



NRCB OVERVIEW

Introduction to the NRCB



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INTRODUCTION

- Specifications
- Key Features
- Installation
 - Mounting Bracket
 - Venting
 - Water Connections
 - Water Treatment
 - Dip Switch Settings
 - Electrical Wiring



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SPECIFICATIONS





Models	NRCB180DV / NRCB199DV
Standard Gas Input	Min: 18k Max: 180k / Min: 18k Max: 199k
Heating Gas Input	Min: 18k Max: 100k / Min: 18k Max: 120k
DHW Flow Range	0.4 – 9.8 GPM / 0.4 – 11.1 GPM
AFUE	95%
DHW Burner Off Flow	0.29 GPM
Heating Temp Range	100F – 180F (As low as 80F with setting)
DHW Temp Range	90F – 140F
Simultaneous Heating & DHW	YES
Max Elevation	10,000 feet
Wifi Compatible	YES
Quick Connect Capable	YES (With same BTU EZ Unit)
Outdoor Temp Sensor	INCLUDED
Warranty	10 Year HEX, 5 Year Parts, 1 Year Labor


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KEY FEATURES



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Simultaneous Operation of DHW & Heating
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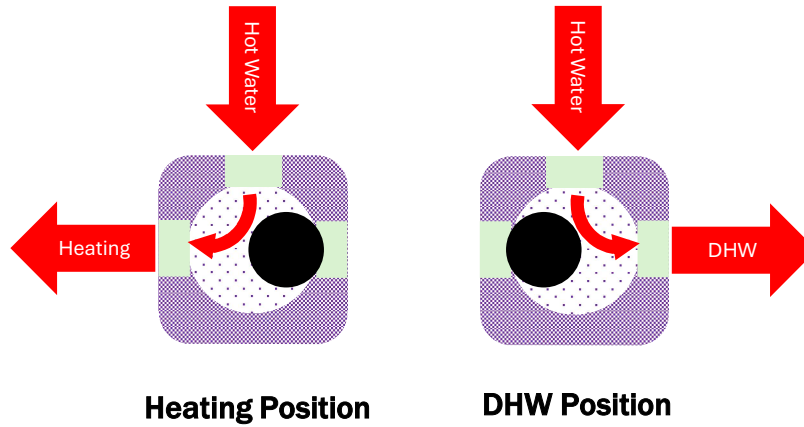
Quick Temperature Control and Stability
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High DHW Flow Rates

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SIMULTANEOUS OPERATION

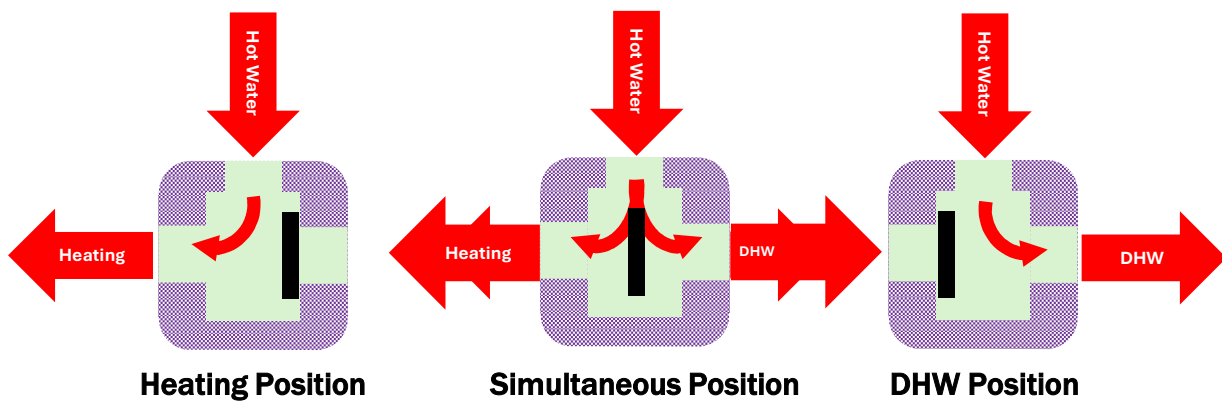
Many Competitor's 3-way Valve: Either heating or DHW.



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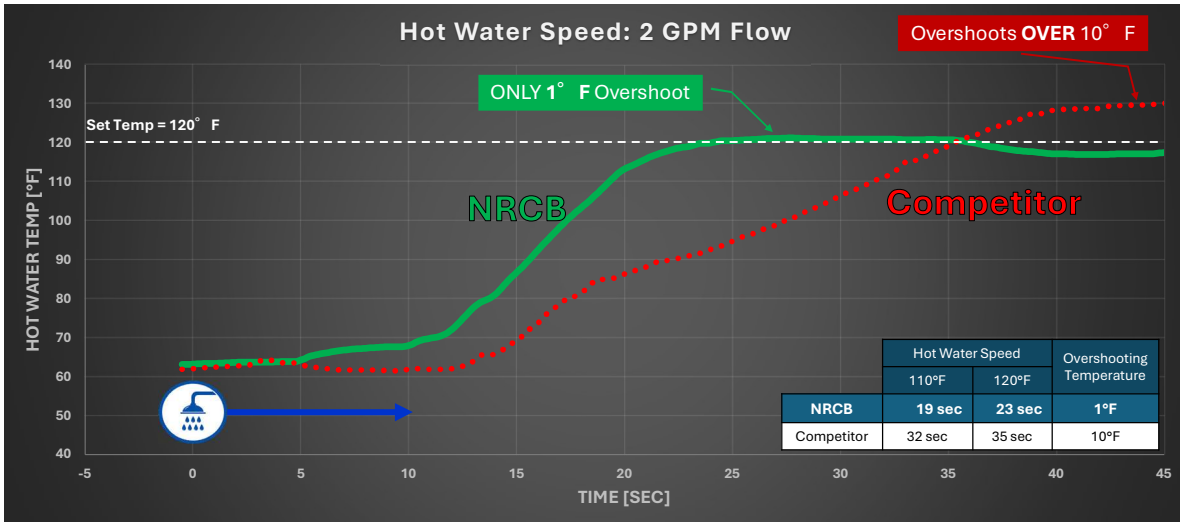
SIMULTANEOUS OPERATION

NRCB 3-way Valve: BOTH heating and DHW!



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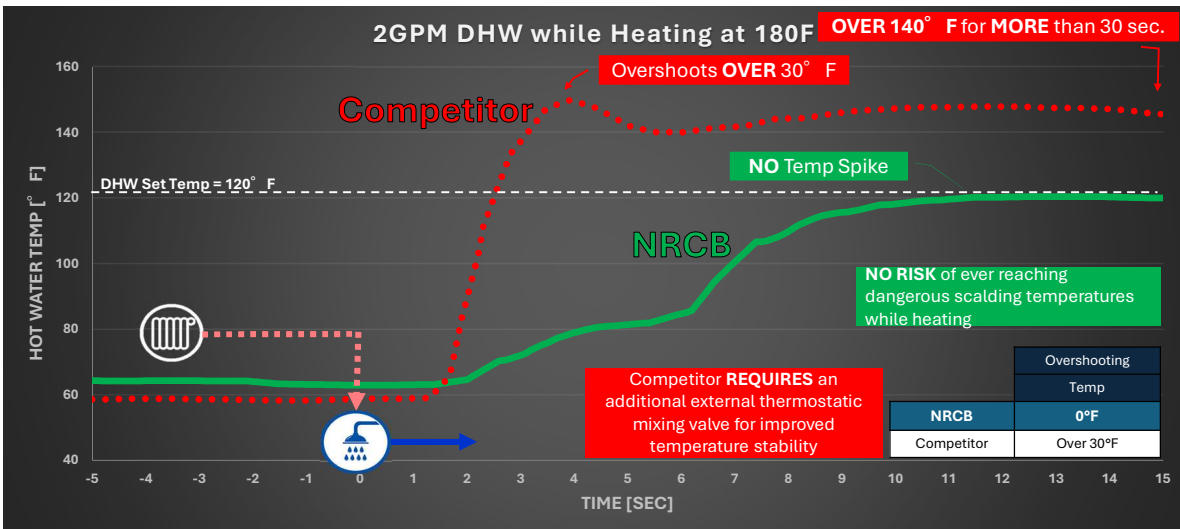
QUICK TEMP CONTROL & STABILITY



NORITZ
TANKLESS WATER HEATERS

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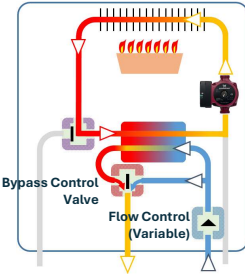
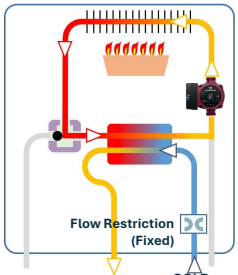
QUICK TEMP CONTROL & STABILITY



NORITZ
TANKLESS WATER HEATERS

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HIGH DHW FLOW RATES

	NRCB	Competitor
Water Pathway		
Flow Control	Variable	Fixed
Max GPM (199k btu Model)	11.1 GPM	5.6 GPM
Min Activation	0.4 GPM	0.5 GPM
Min Operation	0.29 GPM	Not Mentioned



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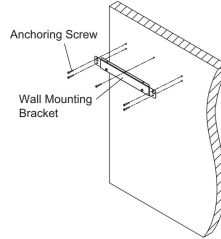
INSTALLATION



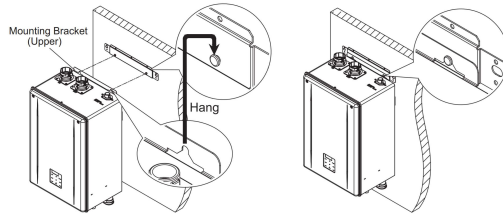
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MOUNTING BRACKET

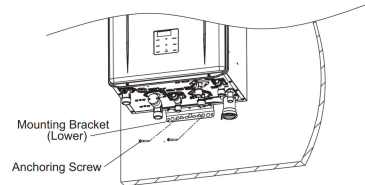
1. Mount the Bracket



2. Hang the Heater



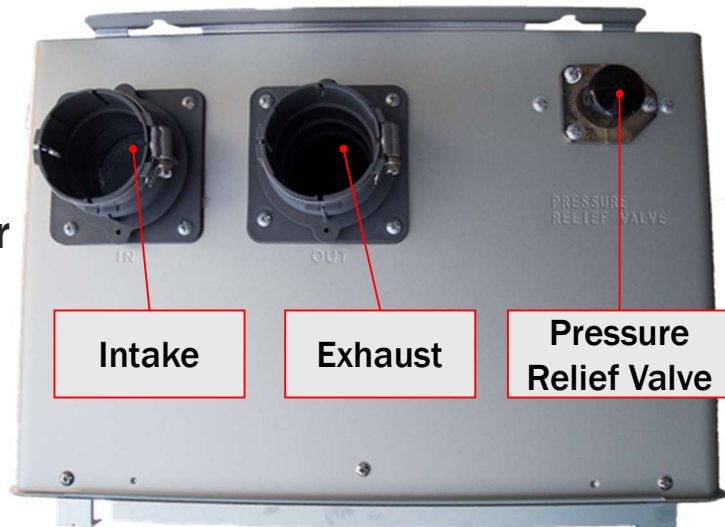
3. Secure the Heater



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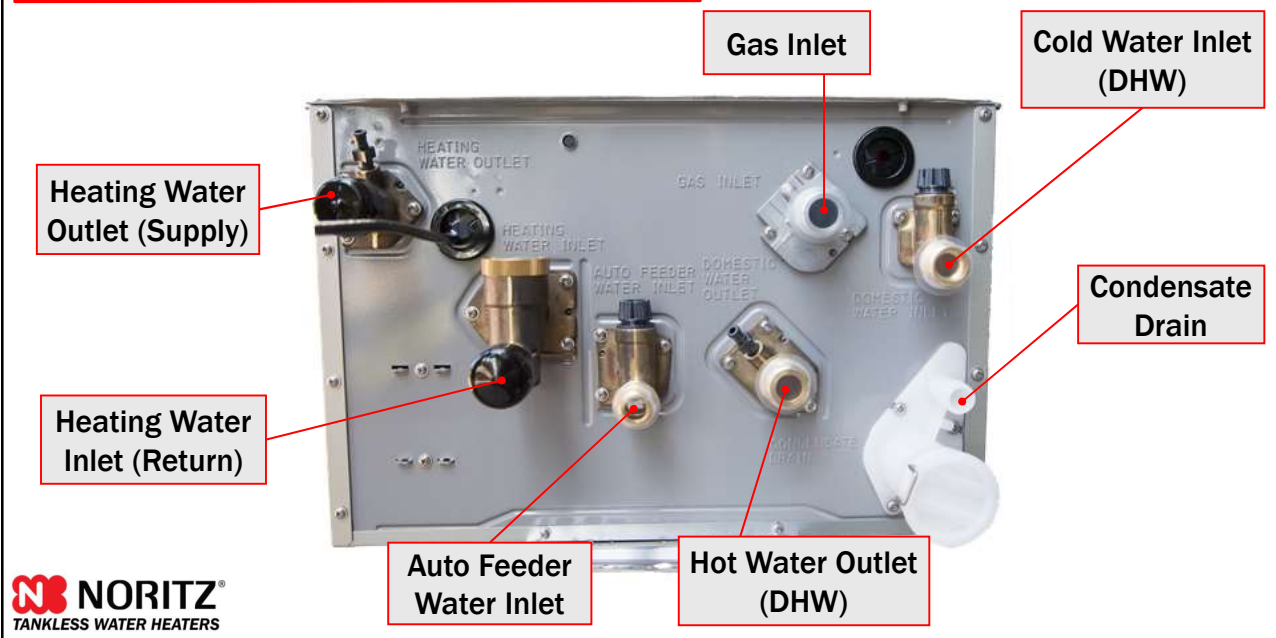
VENTING

- DV or SV capable.
- 2" or 3" PVC/CPVC or PP
- Up to 60ft w/ 2" or 100ft w/ 3"



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BOTTOM CONNECTIONS



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WATER TREATMENT

Water Quality Guidelines in the Installation Manual should always be followed.

Damage to the Combi Boiler 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 (See the Water Quality List on page 25.)

Treatment Guidelines

Type of Water	Hardness Level	Treatment Device*	Flush Frequency** Residential Use
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)	ScaleShield or Water Softener	Once a Year***
Hard	7-10 gpg (120-171 mg/L)	ScaleShield or Water Softener	Once a Year***
Very Hard	10-12 gpg (171-200 mg/L)	ScaleShield or Water Softener	Once a Year***
Extremely Hard	> 12 gpg (> 200 mg/L)	ScaleShield or Water Softener	Once a Year***



* When selecting a treatment device, you must consult with the device's spec sheet and installation manual for guidelines and limitations. Not all water supplies are compatible - a water test may be required.

** Install Noritz Isolation Valves to allow for flushing.

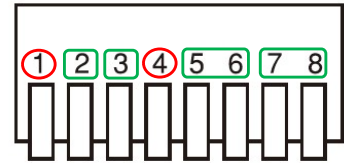
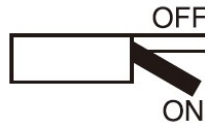
*** Flushing is required if a water treatment device is not installed.

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TANKLESS WATER HEATERS

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DIPSWITCH SETTINGS

Set up the unit for expanding simultaneous, vent type, elevation, vent length and size.



SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
DO NOT USE	Simultaneous Use	Vent Type	DO NOT USE	Elevation Adjustment		Vent Length Adjustment and Vent Size	
	Normal*	DV*		0 - 2,000 Feet*		2" Short Length*	
	Expanding	SV		2,001 - 4,000 Ft.		2" Long Length	
					4,001 - 7,000 Ft.		3" Short Length
					7,001 - 10,000 Ft.		3" Long Length

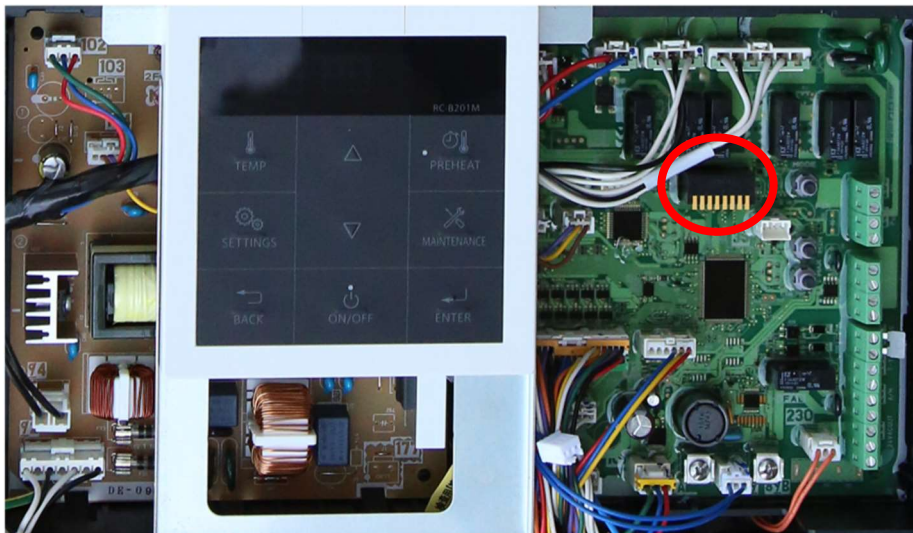
*Default Setting



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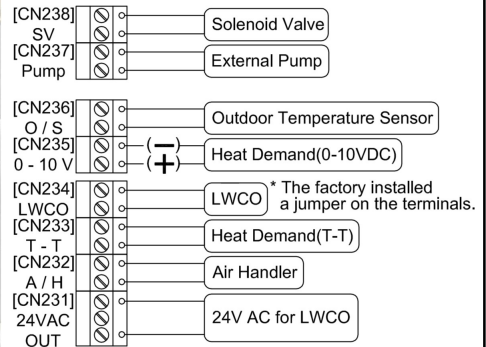
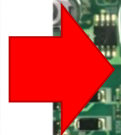
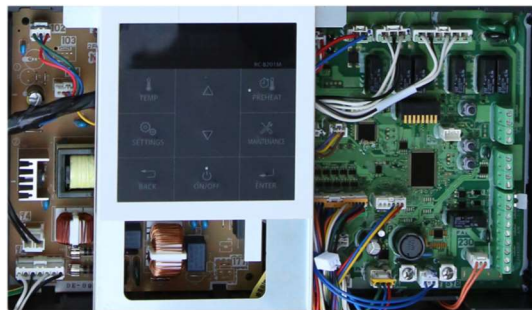
DIPSWITCH SETTINGS WITH PROCARD APP

Made simple using the PROCard APP!



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ELECTRICAL WIRING



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