

**NORITZ®**  
TANKLESS WATER HEATERS  
**EZ SERIES**  
**TRAINING**

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EZ Series Overview, Features  
& Installation



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# **PRODUCT OVERVIEW**

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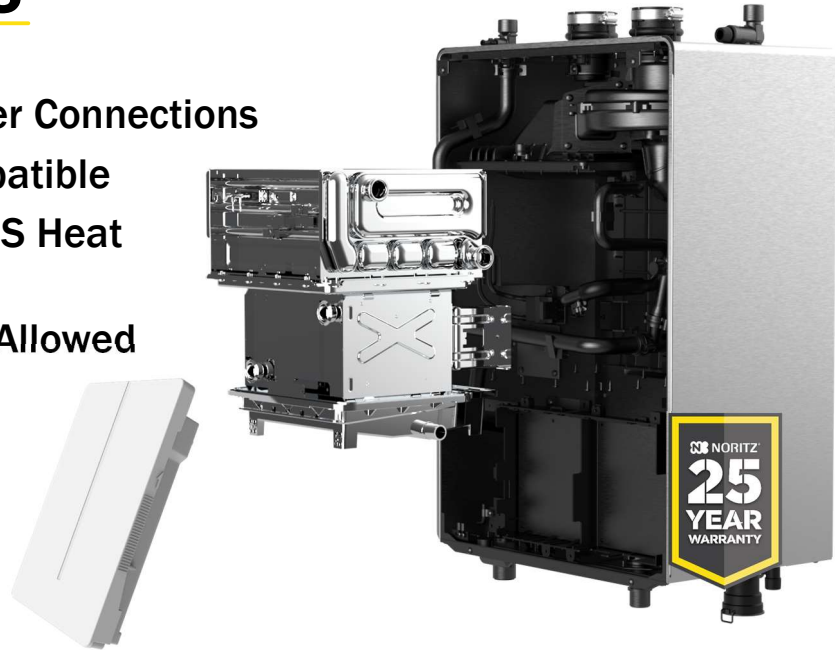
## Features and Specs



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# KEY FEATURES

- ▶ Top Mounted Water Connections
- ▶ 1/2" Gas Line Compatible
- ▶ Dual High Grade SS Heat Exchangers
- ▶ Common Venting Allowed
- ▶ Wifi Capability



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# SPECIFICATIONS



Performance / Functions	EZ111DV(EZTR75) / EZ98DV(EZTR50)
Max Input	199,900 / 180,000 BTU/h
Min Input	18,000 BTU/h
Venting Versatility	DV, SV, OD, FSV (2" Flex)
UEF	0.95
EZ - Top Mount Connection	YES
EZ - Mounting the Unit	YES
EZ - 2" or 3" Venting	PVC, CPVC or PP (65' of 2" or 150' of 3")
EZ - 1/2" Gas Line Compatible	YES
Clean - NOx	14ppm (Actual Test Result @ Max)
Clean - Design & Color	Metallic Color, 27"(H) x 18.5"(W) x 12.8"(D)
Common Vent Capability	YES (Up to 2 Units)
Wifi Capability	YES (Wifi Adapter Optional)
HEX Material	Dual High-Grade SS HEX
Hot Water Temp Control	Quick Temperature Control and Stability

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# PERFORMANCE

Temperature Rise	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
EZ98 (EZTR50)	9.8	9.8	8.4	7.6	6.9	6.3	5.7	5.3	4.9	4.7	4.2	3.9	3.7	3.5	3.4
EZ111 (EZTR75)	11.1	11.1	9.8	8.7	7.8	7.1	6.5	6.0	5.6	5.2	4.9	4.6	4.4	4.1	3.9






Need more flow? Quick Connect two identical EZ units and double the flow!



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# EZ TOP MOUNT WATER CONNECTIONS

Less plumbing work.

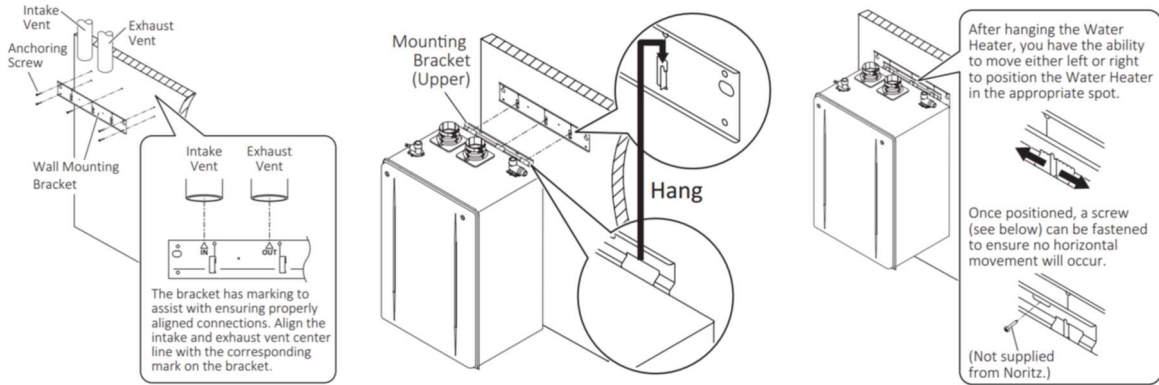
Hot Outlet    Cold Inlet



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# EZ MOUNTING BRACKET

Quick, EZ and safe to mount. 16" pitch holes.



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TANKLESS WATER HEATERS

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# EZ VENTING VERSATILITY

One SKU, Four Venting Options.



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# EZ 2 INCH FLEX VENT

Use existing 3" or 4" round b-vent.

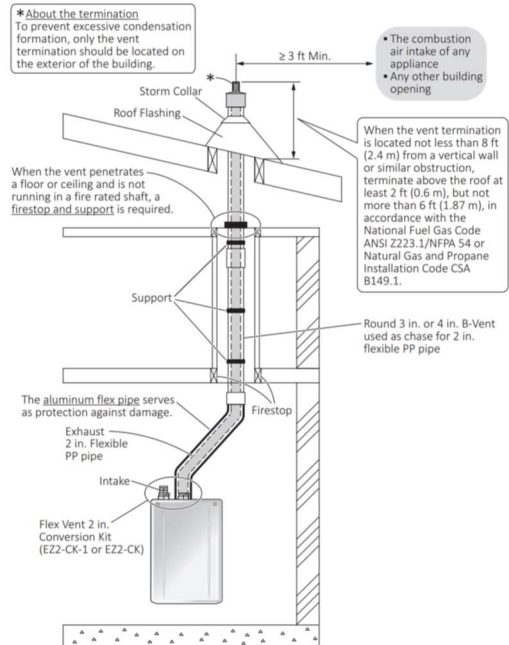
2 additional parts numbers required\*:

● **EZ2-CK or EZ2-CK-1:** Conversion kit to adapt unit to accept flex vent.

● **EZ2FVK-1 (25 ft.) or EZ2FVK-2 (35 ft.):** Select either 25 ft. or 35 ft. depending on length of existing b-vent.

**NOTE:** Flexible vent can be shortened but you *cannot* join 2 pieces of flexible vent to extend the length.

*\*NOT Required if an EZTR package is purchased.*



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# EZ 2 INCH FLEX VENT



**SCAN FOR VIDEO**

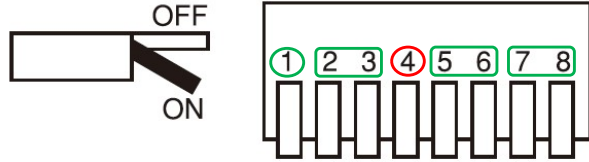
Noritz EZTR Quick Installation Video



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# DIPSWITCH SETTINGS

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



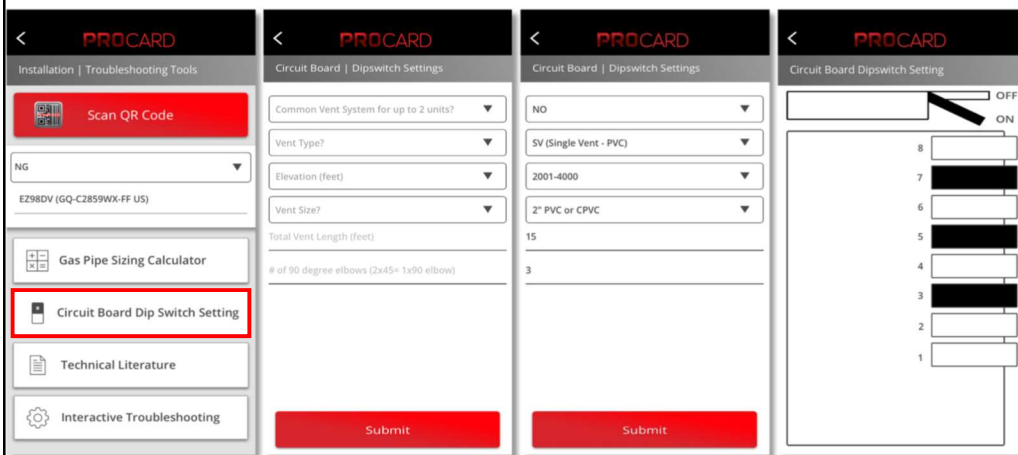
SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
Common Vent System	Exhaust Type		DO NOT TOUCH	Elevation Adjustment		Vent Length Adjustment and Vent Size	
	(Default) DV			(Default) 0 - 2,000 Feet		(Default) 2" Short Length	
	OD			2,001 – 4,000 Ft.		2" Long Length	
		SV		4,001 – 7,000 Ft.		3" Short Length	
	EZTR (Flex Vent)			7,001 – 10,000 Ft.		3" Long Length	



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# DIPSWITCH SETTINGS

Make it **EZ** by using the PROCard APP!



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# WIFI ADAPTER

Wireless adapter NWC-ADAPTER for Noritz Tankless Water Heaters

## Wireless Control

Homeowner control over our full featured app.

## Diagnose and Maintain

Homeowner and Contractor alerts & reminders for fast and proactive maintenance

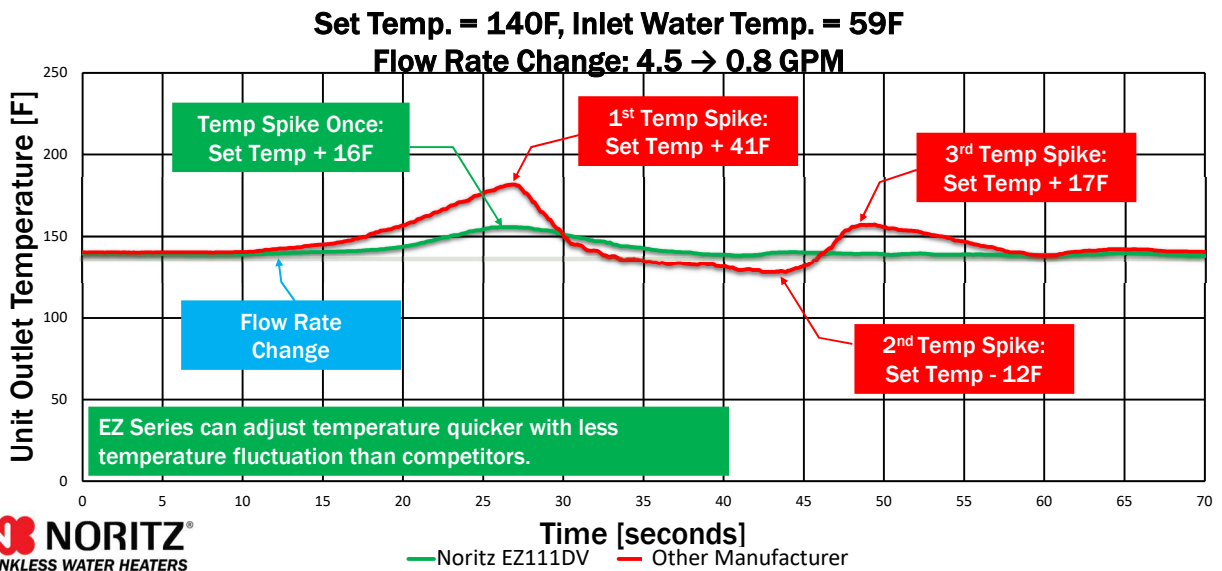
## Flexible Installation

Weather resistant wireless adapter allows for installation indoors or outdoors



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# QUICK TEMPERATURE CONTROL



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# INSTALLATION

Correct operation begins with correct installation



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## PRE-INSTALLATION CHECKS

Verify the following before installation and *read the manual*:

### Check the gas:

- EZ98 Max btu is 180k.
- EZ111 Max btu is 199k.

Ensure the existing gas system can support that demand + other existing gas demands.

### Check the power:

- EZ Series and all Noritz units operate on 120 VAC at 60Hz.

### Check the vent:

- EZ Series uses plastic venting (PVC, CPVC and PP).
- Existing venting will likely have to be replaced unless you are replacing a similar type unit.

Exhaust leaks into the home may lead to injury or death. **Do not take shortcuts here.**



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# INSTALLATION LOCATION & CLEARANCES

Verify the following before installation and *read the manual*:

Select a proper installation location:

- Avoid fire hazards or corrosive environments.



## 3 Choosing an Installation Location

### ⚠ DANGER

Locate the vent terminal and make sure there are no obstacles around the termination for exhaust to accumulate or be obstructed. Do not enclose the termination with corrugated metal or other materials. Carbon monoxide poisoning or fire may occur as a result.

### ⚠ WARNING

• Avoid places where fires are common, such as those where gasoline, benzene and adhesives are handled, or places in which corrosive gases (ammonia, chlorine, sulfur, ethylene compounds, acids) are present. If you do not follow the above, a fire or explosion may result causing property damage, personal injury or death.

• Avoid installation in places where dust or debris will accumulate. Dust may accumulate and reduce the performance of the fan of the appliance. This can result in incomplete combustion.

• Avoid installation in places where special chemical agents (e.g. hair spray or spray detergent) are used. Ignition failures and malfunctions may occur as a result.

• Do not install this Water Heater in a recreational vehicle or on a boat as this may be a Carbon Monoxide Poisoning Hazard.

• The manufacturer does not recommend installing the Water Heater in an attic due to safety issues.

If you install the Water Heater in an attic:

- Make sure the appliance will have enough combustion air and proper ventilation.
- Keep the area around the Water Heater clean. Dust may accumulate and reduce the performance of the fan of the appliance. This can result in incomplete combustion.
- A drain pan, or other means of protection against water damage, is required to be installed under the Water Heater in case of leaks.

### ⚠ CAUTION

**Do not install in the following places**

- A location where it is not free from obstacles and stagnant air.
- Near staircases or emergency exits.
- A place where it may be threatened by falling objects, such as under shelves.
- On common walls as the appliance will make some operational noises while it is running.

**Consideration to the surroundings**

- Do not install the Water Heater where the exhaust will blow on outer walls, other walls or material not resistant to heat. Also consider the surrounding trees and animals. The heat and moisture from the Water Heater may cause discoloration of walls and resinous materials, or corrosion of aluminum materials.
- Do not locate the vent termination directed towards a window or any other structure which has glass or wired glass facing the termination.
- Take care that noise and exhaust gas will not affect neighbors.
- If the appliance is installed in a location with very high humidity, condensate may form inside the appliance and/or cause incomplete combustion, damage to the electrical components, or electric leakage.

**Install according to regulations and manual**

- Install the Water Heater in an area that allows for the proper clearances to combustible and non-combustible construction. Consult the rating plate on the appliance for proper clearances.
- The Water Heater must be installed according to manual.
- Before installing, make sure that the exhaust flue termination will have the proper clearances according to the National Fuel Gas Code (ANSI Z223.1 - latest edition) or the Natural Gas and Propane Installation Code (CSA B149.1).

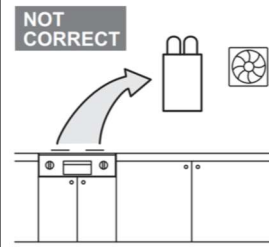
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# INSTALLATION LOCATION & CLEARANCES

Verify the following before installation and *read the manual*:

Select a proper installation location:

- Avoid fire hazards or corrosive environments.
- Install in an area that provides clean combustion air.
- Avoid areas where chemicals are used.



## 3 Choosing an Installation Location

### ⚠ DANGER

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### ⚠ WARNING

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# INSTALLATION LOCATION & CLEARANCES

Verify the following before installation and *read the manual*:

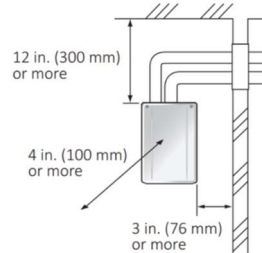
Select a proper installation location:

- Maintain minimum required clearances and if possible, recommended clearances.

## 4.1 Indoor Installation

### Required Clearances From the Water Heater

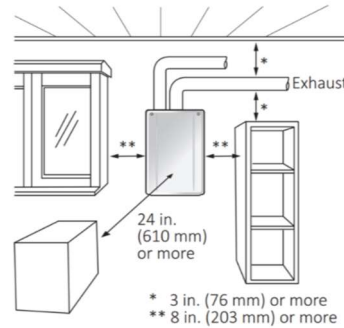
Maintain the clearances from both combustible and non-combustible materials.



Required

### Securing of space for inspection/repair

In order to facilitate inspection and repair, the minimum clearances should be met.



Recommended



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# INSTALLATION LOCATION & CLEARANCES

Verify the following before installation and *read the manual*:

Select a proper installation location:

- Maintain minimum required clearances and if possible, recommended clearances.



Recommended clearances are not only there to provide enough space for inspection, maintenance and repair but also to make sure the homeowner has quick and unimpeded access to gas and water shut off in the unlikely event of an **emergency**.



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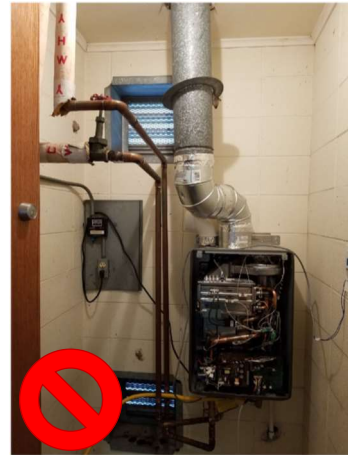
# INSTALLATION LOCATION & CLEARANCES

Verify the following before installation and *read the manual*:

Other examples of poor installations:

## ⚠ DANGER

Locate the vent terminal and make sure there are no obstacles around the termination for exhaust to accumulate or be obstructed. Do not enclose the termination with corrugated metal or other materials. Carbon monoxide poisoning or fire may occur as a result.



# EZ 1/2" GAS LINE CONDITIONS

Under certain specific conditions, a 1/2" gas line can be used.

**Table 1. For Less than 8" WC initial supply pressure**

Maximum Natural Gas Delivery Capacity (0.5" Pressure Drop) [Schedule 40 Metallic Pipe]

Pipe Size	Length (including fittings)										
	10' (3m)	20' (6m)	30' (9m)	40' (12m)	50' (15m)	60' (18m)	70' (21m)	80' (24m)	90' (27m)	100' (30m)	125' (38m)
3/4"	360	247	199	170	151	137	126	117	110	104	92
1"	678	466	374	320	284	257	237	220	207	195	173
1 1/4"	1,390	957	768	657	583	528	486	452	424	400	355
1 1/2"	2,090	1,430	1,150	985	873	791	728	677	635	600	532

**Table 2. For 8" WC – 10.5" WC initial supply pressure**

Maximum Natural Gas Delivery Capacity (3.0" Pressure Drop) [Schedule 40 Metallic Pipe]

Pipe Size	Length (including fittings)										
	10' (3m)	20' (6m)	30' (9m)	40' (12m)	50' (15m)	60' (18m)	70' (21m)	80' (24m)	90' (27m)	100' (30m)	125' (38m)
1/2"	454	312	250	214	190	172	158	147	138	131	116
3/4"	949	652	524	448	397	360	331	308	289	273	242
1"	1,787	1,228	986	844	748	678	624	580	544	514	456
1 1/4"	3,669	2,522	2,025	1,733	1,536	1,392	1,280	1,191	1,118	1,056	936
1 1/2"	5,497	3,778	3,034	2,597	2,302	2,085	1,919	1,785	1,675	1,582	1,402
2"	10,588	7,277	5,844	5,001	4,433	4,016	3,695	3,437	3,225	3,046	2,700
2 1/2"	16,875	11,598	9,314	7,971	7,065	6,401	5,889	5,479	5,140	4,856	4,303
3"	29,832	20,503	16,465	14,092	12,489	11,316	10,411	9,685	9,087	8,584	7,608
4"	43,678	30,020	24,107	20,632	18,286	16,569	15,243	14,181	13,305	12,568	11,139



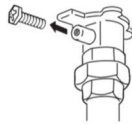
## **EZ GAS LINE CONDITIONS**

General gas guidelines.

	Supply Pressure	
	Natural Gas	LP Gas
Min	3.5 in. W.C.	8 in. W.C.
Max	10.5 in. W.C.	14 in. W.C.

In order to check the gas supply pressure to the Water Heater, a tap is provided on the gas inlet.

Remove the **9/32 in. hex head /Philips screw** from the tap.



Test inlet pressure after installation:

- Low demand (1 or 2 fixtures)
- Moderate demand (3 or 4 fixtures)
- High demand (5+ fixtures)
- Worst case scenario, 5+ fixtures + all other gas appliances.



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## **EZ GAS LINE CONDITIONS**

An improperly sized gas line generally results in one or more of the following issues:

- Ignition Failure (Error Code 11)
- Flame Loss (Error Code 12)
- Abnormal Combustion (Error Code 10 or 90)
- Fluctuating water temperatures
- Abnormal noises

Other items in the gas supply system that could cause problems:

- Meter size
- Earthquake safety shutoff valve
- Water/debris in gas line



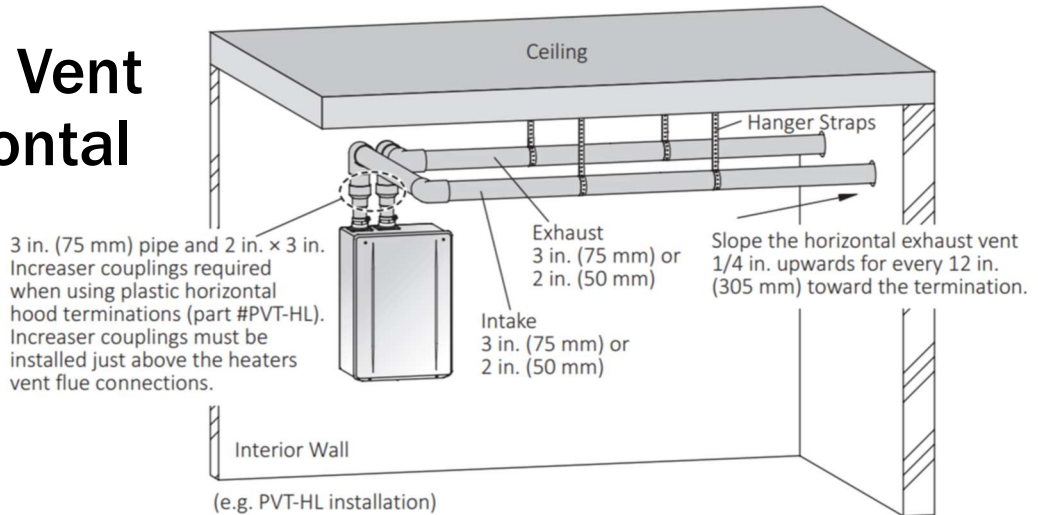
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# EZ VENTING GUIDELINES

Wide variety of venting options for an EZ install.

## Direct Vent Horizontal

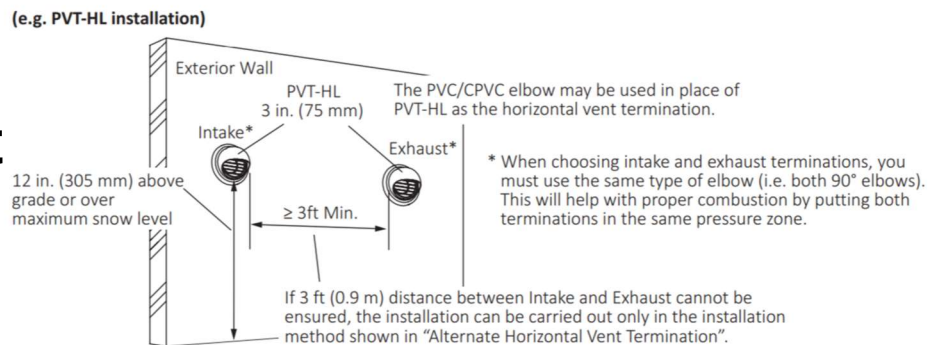


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# EZ VENTING GUIDELINES

Wide variety of venting options for an EZ install.

## Direct Vent Horizontal



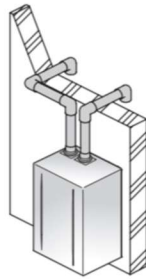
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# EZ VENTING GUIDELINES

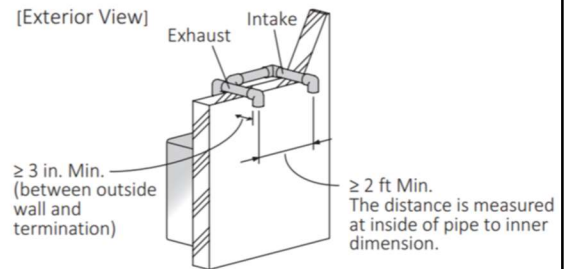
Wide variety of venting options for an EZ install.

## Direct Vent Horizontal (Option 1)

[Interior View]



[Exterior View]



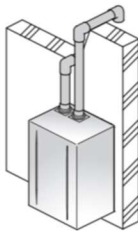
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# EZ VENTING GUIDELINES

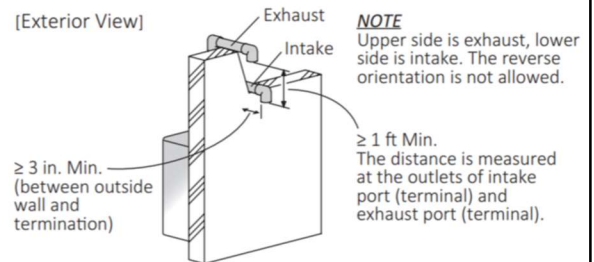
Wide variety of venting options for an EZ install.

## Direct Vent Horizontal (Option 2)

[Interior View]



[Exterior View]



**NOTE**  
Upper side is exhaust, lower side is intake. The reverse orientation is not allowed.



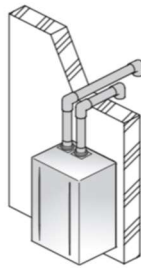
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# EZ VENTING GUIDELINES

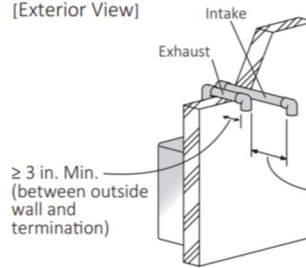
Wide variety of venting options for an EZ install.

## Direct Vent Horizontal (Option 3)

[Interior View]



[Exterior View]



**NOTE**

The side distant from wall is intake, the side near the wall is exhaust. The reverse orientation is not allowed.

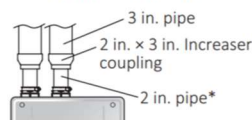


# EZ VENTING GUIDELINES

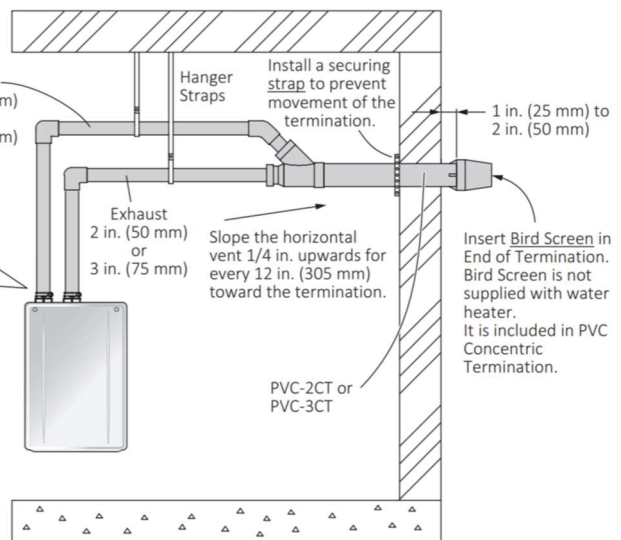
Wide variety of venting options for an EZ install.

## Direct Vent Horizontal (Concentric)

When using PVC-3CT, 3 in. (75 mm) pipe and 2 in. - 3 in. increaser couplings are required. Increaser couplings must be installed just above the Water Heaters vent flue connections.



\* The length of the pipe between the Increaser couplings and the Exhaust and Intake Flue of the Water Heater should be up to 6 in. (152 mm).



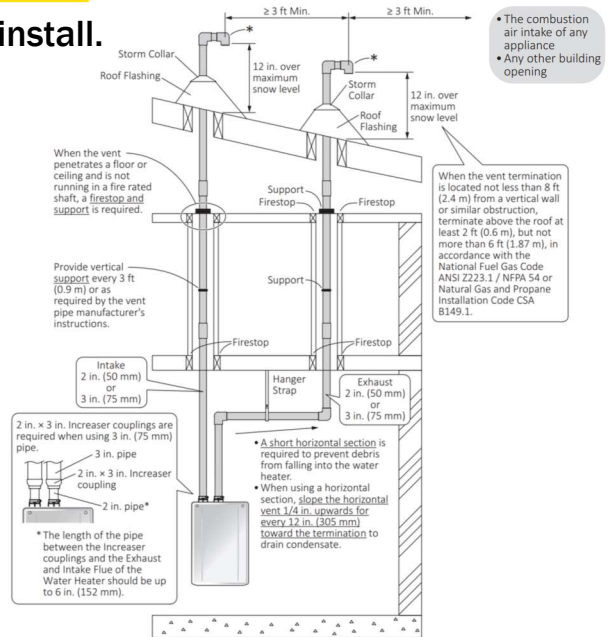
(e.g. PVC-2CT installation)



# EZ VENTING GUIDELINES

Wide variety of venting options for an EZ install.

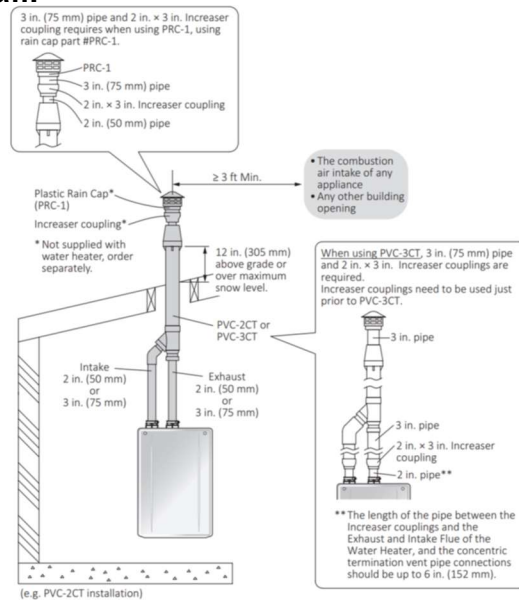
## Direct Vent Vertical



# EZ VENTING GUIDELINES

Wide variety of venting options for an EZ install.

## Direct Vent Vertical (Concentric)

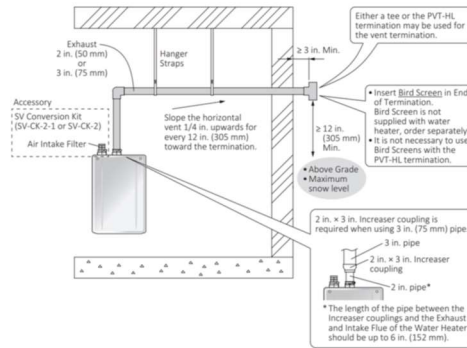




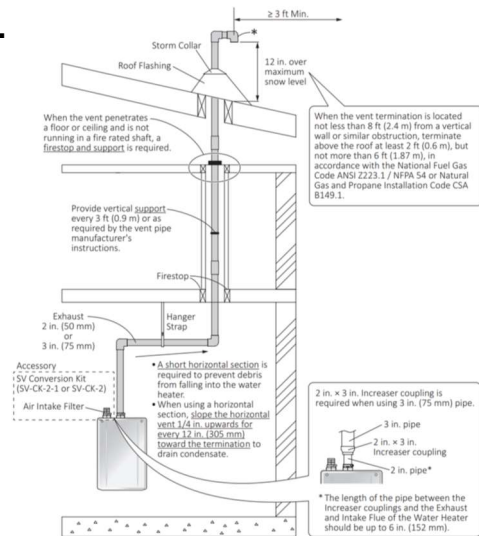
# EZ VENTING GUIDELINES

Wide variety of venting options for an EZ install.

## Single Vent



Horizontal



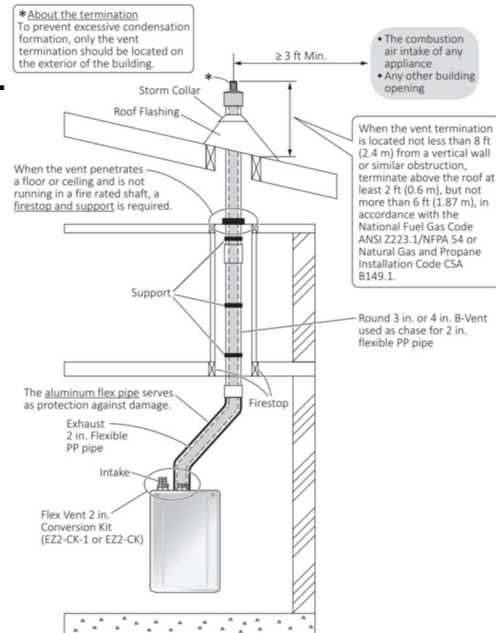
Vertical



# EZ VENTING GUIDELINES

Wide variety of venting options for an EZ install.

## Outdoor



Flexible Vent



# BASIC MAINTENANCE

Keep the unit performing to its potential



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## WATER QUALITY

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

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 (See the Water Quality List on page 34.)
- The water heater has displayed a "C1#" (Service Reminder) indicating Scale Build-up, but the heat exchanger has not been flushed.

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.

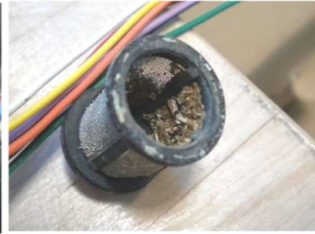


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# POOR WATER QUALITY ISSUES

Here are some issues related to Hard Water or Poor Water Quality:

- ⚠ Scale Buildup
- ⚠ Overheated Water Temperature
- ⚠ Error Codes: 16, 20, 65
- ⚠ Clogged Inlet Filter Screen



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# DESCALING/FLUSHING

So, what do you need to perform a proper descale?



SCAN FOR VIDEO

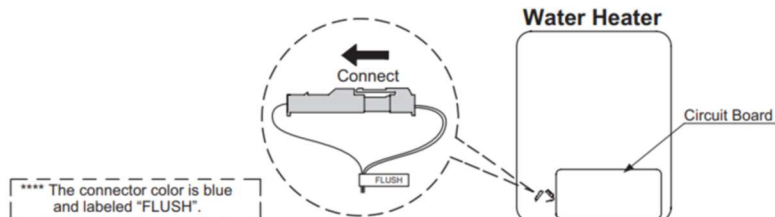


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# DESCALING/FLUSHING

Flush procedure using the blue FLUSH connector:

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



3. Then the code "CCC" is displayed on the Remote Controller. **CCC**
4. 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.
5. 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.



**NORITZ**  
TANKLESS WATER HEATERS

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# TECHNICAL INFO

How does this thing work?

**NORITZ**  
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# WATER CONTROL ROUTE

## Water Control Route for the EZ Series

**Set Temp 120 or Lower:**

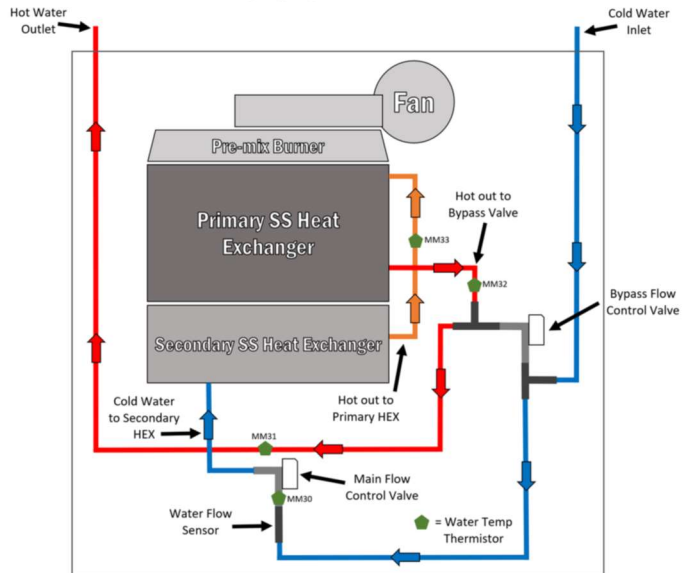
- Bypass Open
- Main Open

**Set Temp 125 or Higher:**

- Bypass Closed
- Main Open



Water Flow and Piping Layout for the EZ Series Heaters

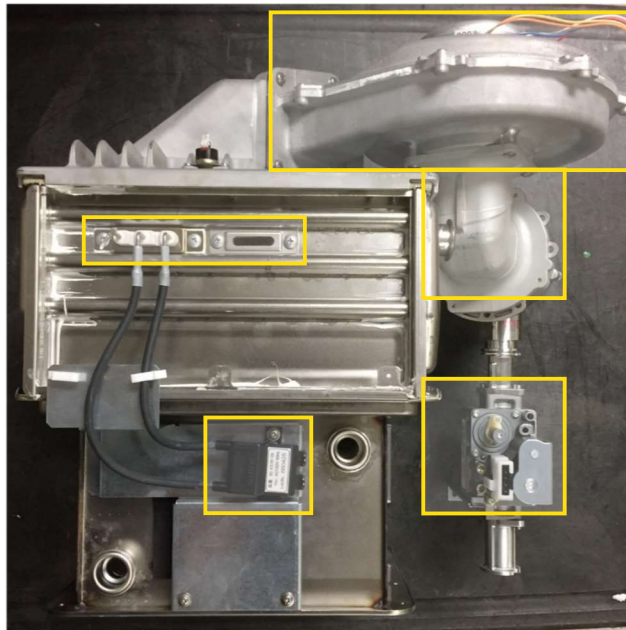


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# COMBUSTION ASSEMBLY

Heart of the EZ Series.

Flame Rod  
Ignition Rods  
Burner Window  
  
Igniter



Fan Motor

Venturi

Gas Valve

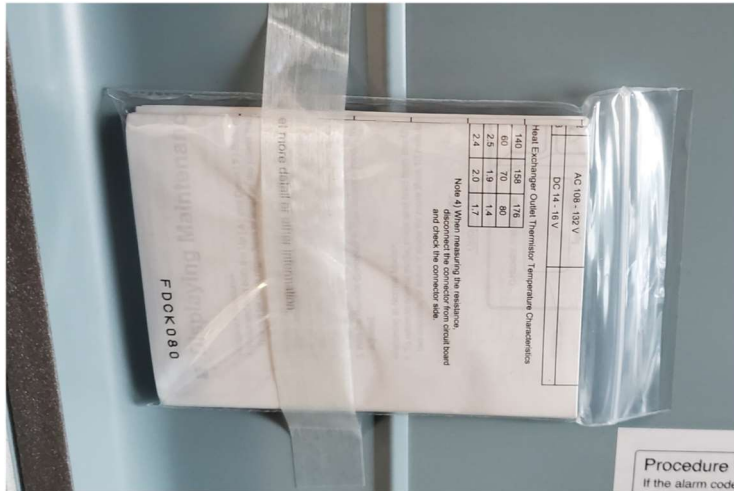


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# TECHNICAL DATA SHEET

Found inside the unit.

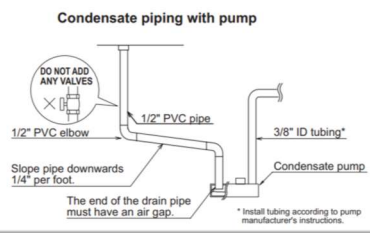
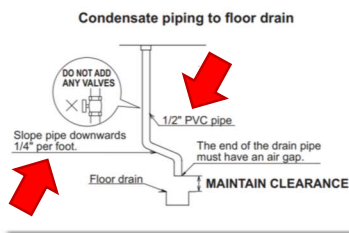


- Component List
- Error Codes
- Maintenance
- Monitors
- Dipswitch Settings
- Voltage Checkpoints
- Gas Pressures



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# CONDENSATE DRAIN LINE



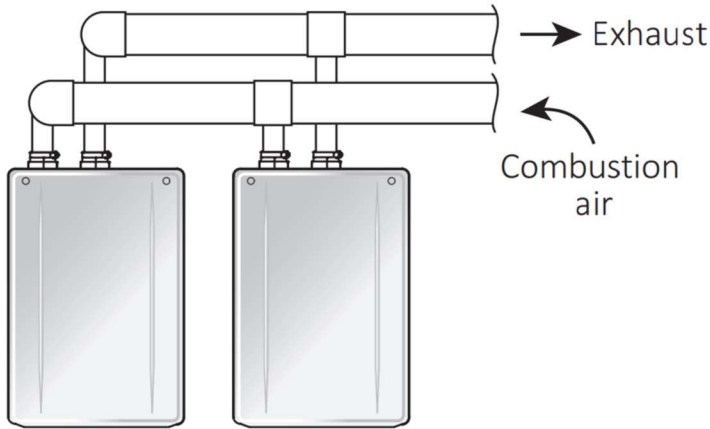
■ Do not pitch the drain line up once a horizontal section has been introduced. Always pitch the drain line down to ensure proper drainage.



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# COMMON VENT

EZ Installation for 2 units.



Search by  Heater  Accessories

Common Vent (GQ-60 Series)

Search

Reset Search

MODEL # NPA SPEC SHEET OWNER'S GUIDE INSTALL MANUAL PARTS LIST CERT. FIELD MAN/TECH SHEET

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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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