TITAN®

Electronic Tankless Water Heater

N120 ✔

SAVE UP TO 60% ON YOUR WATER HEATING COST

Use & Care Manual

With Installation Instructions for the Installer

The modern way to heat water

Serie SCR2



The Professional for Professionals
Electronic Tankless Water Heater
American Technology at it's Best

- Endless hot water
- Quality Design
- Space Saver
- Enviromentally friendly
- Energy Efficiency
- New digital microprocessor controller

Serie SCR3



Serie SCR4



Installation Instructions Manual

The purpose of this manual is:

1- To provide the installer with the basic directions and recommendations for the proper installation and adjustment of the water heater.
2- To explain the features, operations and safety precautions of the Titan® Electronic Tankless Water Heater to the owner-operator.

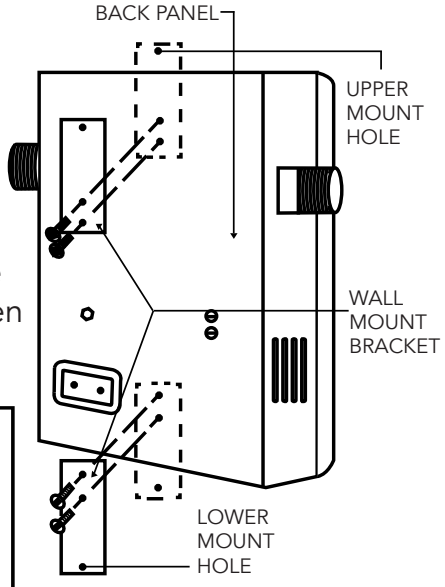
Installation of a tankless water heater is **NOT** considered a "do-it-yourself" project. The installation of a Titan electronic tankless water heater is relatively simple and can be done by any licensed plumber and electrician contractor. The instructions are very simple and specific. If your installer has any questions regarding the installation, he can contact us for assistance. See support page on our website **www.tanklesswaterheater.com**.
Be sure to read and understand the entire manual before attempting to install or operate the Titan Tankless Water Heater. It may save you time and cost. Pay particular attention to the safety instructions. Failure to follow these warnings could result in damage to the unit and to property. If you have problems understanding the instructions in this manual **STOP** and get help from a qualified professional or contact customer support.
Keep this manual in a safe place.

Installation

MOUNTING OF TITAN TANKLESS WATER HEATER

Niagara Industries supplies each heater with a mounting kit containing four (4) sheet metal screws and two (2) supporting brackets in a plastic bag.

These brackets can be attached to the back of the heater and allows the installer to secure the heater to the wall without the need to open the front cover.



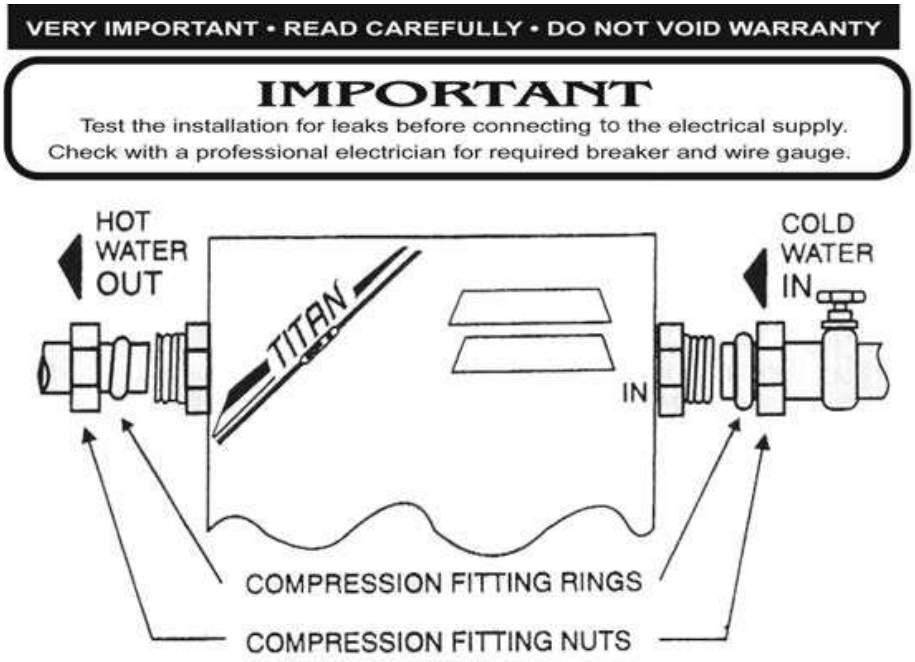
Make sure to only use only the brackets and screws that are provided in the mounting kit. The use of longer screws may damage the unit and void your warranty.

Plumbing Installation

These units are designed to be installed using copper pipes with 1/2" or 3/4"depending on the model number that is being installed.

- **Notice: Excessive heat from soldering on copper pipes near the heater may cause internal damage to the unit.**
- Always flush **all** the water lines before connecting the unit to the copper pipes.
- After the unit is installed, open each hot water faucet slowly to allow the air to vent from the water heater and piping.
- **Do not use** teflon tape or plumbing paste on compression fittings.
- For ease of service, install a shut-off valve in both the inlet and the outlet of the unit.
- Secure the unit to the wall utilizing **only the brackets and compression fittings provided by Niagara Industries.**
- All plumbing work must comply with State and Local plumbing codes.

PLEASE NOTE: When using any type of plastic pipe like Pex or CPVC you MUST install 36" of cooper pipe to both the inlet and outlet of the unit, DO NOT connect any plastic pipe directly to the unit, also when using plastic pipes you MUST install a pressure relief valve.



VERY IMPORTANT!
Use only the compression fitting ring and nut provided with each unit as shown above.

IMPORTANT: COMPRESSION FITTINGS ARE DESIGNED EXCLUSIVELY FOR THIS UNIT, DO NOT USE A DIFFERENT TYPE OF THREADED COUPLING.

Electric Installation

WARNING: Before beginning any work on the electric installation, be sure that the main breaker panel switch is **"OFF"** to avoid any danger of electric shock. All mounting and plumbing must be completed before proceeding with electrical hook-up. All electrical work must comply with national and applicable state and local electrical codes.
As with any electric appliance, failure to electrically ground unit may result in serious injury.

The breaker should be of same size than the energy consumption of the model being installed.

Make sure that all the connections are tight. **DO NOT FORGET** to install the ground wire to the main breaker panel.
Before you energize the unit, allow water to circulate during approximately 20 seconds to make sure the unit doesn't work dry, which may damage the heating elements.

Do not attempt to repair or replace any part of the tankless water heater, a licensed qualified technician should be contacted to diagnose any problem.

The Titan tankless water heater must be installed in accordance with these instructions and local codes. In the absence of local codes, use the newer edition of the **National Electric Code**.



TAMPERING WITH THE UNITS ELECTRONIC MODE, BREAKING THE SEAL OR REMOVING CONNECTION PARTS WILL VOID YOUR WARRANTY



AS ALL ELECTRONIC APPLIANCE THIS UNIT MUST BE PROTECTED FROM RAIN AND WEATHER CONDITIONS

Functions of the mode and temperature control buttons.

• Mode Button (white button)

The Mode (white) button's functionality is to switch between 3 or 4 modes (depending on model) that show the performance of the water heater.

Voltage

This is the default mode and shows the voltage being consumed and the percentage it represents from the total voltage. When the voltage is at 100% the water heater is working at full capacity. As that number starts to decrease the energy savings increases. Voltage is displayed in Volts (V).

Current

The current mode shows the current being used and the percentage it represents from total current. Current is being displayed in Amps (A)

Power

The power mode shows the amount of energy being consumed. It is the result of the voltage times the current being utilized. Power is being displayed in Kilowatts (KW).

Temperature

The temperature mode is a bonus mode only available in the Titan N-160. It is intended for the users to see how hot the temperature is coming out of the water heater. Temperature is being displayed in Fahrenheit (F).

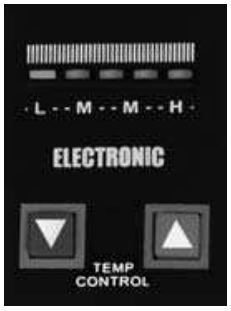
• Red Button

This button is used to increase the temperature of the water, please note that the water has to be running through the unit in order to adjust the temperature.

• Blue Button

This button is used to decrease the temperature of the water, please note that the water has to be running through the unit in order to adjust the temperature.

Please note that safety and energy conservation are factors to be considered when selecting the water temperature setting of the water heater's thermostat. The lower the setting the greater the savings in energy and operating costs.



SCR2



SCR3-4

DANGER: Households with children, disabled, or elderly persons may require a 120° F or lower thermostat setting to prevent contact with "HOT" water.

WARNING: READ BEFORE INSTALLATION OR USE OF THE TITAN TANKLESS WATER HEATER

THE USER OF THIS TANKLESS WATER HEATER AGREES THAT BEFORE INSTALLATION OR USE OF THE HEATER HE/SHE HAS READ THIS WARNING AND UNDERSTANDS ALL TERMS AND CONDITIONS, IN PARTICULAR THE LIMITATIONS OR EXCLUSIONS OF STATUTORY OR COMMON LAW WARRANTIES AND LIABILITY.

LIMITATIONS OF WARRANTIES AND LIABILITIES:

THE END USER IS AWARE THAT THE MANUFACTURER AND AUTHORIZED DEALERS OF THIS TANKLESS WATER HEATER CAN NOT GUARANTEE THAT IT WILL NOT SUFFER A WATER LEAK OVER TIME. ITS LIFE DEPENDS GREATLY ON THE WATER QUALITY AND PROPER INSTALLATION.
NIAGARA INDUSTRIES INC. AND ITS AUTHORIZED DEALERS ARE NOT LIABLE TO END USERS OR THIRD PARTIES FOR INCIDENTAL, CONSEQUENTIAL, SPECIAL OR CONTINGENT DAMAGES OR EXPENSES ARISING DIRECTLY OR INDIRECTLY FROM ANY STRUCTURAL FAILURE OF THE WATER HEATER. THE LIMIT OF LIABILITY SHALL BE TO REPAIR OR REPLACE THE TANKLESS WATER HEATER DURING THE WARRANTY PERIOD AT THE MANUFACTURE DISCRETION. NO OTHER WARRANTIES APPLY. THERE ARE NO OTHER EXPRESS OR IMPLIED WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

PLEASE RETURN THE WATER HEATER TO THE PLACE OF PURCHASE FOR A FULL REFUND IF THESE TERMS OF THE WARRANTY ARE NOT ACCEPTABLE.

CAUTION: Titan Tankless Water Heaters are manufactured with materials that are resistant to corrosion due to poor water quality and galvanic corrosion. However, the water quality in your area among other things may have an effect on these materials. Sediment build-up inside the unit can also occur thereby reducing the life of the water heater. Galvanic corrosion may occur if the water heater is not properly installed with material designed to reduce or eliminate this possibility. Therefore, it is important that your water heater is install by a licensed professional who will consider these factors and recommend ways for you to extend the life of the heater and reduce or eliminate the possibility of a malfunction resulting in leaks and expensive water damage to your home or office. It is highly recommended that the heater will be installed in an area that provides sufficient water drainage to prevent damage to the walls, baseboards, appliances and other fixtures in your home. If no floor drainage is available, a drip pan with a minimum of 1 inch depth should be installed bellow the water heater and connected to a suitable drain.
Alternatively, a proper leak detection system and shut-off components should be incorporated in the installation of the water heater to turn off your water supply in the event of a leak.
Consult your licensed professional installer for additional recommendations on how to prevent extensive water damage to your home in the event of a leak.

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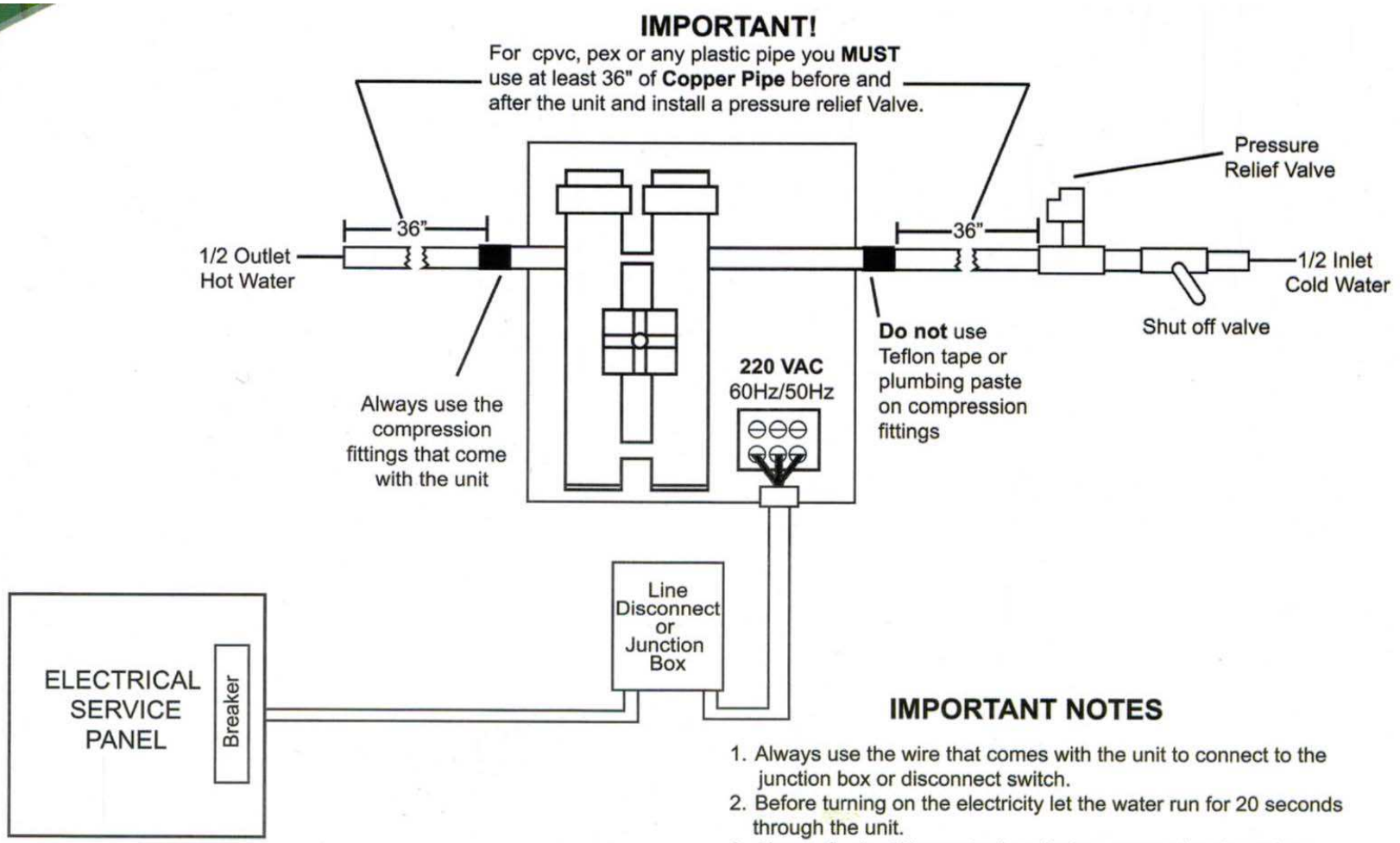
UNIT SPECIFICATIONS AND TEMPERATURE RISE CHART

MODEL	MAXFLOW	KW/HR	VOLTS	AMPS	BREAKER	WIRE	1.0 gpm	1.5 gmp	2.0 gpm	2.5 gpm	3.0 gpm	3.5 gpm	4.0 gpm	4.5gpm	5.0gpm
N-10	1.5 gpm	3.2	110	29	30	10ga	24 deg	16 deg	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N-42	2 gpm	4.2	220	19	20	12ga	33 deg	22 deg	17 deg	N/A	N/A	N/A	N/A	N/A	N/A
N-64	2.5 gpm	6.5	220	29	30	10ga	51 deg	35 deg	26 deg	21 deg	N/A	N/A	N/A	N/A	N/A
N-75	2.8 gpm	7.5	220	34	40	8ga	60 deg	40 deg	30 deg	24 deg	N/A	N/A	N/A	N/A	N/A
N-85	3.0 gpm	8.5	220	38	40	8ga	69 deg	46 deg	34 deg	28 deg	23 deg	N/A	N/A	N/A	N/A
N-100	3.5 gpm	10.8	220	49	50	6ga	87 deg	58 deg	44 deg	35 deg	29 deg	25 deg	N/A	N/A	N/A
N-120	4.0 gpm	11.8	220	54	60	6ga	95 deg	64 deg	48 deg	38 deg	32 deg	28 deg	24 deg	N/A	N/A
N-160	4.0 gpm	16	240	66	70	6ga	109 deg	73 deg	55 deg	44 deg	36 deg	31 deg	27 deg	N/A	N/A
N-180	5.0 gpm	18	240	75	2x40	8ga	122 deg	81 deg	61 deg	49 deg	41 deg	35 deg	31 deg	27 deg	25 deg
N-210	5.0 gpm	21	240	88	2x50	6ga	143 deg	95 deg	71 deg	57 deg	48 deg	41 deg	38 deg	32 deg	29 deg
N-270	5.0 gpm	27	240	112	2x60	6ga	180 deg	118 deg	86 deg	66 deg	54 deg	46 deg	44 deg	40 deg	36 deg

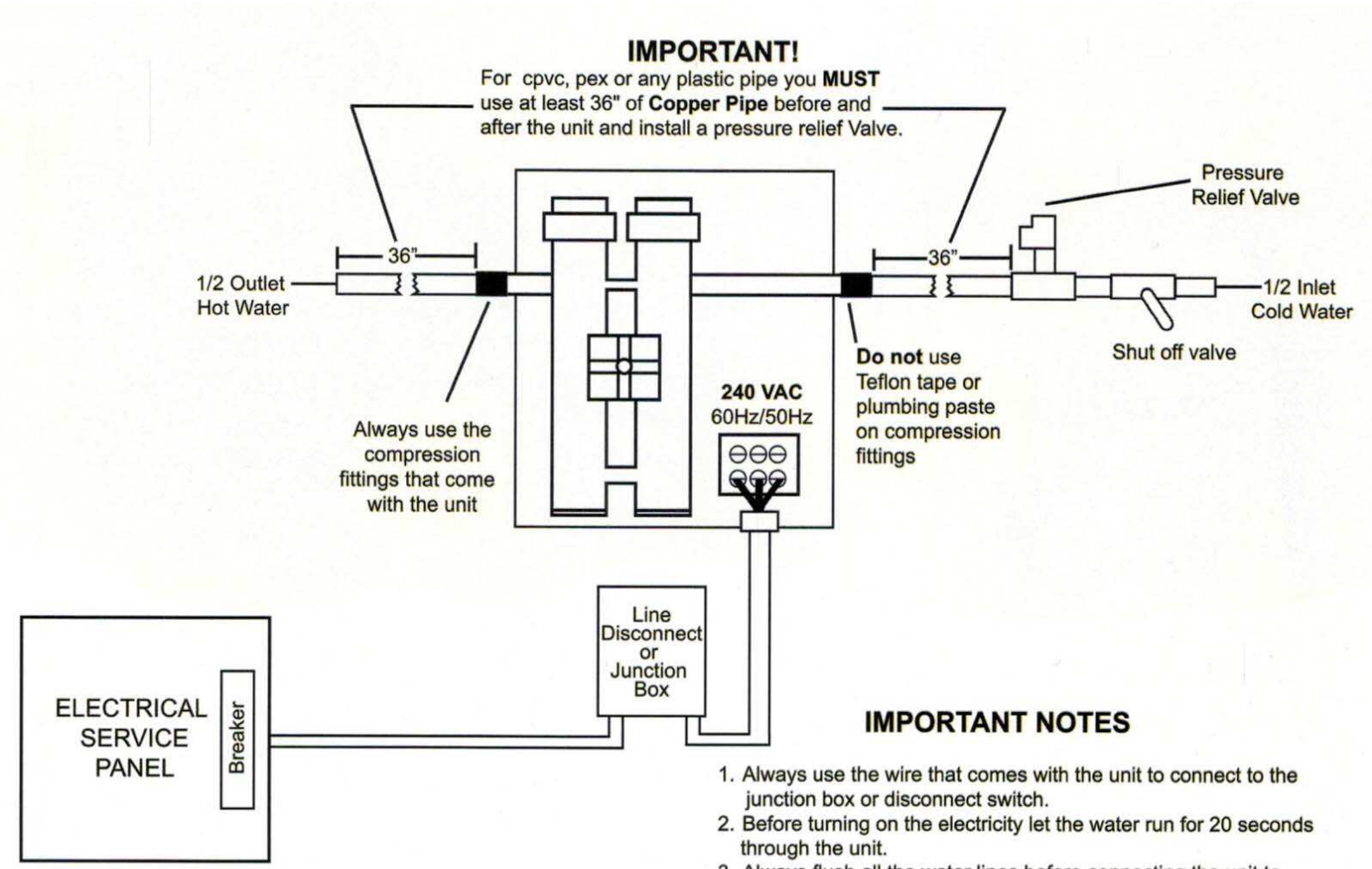
INSTALLATION DIAGRAM FOR TITAN SCR2 SERIES



IMPORTANT NOTES

1. Always use the wire that comes with the unit to connect to the junction box or disconnect switch.
2. Before turning on the electricity let the water run for 20 seconds through the unit.
3. Always flush all the water lines before connecting the unit to the copper pipes.
4. Note that excessive heat from soldering on copper pipes near the heater may cause internal damage.
5. **DO NOT OPEN** the unit under any circumstances unless you contact a technician at Niagara Industries to diagnose the problem.

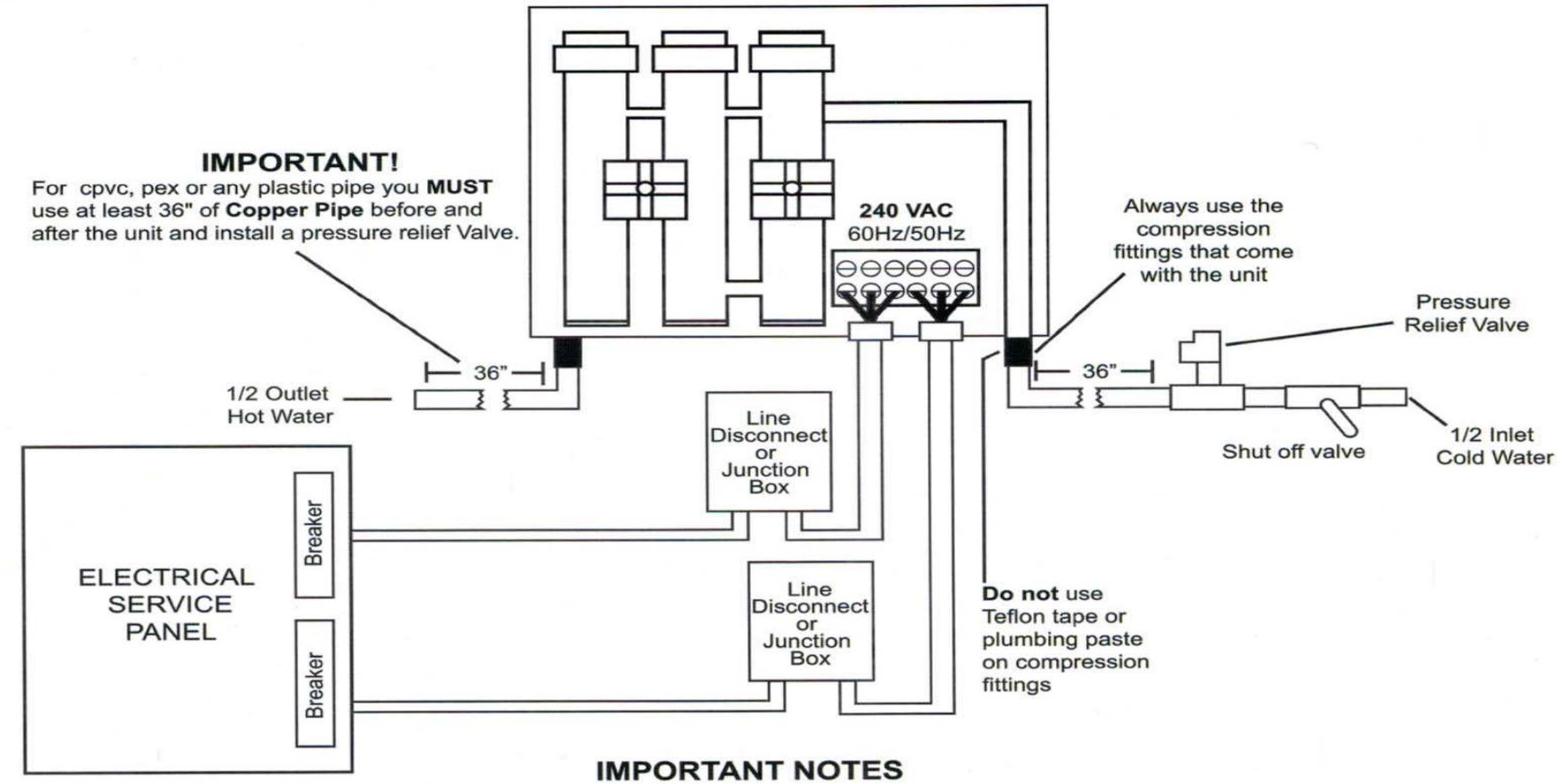
INSTALLATION DIAGRAM FOR TITAN SCR3 SERIES



IMPORTANT NOTES

1. Always use the wire that comes with the unit to connect to the junction box or disconnect switch.
2. Before turning on the electricity let the water run for 20 seconds through the unit.
3. Always flush all the water lines before connecting the unit to the copper pipes.
4. Note that excessive heat from soldering on copper pipes near the heater may cause internal damage.
5. **DO NOT OPEN** the unit under any circumstances unless you contact a technician at Niagara Industries to diagnose the problem.

INSTALLATION DIAGRAM FOR TITAN SCR4 SERIES



IMPORTANT NOTES

1. Always use the wire that comes with the unit to connect to the junction box or disconnect switch.
2. Before turning on the electricity let the water run for 20 seconds through the unit.
3. Always flush all the water lines before connecting the unit to the copper pipes.
4. Note that excessive heat from soldering on copper pipes near the heater may cause internal damage.
5. **DO NOT OPEN** the unit under any circumstances unless you contact a technician at Niagara Industries to diagnose the problem.

NOTES:

TITAN ELECTRONIC TANKLESS WATER HEATER
REGISTRATION WARRANTY CERTIFICATE

Keep this information for your records and mail the provided Post-card in this brochure to activate your warranty.

THE ELECTRONIC TANKLESS WATER HEATER is warranted to the original purchaser to be free from defects in material and workmanship for the warranty period set forth below.

This 10 Year Limited Warranty shall be valid only after the attached Registration Warranty Certificate is completed and signed by the original purchaser and mailed to Niagara Industries Inc, within thirty (30) days of the original purchase date.

The manufacturer will repair or replace, at its option and Free of Charge during a period of One (1) year from the original purchase date, any Titan Tankless Water Heater which proves defective on any electronic or electric part under normal installation, use and service. In addition to the one year warranty, the manufacturer will also provide a 10 Year Warranty on any leaking casing proven to be defective under normal installation, use and service. In both cases the Titan Tankless Water Heater must be returned accompanied by a copy of the purchaser receipt, and when applicable, repair or replacement charge prepaid to Niagara Industries Inc.

Any damage to the Titan Electronic Tankless Water Heater, as a result of misuse, abuse, improper installation, non-authorized repair or alteration to the unit, or any violation of instructions provided by the manufacturer, will void this warranty.

EXCEPT AS SPECIFICALLY PROVIDED HEREIN, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED THAT COULD EXTEND BEYOND THE APPLICABLE WARRANTY PERIODS SPECIFIED PRIVIOUSLY. IN NO EVENT SHALL NIAGARA INDUSTRIES INC OR ANY AUTHORIZED AGENT BE LIABLE FOR LOSS OF PROFITS, INDIRECT, ESPECIAL CONSEQUENTIAL OR OTHER SIMILAR DAMAGES ARISING OUT OF ANY BREACH OF THIS WARRANTY.

This Limited Warranty gives you specific legal rights, and you may have other rights depending on the State of residence.

NIAGARA INDUSTRIES™
Where water meets technology

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