

WAIWELA

Quality Water Heaters

By **Paloma**

Residential Direct Vent Models
TANKLESS Gas Water Heater

PH-28 R DVSN (Natural Gas)

PH-28 R DVSP (L.P. Gas)

Produces ENDLESS Hot Water

Small to Big Capacity!
 (19,000 ~ 199,900 Btu/H)

*First Tankless Water Heaters
 Equipped With Oxygen Depletion
 Safety Device & Unique Film Type
 Overheat Limiter!*



- Saves energy by heating water only when you need it.
- Energy-efficient design eliminates standby heat loss.
- Continuous hot water – *7.4 gallons per minutes at 45°F temperature rise.* Never runs out.
- Compact, space saving design.
- Paloma Oxygen Depletion Safety Device

- Paloma Film Type Overheat Limiter
- Intelligent electronic controls designed to increase energy efficiency and safety
- Built-in electric blower
- Low NOx emissions meet SCAQMD rule 1146 requirements
- 10-year limited warranty on heat exchanger and 3-year limited warranty on parts (Residential Application) (For other use, ask Paloma dealer for detail.)

Digital Remote Controls



USC1-117 & USC2-117 – Bath Remote Control is intended to be installed in bathroom area.

Temperature Adjusting Range: 100°F ~ 120°F

UMC-117 – Main Remote Control is intended to be installed in kitchen, laundry or utility room.

Temperature Adjusting Range: 100°F ~ 120°F (Max. 140°F)

One Main Remote Control (UMC-117) comes with each unit.

Three remote controls (one main remote control and two bath remote controls) can be installed together.

DIGITAL DISPLAY – Easy Setting

Allows you to set temperature of hot water to your needs. The LED will display error codes and necessary maintenance information for easier maintenance procedures.

SELF DIAGNOSTIC PROGRAM – The unit runs its own diagnostic program to obtain necessary information to analyze errors.

Maximum Hot Water Flow Rate and Temperature Rise

Temp. Rise (°F)	45	50	60	70	80	90	100
Water Flow (GPM)	7.4	6.7	5.6	4.8	4.2	3.7	3.4

Circulating Function & Light Commercial Use

This water heater may be installed in a part of circulating systems and also for light commercial use.

Direct vent horizontally or vertically

This water heater has a built in electric blower to force the exhaust gas to the outside.

“Category III” stainless steel venting material (UL 1738 certified) is required in order to avoid damage from possible condensation.

Type “B” vents are not permitted.

Your nearest Paloma dealer:

SPECIFICATIONS (Approx.) (Tentative)

(As of January 23, 2006)

Model	PH-28 R DVSN (Natural Gas) PH-28 R DVSP (L.P. Gas)		
Rated Gas Input (Btu/Hr.)	19,000 (Min.) 199,900 (Max.)(Modulating)		
Installation	Direct Vent Indoor Wall Mounting Type Vent Horizontally (side-Wall) or Vertically		
Dimensions (in.)	14 7/8 (W) x 25 3/8 (H) x 11 1/8 (D)		
Net Weight (lbs.)	55		
Working Water Pressure	14 psi (Min.); 150 psi (Max.)		
Min. Water Flow	0.66 Gallon/Minute		
Max. Flow Rate	7.4 GPM at 45°F Temperature Rise, 23 psi		
Gas Connection	3/4 " NPT Female (With Supplied Gas Shutoff Valve)		
Water Connection	3/4 " NPT Male		
Manifold Pressure (in. w.c.)	Contact your distributor, dealer whom you purchased or Paloma		
Vent Type	Dual Pipe		
Vent Size	4" Exhaust (Special Venting) x 4" Intake (Stainless or Plastic)		
Efficiency Rating	84%		
Energy Factor	0.82		
Inlet Gas Pressure before water heater	Natural Gas: Min. 4.0"w.c.; Max. 10.5"w.c. (Do not exceed L.P. Gas: Min. 8.0"w.c.; Max. 14.0"w.c. maximum pressure.)		
Hot Water Supply	Factory Setting	100°F ~ 120°F	
	Adjusting Range	Main Control	100°F ~ 120°F (140°F)
		Bath Control	100°F ~ 120°F
Max. Setting	Up to 140°F (With Main Remote Control & Dip Switch)		
Combustion	System	Fan Assisted Combustion	
	Main Burner	Bunsen Type Burner	
	Ignition	Electric Continuous Sparking	
Electrical Portion	Electrical Rating	120 VAC/60Hz, Less than 2 Amps	
	Wire	3 Pin Power Supply Cord 10 Feet (Indoor)	
	Fuse	3A Fuse x 2	
	Fan Motor	Turbo Fan	
Safety Devices	Oxygen Depletion Safety Device	Sensing Burner (Indoor Model Only)	
	Over Heat Limiter for Heat Exchanger	Film Type Over Heat Limiter for Entire Heat Exchanger	
	Flame Failure Safety Device	Flame Rod Type	
Max. Vent Length	4" 37 Feet 6 Inches Three 90 Deg Elbows		
Freeze Protection	Minus 30°F (Without Wind-Chill Factor)		
Remote Controller	One Digital Main Remote Control (UMC-117) is included.		
Optional Accessory	Digital First Bath Remote Control (USC1-117)		
	Digital Second Bath Remote Control (USC2-117)		

Special Venting (adapter, vent pipe, elbow, vent terminal, etc.) should be UL 1738 Certified Category III Stainless Steel Venting Material (e.g. AL29-4C). **"B" vent is not permitted.**

This is the tentative specifications. Since we are constantly improving our products, all specifications are subject to change without notice.

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