

2023 COMMERCIAL GUIDE

NORITZ®
TANKLESS WATER HEATERS



Hybrid Hot

The BEST of both tank and tankless



Quality Meets Performance

Professionals And Businesses Prefer Noritz Commercial Tankless Water Heaters

It's time to forego the unreliability and cumbersome footprint that commercial tank type water heaters and boilers typify.

Losing their touch over time, traditional commercial water heating equipment has become dated and obsolete; problematic in terms of space, redundancy, cost, and overall system life.

The limitations and obstacles traditional equipment has come to represent have presented opportunities for Noritz to innovate TRUE hot water solutions for commercial applications. Speaking of space, Noritz Commercial Tankless Water Heaters sleek modular design allows each unit to be installed in versatile locations and types. Multi systems are installed on site or available as pre-fabricated Commercial Rack systems in either wall or floor mount configurations designed to recover valuable space in your building. (CR Series)

In terms of reliability and system life, The Noritz multi-system takes tanks and boilers to task as its intelligent modulation works to stage, balance, and distribute all hot water loads evenly between the units during operation, maximizing output, efficiencies, and system life. The scalability of the Noritz Multi-system inherently builds in redundancy, positioning Noritz as the new benchmark in commercial water heating.

Affiliations





True Commercial Tankless

With features such as multi-system linking and modulation, it's easy to see why so many businesses trust Noritz and its commercial line of products.



T

Trusted

Since 1951, Noritz commitment and mission has been to “make people happy through hot water.” With over 16,000,000 units serving people’s hot water needs worldwide, our goal is to provide sustainable customer focused solutions for hot water.

R

Reliable

Noritz Commercial Tankless Water Heaters are modular and can be linked to create redundancy. Even when one unit needs service or is not in operation, hot water will be delivered seamlessly by other units in the system. Noritz Redundancy in commercial applications provides a reliable, uninterrupted source of hot water which translates to piece of mind for our customers & their bottom line.

U

Unmatched

Noritz Commercial Tankless Water Heaters are the only TRUE commercial grade tankless water heaters on the market and we continue to lead the industry in terms of innovation, quality, and performance. In addition, Noritz Intelligent Modular Water Heating Technology can link up to 24 units in a single system providing unmatched performance and reliability.

E

Efficient

For the rest of the pack, efficiency is a mere watermark to aim for. For Noritz, efficiency is our name. From an ultra efficient 0.96 UEF to the lean JPS just in time manufacturing process we utilize to manufacture our product.

Features & Benefits

The Benefits of Commercial Water Heating

Noritz's line of commercial water heaters can meet any demand you throw at them. Need to add more units to meet unanticipated demand? No problem. With the Noritz commercial system you can scale your system with ease to make sure your needs are met.



Scalability

With a myriad of features, it's easy to see why the Noritz Commercial Line of Tankless is the preferred choice for businesses who are looking to upgrade their hot water delivery systems.



Efficiency

With our intelligent modulation and load tracking we make sure that none of the heaters in your array are overworked. With equalization of the load, your heaters will take turns to increase lifespan and uptime.



Redundancy

With the commercial redundancy functionality you never have to worry about never having hot water. Our heaters intelligently provide back up in the rare case of an issue or maintenance is required on another unit. Our system works seamlessly to pick up the slack so you don't go without hot water.


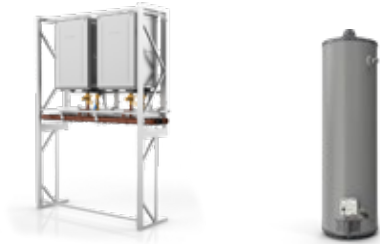


Versatility

Our small footprint and variety of installation methods makes Noritz the clear choice in versatility. Tricky installation site or complicated plumbing? No problem.

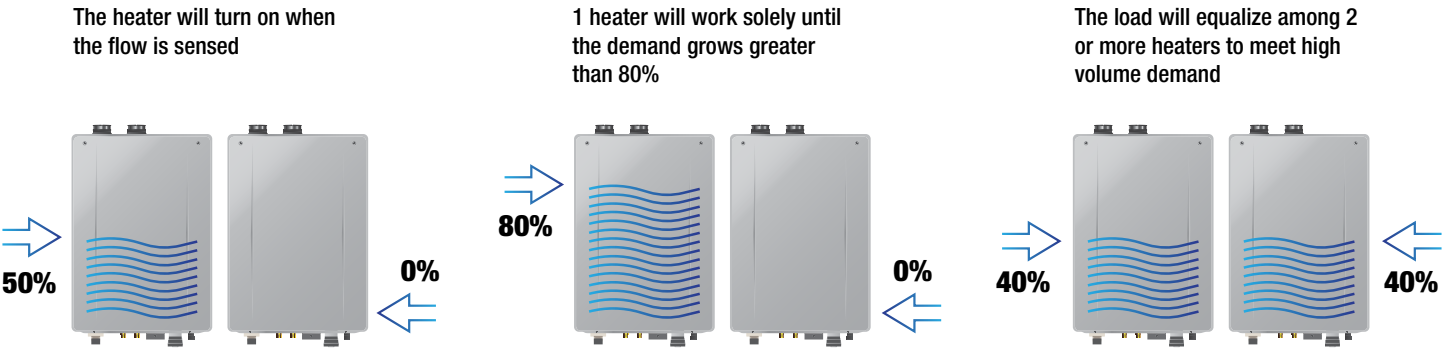
Tankless Advantage

See how a Noritz Commercial Tankless stacks up against standard tanks and boilers.

Boiler vs Tankless			Tank vs Tankless		
					
Concern	Noritz Tankless System	Boiler with Storage Systems	Feature	Noritz Tankless System CR60-WH-2 (2 Unit System)	Commercial Tank
Heat Loss	✓ Zero standby heat loss.	Foam insulation on boiler room components.	Capacity	✓ Continuous Flow	Limited to tank storage
Installation Footprint	✓ Indoor or outdoor installation and can be installed on walls or racks.	Indoor installation only taking up a large footprint for the boiler plus storage.	Weight	✓ 70 lbs. per unit	~500 lbs.
Cycling	✓ Multi-system offers load tracking, cycling any number of heaters based on demand. With high turndown ratios, tankless enables gas savings.	Low turndown ratio has overheating and cycling issues that wastes energy.	Redundancy	✓ Continuous operation after failure	No reserve; Failure results in total hot water loss until replaced.
Redundancy	✓ Multi-system offers redundancy and simplifies service and maintenance with no down time. Single units can be isolated for service while others continue hot water production.	Single hot water boiler with storage tank. Failure in either component will compromise hot water supply.	BTUs	✓ Up to 399,800	199,000

Noritz Intelligent System

In a multi-system setup, the Noritz commercial units will communicate and work in unison to even out the load on each individual unit, maximizing output and system life. With the ability to modulate between multiple units with the use of a system controller makes Noritz commercial water heaters the most efficient water heating system on the market today.



Breaking Down Tankless Technology

Knowing how a tankless water heater works can be a deciding factor when you want to make the switch. We've put together a list of steps to help you understand just how a tankless water heater works.

3.

Down fired pre-mix burner with variable speed power fan & negative pressure regulating gas valve modulates air/gas input. Electronic ignition initializes combustion

VENTURI

PREMIX
BURNER

PRIMARY
HEAT
EXCHANGER

SECONDARY
HEAT
EXCHANGER

2.

Turbine flowsensor activates system at 0.5 GPM flowrate

GAS



4.

Dual water flow control servos optimize temperature response and stability to +/- 1 degree fahrenheit

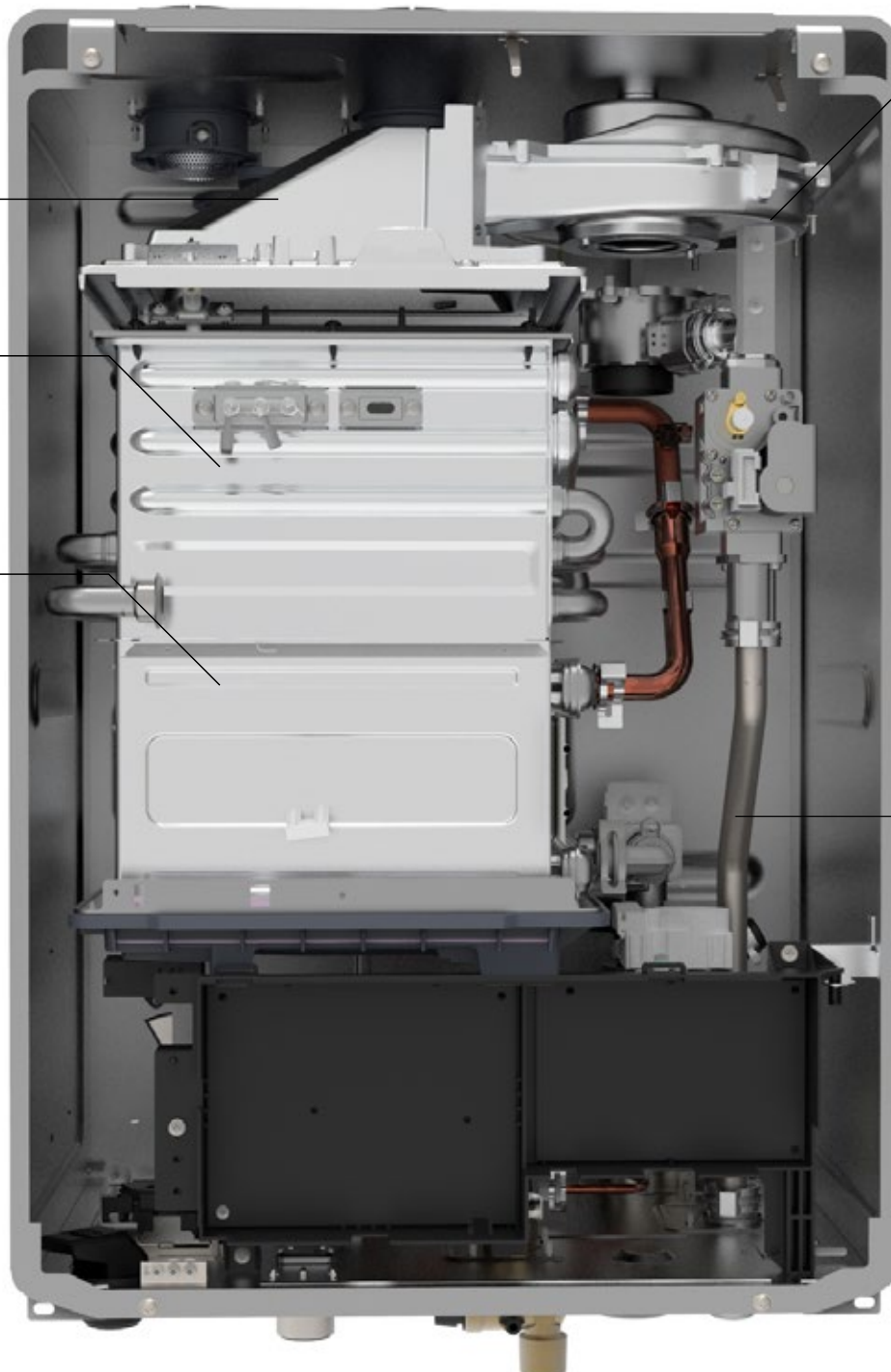
5.

Thermal energy modulation technologies coupled with dual stainless steel heat exchangers achieves ultra high UEF of 0.96.



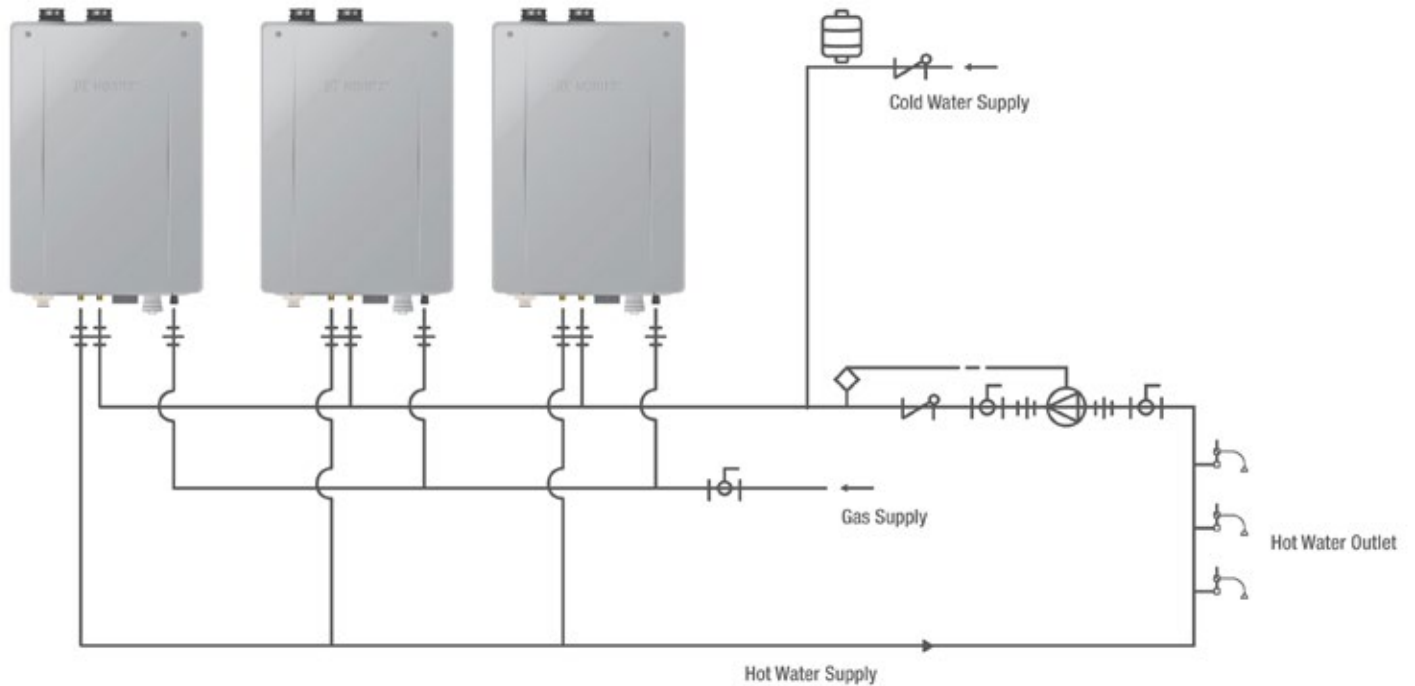
1.

Domestic hot water usage demand

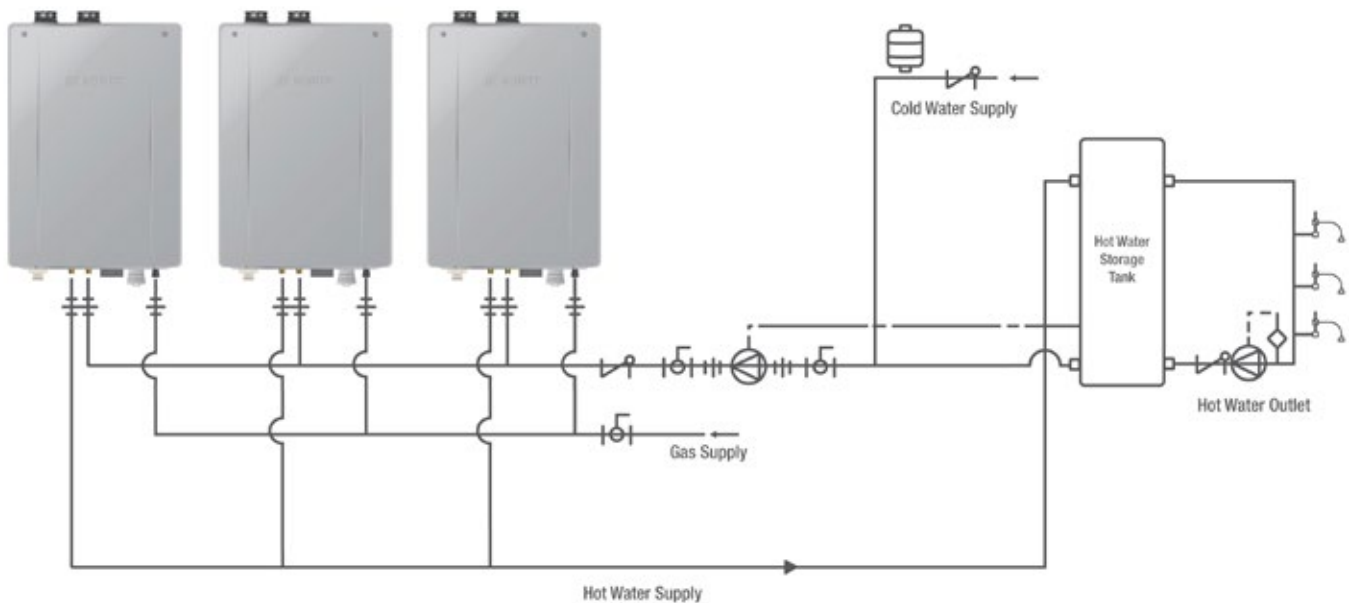


Tankless Diagrams

Multi-System Recirculation Diagram



Multi-System With Storage Tank Diagram



Next Gen True Commercial Tankless



NCC199CDV

Commercial Tankless Water Heater

The new NCC199CDV provides industry leading performance for any commercial water heating application. An impressive 10-year heat exchanger warranty comes included, providing businesses with years of hot water without the worry.

Features

10 Year Heat Exchanger Warranty

The Noritz NCC199CDV is backed with a 10 year heat exchanger warranty. Visit WWW.NORITZ.COM/CDVWARRANTY for more details.

Dual High Grade Stainless Steel Heat Exchangers

The right materials for the right situation. The NCC199CDV utilizes 2 types of stainless steel: High temperature for the primary and corrosion resistant for the secondary.

Pre-Mix Burner

Combined with a unique negative pressure Venturi gas valve, the NCC199CDV is Energy Star certified & features an ultra-efficient 0.96 UEF.

New Common Vent Capability

Provides scalability of up to 6 heaters on a single venting system without the need for an external non-return valve.

2" Vent Connections

Offers flexible venting options for vertical or horizontal termination with PVC, CPVC, or PP venting, as well as outdoor installations with OD vent cap. Ability to vent up to 65' with 2" and 150' with 3" materials.

Ultra Low Nox

Produces only 14 ppm. 33% less emissions than the SCAQMD limitations of 20ppm NOx.



ENERGY STAR CERTIFIED



Technical Specifications - NCC199CDV		
Min. / Max. BTU		18K - 199,900 BTUh
Capacity Range		0.5 - 11.1 GPM (30°F Rise)
Weight		70 lbs.
UEF		0.96
Connection Sizes	Water Inlet	NPT 3/4"
	Hot Water Outlet	NPT 3/4"
	Gas Inlet	NPT 3/4"
	Condensate Drain	NPT 1/2"
Water Holding Capacity		0.82 Gallon (3.1 L)
Temperature Settings	°F Mode	100-150° (In 5° F Intervals) 160° F, 170° F, 185° F (14 Options)
	°C Mode	37-48° C (In 1°C intervals), 50-85°C (In 5° intervals) (20 options)
Operating Pressure		15-150 psi (Recommended 50 to 80 psi for maximum performance)
Included Accessories		Remote controller, remote controller cord, anchoring screws, wall mounting bracket

Feature

Upgraded Heat Exchanger

The right materials for the right situation. The NCC199CDV heat exchanger has been re-engineered with a new blend of stainless steel to maximize performance and reliability. These parts and materials have been specifically selected for their high temperature performance and maximum corrosion resistance, constructed as a single-body unit.

Along with a 0.96 UEF, the Noritz NCC199CDV Commercial Tankless is built ready to provide your business with years of hot water delivery.





Common Venting Offers True Installation Flexibility

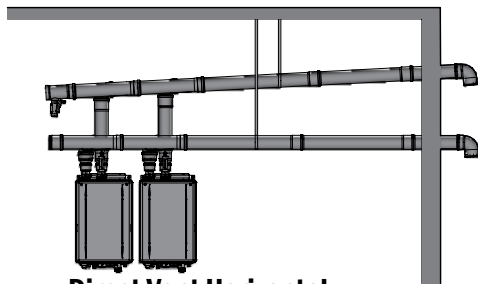
With **Noritz Common Venting**, up to 6 Noritz Water Heaters are able to share the same venting system. This means significantly reduced penetrations through the wall or roof – resulting in less labor and a cleaner finished look.

The use of a larger vent diameter system allows for longer vent runs for larger and taller buildings – up to 200 ft. of equivalent vent length. The system is independently tested and approved for use by CSA in both the US and Canada. With the new built-in exhaust non-return valve, scalability of up to 6 heaters is possible now without an external non-return valve.

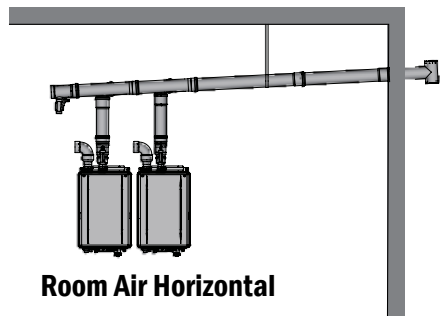
Feature

Ultimate Flexibility For Vent Configuration

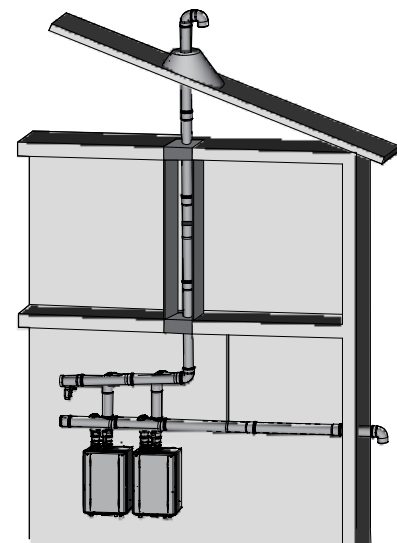
Figuring out where to safely and efficiently route the exhaust system is one of the biggest hurdles for any HVAC system designer. Noritz Common Venting offers designers the most flexibility to decide how to safely and efficiently route the vent. For room air installations, the combustion air can be drawn from the room environment, further reducing the installation complexity, by requiring only a single penetration for the exhaust.



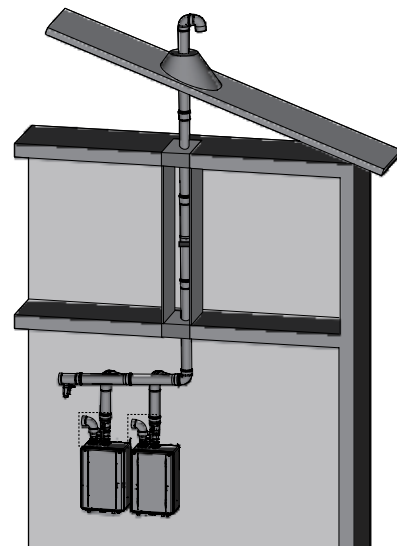
Direct Vent Horizontal



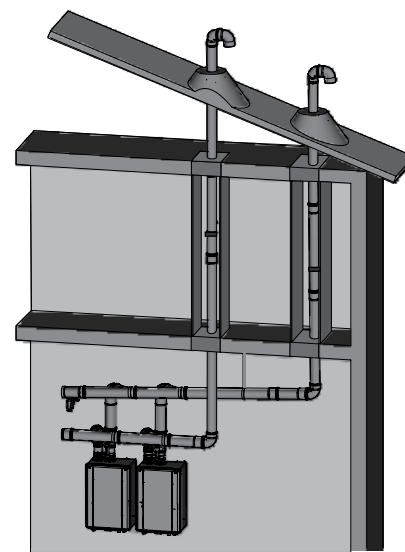
Room Air Horizontal



Split Exhaust



Room Air Vertical



Direct Vent Vertical

Offers A Clean, Labor Saving Install While Ensuring The Utmost In Safety And Performance

- Tested with safety in mind – each water heater uses a built-in non-return valve to prevent flue gas from entering idle units.
- Reduces wall or ceiling penetrations.
- Utilizes either ULCS-636 approved Polypropylene (PP) venting (capable of handling temperatures up to 230° F) or Schedule 40/80 PVC
- Easy installations with flexibility to vent in a variety of ways.

Quality Meets Performance

Never worry about your business' hot water supply again. From restaurants to hospitals, the Noritz Commercial tankless water heating line is built to handle any demand with ease.



NCC199CDV

GQ-C3260WZ-FF US

Technical Specifications	
Unit Dimensions	27" (w) x 18.5" (w) x 14.1" (d)
Weight	70 lbs.
Vent Type	DV / OD
Gas Consumption	Min. 18K BTUh - Max. 199,900 BTUh
Capacity Range	0.5 - 11.1 GPM
UEF	0.96
Temperature Settings	100°F - 185°F (In 5° Intervals), 160°, 170°, 185°

Featured Specs

- 10 Year Commercial Warranty
- Minimum 18,000 to Max 199,900 BTUh
- Multi-System Capability
- Ultra-Low NOx



NC199DVC

GQ-2857WZ-FFA US

Technical Specifications	
Indoor Unit Dimensions	23.6" (h) x 13.8" (w) x 11" (d)
Outdoor Unit Dimensions	23.6" (h) x 13.8" (w) x 9.4" (d)
Weight	58 lbs.
Gas Consumption	Min. 16K BTUh - Max. 199,900 BTUh
NG & LP	Natural Gas / Propane
Capacity Range	0.5 - 9.8 GPM
Thermal Efficiency	84%
Temperature Settings	100°F - 185°F (In 5° Intervals)
UEF	.82

Featured Specs

- 84% Thermal Efficiency
- Minimum 16,000 to Max 199,900 BTUh
- 0.5 to 9.8 GPM
- Multi-System Capability
- Commercial-Grade Heat Exchanger



NC1990D

GQ-2857WZ US LP | GQ-2857WZ US NG

Technical Specifications	
Indoor Unit Dimensions	23.6" (h) x 13.8" (w) x 11" (d)
Outdoor Unit Dimensions	23.6" (h) x 13.8" (w) x 9.4" (d)
Weight	58 lbs.
Gas Consumption	Min. 16K BTUh - Max. 199,900 BTUh
NG & LP	Natural Gas / Propane
Capacity Range	0.5 - 9.8 GPM
Thermal Efficiency	84%
Temperature Settings	100°F - 185°F (In 5° Intervals)
UEF	.82

Featured Specs

- 84% Thermal Efficiency
- Minimum 16,000 to Max 199,900 BTUh
- 0.5 to 9.8 GPM
- Multi-System Capability
- Commercial-Grade Heat Exchanger



NC380DV

GQ-2857WZ-FFA US

Technical Specifications	
Unit Dimensions	29.7"(h) x 19.1"(w) x 11.8"(d)
Weight	106 lbs.
Gas Consumption	Min. 22,500 - Max. 380,000 BTU/h
NG & LP	Natural Gas / Propane
Capacity Range	0.7 - 13.2 GPM
Thermal Efficiency	80% (NG) / 81% (LP)
Temperature Settings	100°F - 150°F (In 5° Intervals), 160°, 170°, 180°F

Featured Specs

- 5 Year Warranty on Heat Exchanger and Parts / 1 Year Reasonable Labor
- Commercial-Grade Heat Exchanger
- Wireless Compatibility



NCC300DV

GQ-C5032WZ-FF US

Technical Specifications	
Unit Dimensions	32.7" (h) x 18.9"(w) x 14.2"(d)
Weight	108 lbs.
Gas Consumption	Min. 15K BTU/h - Max. 300,000 BTU/h
Capacity Range	0.5 - 13.2 GPM
Thermal Efficiency	97%
Temperature Settings	100°F - 150°F (In 5° Intervals), 160°, 170°, 185°F

Featured Specs

- 5 Year Warranty on Heat Exchanger and Parts / 1 Year Reasonable Labor
- Wireless Compatibility
- Ultra Low NOx



NCC3000D

GQ-C5032WZ US

Technical Specifications	
Unit Dimensions	32.7" (h) x 18.9"(w) x 14.2"(d)
Weight	108 lbs.
Gas Consumption	Min. 15K BTU/h - Max. 300,000 BTU/h
Capacity Range	0.5 - 13.2 GPM
Thermal Efficiency	97%
Temperature Settings	100°F - 150°F (In 5° Intervals), 160°, 170°, 185°F

Featured Specs

- 5 Year Warranty on Heat Exchanger and Parts / 1 Year Reasonable Labor
- Wireless Compatibility
- Ultra Low NOx



HYBRID HOT S E R I E S

BY NORITZ®



Introducing The First Tankless and Tank Combo From Noritz


The NEW Hybrid Hot Series by Noritz® brings together the storage of a standard tank with the power and efficiency of a tankless to take on any commercial hot water demand. Combined to meet the hot water requirements of businesses, the Hybrid Hot Series by Noritz® utilizes the latest in tankless and tank storage technologies to create a powerful and reliable solution for business owners. The Hybrid Hot also offers common venting for multiple units to ensure endless hot water is always available.

Noritz is proud to present our latest innovation in tankless technology.

SCAN HERE TO VISIT
THE HYBRID HOT
WEBSITE:



Performance

Approved Gas Types	Natural Gas or Propane	
Efficiency		0.96 UEF
	Ratings not certified by AHRI	98% Thermal Efficiency
First Hour Rating	317 GPH	

HH
HYBRID HOT
SERIES BY NORITZ

NORITZ

**10
YEAR**

TANK & TANKLESS
WARRANTY



Features



The Best of Tank and Tankless

With an endless supply of hot water, lower pressure drop, and no limitation of hot water flow rate, the Hybrid Hot Series by Noritz® combines features of both technologies to provide the most reliable hot water delivery system to date for commercial applications.



Faster Hot Water Recovery

The Hybrid Hot offers the best BTU possible at the quickest rate, providing businesses with energy savings and more. Thanks to its **Integrated Pump**, hot water recovery speed with the Hybrid Hot is faster than other tank and tankless combinations.



Cement Lining

With no anode rod and a greater warranty than other tanks on the market, our tank also features cement lining for superior corrosion resistance.



Continuous Hot Water Delivery

If your tank suddenly runs out of hot water, no need to worry. The Hybrid Hot Series by Noritz® can continue to provide hot water using the paired NCC199CDV tankless even after your stored supply is depleted*.

*Hot water capabilities are limited

Technical Specs

Hybrid Hot Series by Noritz®		
Product Number	NHH199100-1-NG	
	NHH199100-1-LP	
Installation Location		Indoor
Working Pressure	Water	15 - 150 psi
	Gas	NG: 3.5 - 10.5" LP: 8.0 - 14.0"
Connection Size	Cold Water	NPT 1-1/2"
	Hot Water	NPT 1-1/2"
	Return (Recirc)	NPT 3/4"
	Gas	NPT 3/4"
Vent	Type	DV / SV
	Size	2" / 3"
	Max Length	2": 65' / 3": 150'
	Common Vent	Yes (Up to 6 Units)
Dimensions		H: 67 3/4" W: 28" D: 43 1/4"
Weight		544 lbs.
Power Supply		120 VAC (60Hz)
Tank Capacity		119 Gallons (Cement Lined)
Tankless Capacity		18,000 - 199,900 BTU/h
Temperature Setting		100 - 185°F (37 - 85° C)



Recovery Capacity

Product Number	Approx. Tank Capacity	Max Input (Btu/hr)	GPH vs Temperature Rise											
			30°F	40°F	50°F	60°F	70°F	80°F	90°F	100°F	110°F	120°F	130°F	140°F
NHH199100	119 Gal	199,900	780	585	468	390	334	292	260	234	213	195	180	167



True Commercial Tankless

Commercial Rack System (CR)

The Noritz CR Commercial Rack System (formerly CWS) has been redesigned for maximum performance and ease of installation. The CR is a pre-fabricated racking system for use in flat rooftop or mechanical room applications for commercial multi-systems. A new low profile design and a variety of installation options make this new rack system ideal for business owners looking to replace outdated storage tanks.

Features

New Low Profile Design

Redesigned with lower center of gravity for increased stability and easier transportation.

New Wall Mount Option

The redesigned wall mounted option allows for more space savings without sacrificing performance.

Reduced Install Time

Pre-piped condensate manifold and condensate line along with pre-wiring required for multi-systems reduces installation time.

Easy Scalability

Standardized water and gas lines allow easy connection of multiple rack systems in-line.

Simplified Venting

Built-in non-return valve allows for common venting up to 6 units on a single manifold without the need for external accessories.



Feature

Ultra Durable Construction

Aluminum Frames

Utilizing lightweight aluminum frames, our new CR system frame also features high corrosion resistance.

Hard Pipe Manifolds

Featuring a hard pipe construction that increases reliability and is effective for leak prevention. This also allows for vibration resistance while shipping

Dimensions

Item Number	Rack Type	UPC	Included Main Components		Cold / Hot Water & Gas Manifold				Rack Dimensions			Total Weight (lbs)
			GQ-C3260WZ-FF US	SC-401-6M	Cold	Hot	Condensate Drain Manifold	Gas Manifolds	L	D	H	
CR60-WH-2-LP	2 Unit Wall Hanging, LP	860003319932	2	1	2"	2"	3/4"	2"	54 1/4"	17"	44"	259
CR60-WH-2-NG	2 Unit Wall Hanging, NG	860003319949										
CR60-WH-3-LP	3 Unit Wall Hanging, LP	860003319956	3	1	2"	2"	3/4"	2"	78"	17"	44"	386
CR60-WH-3-NG	3 Unit Wall Hanging, NG	860003319963										
CR60-FS-4-LP	4 Unit Free Standing, LP	860003319970	4	1	2"	2"	3/4"	2"	54 1/4"	30"	56 3/4"	444
CR60-FS-4-NG	4 Unit Free Standing, NG	860003319987										
CR60-FS-5-LP	5 Unit Free Standing, LP	850018743099	5	1	2"	2"	3/4"	2"	78"	30"	56 3/4"	560
CR60-FS-5-NG	5 Unit Free Standing, NG	850018743082										
CR60-FS-6-LP	6 Unit Free Standing, LP	817000013752	6	1	2"	2"	3/4"	2"	78"	30"	56 3/4"	641
CR60-FS-6-NG	6 Unit Free Standing, NG	860003319994										

Hot Water Supply Capacity

Item Number	Heater Quantity	Heater Configuration	Min BTU/hr Input	Max BTU Input	Hot Water Capacity (GPM)						
					50°	60°	70°	80°	90°	100°	110°
CR60-WH-2-LP	2	Wall Hanging In-Series	18,000	399,800	15.7	13.1	11.2	9.8	8.7	7.8	7.1
CR60-WH-2-NG											
CR60-WH-3-LP	3	Wall Hanging In-Series	18,000	599,700	23.5	19.6	16.8	14.7	13.1	11.8	10.7
CR60-WH-3-NG											
CR60-FS-4-LP	4	Free Standing 2x2 Back to Back	18,000	799,600	31.3	26.1	22.4	19.6	17.4	15.7	14.2
CR60-FS-4-NG											
CR60-FS-5-LP	5	Free Standing 3x2 Back to Back	18,000	999,500	39.2	32.7	28.0	24.5	21.8	19.6	17.8
CR60-FS-5-NG											
CR60-FS-6-LP	6	Free Standing 3x3 Back to Back	18,000	1,199,400	47.0	39.2	33.6	29.4	26.1	23.5	21.4
CR60-FS-6-NG											

Additional Options And Accessories

Wall Hanging Rack

The new wall hanging rack allows installers to accommodate for existing conduit and piping without interference, reducing additional installation time. A new floor stand also comes included which allows for easy positioning while fixing to a wall.



WH-3

CR60 Wheel Kit

Noritz CR60 Wheel Kit is designed to simplify logistics of moving Noritz Commercial Racks from the crate to the mechanical room. Designed to last, the wheel kits are compatible to move all Noritz Commercial Rack configurations for years to come.

Faster Mobility

Relocate your CR system with ease using the CR60 Wheel Kit's rubber casters for a fast and smooth transition.

Designed For The New CR

The CR60 wheel kit is designed to work smoothly with all configurations of Noritz new Commercial Rack systems.

Move Your System With Ease

Placed at the ends of your CR floor standing system, the CR60 Wheel Kit provides installers an easier way to pick up and move without the need for heavy lifting.





CA Update Commercial Rack System

The updated Noritz CR Commercial Rack System brings new features designed to create a hassle free and easy installation. The CR system update comes with a redesigned gas header with built-in gas sediment traps and an additional shutoff valve, simplifying both installation and service.

Rack System Updates

⇒ Test Pressure

Factory testing of gas header at 60psi for 30 minutes. Field pressure testing at 60 psi compatible; Additional gas shutoff valves are also included to isolate gas header and protect tankless units during field test



⇒ Drips and Sediment Traps

Gas Sediment traps now come built in

⇒ Mechanically Formed Tee Fittings



Item #
CR60-CA

2 Unit Wall Mount	3 Unit Wall Mount	4 Unit Wall Mount	6 Unit Floor Mount
Max Qty. of Racks	Max Qty. of Racks	Max Qty. of Racks	Max Qty. of Racks
5	3	3	2

Dimensions

Item Number	Rack Type	UPC	Included Main Components		Cold / Hot Water & Gas Manifold				Rack Dimensions			Total Weight (lbs)
			GQ-C3260WZ-FF US	SC-401-6M	Cold	Hot	Condensate Drain Manifold	Gas Manifolds	L	D	H	
CR60-WH-2-LP-CA	2 Unit Wall Hanging, LP	860003319932	2	1	2"	2"	3/4"	2"	54 1/4"	17"	44"	259
CR60-WH-2-NG-CA	2 Unit Wall Hanging, NG	860003319949			2"	2"	3/4"	2"	54 1/4"	17"	44"	
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CR60-FS-4-NG-CA	4 Unit Free Standing, NG	860003319987			2"	2"	3/4"	2"	54 1/4"	30"	56 3/4"	
CR60-FS-5-LP-CA	5 Unit Floor Mount, LP	850018743099	5	1	2"	2"	3/4"	2"	78"	30"	56 3/4"	560
CR60-FS-5-NG-CA	5 Unit Floor Mount, NG	850018743082			2"	2"	3/4"	2"	78"	30"	56 3/4"	
CR60-FS-6-LP-CA	6 Unit Free Standing, LP	817000013752	6	1	2"	2"	3/4"	2"	78"	30"	56 3/4"	641
CR60-FS-6-NG-CA	6 Unit Free Standing, NG	860003319994			2"	2"	3/4"	2"	78"	30"	56 3/4"	

Commercial Models

Available for both indoor and outdoor installations, our commercial line of tankless water heaters are designed to take on any hot water demand.



	Condensing			Non-Condensing		
Model	NCC3000D	NCC300DV	NCC199CDV	NC380SV	NC199DVC	NC1990D
GQ Reference Number	GQ-C5032WZ US	GQ-C5032WZ-FF US	GQ-C3260WZ-FF US	N/A	GQ-2857WZ-FFA US	GQ-2857WZ US
SV Conversion	N/A	Yes	Yes	No	N/A	N/A
Vent Type	OD	DV	DV / OD	SV	DVC	OD
Dimensions (Inches)	32.7 x 18.9 x 14.2	32.7 x 18.9 x 14.2	27.0 x 18.5 x 14.1	29.7 x 19.1 x 11.8	23.6 x 13.8 x 11.0	23.6 x 13.8 x 9.4
Weight (lbs)	108 lbs.		70 lbs.	106 lbs.	58 lbs.	54 lbs.
Min./Max. Btuh	15,000 - 300,000		18,000 - 199,900	22,500 - 380,000	16,000 - 199,900	16,000 - 199,900
Thermal Efficiency / UEF	97%		0.96 UEF	NG: 80% LP: 81%	0.82 UEF	0.82 UEF
Max. Hot Water Capacity	35°F Rise: 13.2 GPM		35°F Rise: 11.1 GPM	35°F Rise: 13.2 GPM	35°F Rise: 9.8 GPM	35°F Rise: 9.8 GPM
Water Inlet	1"		3/4"	1"	3/4"	3/4"
Hot Water Outlet	1"		3/4"	1"	3/4"	3/4"
Gas Inlet (1/2 in. capable)	3/4"		3/4"	3/4"	3/4"	3/4"
Temp. Settings	100-150°F (In 5°F Intervals), 160, 170, 185° F			100-150°F (In 5°F Intervals), 160, 170, 180°F	100-150°F (In 5° F Intervals), 160, 170, 185° F	
Default Temp. Option	N/A			120, 130, 140, 180°F	120, 130, 140, 185°F	
Warranty	5 year warranty on heat exchanger, 5 year warranty on parts & 1 year reasonable labor*		10 YEAR WARRANTY ON HEAT EXCHANGER, 5 year warranty on parts & 1 year reasonable labor*	5 year warranty on heat exchanger, 5 year warranty on parts & 1 year reasonable labor*		
Ultra Low NOx	Yes			No	Yes	
Quick Connect	Yes					
Remote Included	Yes					
Min/Max Flowrate	0.5 GPM / 13.2 GPM		0.5 GPM / 11.1 GPM	0.7 GPM / 13.2 GPM	0.5 GPM / 9.8 GPM	
High Altitude Approved	Up to 4,500 ft.		Up to 10,000 ft.	Up to 8,000 ft.		
Wireless Compatible	Yes					
Common Vent Capable	No		Up to 6 Units	No		
Commercial Energy Star	Yes		No			
PVC	No	Yes		No		
ASME	No			Yes	No	



Case Studies

The Noritz Commercial line is the most precise and efficient method of heating water for any commercial project. Built to endure what any business application throws at them, it's easy to see why many businesses prefer the Noritz Commercial line for their applications.







Project Profile

Monday Night Brewing's Garage

Brewery

Looking to avoid the frustrating shutdowns of its previous system, Monday Night Brewing opts for a multiple-tankless solution. System redundancy keeps hot water flowing, even during maintenance, while prefabricated rack setup helps cut installed costs in half.



Installation Details

Tankless:
NCC199DV

Number of Units:
5

Location:
Atlanta, GA



“We should have lower gas bills simply because tankless is on-demand: We won’t be heating water all the time, but only when we need it... it was the up-front savings in equipment and labor that tipped the scales in favor of tankless.”

Joel Iverson
Co-Founder Of Monday Night Brewing



Challenge

How to provide sufficient amounts of hot water at the right temperature for a multi-family development of this magnitude, whose round-the-clock demand for hot water varies widely by the hour.

Solution

Install five, high-efficiency (95 percent) tankless water heaters — all of them NCC199-DV condensing units — to deliver a maximum flow rate of 16 gallons per minute. Connected in a series, the heaters were pre-engineered, prefabricated and pre-plumbed with a system controller as a single, integrated package on a metal rack before being shipped intact to Atlanta. Their combined maximum inputs total 999,500 Btu/hour, meeting not only the brewing and sanitation requirements of the beer production process, but also the general hot-water service needs of the rest of the structure.

Outcome

Besides providing an uninterrupted flow of hot water, the multiple-tankless option offers the ability to service any of the five units without shutting down the entire system. In addition, brewmaster Joel Iverson believes that had he opted for a steam boiler system, the price tag would be roughly double of his new, million-BTU tankless system, fully installed.



Project Profile

Oahu Community Correctional Center

After replacing aging boilers with multiple Noritz tankless water heaters, administrators at Hawaii's Oahu Community Correctional Center were able to safeguard reliable hot water supplies for its 1,200 inmates.

**Units:**

NCC199CDV Tankless Water Heater

Number of Units:

18

Location:

Oahu, Honolulu

Challenge

Replace two failing 23-year-old 1,000,000 BTU boilers with a multi-tankless commercial heater system at Hawaii’s Oahu Community Correctional Center to safeguard reliable hot water supplies for its 1,200 inmates.

Solution

Installed eighteen NCC199CDV gas-fired commercial condensing tankless heaters to improve the resiliency and reliability of the correctional facility’s hot water supply system.

Outcome

Besides providing an uninterrupted flow of hot water, the multiple-tankless option offers the ability to service any of the eighteen units without shutting down the entire system. Furthermore, load balancing ensures that operation is equalized across all units, so one doesn’t suffer undue wear and tear. “Using tankless heaters for this project was two or three times less expensive and about 100 times easier than adding a new replacement boiler and storage tank,” says Mason Hasegawa, with Honolulu-based Mason’s Plumbing Service, who estimates he installs tankless heaters twice as frequently as conventional storage tank-type heaters.



PROJECT: Oahu Community Correctional Center	EXISTING: 23-year-old 1,000,000 BTU boilers and two storage tanks	NEW: 18 NCC199CDV gas-fired commercial condensing tankless heaters	% Change
BTU Input	2M	3.6M	+80%
Storage	1,000 gal.	N/A	
Uniform Energy Factor	.62	.96	+34%
GPM Recovery	35.4	100.7	+184%
Total BTUh Recovery	2.48M	3.59M	45%
Operational Redundancy	2x	15x	+13x
Turn Down Ratio	4:1	198:1	
Installation	Aerial Crane	Skid-mounted / Hand dolly	

True Industry Solutions

Our Proven Track Record

From the hospitality to medical industries, businesses trust our tankless systems for their reliability and efficiency across the United States.



4th Street Market

Santa Ana, Ca

Model: NC199 Series

Quantity: 22

Indoor / Outdoor: Outdoor

Max BTUH Input: 4,397,800

Thermal Efficiency: 86%

GPM: 101 GPM @ 75 Degree Rise



PF Chang's

Nationwide

Model: NC380

Quantity: 4

Indoor / Outdoor: Indoor & Outdoor

Max BTUH Input: 1,520,000

Thermal Efficiency: 80%

GPM: 32 GPM @ 75 Degree Rise

Replaced: Storage tank water heater.
100 gallon / 199,000 BTUH

Motivating Factor: Space Savings,
Redundancy, Warranty



Qdoba

Nationwide

Model: NCC199 Series

Quantity: 2

Indoor / Outdoor: Indoor & Outdoor

Max BTUH Input: 1,199,400

Thermal Efficiency: 94%

GPM: 30 GPM @ 75 Degree Rise

Replaced: Storage tank water heater.
100 gallon / 199,000 BTUH

Motivating Factor: Space Savings,
Redundancy, Warranty



Hotels

Fairfield Inn

Rockledge, Florida

Model: NCC199 Series

Quantity: 5

Indoor / Outdoor: Indoor

Max BTUH Input: 999,500

Thermal Efficiency: 94%

GPM: 31 GPM @ 60 Degree Rise

Replaced: Storage tank water heater. 2 x 100 gallon

Motivating Factor: Space Savings, Redundancy, High Efficiency



Inn at Sunset Cliffs

Carlsbad, California

Model: NCC199 Series

Quantity: 5

Indoor / Outdoor: Indoor

Max BTUH Input: 999,500

Thermal Efficiency: 94%

GPM: 31 GPM @ 60 Degree Rise

Replaced: Storage tank water heater. 2 x 100 gallon.

Motivating Factor: Space Savings, Redundancy, High Efficiency



Laundry

Speed Queens Laundromat

Georgia and Texas

Model: NCC199 Series

Quantity: 8

Indoor / Outdoor: Indoor

Max BTUH Input: 1,599,200

Thermal Efficiency: 94%

GPM: 43 GPM @ 70 Degree Rise

Motivating Factor: Space Savings, Energy Savings, Equipment Savings vs. 4 x BTH199 Cyclone Tanks



Campuses

University Of Southern Florida Dorms

South Tampa, Florida

Model: NCC199 Pre-Built Rack

Quantity: 6

Indoor / Outdoor: Indoor

Max BTUH Input: 1,199,400

Thermal Efficiency: 94%

GPM: 45 GPM @ 50 Degree Rise

Replaced: Storage tank water heater, AO Smith Cyclones, 3 x 100 Gallon

Motivating Factor: Lower Equipment Cost, Modulation, Better Warranty



Oakley Headquarters

Lake Forest, CA

Model: NC380

Quantity: 30

Indoor / Outdoor: Outdoor

Max BTUH Input: 11,400,000

Thermal Efficiency: 80%

GPM: 330 GPM @ 65 Degree Rise

Replaced: Large Storage Tank and Boiler

Motivating Factor: High Efficiency, Redundancy,
Space Savings



Hospital

VA Hospital

Salt Lake City, Utah

Model: NCC199CDV

Quantity: 4

Indoor / Outdoor: Indoor

Max BTUH Input: 799,600

Thermal Efficiency: 98%

GPM: 20 GPM @ 75 Degree Rise

Replaced: 2 x 100 Gallon Storage Tanks

Motivating Factor: High Efficiency, Redundancy,
Space Savings



Brewery

Monday Night Brewing

Atlanta, Georgia

Model: NCC199 PreBuilt Floor Mount Rack

Quantity: 5

Indoor / Outdoor: Indoor

Max BTUH Input: 999,500

Thermal Efficiency: 94%

GPM: 15.7 GPM @ 120 Degree Rise

Replaced: 5 Total Units (CWHS408)

Motivating Factor: Equipment Cost Savings,
Redundancy



Accessories

Do More With Your Tankless

Utilize your Noritz Commercial Tankless to its fullest potential along with keeping your unit in top shape with our wide selection of accessories.

Water Treatment



Scale Shield Water Treatment (SS-HB-3)

The SS-HB-3 scale shield kit removes sediment and reduces scale formation*. It also reduces corrosion caused by chlorides, silica, and dissolved

*SS-HB-3 max flow only good for up to 1 CDV. Larger applications may require a special filter



Condensate Neutralizer Kit (NT20A)

Neutralize acidic condensate before it is dumped into common drains. Intended use: up to 3,000,000 BTU/hr or 5 GPH.

Unit Control



Noritz System Controller (SC-XX)

Available system controller models can provide a central communication link for up to 6, 12, or 24 unit multi-systems.



Commercial Wifi Adapter

The Noritz NWCC Commercial Wifi Adapter allows business owners and contractors to take full control of their tankless system.

System Controller Primary Functions	
Application Selection	Standard, Recirculation, or Storage Tank Recovery
Staging Control	Staging is determined on application setting. In the case of storage tank recovery, all heaters operate at the same time to provide the fastest recovery rate.
Firing Rotation	Sequential rotation every 24 hours or 8 hours combustion time so no single heater is overrun. Wear is evenly distributed across all heaters.

Additional System Controller Options	
Pump	Control relays for up to two pumps with simultaneous or alternating operation.
Operation And Warning Lights	Relay points to create additional alerts of operation and error conditions.
Aquastat And Timer	Utilize the internal aquastat controls and timer functions when a recirculation pump is controlled by the system controller.
Exhaust Fan	Connect a fan or damper relay to provide mechanical combustion air supply or operate an exhaust damper in cold climates whenever heater(s) operate.
Thermostat For Storage Tank Control	Connect the storage tank thermostat to alert the pump relay to activate because of low temperature in the storage tank.
External Operation Switch	Enable an external switch to power down the system other than from the primary remote.
Wifi Capable	Provides visibility of heater status when paired with our new Commercial Wifi Adapter (NWCC-ADAPTER).



Commercial Remote Controller

- Temperature adjustment from 100-185° (°C or °F)
- Recirculation Control Feature
- Time Stamps Error Codes

Multisystem Control

Superior commercial unit linking made easy

Units Used	2	6	12	24
Accessory	QC-2	SC-401-6M	SCU-401-12M	SCU-401-24M



Additional Installation Accessories

Isolator Valve Kit (IK-WV)

Isolation Valve Kit with PRV to easily isolate heater from plumbing.



Quick Connect Cord (QC)

Provide simple staging and modulation for 2 units in small applications



Commercial Rack System (MR-2)

Prefabricated racks can support up to 2 units back to back.



Remote Controller Cord (RC-Cord)

Additional cord lengths up to 26 feet available.





Real Time Data For
Commercial Installations

Commercial Wifi Adapter

The new Noritz NWCC Commercial Adapter allows business owners and contractors to take full control of their tankless system. Available on both iOS and Android, the NWCC adapter connects with our Noritz Connect app to give users monitoring, troubleshooting, and more.

Features & Benefits



Service Alarms

React Proactively. Prevent critical errors with warning alarms for necessary service.



Alerts Directly To You

Email and text message alerts. Get notifications across desktop and mobile.



Site-Specific Notifications

Notifications for any installation. Set your parameters and cater your alerts to your business.



Multi-Site Monitoring

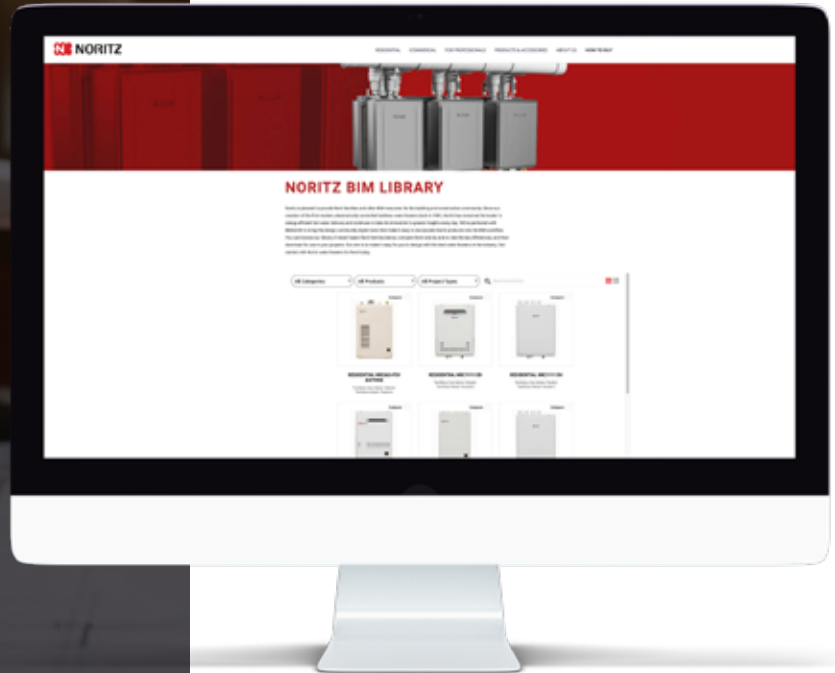
Simultaneous system monitoring. Up to 6 per adapter through our dedicated dashboard.



BIM Library Now Available

Are you an architect or engineer looking to use Noritz in your next project? We've partnered with **BIMsmith** to bring our tankless water heaters into your BIM workflow.

**Scan Here to Visit the
Noritz BIM Library Site**



**Get Certified Parts For
Any Noritz Repair. Period.**

Support Site & Parts Ordering

Our newly redesigned support page is your go-to source for all technical specs and support documents for all Noritz tankless water heaters. In addition, we're excited to share the addition of parts ordering online! Find all the parts you need, available 24/7 to order. Stock your truck with all those necessary parts today!

Visit [SUPPORT.NORITZ.COM](https://support.noritz.com)



Parts Ordering Online

Get the parts you need 24/7. Our new parts ordering feature saves time and minimizes waiting when you need it most. Keep your parts stocked and ready for any scenario.



Technical Literature

Our technical literature page offers owners a vast library of documents for each heater including spec sheets, owner's guides, install manuals, parts lists, and certification documents.



Part Search Tool

Allows you to search for parts easily. Access a complete overview of technical spec info, installation, accessories, approvals, & warranty.



Warranty Calculator

This calculator is designed to approximate the length of your warranty terms. Now more precise when you add an installation date or maintenance monitor data.

Notes

The Noritz NCC199CDV

Commercial Quality You Can Trust

Offering industry leading performance and a 10 year heat exchanger warranty to tackle any commercial water heating application, keeping your business with hot water for years to come.

For more information, visit NORITZ.COM/CDVWARRANTY

› Commercial Consultation

Have a question on specs, sizing, or how you can build Noritz into your next project? Talk to our commercial experts directly at: Commercial@Noritz.com

› Technical Support

Noritz America provides two customer-service initiatives:

- A Technical Support Website
- An In-House Call Center with the goal of delivering information more quickly and efficiently to customers, whether their preferred method is the telephone or online.

To speak to one of our Tech Support Professionals:

866-766-7489 (Press 1)

Visit our Technical Support Site at:

Support.Noritz.com



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TANKLESS WATER HEATERS

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Affiliations



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