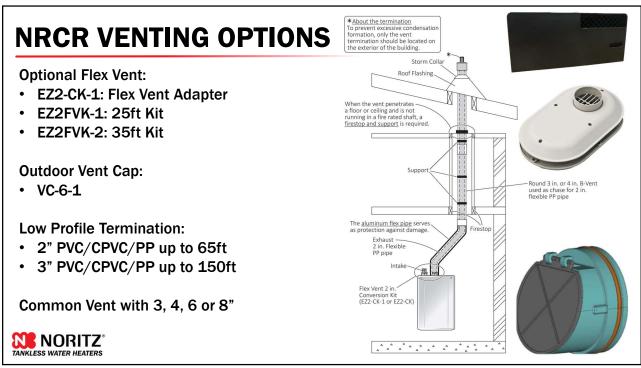


NRCR VENTING OPTIONS SV (CK-SV-2-1) DV (Default) OD (VC-6-1) Flex (EZ2-CK-1)



NRCR Installation for 2 units.

Exhaust

Combustion air

**Search our library of technical documents to find information for your tankless including spec sheets, manuals and more.

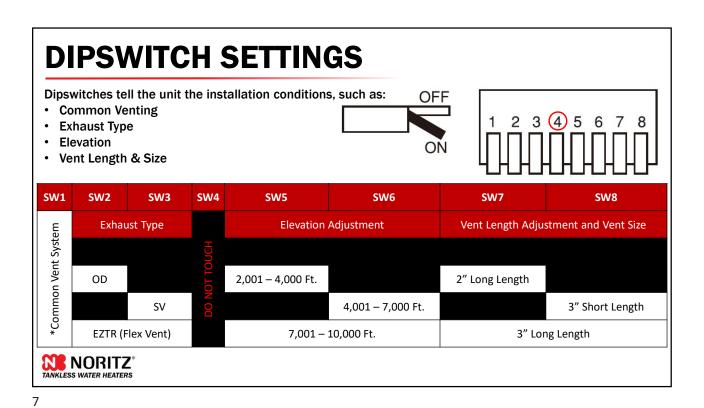
Search by

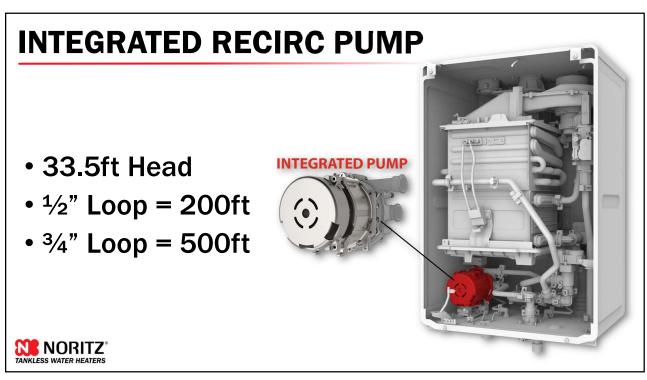
Heater

Common Vent (GQ-60 Series)

**Comm

_

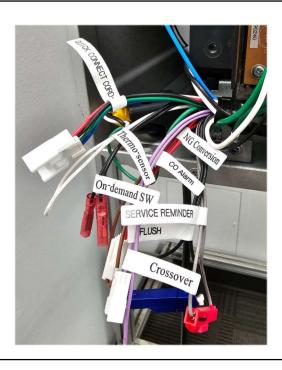




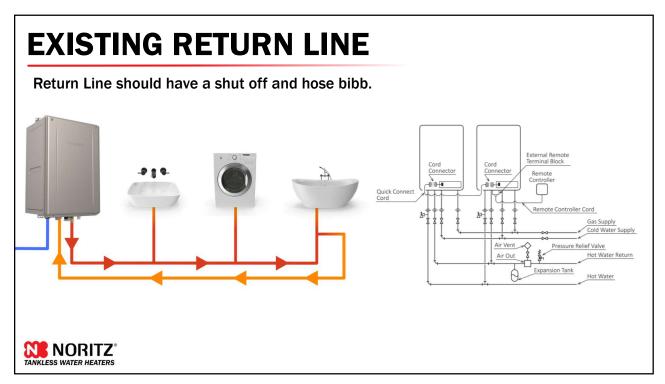
OPTIONAL WIRES

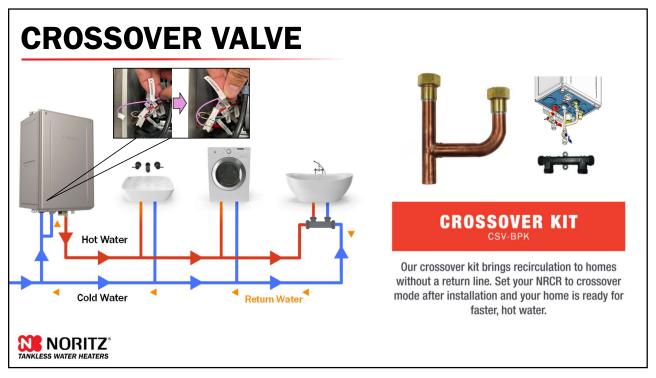
- Quick Connect Cord-2
- Service Reminder
- Flush
- Crossover
- On-Demand SW
- NG Conversion
- Thermo-Sensor
- CO Alarm

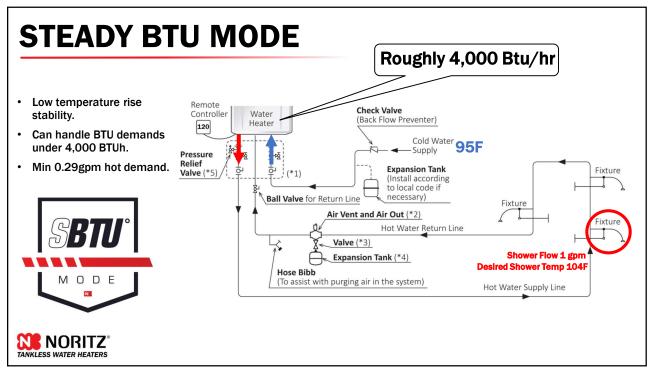




C







SETTING TEMP ABOVE 120

Residential units are limited to 120 by default but they can be bypassed following these steps.





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RECIRCULATION MODES

Refer to page 59 of the Installation manual.

Item #	3B	24	23	22
Auto Recirc (Default)	OFF	OFF	OFF	OFF
On-Demand (Title 24) Mode	ON	OFF	ON	ON
Manual Timer Recirc	OFF	ON	OFF	ON
Recirc Always ON	OFF	OFF	ON	OFF
Recirc Always OFF	OFF	OFF	ON	ON



SETTING RECIRC ALWAYS OFF Power OFF Remote





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RC-9018M Commercial Remote.

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SETTING RECIRC ALWAYS OFF





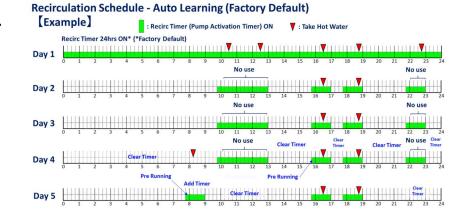
SCAN FOR VIDEO



RC-7651M-A Residential Remote.

AUTO LEARNING MODE

- Recirculation ON for first 24 hours.
- Automatic 3 day learning period.
- Hot water usage more than 10 seconds.
- Pre-heats the loop 15 minutes before.





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CUSTOMIZING RECIRC SETTINGS

- "Time of Learning Flag" determines how long a hot water fixture needs to be used before the NRCR memorizes the use and runs the pump the next day.
- "Interval to Erase Learning Flag" determines how long the NRCR will wait to erase a learned time if hot water is not used during that time.

Time of Learning Flag	Maintenan	ce Writer #	Domonk
Time of Learning Flag	25	26	Remark
3 Seconds	OFF	OFF	Sensitive
0.5 Seconds	ON	OFF	Very Sensitive
10 Seconds	OFF	ON	Default
60 Seconds	ON	ON	Insensitive

Interval to Erase	Maintenance Writer #	Remark	
Learning Flag	27	Kemark	
3 Days	OFF	Default (Eco Setting)	
7 Days	ON	Comfort Setting	



PRE-HEATING FEATURE

 "Pre-Heating Adjustment" determines how long the NRCR will run the pump before a learned time to ensure the loop is heated and ready to be used at the start of the learned hour.

Pre-Heating	Maintenan	ce Writer #	Domonik
Adjustment	38	39	Remark
15 Minutes Before	OFF	OFF	Default
Pre-Heating OFF	ON	OFF	-
30 Minutes Before	OFF	ON	-
60 Minutes before	ON	ON	-



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NRCR SPECIFIC ERROR CODES

- Error Code 06: Low Recirculation Flow (Only Warning Indication)
 - · Check Return Line Filter.
 - Purge air in the domestic hot and return line (Dedicated Mode)
 - Check crossover valve filter (Crossover Mode)
- Error Code 63: Recirculation Abnormality (No Recirculation Flow)
 - · Check Return Line Filter.
 - Purge air in the domestic hot and return line (Dedicated Mode)
 - Check that the "Crossover" connector is connected together
 - Check crossover valve filter (Crossover Mode)



COMMONLY USED MAINTENANCE MONITORS

Maintenance Monitors (MM) tell you exactly what the unit is doing. They should be used in any situation regarding flow rates, temperatures and verifying what Recirculation Mode the unit is set to.

Error Code history is also found in Maintenance Monitor mode.



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мм		Da	ata	Minimum Value for		
MINI	Item	Multiplier	Unit	Indication		
03	Total Plug-in Time	x100	Hour	100 Hours		
04	Total Combustion Time	x1	Hour	1 Hour		
05	Total Combustion Time	x1000	Hour	1000 Hours		
06	Total Pump Operating Time	x100	Hour	100 Hours		
07	Number of Ignition Times	x10	Times	10 Times		
08	Number of Ignition Times	x10000	Times	10000 Times		
14	Total Flow Rate	x0.1	0.1gpm	0.1gpm		
17	Recirculation Flow Rate	x0.1	0.1gpm			
30	Cold Water Thermistor	x1	F (C option)	1 F (0.5 C)		
31	Hot Outlet Thermistor		F (C option)	1 F (0.5 C)		
32	Heat Exchanger Thermistor		F (C option)	1 F (0.5 C)		
86	Recirculation Mode	Dedicated	Crossover			
80	Recirculation Mode	Mode	Mode			
	Auto Recirc (Default)	11	21			
	Manual Timer Recirc	12	22			
	Recirc Always ON	13	23			
	Recirc Always OFF	14	24			
	On-Demand (Title 24) Mode	15	25			
91	Error Code History 1		Most Recent I	Error Code		
92	Error Code History 2		Next Most Recent Error Code			
93	Error Code History 3		Next Most Recent Error Code			
94	Error Code History 4	Next Most Recent Error Code				
95	Error Code History 5	Next Most Recent Error Code				
96	Error Code History 6	Next Most Recent Error Code				
97	Error Code History 7	Next Most Recent Error Code				
98	Error Code History 8	Next Most Recent Error Code				

ENTERING MAINTENANCE MONITOR MODE

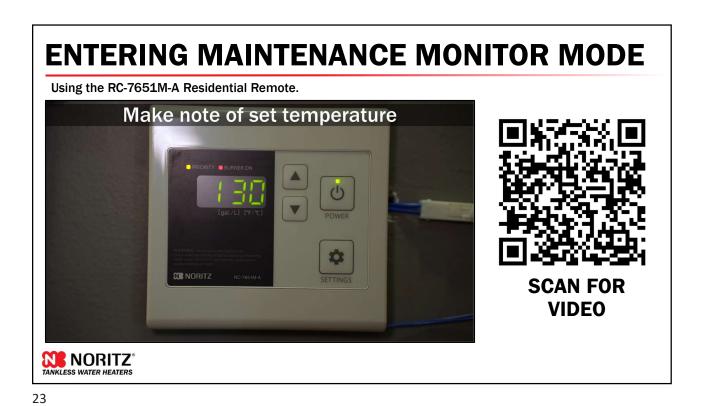
Using the RC-9018M Commercial Remote.





SCAN FOR VIDEO

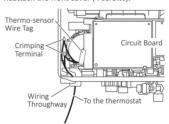


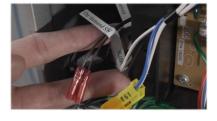




ON-DEMAND (TITLE 24) MODE

- 4. Cut the Thermo-sensor wire (Looped White) in the Water Heater. Cut Thermo-sensor
- Connect to break contact (Normally closed Contact) on the thermostat.
- Reattach the front cover (4 screws).

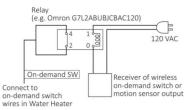




- Prepare a relay when installing wireless on-demand switch or motion sensor. Do not apply any voltage to the On-demand SW terminal. This terminal is only for No-voltage contact. Contact Rating: more than 2.7 mA @ 15 VDC.
- (For Quick Connect Multi-System)
 Connect the on-demand switch to the Water Heater connected with Remote Controller.

<u>Use a relay when connecting wireless switch or motion sensor</u>

- Refer to the step 1-3 of "Connecting the ondemand switch". Choose a suitable installation location for the
- relay where it will be protected from moisture. Connect the on-demand switch wires from the heater to the signal output on the relay.
- Cut one of the electrical supply leads and connect to the signal input on the relay.
- Secure all connections and reattach the front



Inspector Requirement for Sensor



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Relay for On-Demand switch (If needed)

MANUAL SCHEDULE MODE

Clock needs to be set first before a schedule can be created.





SCAN FOR VIDEO



MANUAL SCHEDULE MODE

Once the clock is set, you can set a schedule, modify it or reset it.





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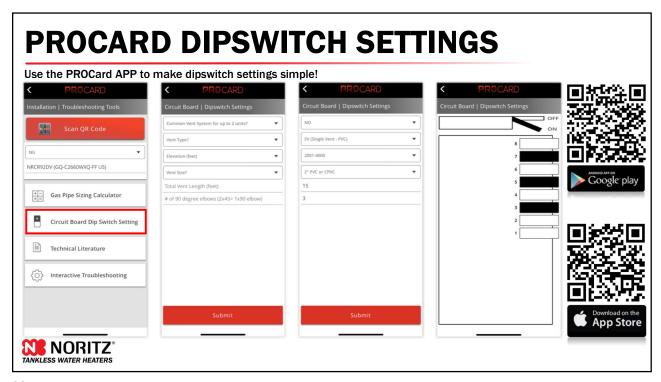
27

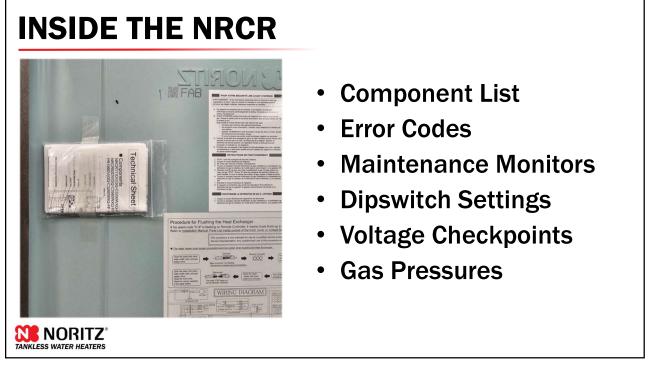
WIFI COMPATIBLE

Similar to the current Noritz
Connect app, you can adjust
the temperature and receive
error code notifications. You will
additionally be able to manually
set the recirculation timer if you
do not want to use the "Auto"
mode.





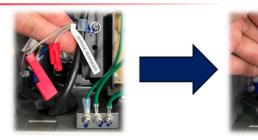




IMPROVED SERVICE REMINDER

Simply plug in the "Service Reminder" connector and the unit will do the rest.

Heater will use the Set Temp, Average BTU Use and Combustion Time to determine when a flush should be performed.



Once the flush has been performed correctly, the service reminder code will go away.

NOTE:

Water quality guidelines in the manual still need to be followed. Damage to the unit when used with water hardness over 12 gpg may not be covered by the warranty.



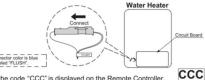


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DESCALING THE NRCR



- 1. Open the Front Cover.
- 2. Connect the blue connector* *** marked "FLUSH" for flushing near the Circuit Board.



- Then the code "CCC" is displayed on the Remote Controller.
- Turn on the circulating pump to circulate the flushing solution through the water heater for 1 hour at a rate of 1.5 gallons per minute or more.
- The code "C60" is displayed on the Remote Controller when the water heater detects the flow of the flushing solution.

When 1 minute passes, the code "C60" will change to "C59" on the Remote Controller.

- C00 - Flashing C60 C59



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FILLING AND PURGING









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IMPORTANT CONTACT INFO

866-7NORITZ (866-766-7489)

- Monday Friday: 5am to 6pm PST
- Saturday: 6am to 3pm PST



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NOTES			
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