

COMMERCIAL APPLICATION PROJECT FORM



Please send completed form to engineering@rinnai.us.

CUSTOMER INFORMATION

Customer Name:			Date:			
Rep/Dealer/Installer Name:						
Company:						
Phone:			Email:			
Job Name:						
Address:						
City:			State:		Zip:	

APPLICATION INFORMATION

Application Type		
Fuel Type	NG	
	LP	
Equipment Arrangement	Tankless Options Only	
	Tankless with Storage	
Installation Type	Non-Condensing Tankless	
	Condensing Tankless Water Heaters	
Equipment Location	Indoor	
	Outdoor	

SIZING CONSTRAINTS

Set Temp.	°F
Ground Temp.	°F
Temperature Rise	°F
Elevation	ft

Note:

- 1) Please list as applicable any diversity requirements for specific hot water fixtures
- 2) If you have a split system please note how the system is separated by using the Fixture ID#'s
- 3) Also note if there are to be different temperatures in each system
- 4) Restaurant: All commercial kitchens will be sized using a 100°F temperature rise unless instructed otherwise. Ensure make and model of commercial dishwasher is listed below. Provide fixture type and quantity of all hot water fixtures
- 5) If hotel, apartment/condo, nursing/retirement home or the like, fill out hot water fixture list and room quantities in appropriate tables
- 6) Laundry: enter quantity and capacity of each washer

HOT WATER FIXTURE LIST (enter as applicable)

ID	QTY.	TYPE	ID	QTY.	TYPE
1			14		
2			15		
3			16		
4			17		
5			18		
6			19		
7			20		
8			21		
9			22		
10			23		
11			24		
12			25		
13			26		

NOTES

APPLICATION PROJECT FORM

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HOTELS, APARTMENTS/CONDOS/NURSING/RETIREMENT HOMES

ROOM TYPE	QUANTITY
1 Bedroom	
2 Bedroom	
3 Bedroom	

LAUNDRY (list washer quantity, pound capacity and operational diversity)

WASHER	QTY	POUND CAPACITY (LB)	% DIVERSITY
1			
2			
3			
4			
5			
6			
7			
8			

Complete below if a Rinnai Tankless Rack System and/or Common Venting will be used.

TANKLESS RACK SELECTION

Tankless Rack Option	Wall Mount
	Free Standing (back-to-back)
	Free Standing (inline)

Enter information below for exhaust components only.

VENT SELECTION

Select Vent Option	Common Vent (back-to-back)*
	Common Vent (inline)*
	Standard Concentric
	PVC
How will vent terminate?	Roof
	Wall
What is the elevation (ft)?	
What is the roof pitch?	
What is the total vent run (ft)? (exclude 90° and 45° elbows)	
How many 90° elbows/vent run?	
How many 45° elbows/vent run?	
Will vent pass through interior fire wall?	Yes
	No

* Common Vent System is for use only with Rinnai Tankless condensing water heater RU98i, RUC98i AND CI99i)

DISCLAIMER:

- The Application Engineers at RAC are relying on the information provided above to try to assist you in determining the model type and number of products needed to meet your particular application. This sizing analysis is intended to be used as a guide only and not as a replacement for a professionally engineered project. The Application Engineers have not been to the location so this guidance is for your assistance only and should not be the sole factor in making your decision. Sizing does not describe a complete system. The contractor/engineer must determine the necessary components for and configuration of the particular system being installed. Sizing does not imply compliance with local building codes. It is the engineer/contractor responsibility to ensure the installation is in accordance with all local building codes. Confer with local building officials before installation.
- When using a Rinnai product as the heat source for a circulation loop, the piping systems should be designed with a hot water circulation loop having a minimum circulating flow rate of 3 GPM. You must also review pressure drop curves for the Rinnai when sizing circulators.
- The Circulation Pump must be controlled by an aqua stat, timer or both. Rinnai Tankless Water Heaters cannot be used in applications requiring 180-195°F water at a DISHWASHER, unless a booster heater capable of producing 180-195°F water is provided at the dishwasher. The Rinnai Tankless Water Heater is not to be used as a booster water heater in these applications.
- For applications using a commercial dishwasher, a hot water circulating loop feeding the dishwasher must be installed.
- For Beauty Salon applications, a hot water circulation loop feeding the head wash stations is highly recommended. This provides instant hot water to head wash stations and reduces the occurrence of cold burst. (Refer to Hot Water System Design Manual for piping schematics). Insulation of recirculation piping is also recommended for heat retention.
- Air surrounding the tankless water heater, venting, and vent termination(s) is used for combustion and must be free of any compounds that cause corrosion of internal components. **Please refer to Rinnai Operation and Installation manual for further information.**
- Remember that gases from beauty salons and fume hoods of commercial dish washers with chemical sanitizers can be highly corrosive and may cause premature failure of water heater components. Care must be taken to ensure tankless and vent termination are installed away from that area. An uncontaminated supply of combustible air must be maintained for optimum performance of the water heater.
- If the intended installation is located in hard water area, a softener or similar water treatment system must be used. Always remember to perform routine maintenance.
- Rinnai America Corporation, its agents, employees, directors, officers, parent or affiliate companies assume no liability for damages arising from information provided herein to or by consumers or third parties or for damages arising from or associated with water quality, compliance with local codes, installation methods, materials or other circumstances related to application or installation.

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