for this final inspection, your Certificate of Appropriateness is null and void.

Signature

Raleigh Historic Development Commission

Pending the resolution of appeals, commencement of work is at your own risk.



Planning & Development

Development Services
 Customer Service Center
 One Exchange Plaza
 1 Exchange Plaza, Suite 400
 Raleigh, North Carolina 27601
 Phone 919-996-2495
 eFax 919-996-1831

Raleigh Historic Development Commission – Certificate of Appropriateness (COA) Application



- Minor Work (staff review) – 1 copy
- Major Work (COA Committee review) – 13 copies
- Most Major Work Applications
- Additions Greater than 25% of Building Square Footage
- New Buildings
- Demo of Contributing Historic Resource
- Post Approval Re-review of Conditions of Approval

For Office Use Only

Transaction # 459839

File # 019-16-MW

Fee \$29.00

Amt Paid \$29.00

Check # Credit Card

Rec'd Date 1-20-16

Rec'd By K. Pruitt

• If completing by hand, please use **BLACK INK**. Do not use blue, red, any other color, or pencil as these do not photocopy.

Property Street Address **105 N. Bloodworth St., Raleigh, NC 27601**

Historic District **Oakwood**

Historic Property/Landmark name (if applicable)

Owner's Name **Marc & Kristen Spancake**

Lot size **4093**

(width in feet) **39.36-39.80**

(depth in feet) **103.15-103.67**

For applications that require review by the COA Committee (Major Work), provide addressed, stamped envelopes to owners of all properties within 100 feet (i.e. both sides, in front (across the street), and behind the property) not including the width of public streets or alleys:

Property Address	Property Address

I understand that all applications that require review by the commission's Certificate of Appropriateness Committee must be submitted by 4:00 p.m. on the application deadline; otherwise, consideration will be delayed until the following committee meeting. An incomplete application will not be accepted.

Type or print the following:

Applicant **Marc Spancake**

Mailing Address **105 N. Bloodworth St.**

City **Raleigh** State **NC** Zip Code **27601**

Date **1/4/16** Daytime Phone **919-999-6863**

Email Address **thespancakes@gmail.com**

Signature of Applicant 

Minor Work Approval (office use only)

Upon being signed and dated below by the Planning Director or designee, this application becomes the Minor Work Certificate of Appropriateness. It is valid until 7/27/16. Please post the enclosed placard form of the certificate as indicated at the bottom of the card. Issuance of a Minor Work Certificate shall not relieve the applicant, contractor, tenant, or property owner from obtaining any other permit required by City Code or any law. Minor work projects not approved by staff will be forwarded to the Certificate of Appropriateness Committee for review at the next scheduled meeting.

Signature  Date 1/27/16

Project Categories (check all that apply):

- Exterior Alteration
- Addition
- New Construction
- Demolition

Will you be applying for state or federal rehabilitation tax credits for this project?

- Yes
- No

(Office Use Only)

Type of Work 50

Design Guidelines Please cite the applicable sections of the design guidelines (www.rhdc.org).

Section/Page	Topic	Brief Description of Work
3.10.3, 3.10.8, p. 47	Utilities & Energy Retrofit	Install a new external tankless water heater on the north side of the dwelling, approximately 4' beyond the window furthest from the street. The unit will be a Rinnai RL75eN with the following dimensions: Width 14", Height: 23", Depth: 9". The pipes connecting the bottom of the unit to the water and gas lines will be disguised with a Rinnai PCD03-SM2 pipe cover with the following dimensions: Width 14", Height: 18", Depth: 9". Intended location of unit is outlined in the provided photographs.

	TO BE COMPLETED BY APPLICANT		TO BE COMPLETED BY CITY STAFF		
	YES	N/A	YES	NO	N/A
<p>Attach 8-1/2 " x 11" sheets with written descriptions and drawings, photographs, and other graphic information necessary to completely describe the project. Use the checklist below to be sure your application is complete.</p> <p>Minor Work (staff review) – 1 copy</p> <p>Major Work (COA Committee review) – 13 copies</p>					
1. Written description. Describe clearly and in detail the nature of your project. Include exact dimensions for materials to be used (e.g. width of siding, window trim, etc.)	<input checked="" type="checkbox"/>				
2. Description of materials (Provide samples, if appropriate)	<input checked="" type="checkbox"/>				
3. Photographs of existing conditions are required.	<input checked="" type="checkbox"/>				
4. Paint Schedule (if applicable)	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
5. Plot plan (if applicable). A plot plan showing relationship of buildings, additions, sidewalks, drives, trees, property lines, etc., must be provided if your project includes any addition, demolition, fences/walls, or other landscape work. Show accurate measurements. You may also use a copy of the survey you received when you bought your property. Revise the copy as needed to show existing conditions and your proposed work.	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
6. Drawings showing proposed work <ul style="list-style-type: none"> <input type="checkbox"/> Plan drawings <input type="checkbox"/> Elevation drawings showing the new façade(s). <input type="checkbox"/> Dimensions shown on drawings and/or graphic scale. <input type="checkbox"/> 8-1/2" x 11" reductions of full-size drawings. If reduced size is so small as to be illegible, make 8-1/2" x 11" snap shots of individual drawings on the big sheet. 	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
7. Stamped envelopes addressed to all property owners within 100 feet of property not counting the width of public streets and alleys. (Required for Major Work)	<input type="checkbox"/>	<input checked="" type="checkbox"/>			
8. Fee (See Development Fee Schedule)	<input checked="" type="checkbox"/>				















Type of Appliance

- Temperature controlled, continuous flow, gas hot water system
- Certified for installation in manufactured (mobile) homes
- Forced combustion

Rinnai Model Number

REU-VC2528WD-US

Operation / Installation

Forced combustion; outdoor only

Minimum/Maximum Gas Rate (Input)

10,300 - 180,000 BTU/h

Electrical

Appliance: AC 120 Volts - 60 Hz
 Controller: DC 12 Volts

Electrical Consumption

Normal: 57 w Standby: 2 w Anti-frost protection: 104 w

Amperage

Max with pump: 8A Max without pump: 4A Fuse: 10A

Ignition System

Direct electronic ignition

Hot Water Capacity

Minimum flow rate: 0.26 GPM (1 l/min)
 Minimum activation flow rate: 0.4 GPM (1.5 l/min)
 Maximum flow rate: 7.5 GPM (28.4 l/min)

Temperature

98° - 120° F (37° - 49° C) (factory default) Maximum temperature is selectable at 120° F (49° C) or at 140° F (60° C); 98° - 160° F (37° - 71° C) available with the MCC-91-2 controller for commercial and hydronic applications

Temperature (without remote)

120° F (49° C) (factory default) or 140° F (60° C)

Installation

Outdoor only

Energy Factor

Natural Gas: 0.82 Propane: 0.82

Service Connections

Gas supply: 3/4 inch MNPT Cold water inlet: 3/4 inch MNPT
 Hot water outlet: 3/4 inch MNPT

Isolation & Pressure Relief Valves Included

Isolation Valves are certified to NSF/ANSI 61 for potable water

Water Flow Control

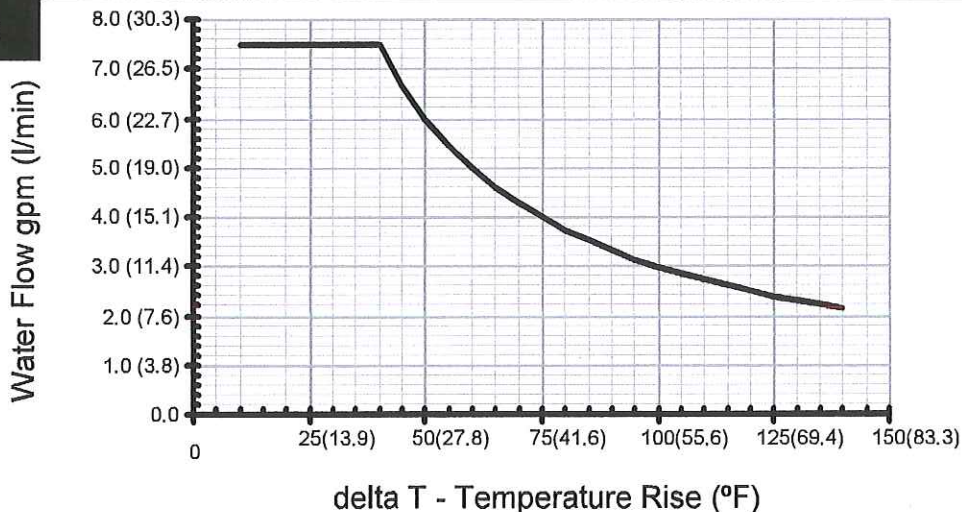
Water flow sensor, electronic water control device and fixed by-pass

Minimum/Maximum Water Supply Pressure

20 - 150 PSI (138-1035 KPa) (recommended 30-80 PSI (209 - 552 KPa for optimal performance)

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.

FLOW TABLE



External Recirculation Pump Control
Water Temperature Control
Controller

Rinnai Circ-Logic™: Recirculation program cycles external pump

Simulation feed forward and feedback

- MC-91-2US (included)
- Deluxe controller: MC-100V-1US (optional)
- Bathroom controller: BC-100V-1US (optional)
- MCC-91-2US (optional; for hydronic and commercial applications)
- MC-195T-US (optional; for use with Circ-Logic)

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
- Remaining flame (OHS)
- Thermal fuse
- Automatic frost protection

Clearances from Combustibles

- Top of heater - 12 inches(305mm)
- Front (Panel) - 24 inches(610mm)
- Front (Exhaust) - 24 inches(610mm)
- Back of heater - 0 inches
- Bottom of heater - 12 inches(305mm)
- Sides of heater - 6 inches(152mm)

Clearances from Non-combustibles

*24 inches required for serviceability

- Top of heater - 2 inches(51mm)
- Front (Panel) - 0 inches *
- Front (Exhaust) - 24 inches(610mm)
- Back of heater - 0 inches
- Bottom of heater - 2 inches(51mm)
- Sides of heater - 1/8 inch(3.2mm)

Min. / Max. Gas Supply Pressure

Natural Gas: min 4" W.C. (10mbar) max 10.5" W.C. (26.1mbar)
 Propane Gas: min 8" W.C. (20mbar) max 13.5" W.C. (33.6mbar)

Manifold Gas Pressure (inches W.C.) (sea level)

Natural Gas: high fire 2.0" W.C. (5.0mbar) low fire 0.52" W.C. (1.30mbar)
 Propane Gas: high fire 3.5" W.C. (8.7mbar) low fire 0.80" W.C. (2.00mbar)

NOx

Complies with South Coast Air Quality Management District 14 ng/J or 20 ppm NOx emission levels

Limited Warranty

Heat exchanger: 12 years* for residential, 10 years for residential and space heating, and 5 years* for commercial; All other parts: 5 years*; Labor: 1 year;

(* 3 years from date of purchase when used as a recirculating water heater within a hot water recirculation loop, where the water heater is in series with a recirculation system and all recirculating water flows through the water heater, and where an aquastat/thermostat, timer, or an on-demand recirculation system is not incorporated.) Refer to the manual for complete warranty information.

DIMENSIONS

WEIGHT: 43.6 lb (19.8 kg)

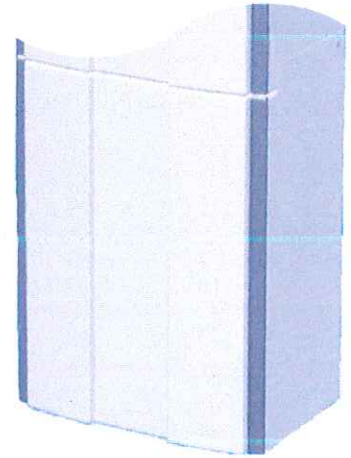
DIMENSION	Inches (mm)	DIMENSION	Inches (mm)
A (GAS)	1.31 (33.2)	D	4.33 (110)
A (COLD)	1.93 (49)	E	2.91 (73.8)
A (HOT)	1.35 (34.4)	F	1.61 (40.8)
B	3.96 (100.7)	G	2.87 (73)
C	1.17 (29.8)		

Application: For covering the water and gas piping of the R63LSe2, R75LSe, and R94LSe water heaters

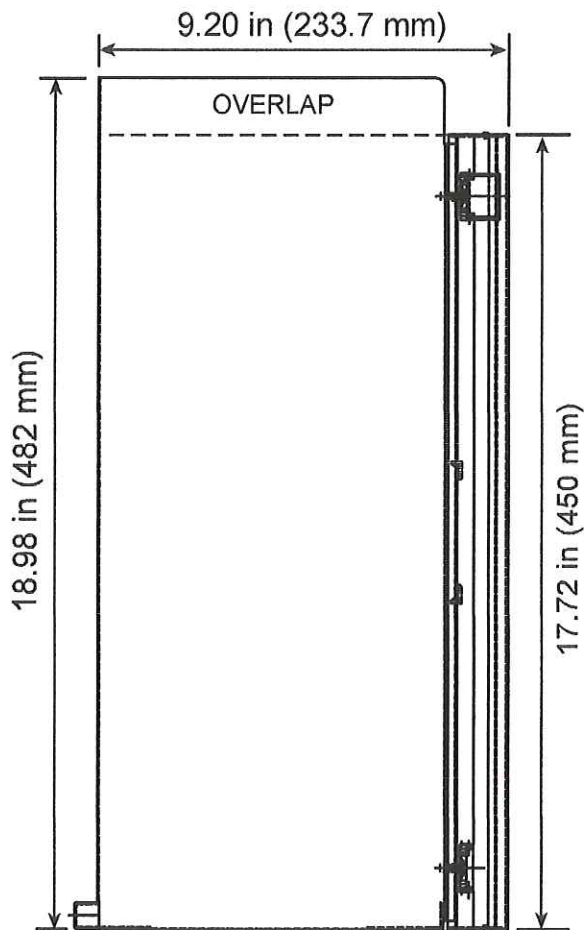
Material: Galvanized Steel

Color: Silver

Note: When roughing in a unit, take into account that the pipe cover overlaps the water heater by 1-1/4 in (32 mm).



SIDE VIEW



FRONT VIEW

