

Commercial Guide

Commercial Water Heating Systems





One Line. Any Application.

Engineered to meet the demands of today's commercial environments, the Noritz Commercial One line delivers powerful, consistent hot water performance with exceptional installation flexibility. Built for efficiency, durability, and long-term reliability, it's the dependable solution businesses trust most when performance matters.

Noritz offers several different types of commercial rack assemblies to meet the hot-water needs of a variety of commercial applications:



• Total Tankless Solutions

The highly customizable TTS Synergy Series helps system designers and installers accelerate the replacement of large, centralized domestic water-heating systems.

• CR61 Rack

This pre-fabricated, multi-unit racking system is designed for installation on a flat rooftop or in a mechanical room of large commercial facilities.

• Commercial Manifold & Rack Kits

Wall-hung CMK Manifold Kits and floor-mounted CRK Rack Kits are flat-packed for jobsite shipment in easy-to-carry boxes and engineered to streamline commercial water heating system installation.

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. The ability to modulate between multiple units using 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

Most commercial buildings still heat water the way they did fifty years ago: fire a large burner, store the result, and hope the reserve outlasts the morning. It works until the tank runs out, until the boiler fails, or until the fuel bill for keeping several hundred gallons hot overnight stops making sense. A Noritz commercial system heats water when it's called for and not before, in a footprint that fits where the old equipment couldn't. Here's the side-by-side:

High Capacity Tankless vs. Boiler



Feature	Noritz Commercial System	Boiler with Storage Systems
Heat Loss	✔ Zero standby heat loss.	Foam insulation on boiler room components.
Installation Footprint	✔ Indoor or outdoor. Wall hung or rack-mounted	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 waste energy.
Redundancy	✔ Multi-system offers redundancy and simplifies service and maintenance with no downtime. 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)	382 lbs.
Redundancy	✔ Continuous operation after failure	No reserve; Failure results in total hot water loss until replaced.
BTUs	✔ Up to 399,800	100,000

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	NC199OD
GQ Reference Number	GQ-C5032WZ US	GQ-C5032WZ-FF US	GQ-C3261WZ-FF-1 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"	26.1" x 18.1" x 11.8"	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.		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	
Thermal Efficiency% / UEF	97%		0.98 UEF	NG: 80% LP: 81%	0.82 UEF	
Max. Hot Water Capacity	35 °F Rise: 13.2 GPM		30 °F Rise: 11.1 GPM	35 °F Rise: 13.2 GPM	30 °F Rise: 9.8 GPM	
Water Inlet	1"		3/4"	1"	3/4"	
Hot Water Outlet	1"		3/4"	1"	3/4"	
Gas Inlet (1/2 in. capable)	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	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	120, 130, 140, 185°F		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		Digital Control Panel	Yes		
Min/Max Flow rate	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.		
Wi-Fi Compatible	Yes					
Common Vent Capable	No		Up to 12 Units	No		
Commercial Energy Star	Yes			No		
PVC	No	Yes		No		
ASME	No***		No	Yes	No	

Approvals

Commercial



*Refer to our warranty terms & conditions for more details.

**Disclaimer: For units with more output than 200,000 BTU/h, please check with your local boiler inspector to verify if ASME is required in your state.

***Only available for installation in the following states: California, Minnesota, and Oklahoma. Also available for installation in Canada. Please check your local codes for details.

Engineered to Take On the Toughest Commercial Demands

BEST IN CLASS **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 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)

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

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.



SCAN TO VIEW ALL
CONFIGURATIONS
AND SPEC SHEETS



NCC199CDV PRO

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.



Scan to View Spec
Sheets and More
for the CDV Pro



FEATURES

• New Digital Control Panel

Our upgraded control panel speeds up the initial setup process and provides business owners greater visibility of heater status, maintenance reminders, and more.

• 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.

• 10 Year Warranty - The Best In The Industry

An industry-leading **10 YEAR WARRANTY** comes standard with our CDV Pro model, bringing you peace of mind when it comes to your business's hot water.

• Bluetooth® Connectivity

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

• Greater Common Vent Capability

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

• 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.

• Updated Cover Design

The CDV Pro now has a new flange-less design with snap locks for easier component access.

• Greater Quick Connect Capability

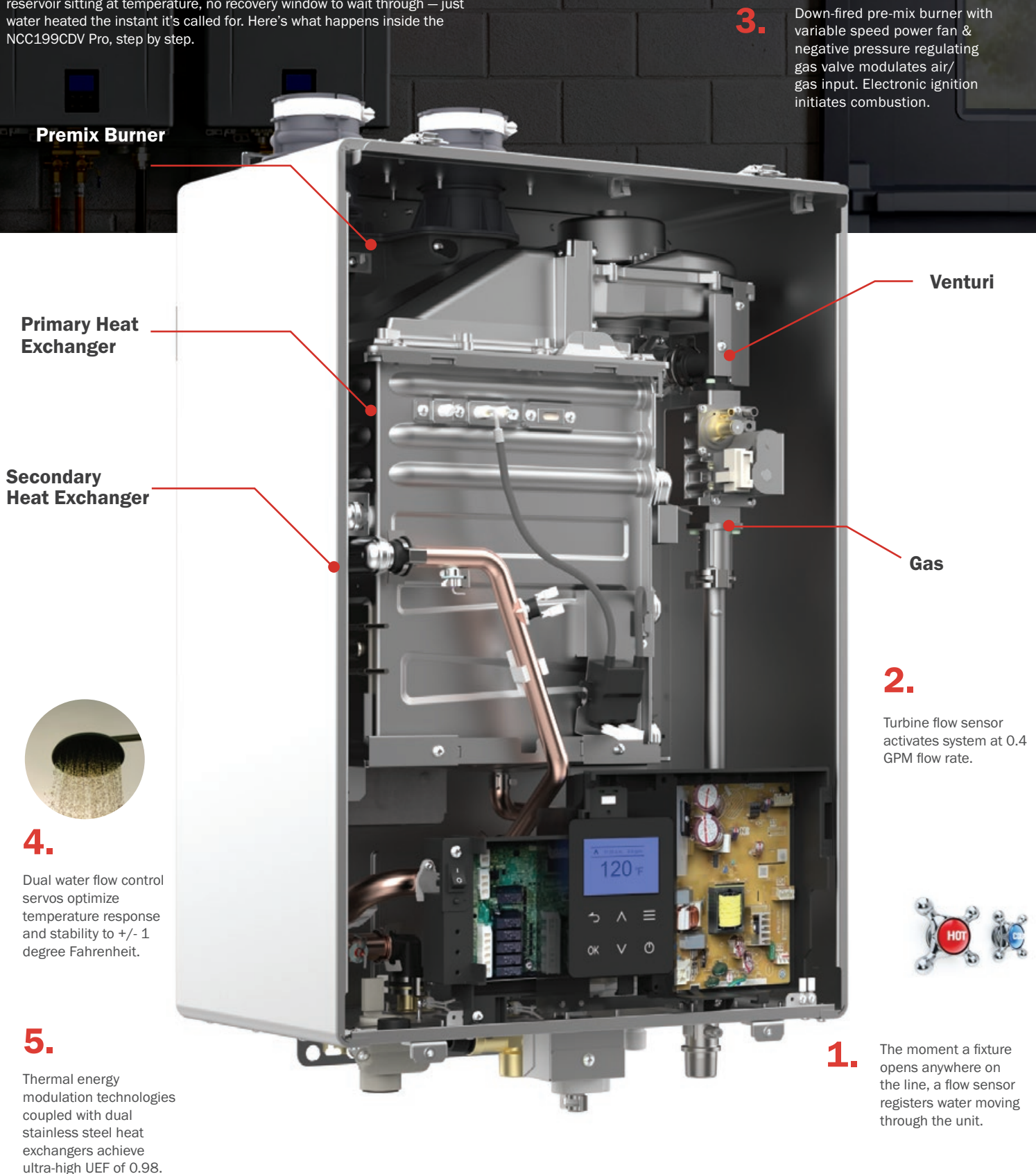
The new CDV Pro can now quick connect with up to 8 units, or up to 24 units using a system controller.

TECHNICAL SPECS

Model Number		NCC199CDV Pro
GQ Reference Number		GQ-C3261WZFF-1 US
Min. / Max. BTU/h		12,800 - 199,900
Min. / Max. Flow Rate		0.4 - 11.1 GPM
UEF		0.98 UEF
Max. Hot Water Capacity		30° Rise: 11.1 GPM
Dimensions		18.1" (w) x 26.1" (h) x 11.8" (d)
Weight		62 pounds
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
Temperature Settings	° F Mode	100-150 °F (In 5 °F intervals), 160°F, 170°F, 185°F
	° C Mode	37-48 °C (In 1 °C intervals) 50-85 °C (In 5 °C intervals) (20 Options)
Freeze Protection		Indoor: -30°F / Outdoor: -4 °F
Warranty		10-year heat exchanger warranty / 5-year warranty on parts / 1-year reasonable labor
Bluetooth® Compatible		Yes
Installation		Indoor / Outdoor (with <u>VC-6-1</u> vent cap)

Inside the NCC199CDV Pro

Understanding how a tankless water heater works is often the deciding factor for businesses weighing the switch from a storage tank. There's no reservoir sitting at temperature, no recovery window to wait through — just water heated the instant it's called for. Here's what happens inside the NCC199CDV Pro, step by step.





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.

FEATURES

• Powered by our Upgraded NCC199CDV Pro

Designed for peak performance, all TTS Synergy systems are engineered to work with our upgraded NCC199CDV Pro, which now comes with a modern control panel, exceptional energy efficiency, and a 10-year warranty.

• 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.

• 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.

• 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.

TTS-SWH Series

Item 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

Item 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

Item 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

TTS-SWH2



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

TTS-SWH3



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

TTS-SWH4



Model Number: **TTS-SWH4**
Max BTU/h: **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 (GQ61-1) Tankless Water Heaters with System Controller
- 1 1/2" Water & Gas Manifolds
- 3/4" 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/h



TTS-S4MINI
Up to 799,600 BTU/h

Scan to view spec sheets and more for S Series



Tankless With Storage

TWST SERIES

TTS-TWST2, TTS-TWST3, TTS-TWST4, TTS-TWST5, TTS-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 (GQ61-1) Tankless Water Heaters with System Controller
- 120 Gallon Storage Tank Included
- 1 1/2" Water & Gas Manifolds
- 3/4" 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





CR
Commercial Rack System



Scan to View
Spec Sheets For The
CR61 System

TRUE COMMERCIAL TANKLESS

Commercial Rack System (CR)

The Noritz CR Commercial Rack System (formerly CWSH) 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.

Also Available

CA Commercial System Update

The 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.



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 12 units on a single manifold without the need for external accessories.

Additional Installation Options and Accessories



Part #
CR60-WK

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.



Part #
WH-3

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.

DIMENSIONS

Model Number	Rack Type	UPC	Included Main Components		Cold / Hot Water & Gas Manifold				Rack Dimensions			Total Weight (lbs)
			GQ-C3261WZ-FF-1 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/h 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

QUICK COMMERCIAL MANIFOLD & RACK KITS

CMK/CRK™

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.



Paired with Our Powerful NCC199CDV Pro Commercial Tankless

Every CMK and CRK system is engineered to work with our latest NCC199CDV Pro model*. The new NCC199CDV Pro now gives business owners even greater visibility and control of our award-winning commercial tankless. The new full function display allows for a faster initial setup, which minimizes downtime while also providing heater status, temperature controls, and more.

*NCC199CDV Pro tankless units sold separately



NORITZ
NCC199CDV
PRO

Wall Mounted

Side to Side Systems*



*NCC199CDV Pro tankless units sold separately

Available Configurations

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*



*NCC199CDV Pro tankless units sold separately

CMK-BB2

2 Units, Back to Back



CMK-BB2

+

CRK-BASE



CMK-BB4

4 Units, Back to Back



CMK-BB4

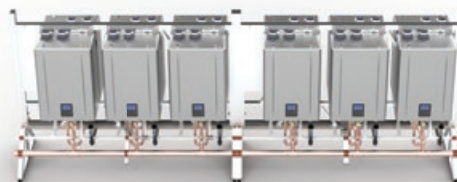
+

CRK-BASE



Both systems fully configurable up to 24 units**

Our CMK/CRK systems can expand up to 24 total units to tackle the most demanding water needs for any business.



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)



8 Units
Side to Side
Wall Hanging System

Required Components:
2 x CMK-SS4
8 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 (SC-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.

› System Fits Into One Convenient Box

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.

CMK-SS Wall mounted, 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



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



HYBRID HOT S E R I E S

BY NORITZ®

Introducing the First Tankless and Tank Combo From Noritz — Now Featuring Our Upgraded 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.

TECHNICAL SPECS

Product Number		NHH199100-2
Installation Location		Indoor
Appliance Type		NCC199CDV Pro (GQ-C3261WZ-FF-1 US) Tankless Water Heater paired with Insulated Storage Tank, Pump, and Controller
Weight		536 lbs (Product Weight) 642 lbs (Shipping Weight)
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"
Power Supply		120 VAC (60Hz)
Tank Capacity		119 Gallons (Cement Lined)
Min. / Max. BTUh		12,800 - 199,900 BTUh
Water Temperature Setting		100 - 185°F (37 - 85° C)

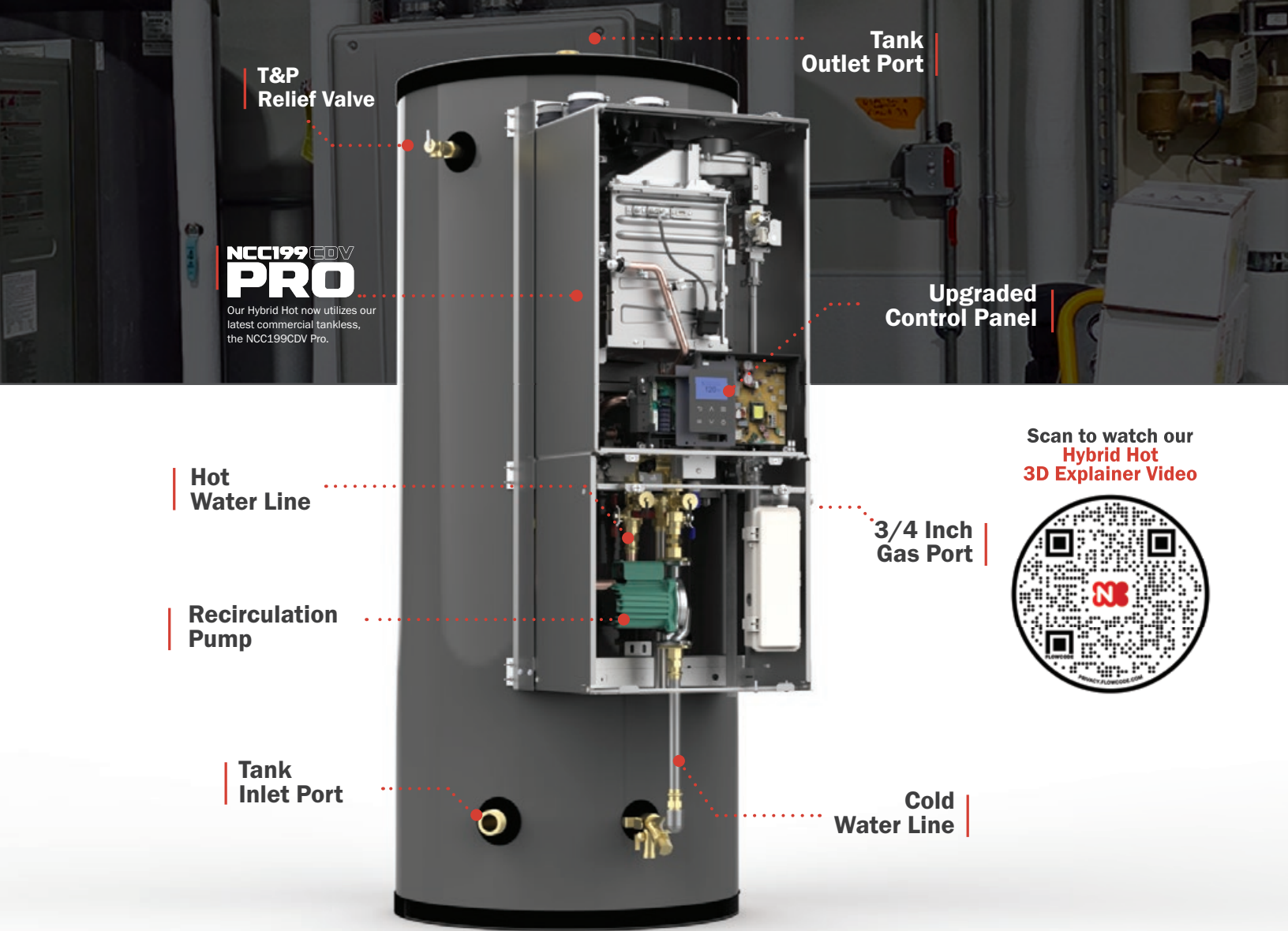


UPGRADED WITH THE NEW
NCC199CDV
PRO

PERFORMANCE

Approved Gas Types	Natural Gas or Propane
Efficiency	0.98 UEF (For NCC199CDV Pro tankless only)
	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



**NCC199CDV
PRO**

Our Hybrid Hot now utilizes our latest commercial tankless, the NCC199CDV Pro.

Scan to watch our
**Hybrid Hot
3D Explainer Video**



FEATURES & BENEFITS



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

RECOVERY CAPACITY

Product Number	Approx. Tank Capacity	Max Input (BTU/h)	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
NHH199100-2	119 Gal	199,900	780	585	468	390	334	292	260	234	213	195	180	167

Project Profile

Del Sol Foods



- › **Tankless:**
Hybrid Hot
- › **Number Of Units:**
Three (3) Hybrid Hot Systems
- › **Location:**
Brenham, Texas



“I know Noritz has a good reputation. When Tipton showed that the hybrid system would meet the customer’s hot-water needs, I was more than happy to switch from the original specification. We were able to come in under budget and help our customer recoup the cost faster while also enjoying a longer product warranty.”

Joel W. Eggebrecht
Project Manager/Estimator
Moeller Plumbing & Electrical



Challenge

Del Sol Food Company has spent 44 years building a reputation as the maker of BRIANNAS brand salad dressings. When the company recently acquired the bakery operations of John Macy's — relocating production from Elmwood Park, New Jersey, to a 31,248-square-foot facility in Brenham, Texas — its hot-water needs grew right along with it.

Once each day, after production shuts down, the plant runs a washdown to sanitize its equipment. The process alone consumes well over 1,000 gallons of 140°F water — a substantial share of the facility's total daily usage, including restrooms and other service areas — and it all has to happen inside a four-hour window.

The original engineering specification called for a single 199,900 BTU/h commercial water heater with 100 gallons of built-in storage to handle that dump load. But Del Sol's management wondered whether a more efficient option could still fulfill the spec.



Solution

Working with Beau Jolly of the Tipton Company, Noritz's manufacturer's representative for Texas, Oklahoma, Arkansas, and New Mexico, Moeller Plumbing & Electrical proposed swapping the original design for three Noritz Hybrid Hot systems (NHH199100). Each unit pairs an NCC199CDV commercial condensing tankless water heater with a 119-gallon, cement-lined storage tank: the tankless unit draws cold water from a side port on the tank, heats it to the set point, and a built-in stainless-steel circulator pumps it back into the tank's top port, with a thermostat calling for heat whenever tank temperature drops.

Each unit delivers up to 11.1 gallons per minute and 317 gallons per hour at 98% thermal efficiency (0.96 UEF) — about two points higher than the original specification. "When you're heating more than 1,000 gallons of water daily, the extra points really help lower everyday operating costs," says Joel Eggebrecht, project manager/estimator for Moeller Plumbing & Electrical.

The switch also downsized the gas piping from 2-inch and 1½-inch black iron to a 1¼-inch main line with ¾-inch heater runs, saving on material and labor, while the Hybrid Hot's 10-year warranty on heat exchangers and cement-lined tanks improved on the original spec's coverage. Unlike the originally specified product, which required factory lead time, the Noritz systems were available locally, keeping the construction schedule on track.

Each unit is direct-vented through a nearby exterior wall with two-inch CPVC pipe. A two-man crew from Moeller — Plumbing Foreman Armando Peralez and Lead Plumber Patric Boykin — installed all three systems. "There wasn't anything difficult about installing the three systems," Eggebrecht says. "It just took a little patience, accomplishing it one piece at a time, while waiting on other trades."



Outcome

Once the three Hybrid Hot systems were online, the crew found that simultaneous use of three or four washdown hoses — combined with the pressure drop from the facility's four-inch backflow-prevention valve — was pulling water pressure below the roughly 60 psi needed for effective cleaning. Installing a booster pump near the mixing hose stations solved the problem and kept pressure consistent no matter how many hoses ran at once.

With that fix in place, the system has performed to specification and, in Eggebrecht's words, "to Del Sol management's complete satisfaction." The three units now supply the facility's entire hot-water demand, from restroom fixtures to the daily equipment washdown.

Jolly notes that a tankless-only approach would have needed nine to 12 banked units to match the Hybrid Hot's output — a setup that "probably would not have fit into Del Sol's single mechanical room," along with more complex installation, more frequent maintenance flushing, and additional pressure-drop issues.

For Eggebrecht, the switch reinforced Noritz's reputation. "I know Noritz has a good reputation," he says. "When Tipton showed that the hybrid system would meet the customer's hot-water needs, I was more than happy to switch from the original specification. We were able to come in under budget and help our customer recoup the cost faster while also enjoying a longer product warranty."

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 that 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.

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."



"Even if their usage continues to rise, adding two

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.

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.

Multisystem Control

Superior commercial unit linking made easy

Number of Units	2	2-8 (GQ61-1 Models)	6	12	24
Accessory	QC-2	QC-2	SC-401-6M	SCU-401-12M	SCU-401-24M

Additional Accessories



QC-2

Quick Connect Cord

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

New for GQ61-1

Connect up to 8 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

Pre-fabricated racks can support up to 2 units back to back.

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.
Wi-Fi Capable	Provides visibility of heater status when paired with our new Commercial Wi-Fi Adapter (NWCC-ADAPTER).

Authentic Noritz Parts Online 24/7



Support Site and Parts Ordering

Shop parts 24/7 at support.noritz.com

Our support site 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.



Parts Search Tool

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



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.



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.

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.



Register today at
procard.noritz.com

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 contractor 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 12 or more 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**



Drop Noritz Into Your Next Project

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

Let Us Help You Find the Perfect System for your Business



› Get Your 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:

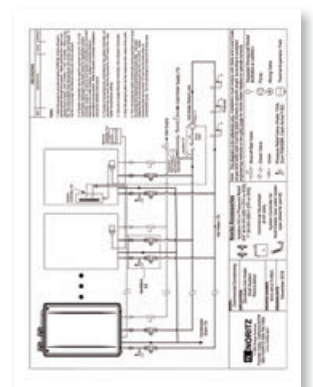
Commercial@Noritz.com



Sizing



Recommendation Spec Sheets



Plumbing Diagrams

› 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



11160 Grace Avenue
Fountain Valley, CA 92708

Phone:

1-866-766-7489

Fax:

(714) 241-1514

Tech Support Hours:

Monday - Friday
5am - 5pm PT

Saturday
6am - 3pm PT

Follow us on social media

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