

# NORITZ<sup>®</sup> **EZ SERIES** **PRO**

Overview, Features and Changes



1



## **OUTLINE**

- What's New
  - New EZ Model
  - Field Gas Conversion
  - EZ Start Plus Bluetooth App
  - Built in Display Window
  - Front Cover Latches
- Model Specifications
- Installation
  - Venting
  - Gas
  - Condensate
  - Unit Settings
  - Basic Maintenance

 **NORITZ<sup>®</sup>**  
TANKLESS WATER HEATERS

2

## 10+ YEARS OF EZTR INNOVATION

It all started in 2014 with the EZTR40 package, offering installers a time saving and EZ way to replace a tank with a tankless utilizing top mounted water connections. In 2017 the Pre-Mix EZ and EZTR models were introduced offering higher efficiency and capacities. In 2020 the EZ/EZTR Pre-Mix lineup was expanded to include the NRCR along with new features like Steady BTU. Now, the latest EZ and EZTR models offer even higher efficiency and more features including a new EZ71 model!



2014



2017



2020



2024



3

## WHAT'S NEW?



4

## WHAT'S NEW

- .98 UEF for all models
  - Highest UEF for complete BTU range in the industry
- New EZ Model
  - 160kbtu EZ71 Model Added
- Field Gas Conversion
  - Default setup for NG, conversion included to change to LP without the need to order a gas conversion kit.
- EZ Start Plus Bluetooth App
  - Physical dipswitches are gone! Unit setup is done entirely through Bluetooth app.
- Built in Display Window
  - Remote control is optional. Maintenance Monitors and Unit Settings can be accessed through the Display Window.



5

## NEW LEVEL OF EFFICIENCY

The new EZ Series Pro and the entire new Pre-Mix line up all achieve a .98 UEF making them among the most efficient tankless models on the market.



.87 UEF

2014



.96 UEF

2017



.96 UEF

2020



.98 UEF

2024



6

## NEW EZ71 MODEL

With the addition of the EZ71, there is now an EZ unit for those smaller applications where a larger unit doesn't make much sense.

The EZ71 will be available as an individual unit and not part of an EZTR package, however you may still use the flex vent conversion and flex vent kit like any other EZ unit.



7

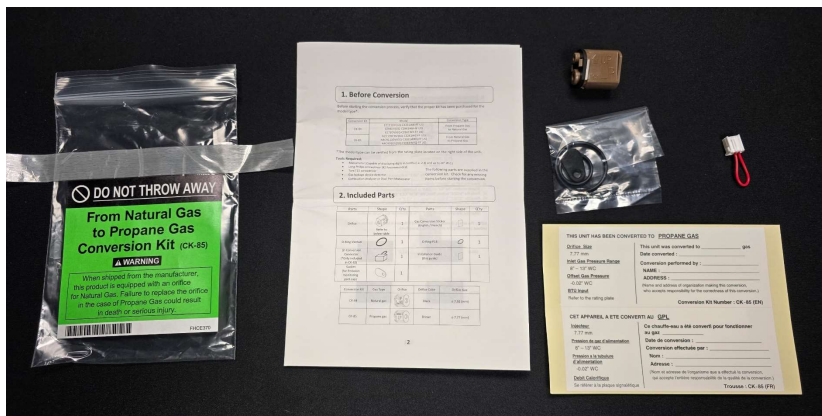
## FIELD GAS CONVERSION

All EZ Series Pro and future Pre-Mix models are ready to be used with NG. If the jobsite has LP, a simple field gas conversion can be performed without the need to purchase any additional parts. Conversion is EZ and can be done in about 5 minutes.

Conversion Kit taped to top of unit



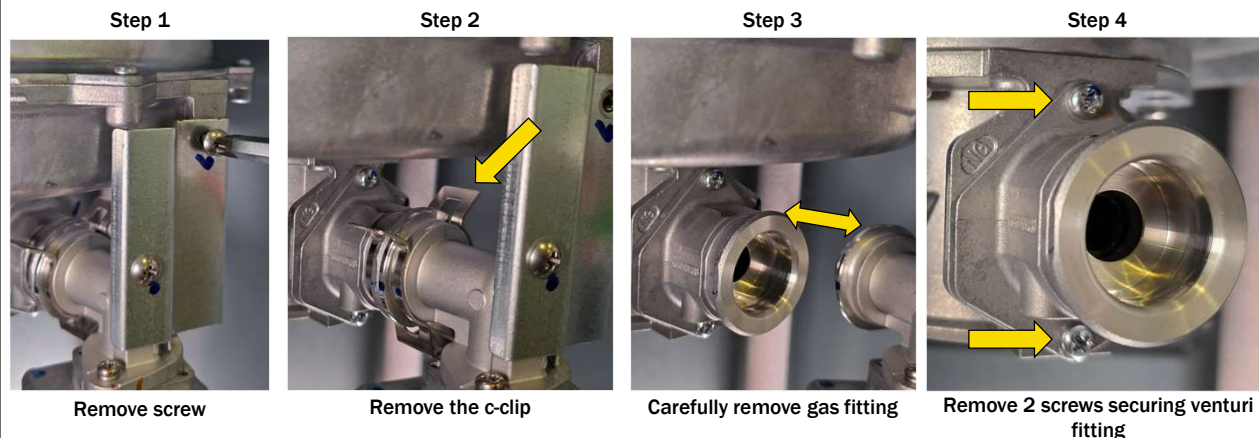
Contents of LP Conversion Kit



8

# FIELD GAS CONVERSION

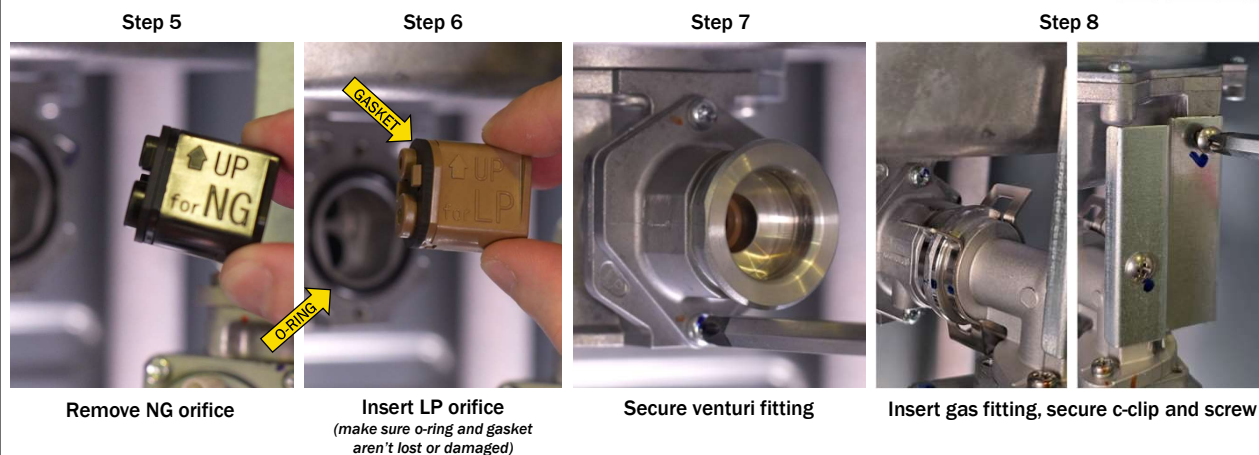
Scan Here! 



9

# FIELD GAS CONVERSION

Scan Here! 



10



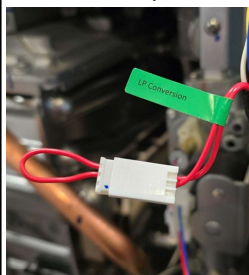
# FIELD GAS CONVERSION



Scan  
Here!



Step 9



Plug in LP conversion connector

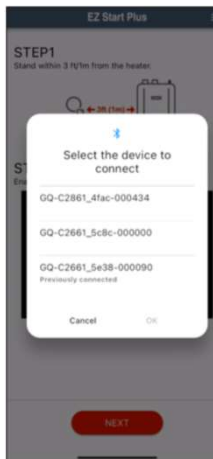
\*Built in display can also be used to convert gas type, see gas conversion directions included with unit



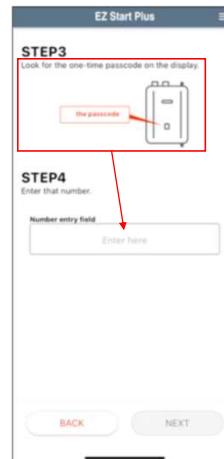
Step 10: Changing gas type to LP with EZ Start Plus App\*



Open EZ Start Plus App and turn on Bluetooth



Select Unit and tap "OK"



Enter Passcode and tap "NEXT"



Register Warranty (or Skip)

(If you have connected to the unit previously, you may have less steps)

11

# FIELD GAS CONVERSION

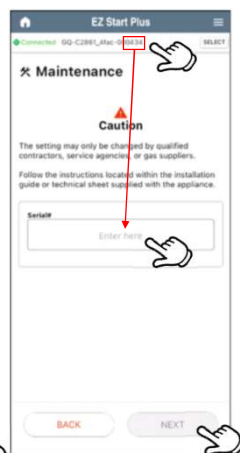
Scan  
Here!



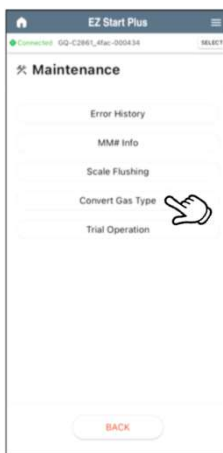
Step 10 (continued): Changing gas type to LP with EZ Start Plus App



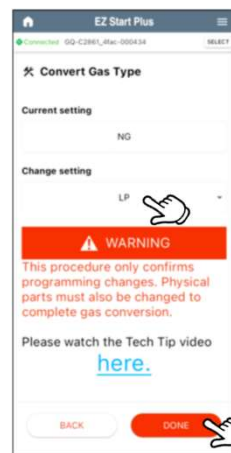
Tap "Maintenance"



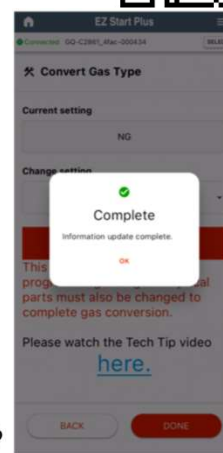
Enter last 4 digits of your serial number then tap "NEXT"



Tap "Convert Gas Type"



Tap Change Setting, Tap LP then tap "DONE"



After a few seconds it should show complete

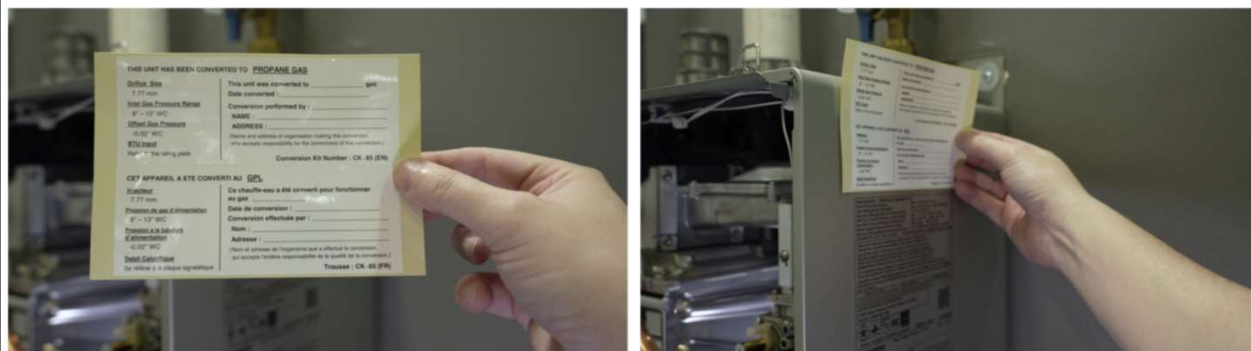


(If you have connected to the unit previously, you may have less steps)

12

# FIELD GAS CONVERSION

MAKE SURE TO FILL OUT AND ATTATCH GAS CONVERSION STICKER TO UNIT



13

# EZ START PLUS APP



Initial unit setup, temperature adjustment and maintenance can all be handled through the new EZ Start Plus Bluetooth App!

The App will walk you through setting up the unit upon completing installation and provides an easy way to register the unit for your customers.

Error Code History can be accessed and will link you directly to help articles related to any error codes stored.



14

## BUILT IN DISPLAY WINDOW



Displays temperature setting, service reminders and error codes. Also allows you to view maintenance monitors, error code history and change installation settings. The new display window makes the remote control a truly optional item.



15

## NEW LATCHED FRONT COVER



Easier access when performing preventative maintenance, service or operating the built in display window. Remove 2 screws at the bottom of the front cover and the latches hold the cover in place until you're ready to remove it.



16



# MODEL SPECIFICATIONS



17

## EZ SERIES SPECIFICATIONS



		<div>NEW</div> <div>EZ71</div>	EZ98	EZ111
BTU	Min	12,800		
	Max	160k	180k	199k
UEF		0.98		
Warranty		25 Year Heat Exchanger, 5 Years Parts, 1 Year Labor		
Field Gas Conversion		Yes (Included)		
Steady BTU		Yes		
Remote Control		Built In Display (External Optional)		
Water Connections		Top		
Dimensions	Height	26.1"		
	Width	18.1"		
	Depth	11.8"		
Weight		60 lbs		
Vent Length	2"	75ft		
	3"	150ft		
	4"	65ft		
Max Elevation		10,200ft		

18

# EZ PERFORMANCE

FLOW RATES (GPM)													
Temp Rise (F)	30	40	45	50	60	70	80	90	100	110	120	130	140
EZ111DV	11.1	9.8	8.7	7.8	6.5	5.6	4.9	4.4	3.9	3.6	3.3	3.0	2.8
EZ98DV	9.8	8.6	7.7	6.9	5.7	4.9	4.3	3.8	3.4	3.1	2.9	2.7	2.5
EZ71DV	9.0	7.7	6.9	6.2	5.2	4.4	3.9	3.4	3.1	2.8	2.6	2.4	2.2



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



# INSTALLATION



# PRE-INSTALLATION CHECKS

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

## Check the gas:

- EZ71 Max btu is 160k
- 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.

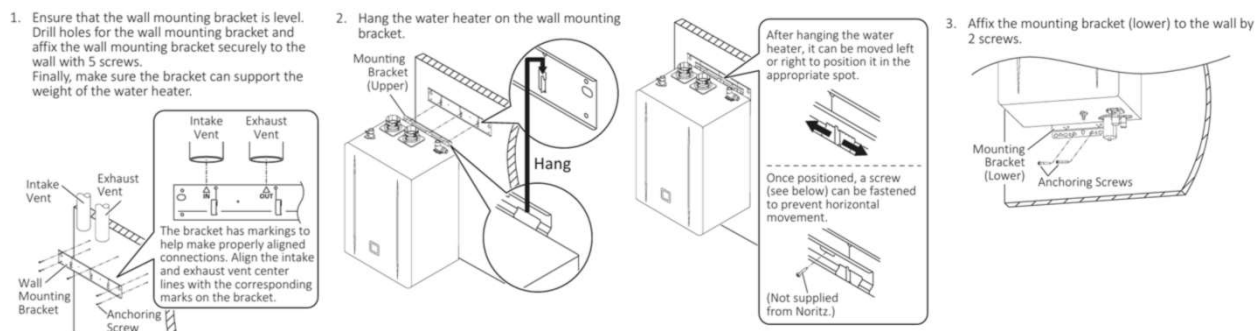
Exhaust leaks into the home may lead to injury or death. **Do not take shortcuts here.**



21

# EZ UNIT MOUNTING

Mount bracket, hang heater and shift side to side for precise alignment, secure heater.



22

## EZ VENTING OPTIONS

As with previous models, you have the ability to install the unit indoors or outdoors with a variety of venting options.



Max Vent Lengths DV or SV:  
2": 75 Feet, 3": 150 Feet, 4": 65 Feet



23

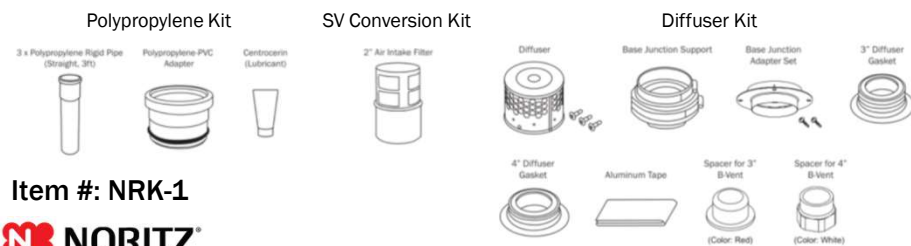
## EZ NO ROOF KIT

Have a straight run of b-vent? The No Roof Kit makes it even **EZ**er to replace a tank!

### Features:

- Faster Installation without roof access
- Up to 8.5' venting available
- Available for 3" and 4" round b-vent
- Less material waste

The No Roof Kit comes with all accessories needed for installation\*:



Item #: NRK-1



\*PVC Parts must be field supplied



24

# EZ 2 INCH FLEX VENT

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

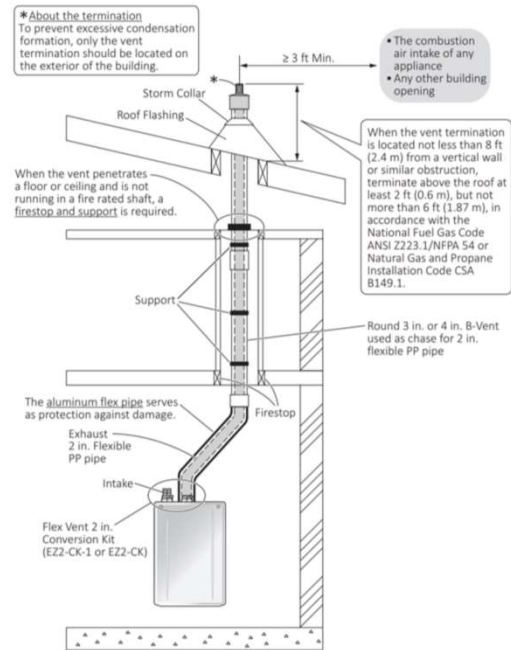
2 additional parts numbers required\*:

● **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.*



25

# INSTALLATION CLEARANCES



Verify the following before installation and *read the manual*

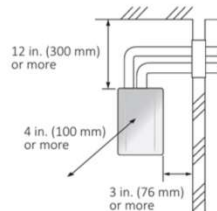
Select a proper installation location:

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

## 4.1 Indoor Installation

### Required Clearances from the Water Heater

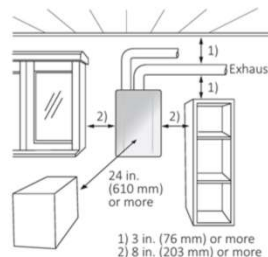
Maintain these clearances from both combustible and non-combustible materials.



Required

### Space for Inspection/Repair

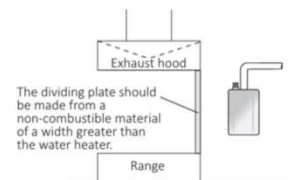
The following minimum clearances should be met to provide enough space for inspection and repair.



Recommended

### Cooking Equipment

If an indoor air supply will be utilized and the water heater will be installed in the vicinity of a permanent kitchen range or stove that may generate steam containing fats or oils, use a dividing plate or other measure to ensure that the water heater is not exposed to air containing such impurities.



Cooking Equipment

26

# INSTALLATION 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**.**

27

# EZ 1/2" GAS LINE CONDITIONS

1/2" Gas line is still an option with the new EZ Series Pro assuming an 8" WC or higher initial starting pressure. As always, make sure to follow the gas sizing tables in the installation manual.

4. Maximum Natural Gas Delivery Capacity (For 8 - 10.5 in. W.C. initial supply pressure)														
3.0 in. W.C. Pressure Drop														
Pipe Size	Length (including fittings)													
	10 ft (3 m)	20 ft (6 m)	30 ft (9 m)	40 ft (12 m)	50 ft (15 m)	60 ft (18 m)	70 ft (21 m)	80 ft (24 m)	90 ft (27 m)	100 ft (30 m)	125 ft (38 m)	150 ft (45 m)	175 ft (53 m)	200 ft (60 m)
1/2 in.	454	312	250	214	190	172	158	147	138	131	116	105	96	90
3/4 in.	949	652	524	448	397	360	331	308	289	273	242	219	202	188
1 in.	1,790	1,230	986	844	748	678	624	580	544	514	456	413	380	353
1 1/4 in.	3,670	2,520	2,030	1,730	1,540	1,390	1,280	1,190	1,120	1,060	936	848	780	726
1 1/2 in.	5,500	3,780	3,030	2,600	2,300	2,090	1,920	1,790	1,680	1,580	1,400	1,270	1,170	1,090
2 in.	10,600	7,280	5,840	5,000	4,430	4,020	3,700	3,440	3,230	3,050	2,700	2,450	2,250	2,090
2 1/2 in.	16,900	11,600	9,310	7,970	7,070	6,400	5,890	5,480	5,140	4,860	4,300	3,900	3,590	3,340



28



## 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.



29

## 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:

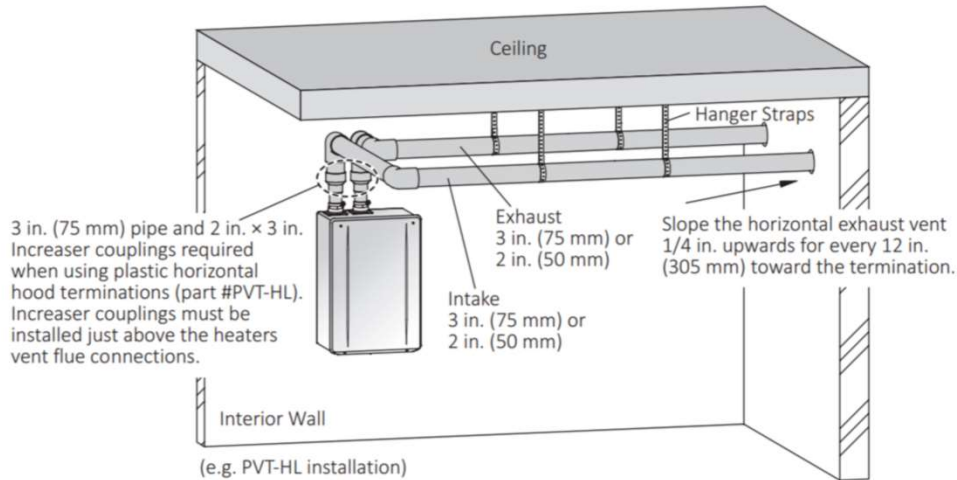
- Meter size
- Water/debris in gas line
- Earthquake safety shutoff valve (California specific)



30

# EZ VENTING GUIDELINES

Wide variety of venting options for an EZ install.



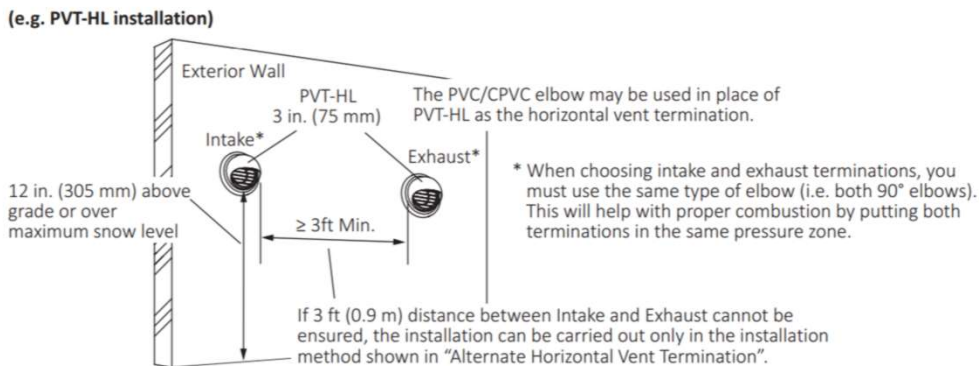
**Direct Vent Horizontal**



31

# EZ VENTING GUIDELINES

Wide variety of venting options for an EZ install.



**Direct Vent Horizontal**



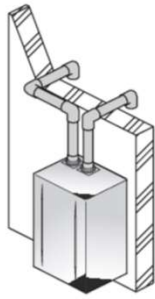
32

# EZ VENTING GUIDELINES

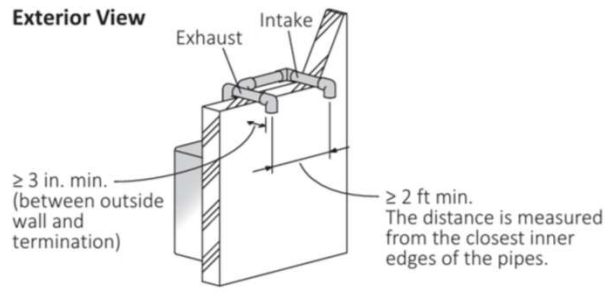
Wide variety of venting options for an EZ install.

**NOTE** Do not use hood termination (PVT-HL).

Interior View



Exterior View



**Direct Vent Horizontal  
(Option 1)**

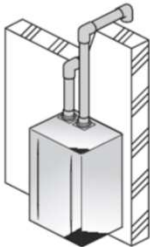


33

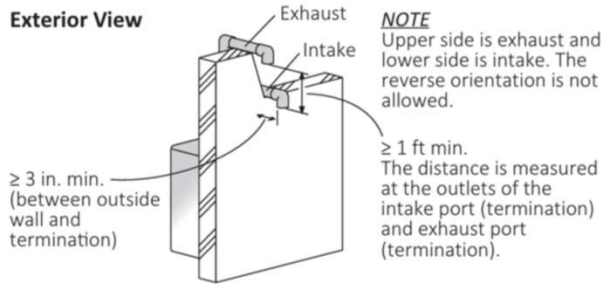
# EZ VENTING GUIDELINES

Wide variety of venting options for an EZ install.

Interior View



Exterior View



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

**Direct Vent Horizontal  
(Option 2)**

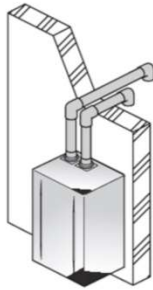


34

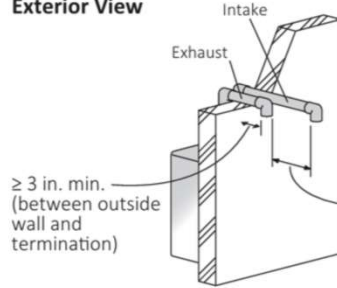
# EZ VENTING GUIDELINES

Wide variety of venting options for an EZ install.

Interior View



Exterior View



**NOTE**

The pipe farther from the wall is the intake, the pipe closer to the wall is the exhaust. The reverse orientation is not allowed.

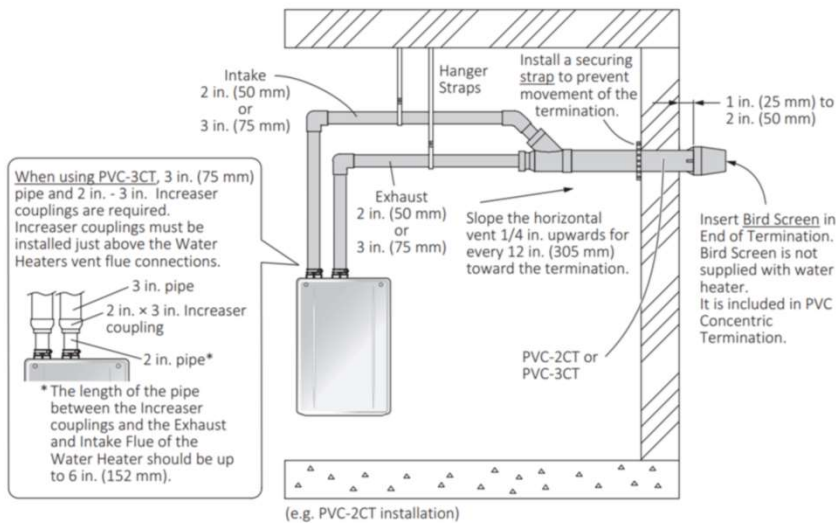
**Direct Vent Horizontal  
(Option 3)**



35

# EZ VENTING GUIDELINES

Wide variety of venting options for an EZ install.



**Direct Vent Horizontal  
(Concentric)**

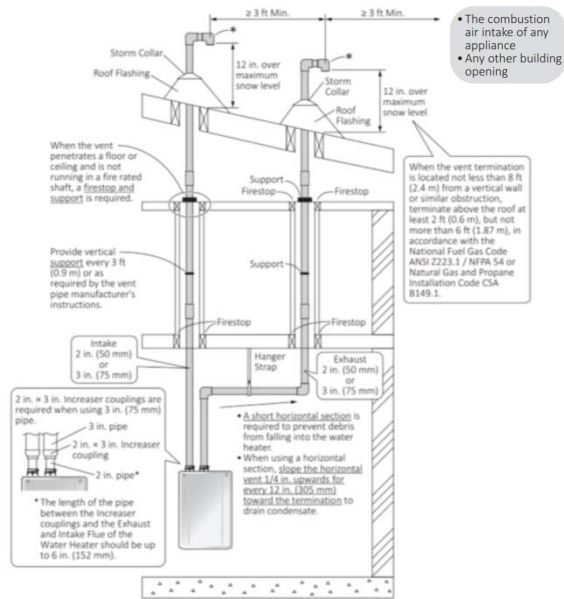


36

# EZ VENTING GUIDELINES

Wide variety of venting options for an EZ install.

## Direct Vent Vertical



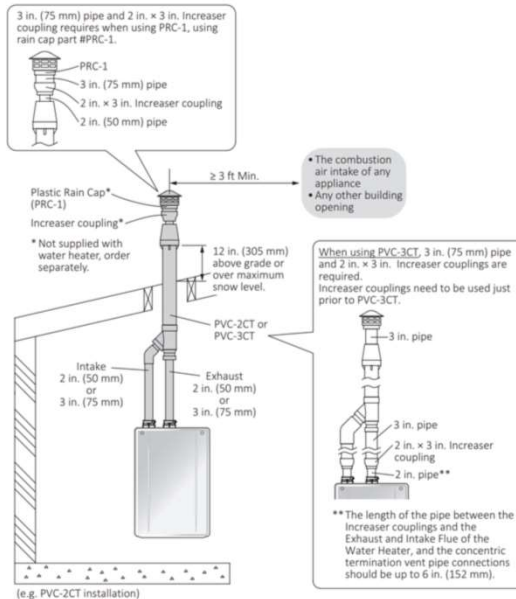
**NORITZ**  
TANKLESS WATER HEATERS

37

# EZ VENTING GUIDELINES

Wide variety of venting options for an EZ install.

## Direct Vent Vertical (Concentric)



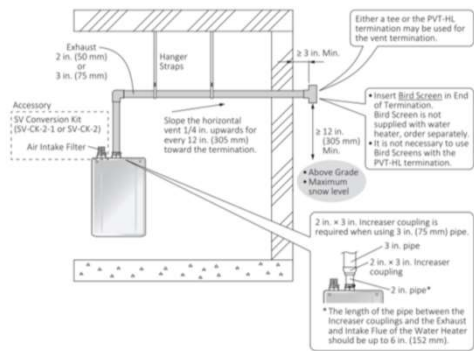
**NORITZ**  
TANKLESS WATER HEATERS

38

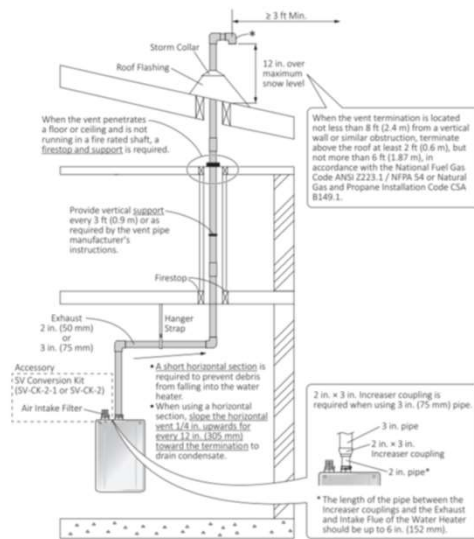
# EZ VENTING GUIDELINES

Wide variety of venting options for an EZ install.

## Single Vent



Horizontal



Vertical

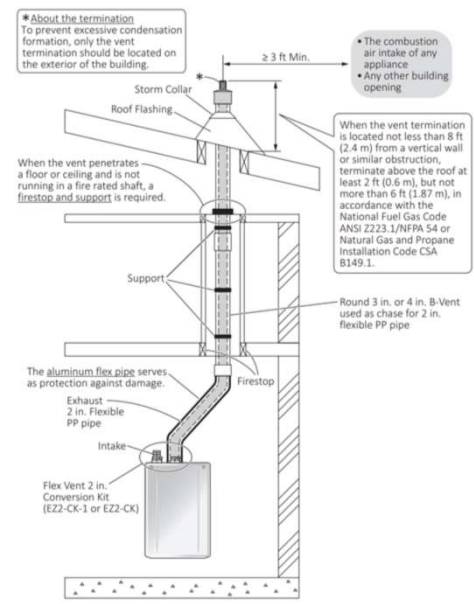


# EZ VENTING GUIDELINES

Wide variety of venting options for an EZ install.



Outdoor



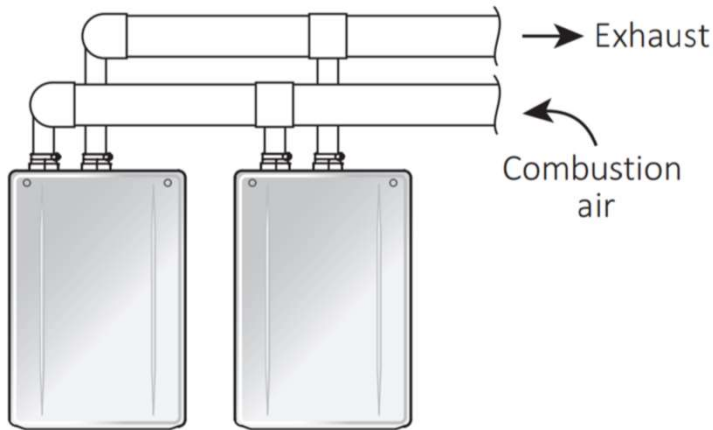
Flexible Vent





## EZ COMMON VENT

EZ installation of 2 units.



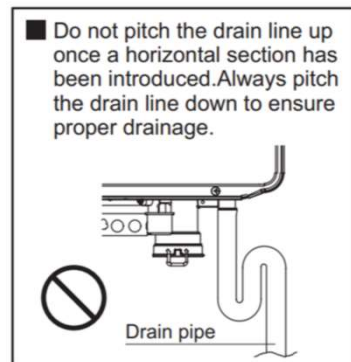
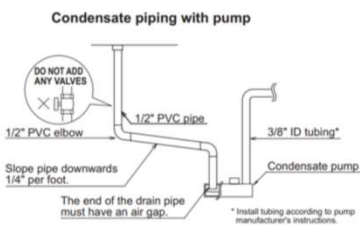
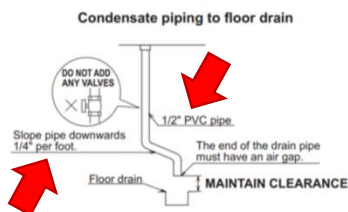
Details found in the installation manual



41

## CONDENSATE DRAIN LINE

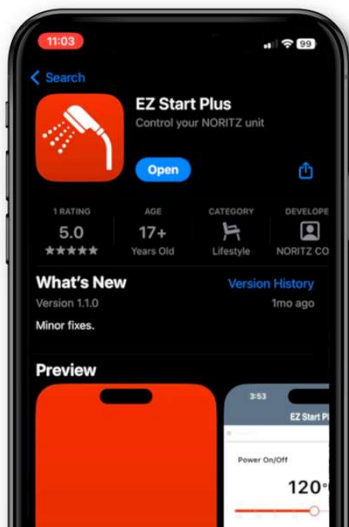
Guidelines for routing the condensate drain line.



42

# PROGRAMMING THE UNIT

The EZ Series Pro no longer has physical dipswitches on the circuit board. All programming of the unit is done with the new EZ Start Plus App or the built in display window.

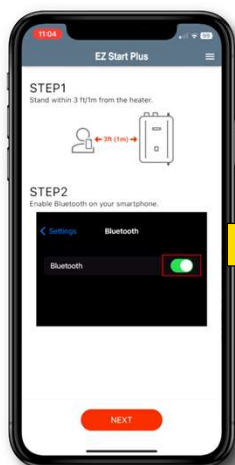


Directions can be found in the manual

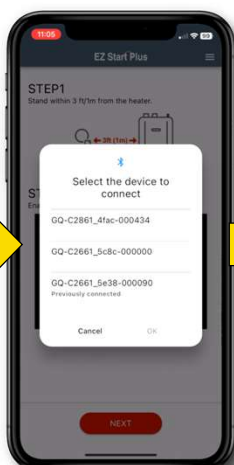
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43

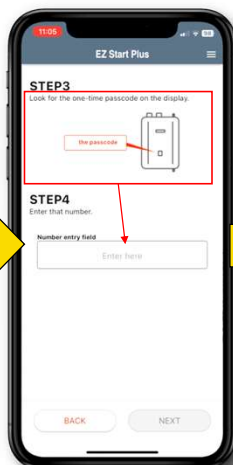
## EZ START PLUS APP



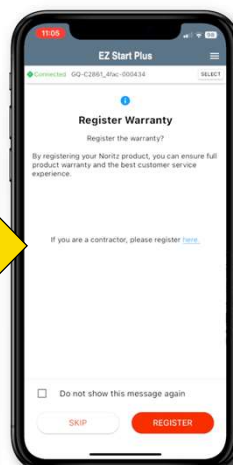
Open EZ Start Plus App and Turn on Bluetooth



Select Unit



Enter Passcode

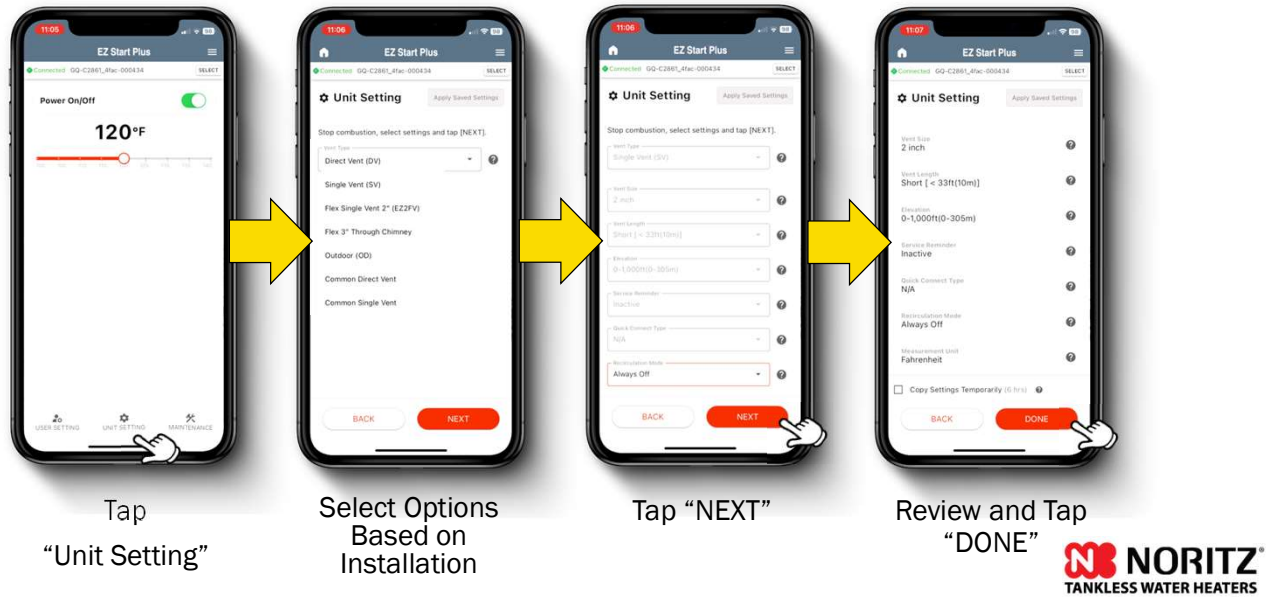


Register Warranty (or Skip)

**NORITZ**  
TANKLESS WATER HEATERS

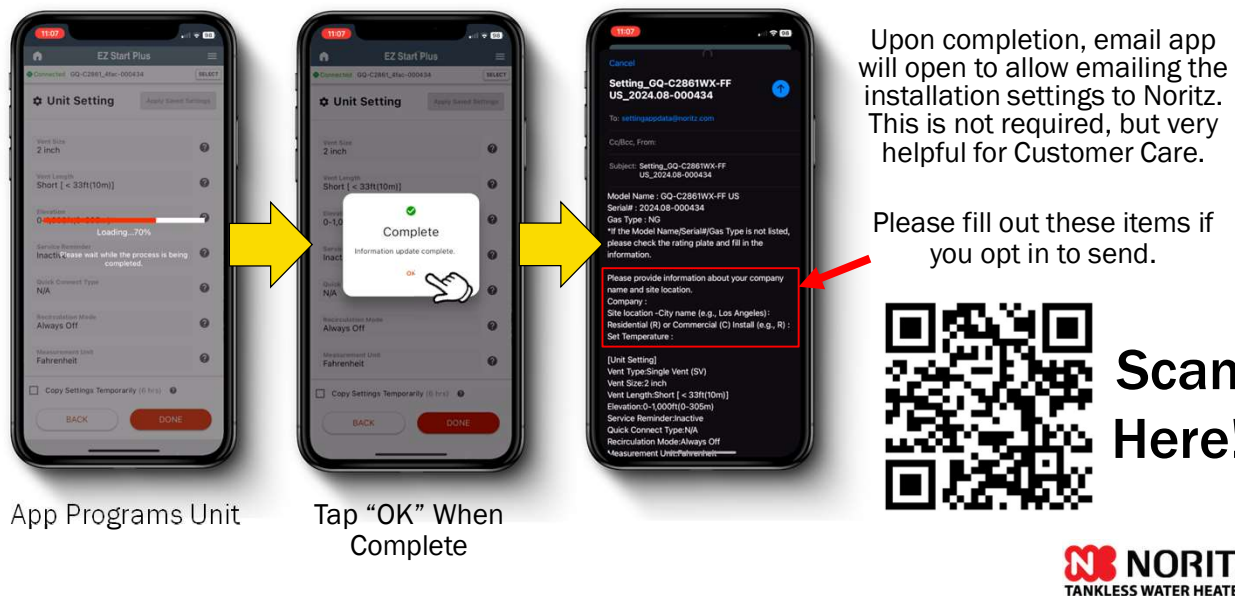
44

## EZ START PLUS APP



45

## EZ START PLUS APP



46

# BASIC MAINTENANCE

Keep the unit performing to its potential



47

## WATER QUALITY

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

If this water heater will be installed in a location where the hardness of the supply water is high, scale build-up may cause damage to the heat exchanger. Perform the suggested treatment and maintenance measures based on the water hardness level according to the below table.

Treatment Guidelines

Type of Water	Hardness Level	Treatment Device 1)	Flush Frequency 2)
Soft	0-1 gpg (0-17 mg/L)	None	None
Slightly Hard	1-3 gpg (17-51 mg/L)		
Moderately Hard	3-7 gpg (51-120 mg/L)	Scale Shield or Water Softener	Once a Year 3)
Hard	7-10 gpg (120-171 mg/L)		
Very Hard	10-12 gpg (171-200 mg/L)		
Extremely Hard	> 12 gpg (> 200 mg/L)		

- 1) When selecting a treatment device, you must consult its spec sheet and installation manual for guidelines and limitations. Not all water supplies are compatible. A water test may be required.
- 2) Install Noritz isolation valves to allow flushing.
- 3) Flushing is required if a water treatment device is not installed.



- NOTE** 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 (200 mg/L) of hardness
  - Poor water quality (See the water quality list on page 12.)
  - The display window displayed a "C1#" (service reminder)" indicating scale build-up, but the heat exchanger has not been flushed.

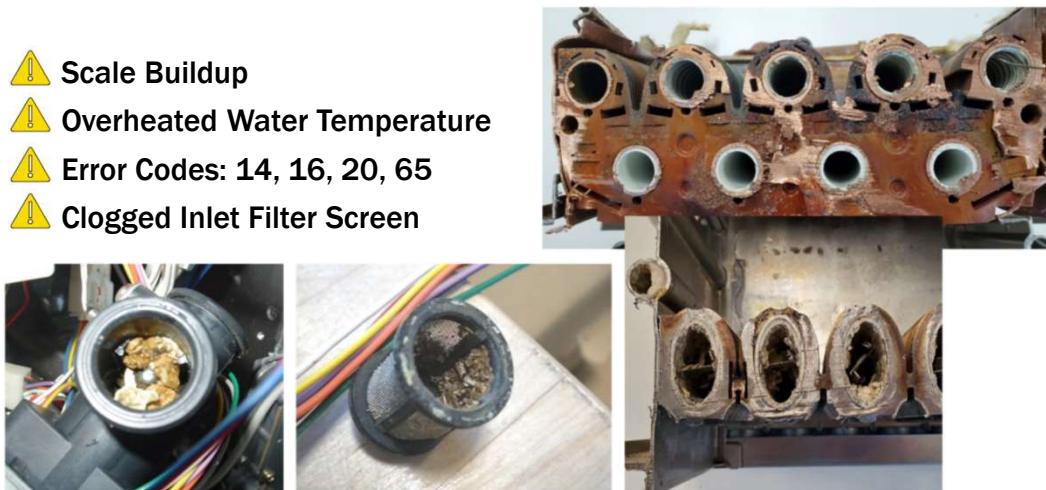


48

# POOR WATER QUALITY ISSUES

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

- ⚠ Scale Buildup
- ⚠ Overheated Water Temperature
- ⚠ Error Codes: 14, 16, 20, 65
- ⚠ Clogged Inlet Filter Screen



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TANKLESS WATER HEATERS

49

# DESCALING/FLUSHING

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



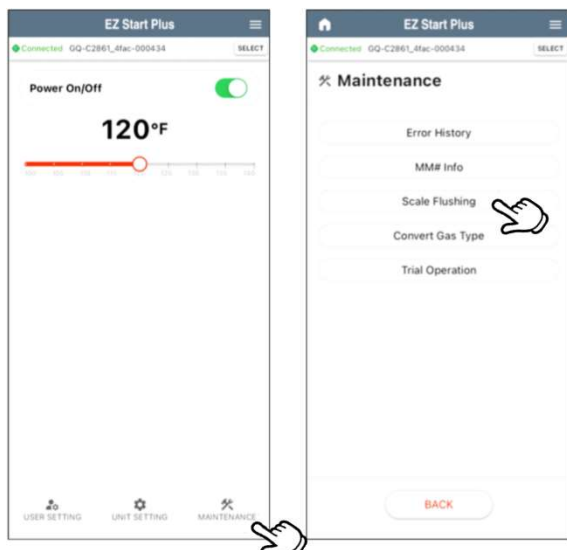
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50



# DESCALING/FLUSHING

The flush connector is gone and descale mode is started with the EZ Start Plus App or the built in display.



Directions can be found in the manual



51

## HELPFUL LINKS

**866-7NORITZ (866-766-7489)**

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



EZ Start Plus App



Gas Conversion



SUPPORT.NORITZ.COM



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HELP.NORITZ.COM



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52



# THANK YOU



53

## NOTES

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54