

# Paloma®



## Residential TANKLESS Gas Water Heater Produces ENDLESS Hot Water



PH-28RIFS (Indoor) PH-28ROF (Outdoor)

**Small to Big Capacity!**  
**(19,000 ~ 199,900 Btu/H)**  
**Indoor and Outdoor Models Available!**

**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 1121 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 Bath Remote Control (USC1-117) 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.

**Your nearest Paloma dealer:**

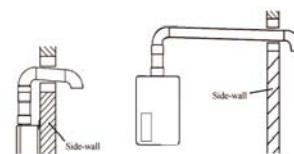


#### **Indoor models vent horizontally or vertically**

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.**



For vertical venting:  
Consult your supplier for more information.

## SPECIFICATIONS (Approx.)

Model	PH-28RIFSN (Natural Gas) PH-28RIFSP (L.P. Gas)	PH-28ROFN (Natural Gas) PH-28ROFP (L.P. Gas)	
Purpose	Hot Water Supply & Circulating		
Rated Gas Input (Btu/Hr.)	19,000 (Min.) 199,900 (Max.)(Modulating)	19,000 (Min.) 199,900 (Max.)(Modulating)	
Installation	Indoor Wall Mounting Type Side wall venting for positive pressure and possible condensation For vertical venting (Ask Paloma)	Outdoor Wall Mounting Type	
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 Size	4 " Special Venting	N/A (Outdoor installation)	
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 (With Supplied USC1-117)	
	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" 37.5 Feet Three 90 Deg Elbows	N/A (Outdoor Installation)	
Freeze Protection	Minus 30°F (Without Wind-Chill Factor)		
Remote Controller	One Digital First Bath Remote Control (USC1-117) is included.		
Optional Accessory	Digital Main Remote Control (UMC-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.**  
Since we are constantly improving our products, all specifications are subject to change without notice.

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