



Descale Procedure Group C

This instructional manual is only intended for use by a qualified service professional or authorized Noritz Service Representative. Any unauthorized use of this manual may result in voiding the warranty.

Please contact Noritz Technical Support (866-766-7489) for additional support.

Applicable Models:

- N-042
- N-063
- N-084
- N-132
- N-063S Series
- N-069M Series
- N-084M Series
- N-132M Series
- N-0531S Series
- N-0631S Series
- N-0751M Series
- N-0841MC Series
- N-0842MC Series
- N-0931M Series
- N-1321M ASME
- NR50-OD
- NR66 Series
- NR71 Series
- NR98 Series
- NC199 Series
- NRC111 Series
- NCC199 Series
- NR111 Series
- NC250 Series
- NC380-SV-ASME
- NRC661 Series (Not A)
- NR83-DVC
- NRC83 Series
- NRC98 Series
- NR981 Series
- NC1991 Series
- NRC1111 Series
- NCC1991 Series
- NCC1992-DV

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Damage to the water heater as a result of the items below is not covered by the Noritz America Limited Warranty.

- Water in excess of 12 gpg (200mg/L) of hardness.
- Poor water quality

Note: Water softeners may be regulated by the local water jurisdiction, consult with the manufacturer for code, sizing, and installation guidelines; the below diagram is for reference only. For more information about H2Flow and ScaleShield, contact Noritz America at <http://support.noritz.com/> or 866-766-7489.

Residential Use Treatment Guidelines

Type of Water	Hardness Level	Treatment Device	Flush Frequency*
Soft	0-1 gpg (0-17 mg/L)	None	None
Slightly Hard	1-3 gpg (17-51 mg/L)	None	None
Moderately Hard	3-7 gpg (51-120 mg/L)	H2Flow or ScaleShield	Once a Year**
Hard	7-10 gpg (120-171 mg/L)	H2Flow or ScaleShield	Once a Year**
Very Hard	10-14 gpg (171-239 mg/L)	H2Flow	Treatment Required
Extremely Hard	> 14 gpg (> 239 mg/L)	H2Flow	Treatment Required

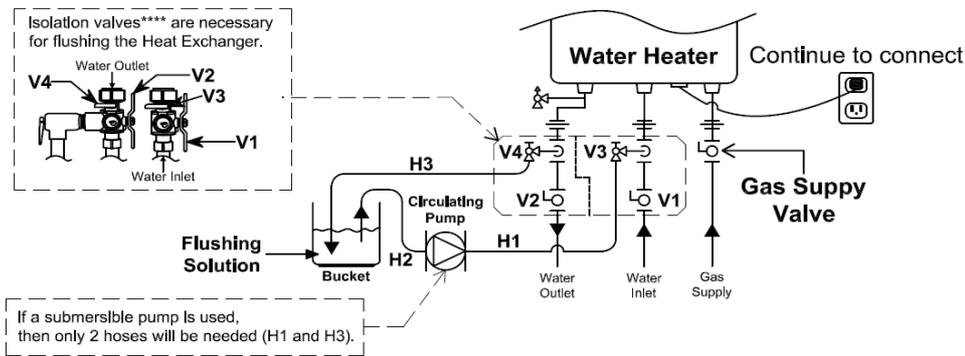
* Install Noritz Isolation Valves to allow for flushing.
 ** Flushing is required if a water treatment device is not installed.

Commercial Use Treatment Guidelines

Type of Water	Hardness Level	Treatment Device	Flush Frequency*
Soft	0-1 gpg (0-17 mg/L)	None	None
Slightly Hard	1-3 gpg (17-51 mg/L)	None	None
Moderately Hard	3-7 gpg (51-120 mg/L)	H2Flow Suggested	Once a Year**
Hard	7-10 gpg (120-171 mg/L)	H2Flow Suggested	Twice a Year**
Very Hard	10-14 gpg (171-239 mg/L)	H2Flow	Treatment Required
Extremely Hard	> 14 gpg (> 239 mg/L)	H2Flow	Treatment Required

* Install Noritz Isolation Valves to allow for flushing.
 ** Flushing is required if a water treatment device is not installed.

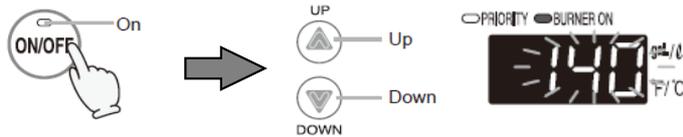
Flushing Procedure C



**** Isolation valves may be purchased as an accessory from an authorized Noritz wholesaler. They allow for full diagnostic testing and easy flushing of the system. Contact Noritz America for more information.(866-766-7489)

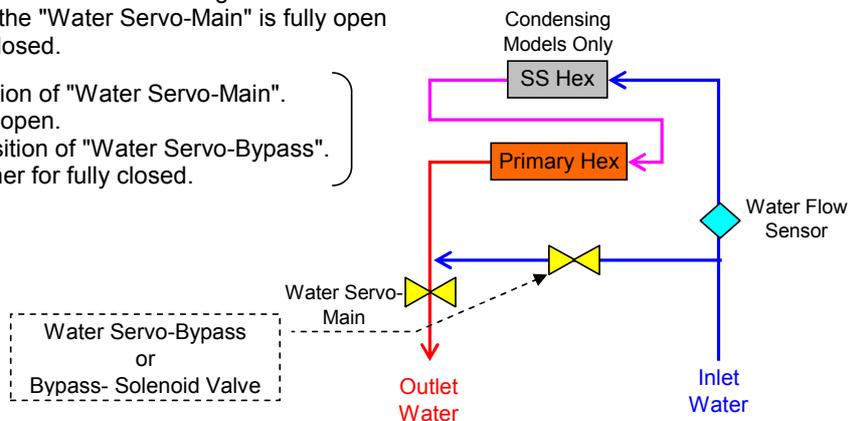
1. Turn the power ON/OFF Button "on" on the remote controller, and then set temperature "140°F" by pressing the UP Button. (It's for closing the "Water Servo-Bypass".)

If your unit is N-132, N-132M, N-1321M or NC380 series, the temperature needs to be set at 145°F by pressing the UP;



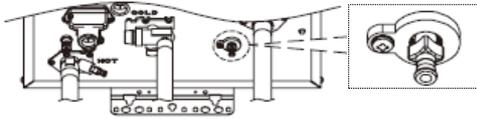
2. Open the "V2 Valve" (run water). And then the unit will begin to operate*.
*Close the "Valve V4 and V3" when the unit is running.
3. Confirm "MM60*" and "MM62**" when the unit is running. Please wait for a few minutes until the "Water Servo-Main" is fully open and the "Water Servo-Bypass" is closed.

*MM60 : This MM# shows the position of "Water Servo-Main". Should be "000" for fully open.
**MM62 : This MM # shows the position of "Water Servo-Bypass". Should be "1275" or higher for fully closed.



4. Unplug the water heater from electrical power, and then close the "Gas Supply Valve, V1 and V2 Valves".
5. Pour 1 gallon of "Calcium, Lime and Rust Removal Product" and 1 gallon water into the bucket.
6. Place both drain hoses (H2 and H3) in the bucket filled with the flushing solution.
7. Open the "V3 Valve" and "V4 Valve" for flushing.
8. Turn the circulating pump to circulate the flushing solution for 1 hour.
9. 1 hour passes, turn off the circulation pump.
10. Remove both drain hoses (H2 and H3) from the bucket
11. Place the drain hose (H3) into the sink or outside to drain.
12. Close the "V3 Valve", and then open the "Water Inlet Valve (V1)". Don't open the "Water Outlet Valve (V2)".

13. Clean the water heater with fresh water for 3 minutes or more to rinse the flushing solution.
 For Condensing units only : Place a bucket under the water heater to drain water from the "Water Drain Valve".
 Carefully unscrew the "Water Drain Valve" to rinse the flushing solution, and then close it.



Water Drain Valve
 (Condensing Units Only)

14. Close the "V4 Valve", and then remove both drain hoses (H1 and H3).
 16. Plug the water heater into electrical power, and the power ON/OFF Button "on" on the remote controller.



17. Open the "Water Outlet Valve (V2)" and "Gas Supply Valve".
 18. Check for the correct operation of the water heater.