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› VELPAX Propane Tankless Water Heater User Manual

## VELPAX VX-CT06

# VELPAX Propane Tankless Water Heater User Manual

Model: VX-CT06

Brand: VELPAX

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient operation, installation, and maintenance of your VELPAX Propane Tankless Water Heater. Please read this manual thoroughly before installation or use and keep it for future reference. This compact tankless water heater is designed to provide on-demand hot water for various applications, saving space and energy compared to traditional tank models.

It efficiently meets both bathroom and kitchen hot water demands without the need for an expansion tank. Note: In cold weather, drain residual water by opening the pressure relief valve if the unit will not be used for an extended period to prevent freezing damage.

## 2. SAFETY INFORMATION

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**WARNING:** Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.

- Ensure proper ventilation and install a smoke exhaust pipe as required for safe operation.
- This unit is designed exclusively for use with propane (LPG). Do not attempt to use with natural gas or any other fuel type.
- Always check for gas leaks after installation and during maintenance.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- Keep children and pets away from the appliance during operation.
- In cold weather, drain residual water by opening the pressure relief valve if the unit will not be used for an extended period to prevent freezing damage.
- The appliance features multiple safety protections including flame failure device, anti-freeze protection, and overheating protection. However, these do not replace proper installation and vigilance.

# MULTIPLE PROTECTIONS

Install your heater as close to a vent or chimney as possible



Image: Overview of the VELPAX tankless water heater highlighting its multiple safety features including Flame Out Protection, Water-Gas Interlock, Dry-burning Protection, Delay Ignition Protection, Anti-Freezing Protection, Water Flow Stabilization, Overheat Protection, and 20-Min Overtime Protection.

## 3. PRODUCT FEATURES

- **Tankless Design:** Saves over 50% of space compared to traditional tank models, ideal for homes, small cabins, and remote apartments.
- **High Efficiency:** 81,888 BTU per hour output, providing on-demand hot water for 2–3 points of use simultaneously.
- **Flow Rate:** Delivers up to 4.21 gallons per minute (GPM) of hot water.
- **Temperature Control:** LED smart digital display allows temperature adjustments between 95°F and 149°F.
- **Durable Construction:** Crafted with a stainless steel body for superior temperature and corrosion resistance, and an oxygen-free copper water tank for minimal heat loss and extended service life.
- **Low Water Pressure Startup:** Operates with just 3.6 PSI of water pressure.
- **Advanced Combustion:** Minimizes gas consumption and reduces operational noise.

- **Multi-Protection System:** Includes flame failure device, anti-freeze protection, overheating protection, dry-burning protection, water-gas interlock, delay ignition protection, water flow stabilization, and 20-minute overtime protection.

# CONSTANT TEMPERATURE WITHOUT COLDNESS

Instant start, efficient combustion, provide hot water anytime, anywhere

## OXYGEN-FREE COPPER WATER TANK

High heat exchange efficiency  
high temperature and corrosion resistance



## DC INVERTER FAN

Resistant to high winds, avoiding extreme weather backing up and extinguishing, increasing oxygen and stabilising combustion.



## INVERTER WATER SERVO

Highly accurate adjustment of water volume and release of line hydraulics



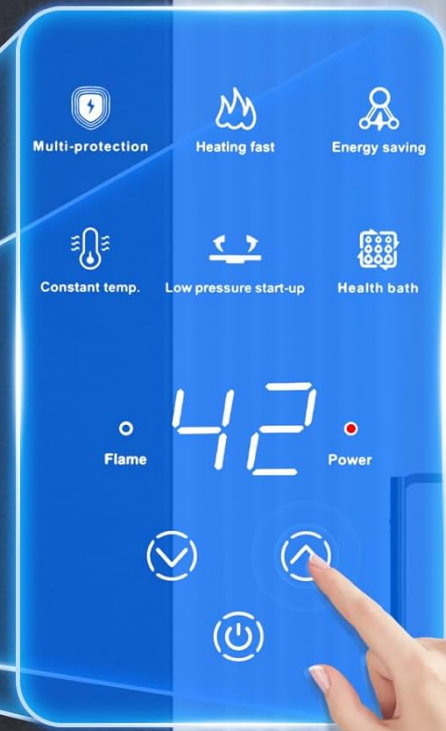
## MULTI-FUNCTIONAL AND INTELLIGENT PCB

35°C~65°C Constant temperature, the temperature difference is only +/-1°C



*Image: Detailed view of the internal components of the VELPAX tankless water heater, illustrating the Oxygen-Free Copper Water Tank for high heat exchange efficiency, the DC Inverter Fan for wind resistance and stable combustion, the Inverter Water Servo for precise water volume adjustment, and the Multi-Functional and Intelligent PCB for constant temperature control.*

# INTELLIGENT AND CLEAR TOUCH SCREEN



## OUR WATER HEATERS

- Constant supply of hot water
- Water and gas can be adjusted individually
- Supplied with accessory hose and pipe
- Energy efficient with more safety protection

## TRADITIONAL WATER HEATER

- Long heating time
- Not individually adjustable
- Only a pipe for smoke evacuation
- Continuous gas consumption

Image: The VELPAX tankless water heater showcasing its intelligent and clear touch screen display, which provides controls for multi-protection, fast heating, energy saving, constant temperature, low pressure start-up, and health bath modes. It also highlights the benefits of VELPAX water heaters over traditional ones, such as constant hot water supply, individual water and gas adjustment, accessory supply, and energy efficiency with more safety.

# 16L CAPACITY WATER HEATER Supply for Whole House

Kitchen and bathroom use at the same time, still enjoy the surging water flow, easy to meet the water use of large households

Washing Machine

Shower

Bathtub

Bathtub

Shower

Kitchen Sink

Washing Machine

±1°C Temperature Fluctuation

Temp

1°C

0°C

-1°C

Our

Their

Time

Image: Illustration of the 16L capacity VELPAX water heater providing hot water for an entire house, including simultaneous use for kitchen sinks, showers, bathtubs, and washing machines. It also includes a graph demonstrating the stable temperature output of the VELPAX unit compared to traditional heaters.

## 4. SPECIFICATIONS

Attribute	Value
Brand	VELPAX
Model Number	VX-CT06
Style	16L, Propane
Colour	White
Power Source	Propane (LPG)
Rated Heat Load	24 KW (81,888 BTU/hr)
Hot Water Output	4.21 GPM (16 L/min)
Inlet Gas Pressure	2.8 KPa
Suitable Water Pressure	0.02–0.8 MPa (3.6 PSI minimum)
Ignition Type	Automatic
Power Supply	110V, 60HZ
Temperature Range	95°F - 149°F (35°C - 65°C)
Product Dimensions	35.05 x 35.05 x 55.12 cm (13.8 x 13.8 x 21.7 inches)
Item Weight	10.7 kg (23.6 lbs)
Included Components	Water Heater, standard 1/2" NPT water fittings, gas pipe, inlet and outlet water pipe, 2.5" horizontal vent pipe.
UPC	717710198452

# PRODUCTS PECIFICATION

Length:13.8inch Width:5.9inch Height:21.7inch

Inlet Gas Pressure

2.8 KPa

Type of Gas

Propane/LPG

Suitable Water Pressure

0.02~0.8 MPa

Ignition Type

Automatic

Power Supply

110V, 60HZ

Rated Heat Load

24 KW



Image: Detailed product specifications including length, width, height, inlet gas pressure, type of gas (Propane/LPG), suitable water pressure, ignition type, power supply, and rated heat load, alongside a dimensional diagram of the VELPAX tankless water heater.

## 5. SETUP AND INSTALLATION

The VELPAX tankless propane water heater is designed for quick and hassle-free setup. It comes equipped with standard 1/2" NPT water fittings, gas pipe, inlet and outlet water pipe, and a 2.5" horizontal vent pipe for easy installation. For safe operation, ensure proper ventilation and install a smoke exhaust pipe as required.

### 5.1. Pre-Installation Checklist

- Verify that the installation location is well-ventilated and meets local codes for gas appliances.
- Ensure you have all necessary tools and additional plumbing/gas fittings if required.
- Confirm the gas supply is Propane (LPG) and matches the unit's requirements.
- Check water pressure is within the suitable range (0.02–0.8 MPa).

### 5.2. Installation Steps

1. **Mounting:** Securely mount the water heater to a sturdy wall using appropriate fasteners. Ensure it is level and

accessible for maintenance.

2. **Ventilation:** Install the 2.5" horizontal vent pipe according to local building codes to ensure proper exhaust of combustion gases.
3. **Gas Connection:** Connect the propane gas supply line to the G1/2 Gas Inlet. Use appropriate gas-rated sealant and check for leaks after connection.
4. **Water Connections:**
  - Connect the cold water supply to the G1/2 Water Inlet.
  - Connect the hot water outlet to the G1/2 Water Outlet.
  - Ensure all water connections are tight to prevent leaks. The air and water hoses can be easily connected with a small portable spanner.
5. **Power Connection:** Plug the power cable into a standard 110V, 60Hz electrical outlet.
6. **Initial Startup:** Before turning on the gas, open a hot water faucet to purge air from the water lines. Once water flows steadily, close the faucet. Then, slowly open the gas supply valve to the unit.



Image: The VELPAX tankless water heater displayed alongside its complete set of installation accessories, including the vent pipe, flexible gas hose, and water inlet/outlet hoses, demonstrating the comprehensive package for easy setup.



Image: Detailed view of the top connections of the VELPAX tankless water heater, showing the G1/2 Water Outlet, G1/2 Gas Inlet, Power Cable, and G1/2 Water Inlet. Insets demonstrate how to connect hoses with a spanner and how to rotate the valve to adjust water volume.

## 6. OPERATING INSTRUCTIONS

Your VELPAX tankless water heater features an intelligent and clear touch screen for easy operation and temperature control.

### 6.1. Powering On/Off

- Press the **Power** button (usually indicated by a circle with a vertical line) on the digital display to turn the unit on or off.

### 6.2. Adjusting Temperature

- Use the **Up** (▲) and **Down** (▼) arrow buttons on the digital display to adjust the desired hot water

temperature. The temperature can be set between 95°F and 149°F.

- The display will show the current temperature setting.

### 6.3. Hot Water Delivery

- Once the unit is powered on and the desired temperature is set, simply open any hot water faucet in your home. The water heater will automatically ignite and begin heating water on demand.
- The unit will stop heating when the hot water faucet is closed.

### 6.4. Digital Display Indicators

The digital display provides real-time information and status indicators:

- **Temperature Display:** Shows the current output water temperature in Fahrenheit.
- **Flame Indicator:** Illuminates when the burner is active.
- **Error Codes:** If an issue occurs, an error code may be displayed. Refer to the Troubleshooting section for common codes and solutions.

## 7. MAINTENANCE

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Regular maintenance ensures the longevity and efficient operation of your tankless water heater. Always disconnect power and turn off the gas supply before performing any maintenance.

### 7.1. Annual Maintenance

- **Descaling:** Depending on your water hardness, the unit may require descaling to remove mineral buildup in the heat exchanger. This typically involves circulating a descaling solution through the unit. Consult a qualified technician for this procedure if you are unsure.
- **Ventilation System Check:** Inspect the vent pipe for any obstructions, corrosion, or damage. Ensure it is securely connected and free of leaks.
- **Gas Line Inspection:** Check all gas connections for leaks using a soapy water solution. Bubbles indicate a leak. Tighten connections or replace components as necessary.
- **Water Filter Cleaning (if applicable):** Some units may have an inlet water filter. Clean or replace it as per manufacturer recommendations to maintain water flow.

### 7.2. Cold Weather Precautions

If the unit will not be used for an extended period during cold weather, it is crucial to drain residual water to prevent freezing and damage to the heat exchanger and pipes.

1. Turn off the gas supply to the water heater.
2. Turn off the cold water supply to the water heater.
3. Open a hot water faucet in your home to relieve pressure.
4. Locate the pressure relief valve on the water heater and open it to drain the unit. Allow all water to drain completely.
5. Once drained, close the pressure relief valve and the hot water faucet.

## 8. TROUBLESHOOTING

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Before calling for service, please review the following common issues and their solutions.

Problem	Possible Cause	Solution
No hot water / Unit not igniting	No gas supply, low water pressure, power off, clogged inlet filter, flame sensor issue.	Check gas valve, ensure minimum water pressure (3.6 PSI), verify power connection, clean water filter, contact technician if flame sensor is suspected.
Water not hot enough	Temperature setting too low, excessive flow rate, mineral buildup in heat exchanger.	Increase temperature setting on display, reduce water flow at faucet, descale unit.
Unit cycles on and off rapidly	Insufficient water flow, air in lines, overheating protection activated.	Ensure adequate water flow, purge air from lines, check for obstructions in water lines.
Gas smell	Gas leak.	<b>IMMEDIATELY</b> turn off gas supply, open windows, evacuate premises, and contact a qualified gas technician or emergency services. Do not operate electrical switches.
Error Code displayed	Specific internal fault.	Consult the full manufacturer's manual for specific error code definitions. If not available, power cycle the unit. If the error persists, contact customer support.

## 9. WARRANTY AND SUPPORT

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For warranty information, technical support, or service inquiries, please contact VELPAX customer service. Keep your purchase receipt and model number (VX-CT06) handy when contacting support.

Contact information can typically be found on the manufacturer's official website or on the product packaging.