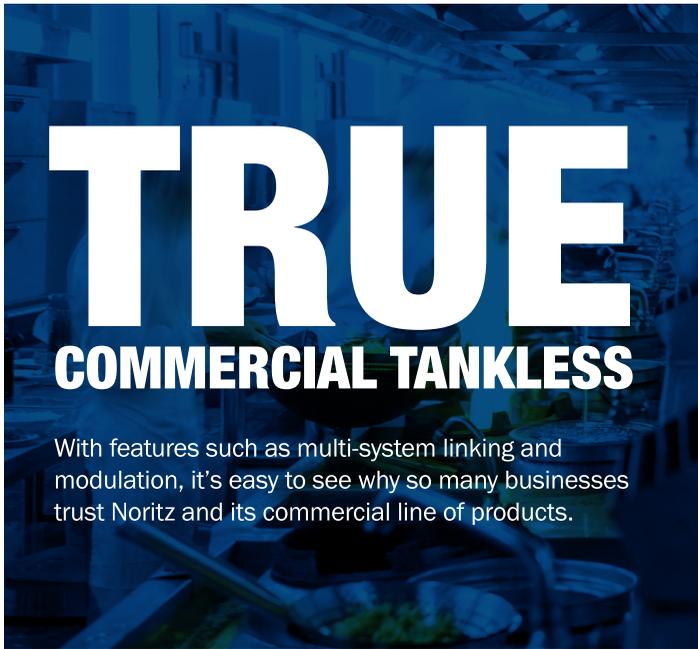




COMMERCIAL GUIDE



CMK / CRK
QUICK COMMERCIAL MANIFOLD & RACK KITS



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.



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.

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.

UNMATCHED

Noritz Commercial tankless water heaters are TRUE commercial grade tankless water heaters, leading the industry in terms of innovation, quality, and performance, backed by an unmatched 10-year warranty

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 0.98 UEF to the lean JPS just in time manufacturing process we utilize to manufacture our product.



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 intelligent water heating system on the market today.



STEP 1

The heater will turn on when water flow is sensed



STEP 2

One heater operates solely until the demand grows greater than 80%



STEP 3

The total load will equalize among 2 or more heaters to meet high volume demand

THE TANKLESS ADVANTAGE

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

HIGH CAPACITY TANKLESS VS. BOILER



TTS-TWST6



Concern	Noritz Commercial System	Boiler with Storage Systems
Heat Loss	✔ Zero standby heat loss.	Foam insulation on boiler room components.
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.
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	✔ 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.

TANKLESS VS. TANK

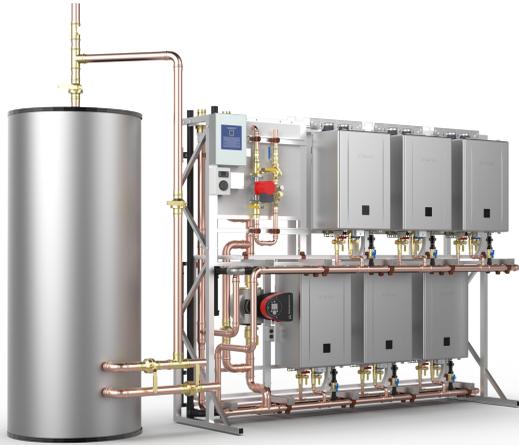
TTS-S2MINI



Feature	Noritz Tankless System TTS-S2MINI (2 Unit System)	Commercial Tank
Capacity	✔ Continuous Flow	Limited to tank storage
Weight	✔ 180 lbs. (Entire system)	500 lbs.
Redundancy	✔ Continuous operation after failure	No reserve; Failure results in total hot water loss until replaced.
BTUs	✔ Up to 399,800	199,000

READY TO TACKLE ANY COMMERCIAL DEMAND

Our commercial hot water systems are engineered to tackle any demand across a variety of industries. From professional kitchens to hospitals, Noritz provides hot water solutions for any business's hot water needs.



BEST IN CLASS TTS SYNERGY SERIES



SCAN TO VIEW ALL
CONFIGURATIONS
AND SPEC SHEETS

Offering high performance tankless rack systems as well as options to pair with a storage tank, the TTS Synergy Series offers industry leading performance in a wide range of configurations including floor standing and wall hanging options.

BENEFITS

- ➔ Pre-fabricated systems for higher demands.
- ➔ Offer one point of connection for a more streamlined installation process.
- ➔ System pairing with storage tank available.
- ➔ All manifold and electrical wiring comes pre-installed for faster system setup.
- ➔ Provide greater space savings thanks to its compact design.
- ➔ Utilize our award-winning NCC199CDV Pro commercial tankless water heaters.
- ➔ Customization option available for larger capacities.



BETTER COMMERCIAL RACK SYSTEM (CR)



SCAN TO VIEW ALL
CONFIGURATIONS
AND SPEC SHEETS

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

BENEFITS

- ➔ Pre-fabricated system.
- ➔ Modular and linked system allows for redundancy to eliminate downtime.
- ➔ Low profile design for stability and easier transportation.



GOOD CMK / CRK DO IT YOURSELF



SCAN TO VIEW ALL
CONFIGURATIONS
AND SPEC SHEETS

Engineered for a streamlined installation experience, our CMK and CRK manifold kits include one floor standing or wall hung system in one convenient and easy to transport box.

BENEFITS

- ➔ Full system comes in 1 (WH) or 2 (FS) boxes for easier transportation and setup.
- ➔ Wall hanging option includes easy-to-use wall template for installation.
- ➔ Floor standing option uses only 12 bolts to complete assembly.

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		Condensing	Non-Condensing		
Model Number	NCC3000D*	NCC300DV*	NCC199CDV Pro	NC380SV	NC199DVC	NC199OD
GQ Reference Number	GQ-C5032WZ US	GQ-C5032WZ-FF US	GQ-C3261WZ-FF US NG	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"(h) x 18.9"(w) x 14.2"(d)	32.7"(h) x 18.9"(w) x 14.2"(d)	26.1"(h) x 18.1"(w) x 11.8"(d)	29.5"(h) x 19.1"(w) x 11.8"(d)	23.6"(h) x 13.8"(w) x 11"(d)	23.6"(h) x 13.8"(w) x 11"(d)
Weight (lbs)	108 lbs.		62 lbs.	106 lbs.	58 lbs.	54 lbs.
Min./Max. Btuh	15,000 - 300,000		12,800 - 199,900	22,500 - 380,000	16,000 - 199,900	16,000 - 199,900
Thermal Efficiency / UEF	97%		0.98 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, 185°F (14 options)	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		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		Yes	No	Yes	
Quick Connect	Yes		Yes	Yes		
Remote Included	Yes		No	Yes		
Min/Max Flowrate	0.5 GPM / 13.2 GPM		0.4 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 10,200 ft.	Up to 8,000 ft.		
Wireless Compatible	Yes		Yes	Yes		
Common Vent Capable	No		Up to 12 Units	No		
Commercial Energy Star	Yes		Yes	No		
PVC	No	Yes	Yes	No		
ASME	No		No	Yes	No	

*NCC300 only available for sale in CA, MN, and OK

NCC199CDV PRO



Low NOx Approved
by SCAQMD
14 ng/J or 20 ppm
(Natural Gas Only)



6 Noritz America

TRUE COMMERCIAL TANKLESS

Our NCC199CDV Pro brings even more features and benefits to our most popular commercial tankless. This includes improved efficiency, built-in display, Bluetooth® connectivity, and more - making our flagship commercial tankless the first choice for businesses looking for faster, reliable hot water delivery.

FEATURES & BENEFITS

- GREATER EFFICIENCY**

The NCC199CDV Pro offers an improved **UEF rating of 0.98**, making it even more efficient than previous models by generating less harmful emissions.
- NEW BLUETOOTH® CONNECTIVITY**

Our NCC199CDV Pro models come equipped with Bluetooth® connectivity, providing users with more control of heater functions including timers, temperature, and more.
- BUILT-IN DISPLAY**

All NCC199CDV Pro models now come with a built-in display that shows your heater's temperature, status, as well as error codes.
- AVAILABLE IN ONE GAS TYPE**

Natural Gas (NG) is the default gas type, but if liquid propane (LP) is preferred all units come with a gas conversion kit that helps to easily update your unit's gas type.
- GREATER QUICK CONNECT CAPABILITY**

The new CDV Pro can now quick connect up to 6 units, compared to 2 of earlier models.
- UPDATED COVER DESIGN**

The CDV Pro now has a new flange-less design with snap locks for easier component access.
- GREATER COMMON VENT CAPABILITY**

Now you can connect up to 12 units via common venting for larger commercial applications.

TECHNICAL SPECS

Model Number		NCC199CDV Pro (GQ-C3261WZ-FF US NG)
Type	Installation	Indoor / Outdoor Wall Mounted
	Air Supply / Exhaust	Power Vented
Ignition		Direct Ignition
Warranty		10 year heat exchanger warranty / 5 year warranty on parts / 1 year reasonable labor
UEF		0.98 UEF
Operating Pressure		15 - 150 psi (Recommended 50 to 80 psi for maximum performance)
Dimensions		18.1" (w) x 26.1" (h) x 11.8" (d)
Weight		62 pounds
Water Holding Capacity		0.71 Gallon (2.7L)
Connection Sizes	Water Inlet	3/4" NPT
	Hot Water Outlet	3/4" NPT
	Recirculation Return	3/4" NPT
	Gas Inlet	3/4" NPT
	Condensate Drain	1/2" NPT
Power	Supply	120VAC (60Hz)
	Consumption	NG / LP: 105 W / 108 W
	Freeze Protection	114 W
	Maximum Current	4 Amps
Min. / Max. BTU/h		12,800 - 199,900
Max. Hot Water Capacity		8.7 GPM
Capacity Range		0.4 - 11.1 GPM
Temperature Settings	° F Mode	100-150°F (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°C intervals) (20 Options)
Materials	Primary / Secondary Heat Exchanger	Stainless Steel Sheetmetal, Stainless Steel Tubing



WHAT'S INSIDE

A LOOK AT THE NCC199CDV PRO

Knowing how a tankless water heater works can be a deciding factor when you want to make the switch. Take a look inside our new CDV Pro to see how it operates step by step.

3.

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

PREMIX BURNER

PRIMARY HEAT EXCHANGER

SECONDARY HEAT EXCHANGER

VENTURI

2.

Turbine flowsensor activates system at 0.4 GPM flowrate

GAS

SCAN TO VIEW SPEC SHEETS AND MORE FOR THE CDV PRO



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 0.98.



1.

Domestic hot water usage demand



THE TOTAL TANKLESS SOLUTION

TTS SYNERGY

S E R I E S

Offering high performance tankless rack systems as well as options to pair with a storage tank, the TTS Synergy Series offers industry leading performance in a wide range of configurations. Commercial Tankless engineering meets high performance with the TTS Synergy Series.

⇒ **ONE POINT OF CONNECTION**

All connections are shared with the TTS Synergy Series via our one point of connection feature, providing a more streamlined installation that saves time while cutting costs in labor and additional parts.

⇒ **POWERED BY THE NCC199CDV PRO**

Our TTS Synergy Series utilizes the NCC199CDV Pro, which features the best warranty in the tankless industry - 10 years on the unit's heat exchanger.

⇒ **SMALLER FOOTPRINT**

The TTS Synergy Series provides greater space savings by using a compact design - giving it the ability to combine multiple heaters into the smallest footprint possible.

⇒ **STORAGE AND WALL HANGING OPTIONS AVAILABLE**

In addition to our floor standing model, we also offer wall hanging configurations as well as storage and no storage tank options.



TTS-SWH SERIES

Model Number	Description	UPC
TTS-SWH2	Total Tankless Solution (Wall Hung) / Standard Model, 2 Unit NG & LP Convertible	817000016784
TTS-SWH3	Total Tankless Solution (Wall Hung) / Standard Model, 3 Unit NG & LP Convertible	817000016807
TTS-SWH4	Total Tankless Solution (Wall Hung) / Standard Model, 4 Unit NG & LP Convertible	817000016944

S SERIES

Model Number	Description	UPC
TTS-S2MINI	Total Tankless Solution (Compact Version) / Standard Model, 2 Unit NG & LP Convertible	817000016982
TTS-S3	Total Tankless Solution / Standard Model, 3 Unit NG & LP Convertible	817000017255
TTS-S4MINI	Total Tankless Solution (Compact Version) / Standard Model, 4 Unit NG & LP Convertible	817000017194
TTS-S5	Total Tankless Solution / Standard Model, 5 Unit NG & LP Convertible	817000017705
TTS-S6	Total Tankless Solution / Standard Model, 6 Unit NG & LP Convertible	817000017835

TWST SERIES

Model Number	Description	UPC
TTS-TWST2	Total Tankless Solution / Tankless with Storage Tank Model, 2 Unit NG & LP Convertible	817000014735
TTS-TWST3	Total Tankless Solution / Tankless with Storage Tank Model, 3 Unit NG & LP Convertible	817000017927
TTS-TWST4	Total Tankless Solution / Tankless with Storage Tank Model, 4 Unit NG & LP Convertible	817000017965
TTS-TWST5	Total Tankless Solution / Tankless with Storage Tank Model, 5 Unit NG & LP Convertible	817000018368
TTS-TWST6	Total Tankless Solution / Tankless with Storage Tank Model, 6 Unit NG & LP Convertible	817000018375
TTS-TWST2NST	Total Tankless Solution / Tankless with Storage Tank Model (Field Supplied Storage Tank), 2 Unit NG & LP Convertible	817000019372
TTS-TWST3NST	Total Tankless Solution / Tankless with Storage Tank Model (Field Supplied Storage Tank), 3 Unit NG & LP Convertible	817000019693
TTS-TWST4NST	Total Tankless Solution / Tankless with Storage Tank Model (Field Supplied Storage Tank), 4 Unit NG & LP Convertible	817000019730
TTS-TWST5NST	Total Tankless Solution / Tankless with Storage Tank Model (Field Supplied Storage Tank), 5 Unit NG & LP Convertible	817000019907
TTS-TWST6NST	Total Tankless Solution / Tankless with Storage Tank Model (Field Supplied Storage Tank), 6 Unit NG & LP Convertible	817000014742



Also Available

FIOP

FACTORY INSTALLED OPTIONS

FIOP are our custom offerings that are tailored to the needs and demands of a business. If a demand is greater than one of our standard offerings, this is the solution for you.



TTS-SWH2



Model Number: **TTS-SWH2** Max BTU/hr: **399,800**

TTS-SWH3



Model Number: **TTS-SWH3** Max BTU/hr: **599,700**

TTS-SWH4



Model Number: **TTS-SWH4** Max BTU/hr: **799,600**

TTS-SWH SERIES

TTS-SWH2, TTS-SWH3, TTS-SWH4

The new TTS-SWH Series provides businesses with an all-new way to meet their water heating needs. This wall hung configuration brings even more space savings without sacrificing hot water delivery & continues to provide the redundancy found in the TTS Family.

SCAN TO VIEW SPEC SHEETS AND MORE FOR TTS-SWH



FEATURES

- OPC (One Point of Connection) for water, recirculation return line, power, gas, venting & condensation drain
- Manifold systems
 - Hot water outlet, cold water inlet, gas, & condensate drain
- Building recirculation
- Reduction in labor hours
- Includes wall bracket
- Worry-free installation
- Designed to fit through 3'-0" x 7'-0" door
- Pre-engineered system
- Pre-configured control wiring
- Pre-installed system controllers
- Warranty
 - 10 years heat exchanger per tankless unit
 - 5 years water heater parts & components
 - 3 year circulation pump
- 1 year labor
- Additional included accessories:
 - Condensate neutralizer (Qty 1)
 - Expansion tank (Non-ASME)
 - 4.5 gallon (TTS-S2MINI/3/4MINI Models)

S SERIES

TTS-S2MINI, TTS-S3, TTS-S4MINI, TTS-S5, TTS-S6

The S Series utilizes a floor standing configuration and boasts all features found on our TTS Systems. Features a BTU range of 399,800 – 1,199,400 which is powerful enough for most commercial needs.

FEATURES

- One Point of Connection
- Aluminum Frame
- 2 to 6 – Noritz NCC199CDV Pro (GQ61) Tankless Water Heaters with System Controller
- 1 ½" Water & Gas Manifolds
- ¾" Condensate Drain Manifold
- Expansion Tank Included
- Breaker Box w/ Included Circuit Breakers
- Pump Controller with Timer
- Surge Protector
- Building Recirculation Pump
- Shutoff Valves
- Well Immersed Thermistors for Easy Monitoring of Building Hot Water Performance



TTS-S2MINI
Up to 399,800 BTU/hr



TTS-S4MINI
Up to 799,600 BTU/hr

SCAN TO VIEW SPEC SHEETS AND MORE FOR S SERIES



TANKLESS WITH STORAGE

TWST SERIES

TWST2, TWST3, TWST4, TWST5, TWST6

The TWST Series boasts all the features found on our TTS Systems while also utilizing a storage tank. This system can range from 399,800 to 1,199,400 BTU meaning it has enough power for most commercial scenarios.

FEATURES

- One Point of Connection
- Aluminum Frame
- 2 to 6 – Noritz NCC199CDV Pro (GQ61) Tankless Water Heaters with System Controller
- 120 Gallon Storage Tank Included
- 1 ½" Water & Gas Manifolds
- ¾" Condensate Drain Manifold
- Expansion Tank Included
- Breaker Box w/ Included Circuit Breakers
- Pump Controller with Timer
- Surge Protector
- Building Recirculation Pump
- Storage Tank Recovery Circulator
- Shutoff Valves
- Well Immersed Thermistors for Easy Monitoring of Building Hot Water Performance
- 2" Hot Water Supply to Storage Tank
- Y - Strainer
- 2" Cold Make Up Water
- 2" Supply through Pump to Tankless
- 2" Pump Bypass
- Integrated 2" Check Valves



Model Shown:
TTS-TWST6

SCAN TO VIEW SPEC SHEETS AND MORE FOR TWST SERIES





SCAN TO VIEW
SPEC SHEETS FOR
THE CR60 SYSTEM



TRUE COMMERCIAL TANKLESS

COMMERCIAL RACK SYSTEM (CR)

The Noritz CR Commercial Rack System (formerly CWHS) 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 low profile design and a variety of installation options make this rack system ideal for business owners looking to replace outdated storage tanks.

FEATURES

→ LOW PROFILE DESIGN

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

→ WALL MOUNT OPTION

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

→ REDUCED INSTALL TIME

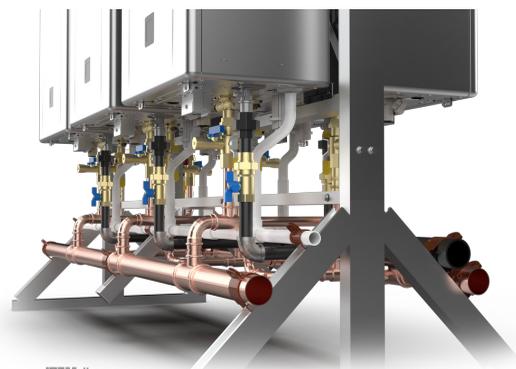
Pre-piped condensate manifold and condensate line along with pre-wiring required for multi-systems reduces installation time.

→ 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.



ITEM #
CR60-CA

Also Available

CA COMMERCIAL SYSTEM UPDATE

The updated Noritz CA update for the CR Commercial Rack System brings new features designed to create a hassle free and easy installation. This 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.



DIMENSIONS

Model Number	Rack Type	UPC	Included Main Components		Cold / Hot Water & Gas Manifold				Rack Dimensions			Total Weight (lbs)
			GQ-C3261WZ-FF US NG	SC-401-6M	Cold	Hot	Condensate Drain Manifold	Gas Manifolds	L	D	H	
CR61-WH-2	2 Unit Wall Hanging, NG & LP Convertible	817000014322	2	1	2"	2"	3/4"	2"	54 1/4"	17"	44"	243
CR61-WH-2-CA	2 Unit Wall Hanging, NG & LP Convertible; California (CPC) Compliant	817000016050	2	1	2"	2"	3/4"	2"	54 1/4"	17"	44"	243
CR61-WH-3	3 Unit Wall Hanging, NG & LP Convertible	817000014353	3	1	2"	2"	3/4"	2"	78"	17"	44"	362
CR61-WH-3-CA	3 Unit Wall Hanging, NG & LP Convertible; California (CPC) Compliant	817000016142	3	1	2"	2"	3/4"	2"	78"	17"	44"	362
CR61-FS-3	3 Unit Free Standing, NG & LP Convertible	817000015657	3	1	2"	2"	3/4"	2"	52 1/4"	30"	56 3/4"	362
CR61-FS-3-CA	3 Unit Free Standing, NG & LP Convertible; California (CPC) Compliant	817000016289	3	1	2"	2"	3/4"	2"	52 1/4"	30"	56 3/4"	362
CR61-FS-4	4 Unit Free Standing, NG & LP Convertible	817000015831	4	1	2"	2"	3/4"	2"	54 1/4"	30"	56 3/4"	412
CR61-FS-4-CA	4 Unit Free Standing, NG & LP Convertible; California (CPC) Compliant	817000016296	4	1	2"	2"	3/4"	2"	54 1/4"	30"	56 3/4"	412
CR61-FS-5	5 Unit Free Standing, NG & LP Convertible	817000015886	5	1	2"	2"	3/4"	2"	78"	30"	56 3/4"	520
CR61-FS-5-CA	5 Unit Free Standing, NG & LP Convertible; California (CPC) Compliant	817000016371	5	1	2"	2"	3/4"	2"	78"	30"	56 3/4"	520
CR61-FS-6	6 Unit Free Standing, NG & LP Convertible	817000015978	6	1	2"	2"	3/4"	2"	78"	30"	56 3/4"	593
CR61-FS-6-CA	6 Unit Free Standing, NG & LP Convertible; California (CPC) Compliant	817000016678	6	1	2"	2"	3/4"	2"	78"	30"	56 3/4"	593

HOT WATER SUPPLY CAPACITY

Model Number	Heater Quantity	Heater Configuration	Min BTU/hr Input	Max BTU Input	Hot Water Capacity (GPM)						
					50°	60°	70°	80°	90°	100°	110°
CR61-WH-2	2	Wall Hanging In-Series	12,800	399,800	15.7	13.1	11.2	9.8	8.7	7.8	7.1
CR61-WH-3	3	Wall Hanging In-Series	12,800	599,700	23.5	19.6	16.8	14.7	13.1	11.8	10.7
CR61-FS-3	3	Free Standing	12,800	599,700	23.5	19.6	16.8	14.7	13.1	11.8	10.7
CR61-FS-4	4	Free Standing 2x2 Back to Back	12,800	799,600	31.3	26.1	22.4	19.6	17.4	15.7	14.2
CR61-FS-5	5	Free Standing 3x2 Back to Back	12,800	999,500	39.2	32.7	28.0	24.5	21.8	19.6	17.8
CR61-FS-6	6	Free Standing 3x3 Back to Back	12,800	1,199,400	47.0	39.2	33.6	29.4	26.1	23.5	21.4

ADDITIONAL INSTALLATION OPTIONS AND ACCESSORIES



WALL HANGING RACK

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



WHEEL KIT

The Noritz 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.

FEATURES

- **GREATER MOBILITY**
Relocate your CR system with ease using the Wheel Kit's rubber casters for a fast and smooth transition.
- **DESIGNED FOR THE CR**
Our wheel kit is designed to work smoothly with all configurations of Noritz Commercial Rack systems.
- **MOVE YOUR SYSTEM WITH EASE**
Placed at the ends of your CR floor standing system, the Wheel Kit provides installers an easier way to pick up and move without the need for heavy lifting.



CMK / CRK

QUICK COMMERCIAL MANIFOLD & RACK KITS

THE RIGHT SYSTEM FOR ANY COMMERCIAL JOB

Engineered for a streamlined installation experience, our CMK (Commercial Manifold Kit) and CRK (Commercial Rack Kit) bundle all the components needed to build a custom floor or wall mounted commercial system.*

*NCC199CDV Pro tankless units sold separately



CMK-SS WALL HANGING BUNDLE KITS

Includes manifold kit, wall mounting frame, and template for installation - everything needed to minimize downtime and get businesses up and running with faster hot water performance.



CMK-BB FLOOR STANDING BUNDLE KITS

Includes our manifold kit for 2 or 4 tankless units. Paired with CRK-BASE kit, the CMK-BB provides powerful performance with a faster setup.

NORITZ NCC199CDV PRO



DESIGNED FOR USE WITH OUR CDV PRO TANKLESS

All our CMK/CRK bundles are engineered to work hand in hand with our award-winning NCC199CDV Pro tankless (sold separately). Each unit comes with a 10 year warranty and is built to handle the toughest hot water demands.



SCAN TO WATCH OUR CMK EXPLAINER VIDEO

WALL MOUNTED

Side to Side Systems



CMK-SS2

2 Units, Side to Side



CMK-SS3

3 Units, Side to Side



CMK-SS4

4 Units, Side to Side



FLOOR STANDING

Back to Back Systems



CMK-BB2

2 Units, Back to Back



CMK-BB4

4 Units, Back to Back

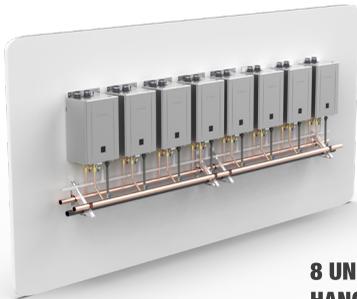


TO VIEW ALL AVAILABLE CMK AND CRK CONFIGURATIONS, SCAN HERE:



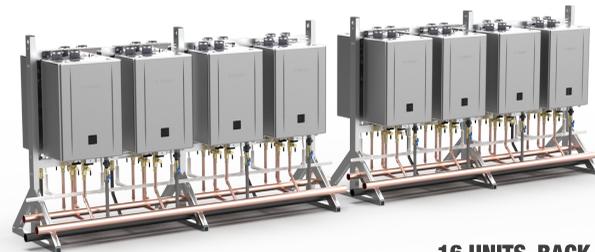
BOTH SYSTEMS FULLY CONFIGURABLE UP TO 24 UNITS*

Our CMK/CRK systems can expand up to 24 total units to tackle any business's hot water demand.



8 UNITS, SIDE TO SIDE WALL HANGING SYSTEM

Required Components:
2 x CMK-SS4
8 x NCC199CDV Pro Units
 (Sold Separately)



16 UNITS, BACK TO BACK FLOOR STANDING SYSTEM

Required Components:
4 x CMK-BB4
2 x CRK-BASE
2 x CRK-ADDON
16 x NCC199CDV Pro Units
 (Sold Separately)

HEADER SIZING

Number of Units	Min. Common Gas Header	Min. Common Water Header	Min. Common Condensate Header
Up to 8 Units	2 in.	2 in.	0.75 in.
>8 and <=16	2.5 in.	2.5 in.	1 in.
>16 and <=24	3 in.	3 in.	1.25 in.

*Up to 24 individual water heaters can be easily connected using multiples of CRK-BASE and CRK-ADDON kits. In order to ensure proper operation, additional accessories will be needed: System controller (SCU-401-6M, SCU-401-12M or SCU-401-24M) and remote cords (RC-CORD10 or RC-CORD26) which are sold separately, are required to ensure system balancing and load management. Manifold sizing is designed for a maximum of eight (8) water heaters. In order to connect units in greater number than eight, a common header of a larger diameter may be necessary. Refer to local plumbing and/or building code for minimum piping requirements.

RACK IN THE BOX QUICK COMMERCIAL KITS

Our CMK/CRK quick rack kits can be customized to tackle any commercial demand. Using only 12 bolts for assembly, almost 80% less than competitors, our rack in the box systems can be installed in less than 2 hours, minimizing hot water disruption.



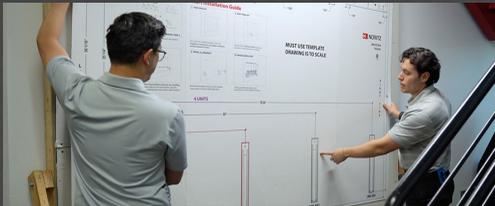
QUICKLY BUILD A COMMERCIAL RACK FASTER & EASIER

Designed for effortless installation, each kit includes all necessary components, offering a more convenient and efficient alternative.



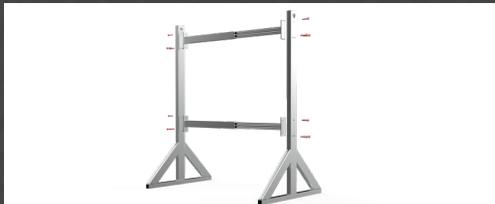
FITS INTO ONE BOX

Our predetermined box kits simplify commercial rack construction with all-in-one solutions. Choose from our set kits designed for standard configurations, making it easy to assemble the right setup for your needs without extra planning - just unbox and get straight to installation.



TO-SCALE INSTALLATION TEMPLATE PROVIDED

Installation is made effortless with our to-scale wall template. Simply set it on the wall to see exactly where to drill pilot holes - eliminating the need for extensive pre-planning and measuring.



ONLY 12 BOLTS NEEDED FOR ASSEMBLY

Our rack kit simplifies construction with just 12 bolts needed for the main manifold assembly. This streamlined design significantly reduces labor and effort compared to the competition with numerous pieces and screws.



WALL HANGING OPTION

CMK-SS

Wall mount, side by side

STEP 1

Select number of NCC199CDV Pro tankless units needed for your system



STEP 2

Choose your wall hanging configuration



CMK-SS2

Wall Mounted, 2 Unit Commercial System

MAX BTU/H

> 399,800 BTU/h



CMK-SS3

Wall Mounted, 3 Unit Commercial System

MAX BTU/H

> 599,700 BTU/h



CMK-SS4

Wall Mounted, 4 Unit Commercial System

MAX BTU/H

> 799,600 BTU/h



FLOOR STANDING OPTION

CMK-BB

Floor standing, back to back

STEP 1

Select number of NCC199CDV Pro tankless units needed for your system



STEP 2

Choose your floor standing configuration

CMK-BB2

Floor Standing, 2 Unit Commercial System

MAX BTU/H

> 399,800 BTU/h

CMK-BB4

Floor Standing, 4 Unit Commercial System

MAX BTU/H

> 799,600 BTU/h



STEP 3

Select the base for your floor standing rack



EXPANDABLE FROM 2 TO 4 UNITS

CRK-BASE

STEP 4

Select optional extension for systems over 4 units



CRK-ADDON

To learn more and to size your system with our Noritz experts, contact us at COMMERCIAL@NORITZ.COM

Noritz America 15



UPGRADED FOR 2025
WITH THE NEW
**NCC199CDV
PRO**

NORITZ
HH
HYBRID HOT
SERIES BY NORITZ

NORITZ
10
YEAR
TANK & TANKLESS
WARRANTY

RECOVERY CAPACITY

Model 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
NHH199100-1	119 Gal	199,900	780	585	468	390	334	292	260	234	213	195	180	167

HH

HYBRID HOT SERIES

BY NORITZ®

THE FIRST TANKLESS AND TANK COMBO FROM NORITZ. NOW WITH THE NEW NCC199CDV PRO.

ENDLESS HOT WATER. QUICKER RECOVERY.

The 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.

PERFORMANCE

Approved Gas Types	Natural Gas or Propane	
NCC199CDV Pro (GQ-C3261Z-FF US) Efficiency		0.98 UEF (For CDV Pro tankless)
	Ratings not certified by AHRI	96% Thermal Efficiency (For system)
First Hour Rating**	317 GPH	

**First hour rating is a calculation based on 100°F temperature rise, with recovery capacity plus 70% usable tank volume



**SCAN TO VIEW
SPEC SHEET FOR OUR
2025 HYBRID HOT**

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 Pro tankless even after your stored supply is depleted*.

*Hot water capabilities are limited



TECHNICAL SPECS

Model Number		NHH199100-1
Appliance Type		NCC199CDV Pro (GQ-C3261Z-FF US) Tankless Water Heater paired with Insulated Storage Tank, Pump, and Controller
Installation Location		Indoor Only
Working Pressure	Water	15 - 150 psi
	Gas	NG: 3.5 - 10.5" LP: 8.0 - 13.0"
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": 75' / 3": 150'
	Common Vent	Yes (Up to 12 Units)
Dimensions		H: 67 3/4" W: 28" D: 41.2"
Weight		536 lbs.
Power Supply		120 VAC (60Hz)
Tank Capacity		119 Gallons (Cement Lined)
Tankless Capacity		12,800 - 199,900 BTUh
Temperature Setting		100 - 185°F (37 - 85° C)

SCAN HERE TO
WATCH OUR
HYBRID HOT
EXPLAINER VIDEO





PROJECT PROFILE

NUTRACEUTICAL MANUFACTURER

- › **TANKLESS:**
NCC199CDV
Commercial Tankless
- › **NUMBER OF UNITS:**
6
- › **LOCATION:**
Lancaster, California

“NOT ONLY DID NORITZ PARTICIPATE IN THE STARTUP, BUT THEY ALSO WALKED THE FACILITY AT THE OUTSET, LEARNED THE OPERATIONS AND THEIR NEEDS, AND ASSISTED OUR OWN TEAM DURING THE DESIGN PHASE. THEIR PRODUCT AND APPLICATION KNOWLEDGE HELPED GUIDE US THROUGHOUT. IT WAS GOOD TO HAVE THEM ON BOARD.”

Trent Eason
Owner of Priority Plumbing Solutions

> CHALLENGE

Eason's challenge in the case at hand: to help devise a new and more effective way to meet the varying hot-water demands of a local nutraceutical manufacturer's production processes. The latter involve blending, encapsulating, and tableting various health and wellness products it sells in the United States and worldwide.

Because the company's customers actually ingest these products, they are considered the equivalent of food. As a result, the manufacturer must adhere to comparatively high cleanliness standards. This is why the company follows the public health standards organization NSF, and why it became certified as a California Good Manufacturing Practice facility.



Not surprisingly, the above reality translates into a need for large amounts of hot water to keep all of this manufacturer's machinery — blenders, tablet presses, encapsulation machines, and packaging lines, much of it made of stainless steel — in pristine condition. Daily hot-water usage totals thousands of gallons.

But here's the twist, according to Eason: "My customer uses a lot of water intermittently, not consistently. Lots of water all of a sudden, and then not much for a while after that. Their various machines are on a two-to-four-hour cycle. Depending on how those cycles align, usage tends to spike probably every three hours throughout a typical workday."



> SOLUTION

A pre-assembled rack of six high-efficiency, condensing tankless water heaters feeding a trio of 119-gallon storage tanks keeps the manufacturer's production lines fully operational while meeting their demanding cleanliness standards.



One of the biggest attractions of the combination system Priority Plumbing Solutions proposed was the ability to avoid any production downtime during the changeover from the electric boiler to the tankless rack. Indeed, this was more than an attraction but an absolute must, says Eason. "Their operation cannot be without hot water for any length of time."

The entire installation spanned several months in the fall of 2023, as the Priority Plumbing Solutions crew installed all the piping required by the new system. This work included an entirely new, 1¼-inch gas line and an upsized cold-water supply: from 1¼ inches the old electric water heater used to the new 2-inch line. The team also had to create a larger supply-and-return loop connecting the mechanical room with all the production stations.

But because the tankless rack arrived fully assembled and ready to hook up, Eason and his colleagues accomplished the actual switchover from the previous system in a single weekend after production had shut down. "On Saturday, we did the changeover," he recalls. "On Sunday, a Noritz engineer helped fire up the water heaters and commission the rest of the system."

Once production began again on Monday, according to Eason, the stations were already enjoying all the hot water they needed. "At no point did the operation have to wait for hot water."

> OUTCOME

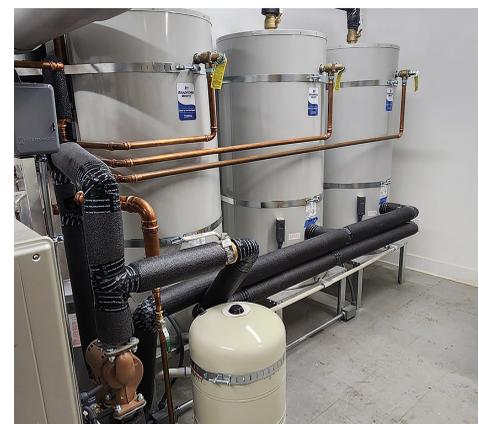
Since its commissioning in October 2023, the new combination tank-and-tankless system has been "performing as designed," reports the installer. "My customer has told me that whenever they have experienced their big spikes, the system has fully responded and then recovered just as quickly."

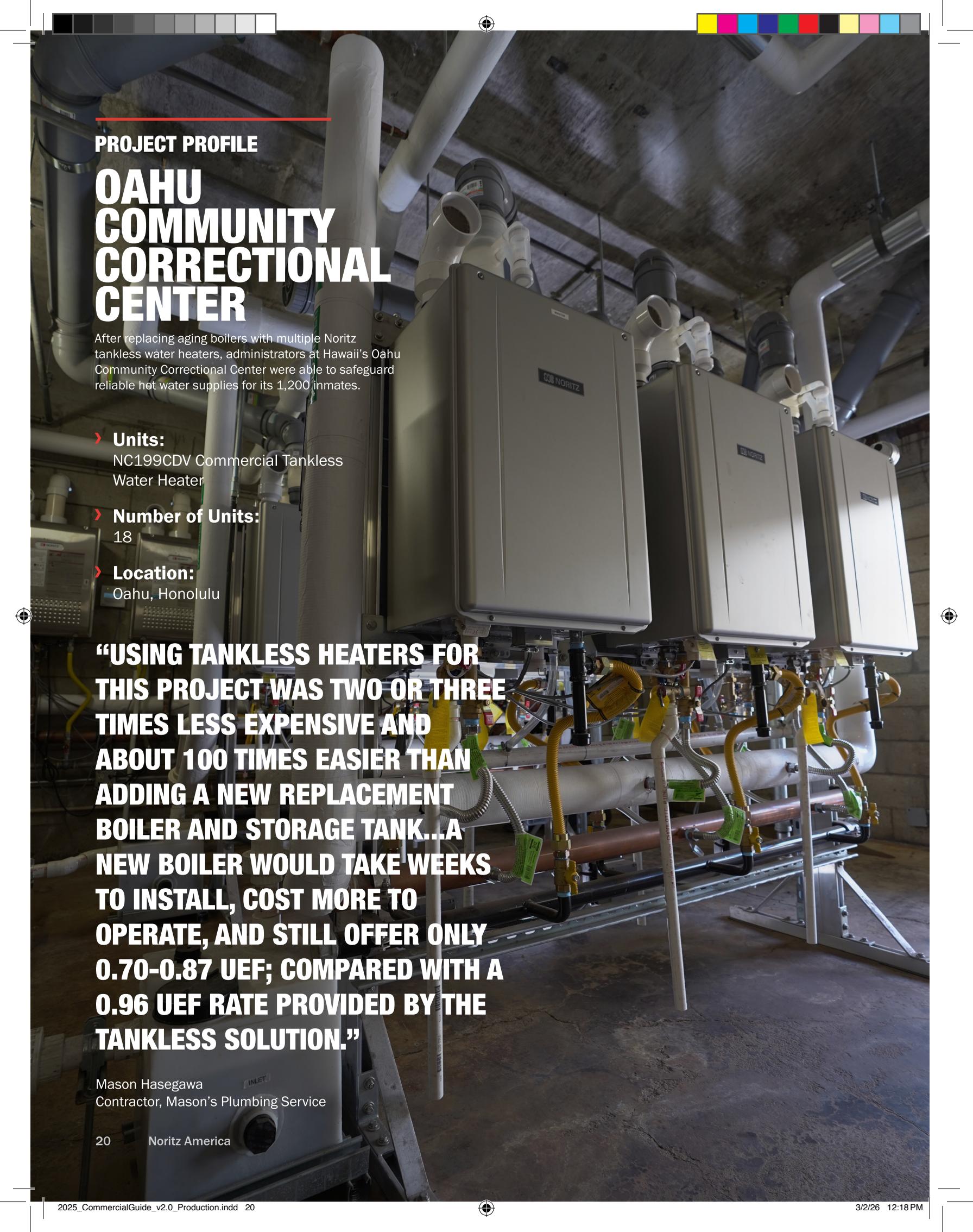
Eason cites one final but equally critical strategic consideration for the manufacturer in its move from electric boiler to gas-fired tankless water heating: ready scalability.

"These systems are designed to be modular and scalable to support operational growth," he explains, adding that his customer's maximum daily gallonage of hot water used is approaching five figures.

"Even if their usage continues to rise, adding two tankless units and a fourth storage tank could be done quickly and easily without the costly ordeal of tearing apart the entire system."

"If they go that route, we will help them innovate again, and they will be just fine."





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:**
NC199CDV Commercial Tankless Water Heater
- › **Number of Units:**
18
- › **Location:**
Oahu, Honolulu

“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...A NEW BOILER WOULD TAKE WEEKS TO INSTALL, COST MORE TO OPERATE, AND STILL OFFER ONLY 0.70-0.87 UEF; COMPARED WITH A 0.96 UEF RATE PROVIDED BY THE TANKLESS SOLUTION.”

Mason Hasegawa
Contractor, Mason's Plumbing Service

20 Noritz America

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:	EXISTING:	NEW:	% Change
Oahu Community Correctional Center	23-year-old 1,000,000 BTU boilers and two storage tanks	18 NCC199CDV gas-fired commercial condensing tankless heaters	
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	-

DO MORE WITH YOUR COMMERCIAL TANKLESS ACCESSORIES

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 iron. Only good for 1 CDV Pro.



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.

ADDITIONAL ACCESSORIES



QC-2

QUICK CONNECT CORD

Provide simple staging and modulation for 2 units in small applications.

NEW FOR GQ61

Connect up to 6 CDV Pro units together without the need for a system controller!



RC-CORD10

10 Feet

RC-CORD26

26 Feet

REMOTE CONTROLLER CORD

Additional cord lengths up to 26 feet available.

IK-WV-200-5-TH-L

Long Body

IK-WV-200-5-TH-S

Short Body



ISOLATOR VALVE KIT (IK-WV)

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



MR-2

COMMERCIAL RACK SYSTEM

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

UNIT CONTROL

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



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.

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).

MULTISYSTEM CONTROL

Superior commercial unit linking made easy

Number of Units	2	2-6 (GQ61 Models)	6	12	24
Accessory	QC-2	QC-2	SC-401-6M	SCU-401-12M	SCU-401-24M



Register today at
procard.noritz.com

Dedicated Support and Benefits For Noritz Pros - Available Now With Our Loyalty Program

PROCARD

The Noritz **PROCARD** program has expanded to offer our most dedicated contractors even more perks and benefits.

Activate Your Subscription To...

PREMIUM PROCARD SUBSCRIPTION PROVIDED BY SERVICE WHALE®

PROCARD+

Our **PROCARD+** paid subscription offers contractors a step ahead of the competition with perks to help expand their business, including priority listing on our contract finder and advanced online business profiles.

What You Get:

- Higher ranking on our online contractor finder
- Advanced online business profile
- Improved lead retrieval system
- Pre-qualifying customer questions for quality leads

Install 12 Noritz Tankless To Qualify For...

PROCARD Select

Designed for our mid-level contractors, the **PROCARD SELECT** tier is offered for those who have installed over 12 Noritz units. This level brings even more resources and benefits including cash rebates on installs, promo codes for parts, and our concierge PROCARD service line.

What You Get:

- Get listed on our contractor finder
- **Concierge PROCARD service**
- **Cash rebates based on installations**
- **Free Noritz Merch**
- **Seasonal promo codes for Noritz Parts**

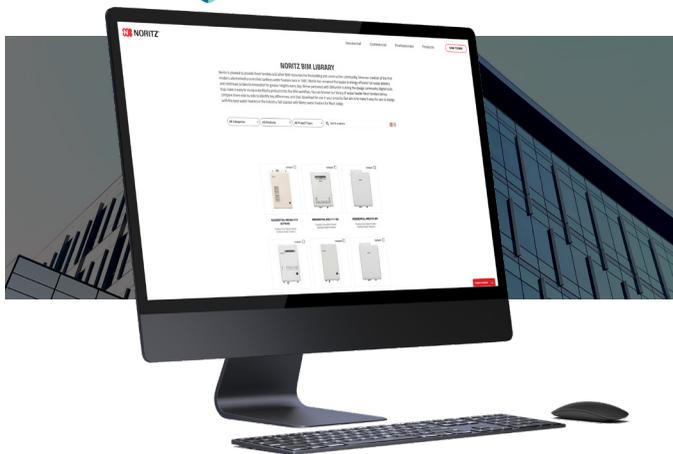
Install 25 Noritz Tankless To Qualify For...

PROCARD VIP

Our highest level of benefits for only our best contractors. The **PROCARD VIP** level provides all previous benefits plus a dedicated tech help line offering the fastest support over the phone, as well as more to increase leads and sales for your business.

What You Get:

- Get listed on our contractor finder
- Cash rebates based on installations
- Free Noritz Merch
- Concierge PROCARD service
- Seasonal promo codes for Noritz Parts
- **FREE Service Part Kit**
- **Dedicated tech assistance phone line**
- **Special VIP annual member gift**



Our Noritz BIM Library is 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



Visit our support site at support.noritz.com

Support Site and Parts Ordering

Get Certified Parts For Any Noritz Repair. Period.

Our newly redesigned support page is your go-to source for all technical specs and support documents for all Noritz tankless water heaters.

One of the biggest updates we're excited to share is 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!



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.



Parts 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.

