

## Item Number: CHS199100HCXiN

Attribute	Value
Featured Image	<a href="https://rinnai.widen.net/content/ne8uvzrhg/web/DemandDuo_HSeries_CHS100199_HX_Silo_CoverON_0001.png?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/ne8uvzrhg/web/DemandDuo_HSeries_CHS100199_HX_Silo_CoverON_0001.png?u=vmp7gq&amp;download=true</a>
Product Category	Water Heating>Demand Duo>Demand Duo H-Series
Active for Ecommerce	Yes
Audience	Commercial
Automatic Gas-Leak Detector	No
Cascading (Y/N)	No
Certifications	ASI Z21.10.3,AHRI,CSA 4.3 and ENERGY STAR Certified (CU199i)
Certified SCAQMD Approved	Ultra Low NOx
Clearance from Combustibles (Back)	0" / (0 mm)
Clearance from Combustibles (Bottom)	0" / (0 mm)
Clearance from Combustibles (From vent pipe)	0" / (0 mm)
Clearance from Combustibles (Front)	6" / (152 mm)
Clearance from Combustibles (Sides)	0" / (0 mm)
Clearance from Combustibles (Top)	2" / (51 mm)
Clearance from Non-Combustibles (Back)	0" / (0 mm)
Clearance from Non-Combustibles (Bottom)	0" / (0 mm)
Clearance from Non-Combustibles (From vent pipe)	0" / (0 mm)
Clearance from Non-Combustibles (Front)	6" / (152 mm)
Clearance from Non-Combustibles (Sides)	0" / (0 mm)
Clearance from Non-Combustibles (Top)	2" / (51 mm)
Clearances required for service (Front)	24" / (610 mm)
Cold Water Inlet Connection	1-1/2" MNPT / (38 mm)
Color	Gray
Condensate Line Connection	Yes
Country of Origin	United States
Domestic Hot Water First Hour Delivery	317
Domestic Hot Water Natural Gas (Btuh/kW) - Input Maximum	199,000 BTU / (58.3 kW)
Domestic Hot Water Natural Gas (Btuh/kW) - Input Minimum	15,000 BTU / (4.3 kW)
Domestic Hot Water Outlet Connection	1-1/2"MNPT
Domestic Hot Water Temperature Range (Commercial) (°F/°C)	98F-185F / (37C-85C)
Domestic Hot Water Temperature Range (Standard) (°F/°C)	98F-185F / (37C-85C)
Domestic Water Supply Pressure: Maximum	150 PSI / (1035 kPa)
Domestic Water Supply Pressure: Minimum	15 PSI / (103 kPa)

Attribute	Value
Electrical Amperage - Maximum	4 Amps
Electrical Consumption (Anti-Frost Protection)	142 watts
Electrical Consumption (Maximum)	279
Electrical Consumption (Normal)	98 watts
Electrical Consumption (Standby)	1.3 watts
Electrical Voltage	AC 120 Volts, 60 Hz
Energy / Fuel Type	Natural Gas
Energy Factor	0.98
Energy Star - Commercial	No
Energy Star - Residential	No
Feature/Benefit Bullet 1	The CHS199100 is a super high-efficiency hybrid tankless solution that offers more water-heating capacity than a traditional tank
Feature/Benefit Bullet 10	A direct replacement hybrid tankless option with connections similar to most standard efficiency tanks
Feature/Benefit Bullet 2	Durable, energy-efficient 119-gallon storage tank provides hot water redundancy
Feature/Benefit Bullet 3	First hour delivery of 315 gallons at 100°F
Feature/Benefit Bullet 4	97% Thermal efficient CU199 - Ultra Low NOX compliant and ENERGY STAR certified
Feature/Benefit Bullet 5	Performs better by combining tank and tankless technology for uninterrupted availability of hot water
Feature/Benefit Bullet 6	Multiple Venting Options (PVC/CPVC, Room Air, Concentric, Common Vent)
Feature/Benefit Bullet 7	System weight up to 250 lb lighter than a traditional tank
Feature/Benefit Bullet 8	Tankless unit acts as the heat source and reduces thermal stress on tank for superior durability
Gas Supply Connection	3/4"MNPT
Hazmat Y/N	No
Ignition System	Direct Electronic Ignition
Image - Corporate Logo	<a href="https://rinnai.widen.net/content/bjw5z2ex3z/web/Rinnailogo.PMS186.png?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/bjw5z2ex3z/web/Rinnailogo.PMS186.png?u=vmp7gq&amp;download=true</a>
Image - Front	<a href="https://rinnai.widen.net/content/6pleuwbg0/web/DemandDuo_HSeries_CHS100199_HX_Silo_LowerCoverOFF_0001.png?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/6pleuwbg0/web/DemandDuo_HSeries_CHS100199_HX_Silo_LowerCoverOFF_0001.png?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/ne8uvzrhg/web/DemandDuo_HSeries_CHS100199_HX_Silo_CoverON_0001.png?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/ne8uvzrhg/web/DemandDuo_HSeries_CHS100199_HX_Silo_CoverON_0001.png?u=vmp7gq&amp;download=true</a>
Image - Left	<a href="https://rinnai.widen.net/content/vapnvjpvuy/web/DemandDuo_HSeries_CHS100199_HX_Silo_LowerCoverOFF_0002.png?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/vapnvjpvuy/web/DemandDuo_HSeries_CHS100199_HX_Silo_LowerCoverOFF_0002.png?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/z1zplp77a/web/DemandDuo_HSeries_CHS100199_HX_Silo_CoverON_0002.png?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/z1zplp77a/web/DemandDuo_HSeries_CHS100199_HX_Silo_CoverON_0002.png?u=vmp7gq&amp;download=true</a>
Image - Lifestyle	<a href="https://rinnai.widen.net/content/oh0pynv6ng/web/DemandDuo_HSeries_DD398100_HXV_Laundry_0000_Post.png?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/oh0pynv6ng/web/DemandDuo_HSeries_DD398100_HXV_Laundry_0000_Post.png?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/8sl0woysrh/web/Demand%20Duo%20H-series%20with%20CX%20units.jpg?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/8sl0woysrh/web/Demand%20Duo%20H-series%20with%20CX%20units.jpg?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/8bh2ultkh/web/Demand%20Duo%20H-series%20with%20CX%20units-right%20installation.jpg?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/8bh2ultkh/web/Demand%20Duo%20H-series%20with%20CX%20units-right%20installation.jpg?u=vmp7gq&amp;download=true</a>

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Image - Right	<a href="https://rinnai.widen.net/content/3bdd8armm3/web/DemandDuo_HSeries_CHS100199_HX_Silo_LowerCoverOFF__0000.png?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/3bdd8armm3/web/DemandDuo_HSeries_CHS100199_HX_Silo_LowerCoverOFF__0000.png?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/sltfpnau1k/web/DemandDuo_HSeries_CHS100199_HX_Silo_CoverON__0000.png?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/sltfpnau1k/web/DemandDuo_HSeries_CHS100199_HX_Silo_CoverON__0000.png?u=vmp7gq&amp;download=true</a>
Installation Location	Indoor
Isolation Valves Included	Yes
Literature - Consumer Brochure	<a href="https://rinnai.widen.net/content/sgszgwiawb/original/Brochure_CommWaterHeatingInstaller-R-TR-CWH-E-01-r6_0308-LR.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/sgszgwiawb/original/Brochure_CommWaterHeatingInstaller-R-TR-CWH-E-01-r6_0308-LR.pdf?u=vmp7gq&amp;download=true</a>
Literature - Trade Brochure	<a href="https://rinnai.widen.net/content/muck4e9mq7/original/US%20-%20Demand%20Duo%20Hybrid%20Commercial%20Water%20Heating%20Solutions.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/muck4e9mq7/original/US%20-%20Demand%20Duo%20Hybrid%20Commercial%20Water%20Heating%20Solutions.pdf?u=vmp7gq&amp;download=true</a>
Low Lead Law Compliant	Yes
Manufacturer	Rinnai America Corporation
Material of Tank Line	Glass-Lined
Minimum Order Qty	1.0
MSDS (Y/N)	No
Pallet Depth (inches/cm)	48 inch / (122 cm)
Pallet Height (inches/cm)	77.5 inch / (197 cm)
Pallet Quantity	1.0
Pallet Weight (lb/kg)	490 lb / (222.3 kg)
Pallet Width (inches/cm)	40 inch / (102 cm)
Product Catalog Title (SEO)	Rinnai's Demand Duo H-Series 2V hybrid commercial tankless water heaters are stacked vertically for redundancy, reliable hot water, high-efficiency, ensuring a longer service life. Natural Gas or Propane convertible, installed indoor, 199,000 BTU, 100 Gallon.
Product Class	Commercial Hybrid Water Heating
Product Code	CHS199100HCXiN
Product Depth	40 inch / (1016 mm)
Product Description - Long	With Rinnai's new Demand Duo H-Series, reliable hot water comes in a high-performance, high-efficiency package that also reduces cost of ownership. Rinnai's hybrid technology is unlike anything else on the market, ensuring a longer service life than high-efficiency tanks, while also producing abundant hot water for peak commercial hours.
Product Description - Short	CX199iN with 119G Tank Hybrid System
Product Group	Commercial Demand Duo
Product Height	71 inch / (1803 mm)
Product Info Document - Owners Installation and Operation Manuals	<a href="https://rinnai.widen.net/content/1gb6wsgo7h/original/100000871%20Demand%20Duo%20H-Series%20with%20SENSEI%20CX%20Installation%20Instructions.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/1gb6wsgo7h/original/100000871%20Demand%20Duo%20H-Series%20with%20SENSEI%20CX%20Installation%20Instructions.pdf?u=vmp7gq&amp;download=true</a>
Product Info Document - Specification Sheets	<a href="https://rinnai.widen.net/content/hwmeojnlsv/original/100000886%20Demand%20Duo%20H-Series%20with%20SENSEI%20CX%20Spec%20Sheet%20%282%29.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/hwmeojnlsv/original/100000886%20Demand%20Duo%20H-Series%20with%20SENSEI%20CX%20Spec%20Sheet%20%282%29.pdf?u=vmp7gq&amp;download=true</a> , <a href="https://rinnai.widen.net/content/mur2br1pdc/original/100001010%20CHS199100HCXiN%20Engineering%20Specification.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/mur2br1pdc/original/100001010%20CHS199100HCXiN%20Engineering%20Specification.pdf?u=vmp7gq&amp;download=true</a>
Product Info Document - Technical Data Sheets	<a href="https://rinnai.widen.net/content/gontve5wqf/original/100000632%20Hybrid%20Water%20Heating%20Critical%20Install%20Guidelines.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/gontve5wqf/original/100000632%20Hybrid%20Water%20Heating%20Critical%20Install%20Guidelines.pdf?u=vmp7gq&amp;download=true</a>

Attribute	Value
Product Info Document - Warranty	<a href="https://rinnai.widen.net/content/ovplyqsovs/original/100000669%2802%29_Warranty_Demand%20Duo.pdf?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/ovplyqsovs/original/100000669%2802%29_Warranty_Demand%20Duo.pdf?u=vmp7gq&amp;download=true</a>
Product Returnable Y/N	Yes
Product Series	Demand Duo™ H-Series Hybrid Water Heating System
Product Status	Active
Product Sub Series	CHS-HCX
Product Weight	431 lb / (196 kg)
Product Width	33 inch / (838 mm)
Prop 65 Warning Statement	California law requires this notice to be provided: California Proposition 65: This product can expose you to chemicals including Di (2-ethylhexyl) phthalate (DEHP) and carbon bisulfide which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information, visit <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .
Publish to RAC Website	Yes
Recirculation Capable	Yes
RevitWidgetID	57485
Sellable Country	US/CAN
Shipping Height (inches/cm)	78 inch / (1981 mm)
Shipping Length (inches/cm)	48 inch / (1219 mm)
Shipping Weight (lbs/kg)	490 lb / (223 kg)
Shipping Width (inches/cm)	40 inch / (1016 mm)
Sound Level	49.0
UPC Code	766156017896
Venting diameters	2", 3", 2x4", 3x5" / 50 mm, 80 mm, 50x100mm, 80x130 mm
Venting Type	Concentric, Twin Pipe, Room Air, Common Vent
Video - For Trade Professionals	<a href="https://rinnai.widen.net/content/fcciedkds3/original/H-3-4_Demand_Duo.mp4?u=vmp7gq&amp;download=true">https://rinnai.widen.net/content/fcciedkds3/original/H-3-4_Demand_Duo.mp4?u=vmp7gq&amp;download=true</a>
Warranty - Standard for Commercial	6 Years on Tank / 5 Years on Parts
Water Volume	119 Gallons / (450 L)
WiFi Capable / Compatible	Yes