

A row of three Rinnai Demand Duo commercial hybrid water heaters installed in a utility room. The units are grey and white, with copper piping and white vent pipes. The Rinnai logo is visible on the front panel of the rightmost unit.

**Rinnai**  
WATER HEATING SOLUTIONS

# Demand Duo™

endless advantages for dealers and installers

COMMERCIAL HYBRID WATER HEATING SYSTEM FOR DEALERS AND INSTALLERS



CONNECTION LOCATIONS:

- 1 Electrical
- 2 Gas
- 3 Cold Supply
- 4 Hot Supply
- 5 Concentric Vent Intake/Exhaust
- 6 Two Pipe Combustion Air Intake
- 7 Tank T&P
- 8 Tank Drain Valve
- 9 Condensate Drain (behind cover)
- 10 Temperature Controller
- 11 Tankless PRV



# Quick installation, long-term benefits for your customers

Rinnai's Demand Duo™ Commercial Hybrid Water Heating System is the smart choice when it's time to replace a standard tank. Our unique “best of both” system lets you offer a quick and easy upgrade that delivers an on-demand and continuous supply of hot water.

- **Built standard with 199,000 BTU C199 Commercial Tankless Water Heater:**
  - Ultra Low NOx compliant
  - Commercial ENERGY STAR® certified
  - 96% thermal efficiency
- **Multiple venting options (PVC/CPVC, Room Air, Concentric, Common Vent)**
- **System weight up to 250 lbs. lighter than competitive units**

## Why choose Rinnai® Demand Duo™?

- **Longer life vs. traditional tank**
- **2X the warranty\*\***  
6-year heat exchanger and tank, 5-year parts, 2-year labor
- **Saves money with less energy cost vs. standard-efficiency water heater**
- **Combines best of tank and tankless technologies**
- **Easy and cost-effective maintenance** - all parts field replaceable
- **100% satisfaction** - The Demand Duo™ is backed by our limited warranty. We are so sure your customers will be happy with their purchase that we offer a No Risk Satisfaction Guarantee\*

\* Rinnai guarantees that its Demand Duo™ will perform to specification. If within the first 30 days after installation you find it does not perform as stated and you are not 100% satisfied with the Demand Duo™, Rinnai will refund you the cost of the product, and installation labor. Rinnai reserves the right to verify correct installation prior to refund. For complete details, see our warranty at rinnai.us.  
 \*\* For complete information and details regarding Rinnai's warranty, visit rinnai.us.  
 \*\*\* For complete information on gas sizing for Rinnai Tankless Water Heaters, consult the Operation and Installation Manual.  
 \*\*\*\* Per test results from Rinnai testing lab based on 119-gallon storage volume and 70 percent usable hot water.

# Get the best of both

**Part tank** →

- Durable, energy-efficient 119-gallon storage tank
- Ideal for emergency replacement situations
- Offers more water-heating capacity than a traditional tank
- A direct replacement solution with connections similar to most high-efficiency tanks
- Efficient tank recovery methods deliver consistent hot water even during reheat cycles

← **Part tankless**

- Fueled by either natural gas or propane
- Keeps pace with demand, from brief, high-spike draws to a supply that's ready to go the distance, day in and day out
- Commercial ENERGY STAR® certified with 96% thermal efficiency (C199)
- As the heat source, the Rinnai C199 tankless unit eliminates thermal stress on the tank - lengthening the life of the unit and its ability to consistently output hot water
- Easy, cost-effective maintenance with readily available parts



Part Number	CHS199100iN/CHS199100iP
Dimensions - w x h x d Inches (mm)	28.2 x 67.3 x 39.1 (358.1 x 1709.1 x 993.1)
Weight (lbs/kg)	428/194
Installation Type	Indoor
Storage Tank	119 Gallons
Min/Max BTU	15,200/199,000
Thermal Efficiency (C199)	96%
Temperature Range	98°-185°F/37°-85°C
Hot Water Capacity****	First Hour Delivery: 315 gph
Controller (standard)	MC-91-2US
Ultra Low NOx	Yes
Warranty (Commercial)**	Limited 6-year on heat exchanger/tank, 5-year on parts, up to 2 years labor
High Altitude Approved	10,200 ft
Certification	C199 - AHRI and CSA
Venting Material	Ubbink Polypropylene Concentric, PVC/CPVC
Venting Options	Direct vent with side wall intake/vertical exhaust for U.S. and Canada (exhaust must terminate vertically), room air common vent for the U.S.
ENERGY STAR® Certified	Yes
1/2" Gas Line Compatible***	Yes
Wi-Fi Ready	Yes



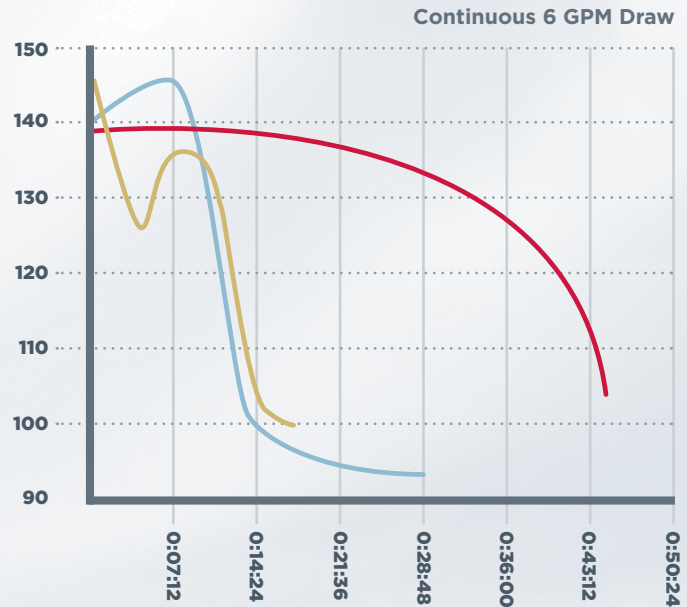
# Performance vs. traditional tanks

Internal tests were conducted to show temperature ranges and volume of hot water at a specific Gallons Per Minute (GPM) draw.

Based on a continuous draw at **6 GPM**, the **Rinnai® Demand Duo™** provides **more stable temperatures as well as more hot water** than both standard- and high-efficiency tanks.

- High-Efficiency Tank (100 Gallon)
- Standard-Efficiency Tank (80 Gallon)
- Rinnai Demand Duo™ (119 Gallon)

Note: All tests were conducted with a fully charged tank set at 140°F. This was a draw only test with no recovery, with supply water temperature at 40°F.

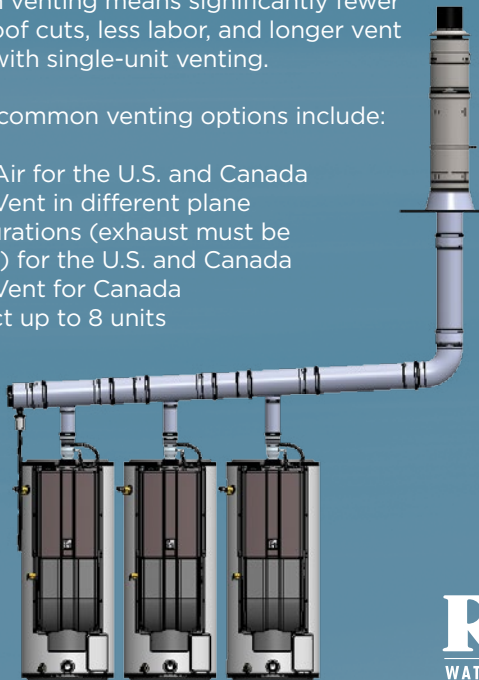


## Common vent solutions

Common venting means significantly fewer wall or roof cuts, less labor, and longer vent lengths with single-unit venting.

Existing common venting options include:

- Room Air for the U.S. and Canada
- Direct Vent in different plane configurations (exhaust must be vertical) for the U.S. and Canada
- Direct Vent for Canada
- Connect up to 8 units



## Endless support behind you

Beyond manufacturing the highest-quality products, our people stand behind all that we make — before, during and long after installation. From the **24/7/365 technical support** for professionals, to our **national network of independent dealers**, to our **on-staff engineers** who can assist with choosing the right products and sizes — we're inspiring confidence as well as comfort.

For more information on commercial water heating solutions, maintenance services and a free sizing consultation by Rinnai Applications Engineers, call **866-383-0707** or visit [rinnai.us/commercial](http://rinnai.us/commercial).



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