

Project Name	Prepared By		
Project #	Rack Model _		
Location	Quantity (Racks)		
Wholesaler			
	Gas Type	☐ NG	☐ LP
Contractor			
Date			
Notes / Comments			

NCC199CDV (GQ-C3260WZ-FF US)

Commercial Condensing Water Heater

Specification Sheet



Accessories

Universal Concentric Vent Kit (#PVC-UCVK)
Low Profile Termination Kit (#PVC-LPT)
PVC Concentric Termination (#PVC-CT)
3" Horizontal Hood Termination (#PVT-HL)
SV Conversion (#SV-CK-2-1)
Birdscreen (#VT-PVCS)
Outdoor Vent Cap (#VC-6-1)
Isolator Valves (#IK-WV-200)
Pipe Cover (#PC-10S)
Commercial Wireless Monitor (#NWCC-ADAPTER)
Quick Connect Cord (#QC-2)
System Controller: 6-Unit (#SC-401-6M)
System Controller: 12-unit (#SCU-401-12M)
System Controller: 24-unit (#SC-401-24M)

Neutralizer for 1-unit (#NC-1S)

Neutralizer for up to 16 unit (#NT-20A)

Heater

Standard Input

18,000-199,900 BTUh / 0.5 - 11.1gpm (NCC199CDV)

Uniform Energy Factor (UEF)

0.96 (NG) / 0.96 (LP)

Compact Design -

ANSI Z21.10.3/CSA 4.3 certified design that can be wall-mounted indoors or installed outdoors using the optional Vent Cap

Heat Exchanger -

Manufactured with high quality stainless steel

Venting Options -

Available in Direct Vent model that can use either 2" or 3" Schedule 40 PVC/CPVC or installed outdoors with Vent Cap.

Common Vent Compatible -

Vent up to 6 units on a single venting system with integrated backflow preventer.

Direct Electronic Ignition

Wifi Capable

Compatible with 1/2" gas pipe -

See installation manual

Multi-System Capability -

Units can be linked together by using either the optional 2-unit Quick Connect or multiunit System Controller for up to 24 units

Fully Modulating -

BTU input range from 18,000 to 4.8 million BTUh (with 24 unit System) with stable combustion provided by gas venturi and pre-mix burner. Each individual unit 11:1 Turndown Ratio

Temperature Controls -

Includes remote thermostat that can precisely adjust the output temperature from 100°F to 185°F

Safety Devices -

Flame Sensor, Overheat Prevention Device, Lightning Protection Device, Freeze Protection. Condensate Overfill

10 Year* Limited Heat Exchanger Warranty for Commecial Use

5 Year Limited Parts Warranty & 1 Year Reasonable Labor

Approvals -

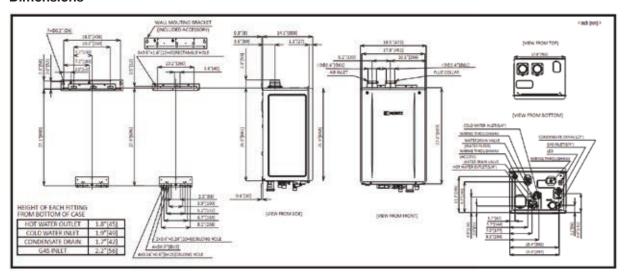
Drinking Water Act

CSA, UPC**, NSF, Low NOx Approved By SCAQMD (Rule 1146.2)



^{*} Refer to the Noritz Limited Warranty for complete coverage details at Noritz.com ** This product complies with California AB 1953 Low Lead Law and section 1417(d) of the Safe

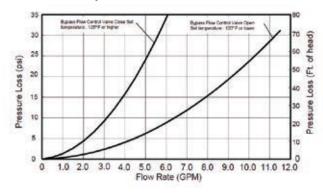
Dimensions



Flow Rate

Temperature Rise (°F)	30	40	45	50	60	70	80	90	100	110	120	130	140
NCC199CDV (GPM)	11.1	9.7	8.7	7.8	6.5	5.5	4.8	4.3	3.9	3.5	3.2	3.0	2.8

Pressure Drop



Specifications

Model Name		NCC199CDV (GQ-C3260WZ-FF US)				
Weight		70 pounds				
Operating Pres	sure	15 - 150 psi				
Gas Supply Pre	essure	NG: 3.5" - 10.5" LP: 8.0" - 14.0"				
Water Holding	Capacity	0.80 Gallon (3.2L)				
	Water Inlet	3/4" NPT				
Connection	Hot Water Outlet	3/4" NPT				
Sizes	Gas Inlet	3/4" NPT				
	Condensate Drain	1/2" NPT				
D	Supply	120VAC (60Hz), less than 4 amperes				
Power	Consumption	NG: 96W LP: 80W Freeze Protection: 114W				
Freeze Protect	ion	Outdoor: -4°F / Indoor: -30°F				
Temperature	°F Mode	100-150°F (In 5 °F in tervals), 160°F , 170°F, 185°F (14 Options)				
Settings °C mode		37-48°C (In 1°C intervals), 50-85°C (In 5°C intervals) (20 Options)				
Matariala	Front Cover	Hot-dipped zinc-aluminum-magnesium-alloy-coated steel w/ polyester coating				
Materials	Casing	Zincified Steel Plate / Polyester Coating				



CR60 Commercial Rack System

The Noritz Commercial Water Heating System (CR60-CA) is a pre-fabricated racking solution that can be used in flat rooftop, mechanical room, or outdoor applications. For the wall mounted configurations, Commercial Water Heating Systems are available in 2 or 3 Noritz tankless water heater configurations. The floor standing Commercial Water Heating Systems are available with 4, 5 or 6 unit Noritz tankless water heater configurations. For outdoor installation, vent caps (VC-6-1) must be ordered for each individual unit.

The CR60-CA provides a time and labor saving solution when installing multiple Noritz tankless water heaters.

Features And Benefits

- Indoor or outdoor compatible
- Manufactured with highly corrosion-resistant aluminum that can withstand extreme environments
- Cold and hot water lines as well as gas line are 2". Connect multiple racks together for easy scalability
- System controller (SC-401-6M) included and installed for controlling 6 units
- Remote controller display panel included for adjusting temperatures and monitoring system operation
- Condensate manifold included for easy connection and disposal.
- Service isolation valves with 150 PSI pressure relief installed on each unit for easy maintenance.

- Hoist rings provided for easy lifting (floor standing models only)
- Optional floor support (wall hanging models only) included for easy wall installation
- Common vent capable up to 6 units on a single exhaust system without the need for any additional accessories
- Integrated gas sediment traps on each unit
- Fuel gas manifold factory pressure tested at normal (0.5 psi) and high pressure (60 psi)
- Secondary gas shut-off to facilitate gas sediment trap servicing and field pressure testing

CR60-FS-3

Commercial Rack System

	Commercial Water Heating System										
Model Number	Rack Type	Configuration	Illustration								
CR60-FS-3-NG	3 Unit DV Floor Standing, NG	3	100								
CR60-FS-3-LP	3 Unit DV Floor Standing, LP	2 1	- gray								



System Shown

CR60-FS-3



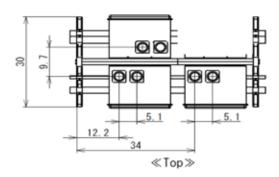
Specifications

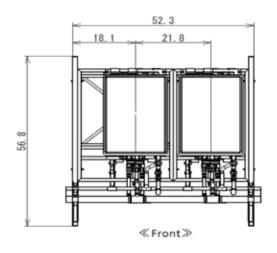
BTU and Flow Rates for NCC199CDV (GQ-C3260WZ-FF-US)									
Number of Tankless Water Heaters 3									
Max. Hot Water Capacity @ 30°F Rise (GPM)	33.3								
Max. Hot Water Capacity @ 70° Rise (GPM)	16.8								
Minimum (Btuh)	18,000								
Maximum (Btuh)	599,700								

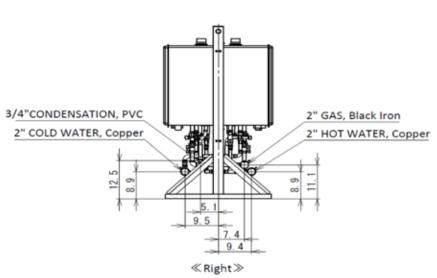
Model and Rack Specifications								
Model Number	CR60-FS-3							
Tankless Water Heater Model	NCC199CDV							
Frame Dimensions (in.)	52.25 (L) x 30.0 (D) x 56.75 (H)							
Weight - Fully Assembled (lbs.)	386							
Shipping Weight - Fully Assembled (lbs.)	616							
Frame Material	Aluminum							
Frame Color	Aluminum							
Water & Gas Pipe Connec	tions							
Hot Water Manifold Pipe Material	Copper							
Cold Water Manifold Pipe Material	Copper							
Gas Manifold Pipe Material	Black Iron							
Condensate Drain Manifold Pipe Material	Schedule 40 PVC							
Hot Water Manifold Pipe Diameter (in.)	2"							
Cold Water Manifold Pipe Diameter (in.)	2"							
Gas Manifold Pipe Diameter (in.)	2"							
Condensate Drain Manifold Pipe Diameter (in.)	3/4"							
Electrical Requirement	ds							
Voltage	120VAC (60hz)							
Maximum Current (Amps)	16							

	Tankless With Storage Hot Water Supply Capacity											
				Tank Recovery		Recovery (GPH) @ Temperature Rise (Deg F)						
Model	Qty Heaters	Max Input (BTU / HR)	Circul	ator Size	UEF/TE	000	700	000	000	1000		
			GPM	Pressure Head (Ft.)		60°	70°	80°	90°	100°		
CR60-WH-2-NG	_											
CR60-WH-2-LP	2	399,800	12	21	96% / 98%	784	672	588	522	470		
CR60-WH-3-NG	_											
CR60-WH-3-LP	3	599,700	599,700	18	21	96% / 98%	1,175	1,007	882	784	705	
CR60-FS-3-NG	_											
CR60-FS-3-LP	3	599,700	18	21	96% / 98%	1,175	1,007	882	784	705		
CR60-FS-4-NG												
CR60-FS-4-LP	4	799,600	24	21	96% / 98%	1,567	1,343	1,175	1,045	940		
CR60-FS-5-NG	_											
CR60-FS-5-LP	5	5 999,500	30	21	96% / 98%	1,959	1,679	1,469	1,306	1,175		
CR60-FS-6-NG												
CR60-FS-6-LP	6	1,199,400	36	21	96% / 98%	2,351	2,015	1,763	1,567	1,410		

	Tankless Without Storage Hot Water Supply Capacity												
Model	Qty	Max Input											
Model	Heaters	(BTU/Hr)	02.7.2	60°	70°	80°	90°	100°					
CR60-WH-2-NG		000 000	000/ /000/	13.1	11.2	9.8	8.7	7.8					
CR60-WH-2-LP	2	399,800	96% / 98%	13.1	11.2	9.8	8.7	7.8					
CR60-WH-3-NG	_												
CR60-WH-3-LP	3	599,700	96% / 98%	19.6	16.8	14.7	13.1	11.8					
CR60-FS-3-NG													
CR60-FS-3-LP	3	599,700	96% / 98%	19.6	16.8	14.7	13.1	11.8					
CR60-FS-4-NG	,	700.000		00.4	00.4	40.0	47.4	45.7					
CR60-FS-4-LP	4	799,600	96% / 98%	26.1	22.4	19.6	17.4	15.7					
CR60-FS-5-NG	_	000 500		00.7		24.5		10.0					
CR60-FS-5-LP	5	999,500	96% / 98%	32.7	28	24.5	21.8	19.6					
CR60-FS-6-NG		4 400 400		20.0		00.4		00.5					
CR60-FS-6-LP	6	1,199,400	96% / 98%	39.2	33.6	29.4	26.1	23.5					





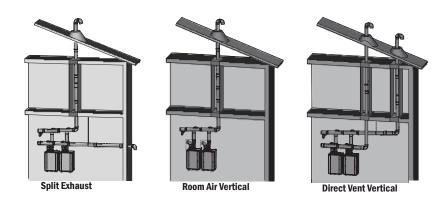


*All units are in inches

Common Venting

Ultimate Flexibility For Vent Configuration

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



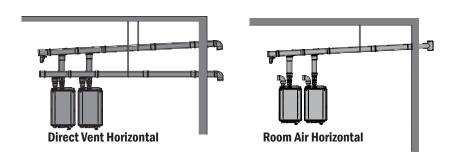


Table 1: Vent Diameter and Maximum Equivalent Vent Length

				Vent Diar	neter (in.) a	and Maximu	ım Equivale	ent Vent Le	ngth (feet)	
Model	Configuration	Number Of Units	PVC	or CPVC S	Schedule 40) Pipe		PP	Vent	
		Units	3"	4"	6"	8"	3"	4"	6"	8"
	Both Direct Vent (DV) and Non-Direct Vent (SV)	2	18°	95 ⁻	2	200	18°	110°	2	200
		3	N/A	39.	155°	200	N/A		155°	200
NCC199CDV (GQ-C3260WZ-FF US)		4	N/A	N/A	90˚	200	N/A	N/A	90°	200
(**************************************		5	N/A	N/A	50 ⁻	150 ⁻	N/A	N/A	50°	150°
		6	N/A	N/A	35 ⁻	130°	N/A	N/A	35°	130°

'The BTU/h input of the unit will be reduced by up to 9%

Note: The sizing method shown in Table 1 is provided for the convenience of the installer. Maximum acceptable vent system static pressure drop is 0.6" W.C.

Table 2: Equivalent Length of Each Elbow

	Equivalent Length of Each Elbow (feet)							
Diameter of Elbow	3" 4" 6" 8"							
Length	5	12	18	20				

COMMON VENTING SIN NORITZ

Multi-Unit System Controller

- Each CR60 includes a pre-installed system controller (SC-401-6M).
- Each CR60 includes a pre-wired remote controller (RC-9018). Remote can be extended up to 300'
- User selectable temperature from 100-185°F





Basic Operation

The SC-401-6M system controller is used to combine 1-6 Noritz commercial heaters into a single "multi-unit system". The system controller stages units on and off based on hot water demand and rotates their operation to ensure even usage. It also has two additional modes which optimize the system for operation with a recirculation line or storage tank.

Unit Staging

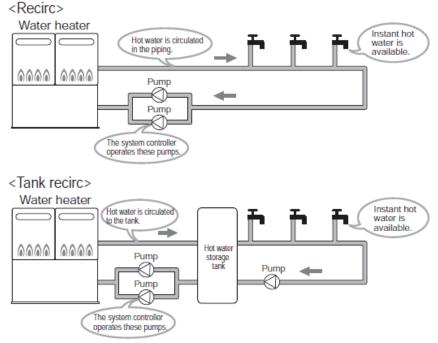
Staging allows the multi-unit system to track hot water demand from the minimum flow rate of a single unit up to the maximum output of several units. When the primary firing heater reaches approximately 50% of its maximum output, the system controller activates the next unit in the system. When both these units reach approximately 50% of their maximum output, a third unit is activated and so on. The SC-401-6M may also be configured to activate two heaters during primary firing to allow for rapid initial hot water demand.

Unit Rotation

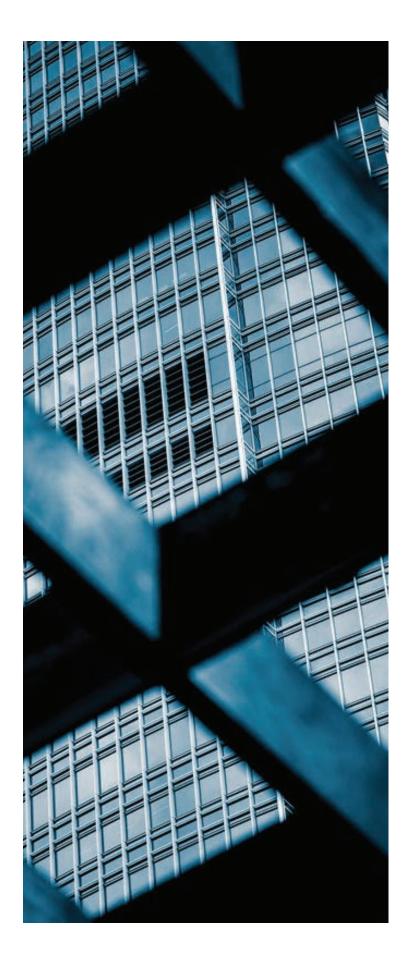
The SC-401-6M system controller rotates operation of the primary firing heater every 8 hours of combustion time or up to 24 hours of plug-in time. This helps to ensure even usage of all units.

Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6
1st	2nd	3rd	4th	5th	6th
					 Rotation
6th	1st	2nd	3rd	4th	5th
					 Rotation
5th	6th	1st	2nd	3rd	4th
					 Rotation
4th	5th	6th	1st	2nd	3rd

The SC-401-6M allows the user to select two additional system types: "Recirc" and "Tank Recirc". These settings optimize performance with recirculation and storage tank systems, and allow the system controller to operate one or two pumps.



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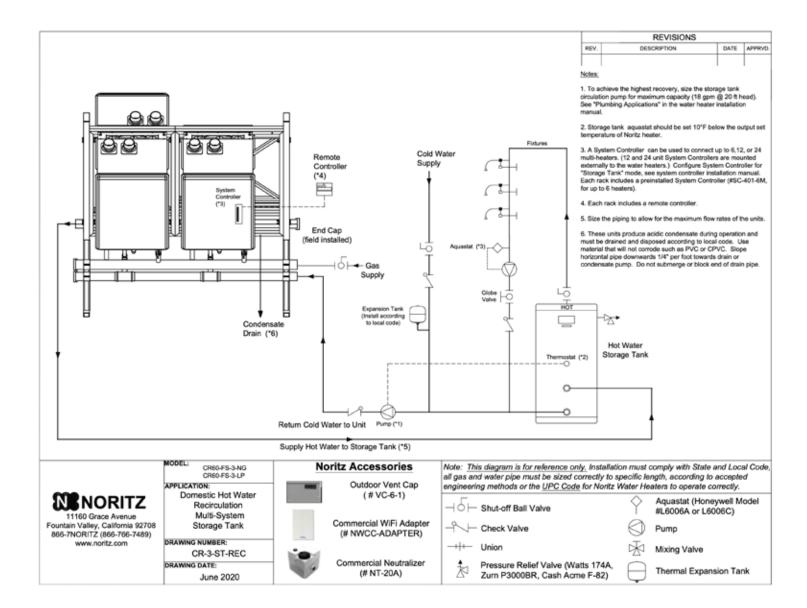


Included Accessories Isolator Valve Kit Lead Free 3/4" threaded iso valve kit with male 500K Btuh Pressure Relief Valve SC-# System Controller SC-401-6M System controller for up to 6 units for the NCC199, NCC300 & NC380 series. **Optional Accessories** Condensate Neutralizer Kit (External) NT20A1 Commercial condensate neutralizer kit for NC199, NCC199CDV, and NCC300 series SC-# System Controller SCU-401-12M-WIFI System controller bundle w/ NWCC adapter and System controller for NCC199CDV and NCC300 (12 units) SCU-401-24M-WIFI System controller bundle w/ NWCC Adapter and System Controller for NCC199CDV (24 units) VC-6-1 Outdoor Vent Cap VC-6-1 Outdoor vent cap for EZ, NRCR, and CDV models. SV-CK-2-1 DV to SV Conversion Kit SV-CK-2-1 2" PVC (EZ / CDV) PVC-#CT PVC Concentric Horizontal Termination Kit PVC-2CT 2" PVC Concentric Termination PVC-3CT 3" PVC Concentric Termination PRC-1 Plastic Rain Cap PRC-1 2" (EZ98, EZ111, NCC199CDV) 3" (For NRC111, NCC199, NRC98, NRC71, NRC66,

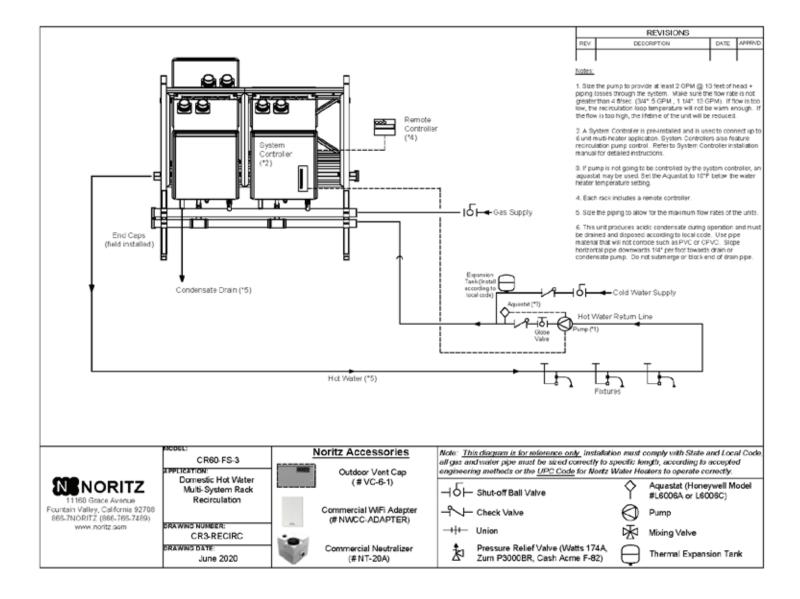
NRCB, & NCC199CDV)

4" (For NRC111, NCC199, NRC98, NCC300)

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Commercial Consultation

Schedule a call with one of our commercial experts

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

Technical Support

Noritz America provides two customer-service initiatives:

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

To speak to one of our Tech Support Professionals:

866-766-7489 (Press 1)

Visit our Technical Support Site at:

Support.Noritz.com



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7am - 4pm PST

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Affiliations









