

# COMMERCIAL APPLICATION PROJECT FORM



Please send completed form to [engineering@rinnai.us](mailto:engineering@rinnai.us).

## CUSTOMER INFORMATION

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

## APPLICATION INFORMATION

Job Type			
Fuel Type	Natural Gas		Liquid Propane
Installation Location	Indoor		Outdoor
Product Interest	Tankless Water Heater		
	Tankless Rack System		
	Tankless Rack System with Storage		
	Demand Duo™ Hybrid System		

## SIZING PARAMETERS

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

Note:

- 1) Please list any applicable diversity requirements for specific hot water fixtures.
- 2) For split/zoned systems, identify fixtures that are associated with each system by using the Fixture ID number.
- 3) Note temperature requirements for systems.
- 4) **Food Service:** All food service applications will be sized at 100°F temperature rise unless instructed otherwise. Ensure the make and model of commercial dishwasher(s) are listed below. Provide fixture type (i.e. mop sink) and quantity of all hot water fixtures.
- 5) **For Hospitality, Multifamily, Healthcare or the like:** Fill in the hot water fixture list and room quantities in the appropriate table.
- 6) **Laundry:** Enter quantity and capacity of each washer.

## HOT WATER FIXTURE LIST (enter as applicable)

ID	QTY.	TYPE	% DIVERSITY	ID	QTY.	TYPE	% DIVERSITY
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 (Provide Make and Model of existing or specified water heater here.)

## HOSPITALITY, MULTIFAMILY, DORMS AND HEALTHCARE

ROOM TYPE	QTY
1 Bedroom/ 1 Bath	
2 Bedroom/1 Bath	
2 Bedroom/2 Bath	
3 Bedroom/1 Bath	
3 Bedroom/2 Bath	
3 Bedroom/3 Bath	

## LAUNDRY

(List washer quantity, pound capacity and operational diversity.)

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

Complete below if a Rinnai Tankless Rack System, Demand Duo™ Hybrid Water Heating System and/or Common Venting will be used.

## TANKLESS RACK SYSTEM SELECTION

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

## DEMAND DUO™ SELECTION

Select Demand Duo™ Option	Demand Duo™ 80
	Demand Duo™ 119
	Demand Duo™ 2

## VENTING SELECTION

Select Venting Option	Common Vent (back-to-back)*	
	Common Vent (inline)*	
	Flex Pipe	
	Concentric	
	PVC / CPVC	
How will vent terminate?	Roof	Wall
What is the combustion air requirement?	Room Air	Direct Vent
What is the elevation (ft)?		
What is the total vent run (ft)?		
How many elbows / vent run?	Qty: 90° Elbows	Qty: 45° Elbows
Will vent pass through interior fire wall?	Yes	No
What is the roof pitch?		

## NOTES

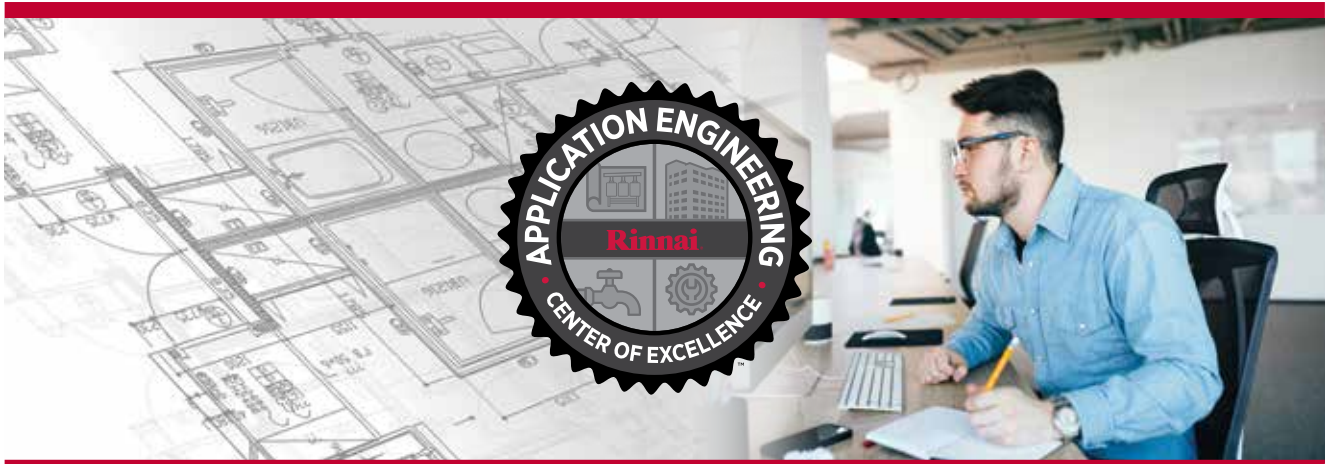
\* Common Venting System is for use only with Rinnai SENSEI™ Tankless Condensing Water Heater (RU199i, RU160i, CU199i and CU160i)

### DISCLAIMER:

- Rinnai America Corporation Application Engineers 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 define the 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 responsibility of the engineer/contractor 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. Pressure drop curves for the Rinnai when sizing circulators must also be reviewed.
- 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-washing stations is highly recommended. This provides instant hot water to head-washing 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, 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.

# Application Engineering Center of Excellence

Our team of application engineers is available to provide quotes, size your system and provide designs for your specific project — all at no charge and backed by our 100% sizing guarantee. Using proven sizing methodologies, Rinnai's Application Engineering Center of Excellence is there to consult with you and provide the best total solution for your next project. Call them at **1-800-621-9419** or email at **engineering@rinnai.us**.



- Unmatched customer support
- Quick sizing and quote turnaround
- Proven sizing methodologies
- Cost effective – value engineered designs
- Utilizing storage when necessary
- Full system drawings and BOM provided
- ROI: Running cost/savings/carbon emissions calculations

- Custom engineered water heating solutions via Made to Order (MTO) process
- 100% sizing guarantee\*
- On-site review and consultation if required
- Accessible tech documents: submittals, spec sheets, CAD drawings, Revit files and more

\* Sizing are guaranteed provided original fixture list and sizing parameters (e.g., temps, elevation) do not change.

## Partner with Rinnai National Accounts

Rinnai National Accounts is committed to keeping businesses up and running with innovative water heating products, prompt service and the best warranty available.

Become a Rinnai Commercial Service Provider and participate in the National Accounts Program.

- Grow your business
- Pre-negotiated labor rates
- Direct payment from Rinnai
- No sales/marketing expense
- Access to on-line training
- Leads for future installs

For complete details on commercial water heating solutions and maintenance services, call 866-383-0707 or email **commercialservices@rinnai.us**.