WAIWELA

5.3 SERIES

LIGHT DUTY RESIDENTIAL GAS TANKLESS WATER HEATER

FREE

Lifetime Technical Support
1.800.605.6542

RELIABILITY

With an average lifetime of 20 years or more, you can be sure your tankless water heater will pay for itself in energy savings alone.

EASY INSTALLATION

- With Tankless Installation Valves (TIV)
- Compact wall-mounted design saves valuable floor space
- Versatile venting

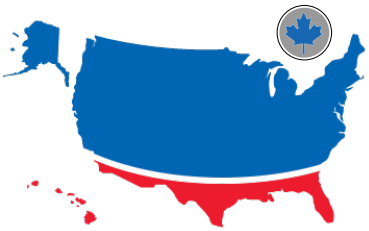
HIGHER STANDARDS

- Low NOx Emissions
- Safety Engineered
- Energy Efficient
- Built-in Diagnostics & Usage Record

ENERGY EFFICIENCY

- Government Tests Show that WaiWela 5.3 Series Tankless Water Heaters use:
  - 29% less energy than most 50 gallon tank-type heaters
  - 40% less energy than most 100 gallon tank-type heaters
- 82%(Nat.)/84%(LP) Efficiency Rating; DOE Energy factor of 0.82.
- Uses energy only when hot water is demanded.

HOT WATER PERFORMANCE



COLD CLIMATE PERFORMANCE*

*2 simultaneous uses in a cold climate

WARM CLIMATE PERFORMANCE**

**Up to 3 simultaneous uses in a warm climate

Temperature Rise (°F)	35	45	50	60	70	77	80	90	100
Gallons Per Minute	6.8	5.3	4.7	3.9	3.4	3.1	3.0	2.6	2.4
Gallons Per Hour	408	318	282	234	204	186	180	156	144

Above estimates are for sizing purposes only

SAFETY ENGINEERING

WaiWela's 5.3 Series includes safety engineering not found on other brands, such as:

- **ICAD™:** Our proprietary safety system that constantly monitors combustion for evidence of unsafe carbon monoxide (on all indoor and direct vent models).
- **Overheat Limiter Wrap:** Resin film surrounds the combustion chamber, detecting overheating(on all models).
- **Flame Failure Safety Monitor:** Flame Rods ensure proper firing and detect flame failure.
- **Anti-Scald Protection:** Bath Controller maximum temperature 120°F. When on, Bath Controller takes priority. While hot water is running, Bath Controller maximum temperature cannot be raised above 112°F.
- **Anti-Boil Protection:** Temperature Sensor.
- **Freeze Protection to -20°F**

CONVENIENCE

- **Digital controller** changes temperature settings immediately and precisely with the touch of a button and functions as a diagnostic display.
- **Endless Hot Water** Never run out of hot water again.

RESIDENTIAL WARRANTY

- 12 Year Limited Warranty on Heat Exchanger
- 5 Year Limited Warranty on Parts
- 1 Year Limited Warranty on Service

ENERGY STAR

ICAD™ CO SAFETY Paloma ENGINEERED

MULTIready scalable systems

DUOnex™ ready

Up to $300 Home Energy Improvement Federal Tax Credit

5.3 SERIES

WAIWELA Gas Tankless Water Heater

SPECIFICATIONS

MODELS AND VENTING

INDOOR

NATURAL GAS
PH-20R IFSN
PROPANE
PH-20R IFSP

OUTDOOR

NATURAL GAS
PH-20R OFN
PROPANE
PH-20R OFP

INDOOR DIRECT VENT
SEALED COMBUSTION

NATURAL GAS
PH-20R DVSN
PROPANE
PH-20R DVSP

BTU Input Range Indoor	21,600~145,000Nat./141,000LP (fully modulating)
BTU Input Range Outdoor	21,600 ~ 141,000 (fully modulating)
BTU Input Range Direct Vent	21,600 ~ 141,000 / 135,000 LP (fully modulating)
Maximum Hot Water Output	6.8 GPM (35° rise at 30 psi)
Minimum Flow for Ignition	0.66 GPM
Dimensions (inches)	13 3/4 (w) x 20 1/2 (h) x 5 5/6 (d)
Working Water Pressure	14 ~ 150 psi
Temperature Range	100 ~ 140°F
Gas Connection	3/4" NPT Female (w/ included gas shutoff value)
Water Connection	3/4" NPT Male
Efficiency Rating	82% Nat.; 84% LP
DOE Energy Factor	0.82
Gas Inlet Pressure	Natural Gas: Min 4.5" W.C.; Max. 10.5" W.C.
(Outdoor and Direct Vent Models)	LP Gas: Min. 10.0" W.C.; Max 14.0" W.C.
Gas Inlet Pressure	Natural Gas: Min 4.8" W.C.; Max. 10.5" W.C.
(Indoor Model)	LP Gas: Min. 9.5" W.C.; Max 13.5" W.C.
Low NOx compliant	Yes (SCAQMD Rule 1146.2)
Electrical Requirement	110 - 120 V/60 Hz AC, 2 Amps
Power Cord (Except Outdoor)	10-foot. 3-pin indoor power cord (pre-installed)
Freeze Protection	(-20°F) (including windchill factor)
Controller/Diagnostic Display	UMC-117 (included)
Electronic Manifold Ready?	Yes: 2 to 20 units (use MIC-180 Controller)
DUOnex™ Ready?	Yes: 2 units with DUOnex™ Cable
Gas Shutoff Valve	Included
Vent Requirement (Indoor)	3" Category III stainless steel venting required
Vent Requirement (Direct Vent)	3/5" Concentric Category III stainless steel venting req.
Vent Maximum Length	31.5 feet (with three 90° elbows)
Net Weight	35 lbs.

THE WAIWELA STORY

WaiWela* is proud to be affiliated with Paloma Industries, LTD. WaiWela is represented by Efficient Technology Sales, LLC (ETS) in the USA & Canada. With over 30 years of tankless experience, we are dedicated to providing our customers with products high in comfort, economy, efficiency and reliability.

Paloma was the first gas tankless water heater manufacturer to enter the U.S. market more than 30 years ago, and continues to be the leader in the development of safe gas technology.

* Prounounced "Vi Vela" - Hawaiian for "hot water"

FEATURES

- Endless hot water on demand
- Energy-Saving Design: Heats Water Only When Needed
- Energy efficiency - 30% more efficient than tank-type water heaters
- Compact, space-saving design
- Self-diagnostic program
- UMC-117 Main Digital remote control
- Remote control displays adjustable temperature settings
- May be installed as part of a circulating water system
- Double the performance with DUOnex™
- 2-to-20 unit systems with MIC-180 Controller
- Supports both horizontal and vertical centing

ACCESSORIES

- **USC1-117** First Bath Controller
- **USC2-117** Second Bath Controller
- **DUOnex™** Cable for 2-Unit System
- **Pipe Cover**
- **Recessed Box** (outdoor Model)
- **MIC-180** Controller for 2 to 6 Unit Systems
- **MICS-180** Expansion Board for 7 to 20 Unit Systems
- **MIC Communication Cable**: 16 foot, 32 foot, 65 foot lengths
- **High Altitude** Adjustment Chips
- **Special Vent Terminations**
- **TIV** Tankless Installation Valves
- **UN-CLOG-IT** Descaling Kit

IN THE BOX

- One WaiWela Tankless Unit
- One Digital Controller
- One Gas Shutoff Valve
- Attached 10ft. Power Cord (indoor and direct vent models)
- Operating/Installation Manual

AVAILABLE LOCALLY AT:

FOR MORE INFORMATION, VISIT WWW.WAIWELA.COM OR CALL 800.605.6542

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