

TRAINING AGENDA



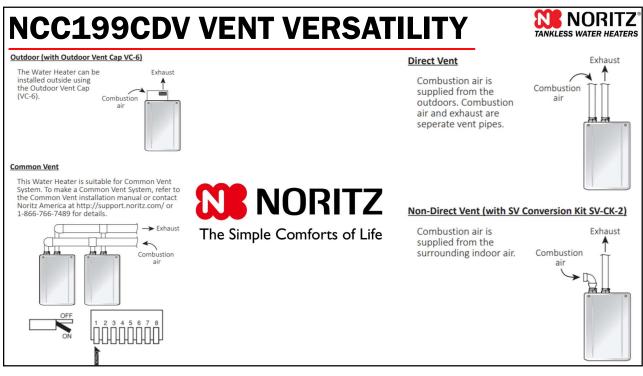
Trusted, Reliable, Unmatched, Efficient,

- NCC199CDV Features, Benefits & Vent Versatility
- Commercial Rack Features & Benefits
- CDV's Vent Design and Install Practices
- Common Vent Install Examples
- Case Studies, Technical Docs & Resources

NORITZ'
TANKLESS WATER HEATERS

TECHNICAL SPECIFICATIONS NCC199CDV Min. / Max. BTU 18K - 199,900 BTUh 0.5 - 11.1 GPM (30°F Rise) **Capacity Range** Weight HEF 0.96 Thermal Efficiency Water Inlet **UPGRADED HEAT** Hot Water Outlet NPT 3/4" Connection Sizes Gas Inlet NPT 3/4 **EXCHANGER** Condensate Drain **Water Holding Capacity** 0.82 Gallon (3.1 L) The right materials for the right situation. The NCC199CDV heat exchanger has been re-engineered 100-150° (In 5° F Intervals) 160° F, 170° F, 185° F (14 Options) °F Mode with a new blend of stainless steel to maximize Temperature performance and reliability. These parts and materials Settings 37-48° C (In 1°C intervals), 50-85°C °C Mode have been specifically selected for their high (In 5° intervals) (20 options) temperature performance and maximum corrosion 15-150 psi resistance, constructed as a single-body unit. **Operating Pressure** nded 50 to 80 psi for ma Along with a 0.96 UEF, the Noritz NCC199CDV NORITZ Remote controller, remote controller cord Commercial Tankless is built ready to provide your **Included Accessories** anchoring screws, wall mounting bracket

business with years of hot water delivery.

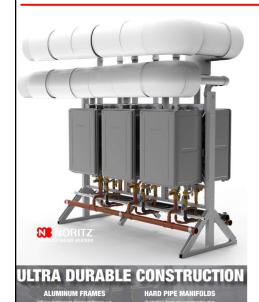


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TANKLESS WATER HEATERS

COMMERCIAL RACK SYSTEM





Upgraded for 2020, the Noritz CR Commercial Rack System (formerly CWHS) has been redesigned for maximum performance and ease of installation. A new low profile design and a variety of installation options make this new rack system ideal for business owners looking to replace outdated storage tanks.

NEW LOW PROFILE DESIGN

Lower profile design makes system less top heavy for safer transportation while also minimizing the rack system's footprint.

NEW WALL MOUNT OPTION

Removable end rail stands for flexible location of rack when faced with existing lines above or below the heaters.

INSTALLATION VERSATILITY

The new CR is designed for both indoor or outdoor applications. (Requires outdoor vent cap, item# VC-6)

REDUCED INSTALL TIME

An added PVC manifold condensate drain cuts installation time for a quicker setup.

NEW MODULAR OPTION

With 2" manifolds for water and gas, our new design allows for expanding hot water demand with multiple commercial hot water systems.



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COMMERCIAL RACK SERIES (CR)

HOT WATER SUPPLY CAPACITY



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

INCLUDES:

- NCC199CDV w/ 0.96 UEF (GQ-C3260WZ-FF US) •
- System Controller (SC-401-6M)
- Remote Control Cord (RC-CORD-10)
- 2" Copper Manifold for Hot & Cold Water
- 2" Black Iron Manifold for Gas
- 3/4" PVC Manifold Condensate Drain
- Aluminum Frames
- · Isolation Valves w/ PRV for Water
- · Gas Shut Offs
- Serial Number Barcode tags
- Individual Heater Number Label



COMMON VENTING

TRUE INSTALLATION FLEXIBILITY

With Noritz Common Venting, up to 6 Noritz Water Heaters are able to share the same venting system. This means significantly reduced penetrations through the wall or roof resulting in less labor and a cleaner finished look. The use of a larger vent diameter system allows for longer vent runs for larger and taller building – up to 200 ft. of equivalent length. The system is independently tested and approved for use by CSA in both the US and Canada. With the new built-in exhaust non-return valve, scalability of up to 6 heaters in possible now without an external non-return valve.

OFFERS A CLEAN, LABOR SAVING INSTALL WHILE ENSURING THE UTMOST IN SAFETY AND PERFORMANCE

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





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NCC199CDV VENT MATERIALS

[Exhaust Vent / Air Intake]

Material	United States	Canada				
Material	Exhaust Air Intake	Exhaust	Air Intake			
Schedule 40 PVC	ANSI/ASTM D1785	ULC S636	CSA B137.3			
PVC-DWV	ANSI/ASTM D2665	Certified Materials	CSA B181.2			
Schedule 40 CPVC	ANSI/ASTM F441	Only	CSA B137.3			
Polypropylene (PP)*	Centrotherm- InnoFlue® (certified ULC S636), DuraVent PolyPro® (certified ULC S636)					
System 1738 [™] PVC Fuel Gas Venting IPEX Management Inc. (certified UL 1738)						

• This is a Category IV appliance.

40/80 CPVC or PP must be used.

- Only vent materials approved for use with Category IV appliances shall be used.
- Under normal conditions, this Water Heater will not produce an exhaust flue temperature in excess of 149°F (65°C) and schedule 40 PVC pipe may be used as the vent material. If the Water Heater set temperature is 160°F (70°C) or higher and there is a return line to the Water Heater from either a recirculation pump or a combination space heating system, schedule

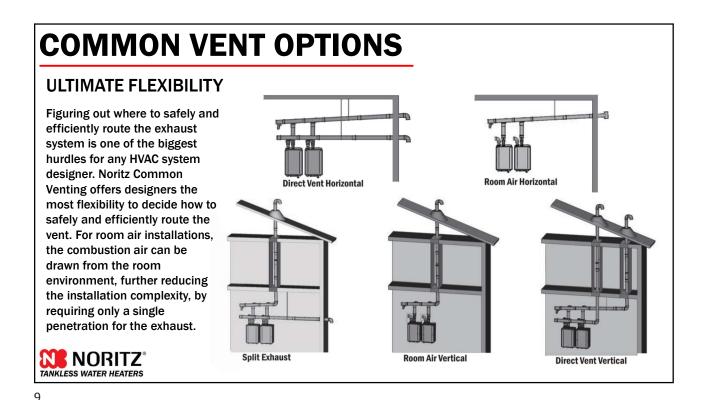
Fill the condensate container by pouring approx. 10 oz. (280 mL) of water into the exhaust flue on the top of the Water Heater as illustrated below.

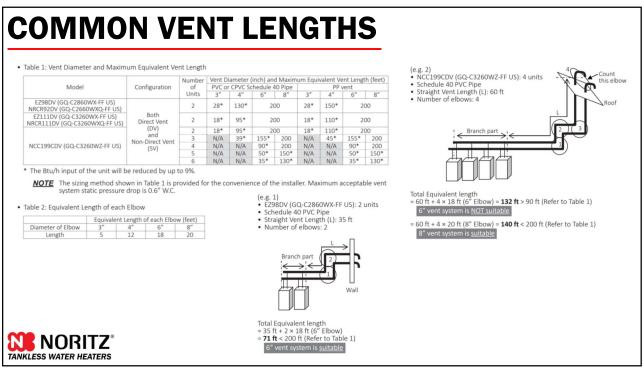


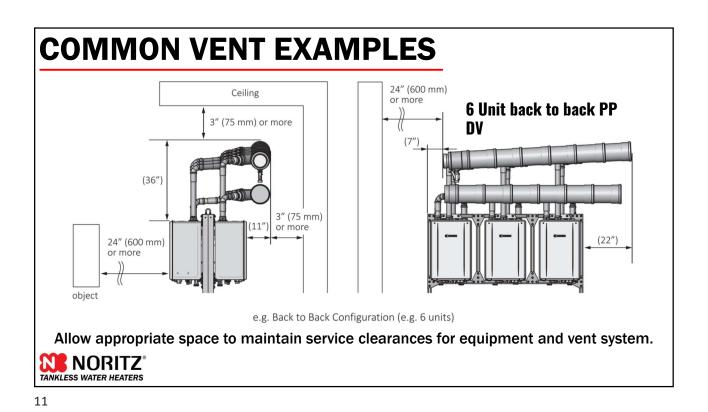
If the vent pipe has already been installed: After installing the condensate drain pipe, make sure that the area around the Water Heater is well ventilated; open a window or a door if necessary. Then, operate the Water Heater and verify that condensate is coming out of the condensate drain pipe.

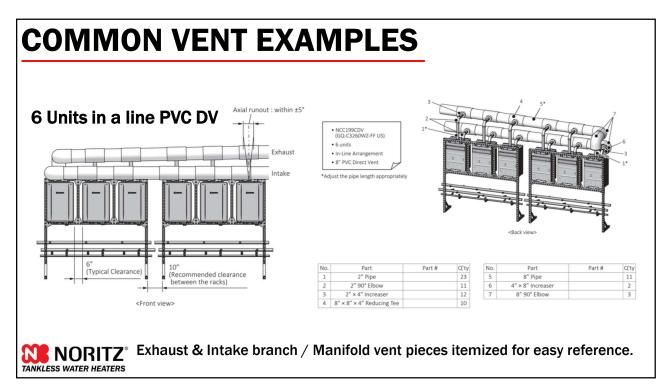
(During normal use of the Water Heater, condensate will begin to discharge from the condensate drain pipe within 15 minutes of use. However, depending on the season and/or installation site conditions, it may take longer.)











INSTALLATION EXAMPLES







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INSTALLATION EXAMPLES







INSTALLATION EXAMPLES

- 1x CR60-FS-6-NG & 1x CR60-FS-4-NG.
- Back to back configuration.
- Intake solid core Schedule 40 PVC. Exhaust Centrotherm Polypropylene.





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COMMERCIAL CONSULTATION

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

Commercial@Noritz.com

Case Studies, Resources, Technical Documents, Sizing Calculator: www.noritz.com/commercial







