

High Volume / Commercial TANKLESS Gas Water Heater

PH-28CIFS (Indoor Model)

PH-28COF (Outdoor Model)

First Tankless Water Heater Equipped
With Oxygen Depletion Safety Device
In U.S.A.

Unique Film Type Overheat Limiter

**INSTANTANEOUS
ON DEMAND
CONTINUOUS
COMPACT**

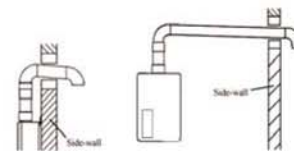
Endless Hot Water!

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.



- Modular Expandability
- 19,000 - 3.99 Million BTU's
- Temperatures up to 180°F
- Self Diagnostic Program
- Low NOx Emissions
- No Pilot Light
- OK for Circulation
- OK for Space Heating
- Serviceability without Interruption

Applications:

Commercial	Restaurant	Office
Fast-Food	Laundry	School
Car Wash	Industrial	Etc.
Apartment	Camp Ground	



Efficient Technology Sales
4975 East 41st Avenue
Denver, CO 80216
Ph: 303-339-4900
Tf: 800-605-6542
Fx: 303-339-4909
Email: sales@waiwela.com
www.waiwela.com

SPECIFICATIONS (Approx.)

Model	PH-28CIFSN Indoor (Natural Gas) PH-28CIFSP Indoor (L. P. Gas)	PH-28COFN Outdoor (Natural Gas) PH-28COFP Outdoor (L.P. Gas)	
Rated Gas Input (Btu/Hr.)	19,000 (Min.) 199,900 (Max.) (Modulating)	19,000 (Min.) 199,900 (Max.) (Modulating)	
Installation	Indoor Wall Mounting Type Vent Horizontally (Side-Wall) or Vertically	Outdoor Wall Mounting Type	
Dimensions (inches)	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 Gallons/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. L.P. Gas: Min.: 8.0" w.c.; Max.: 14.0" w.c.	(Do not exceed maximum pressure.)	
Hot Water Supply	Factory Setting	100°F ~ 120°F	
	Adjusting Range	Main Control	100°F ~ 180°F
		Bath Control	100°F ~ 120°F
Max. Setting	Up to 180°F (With Main Control & Dip Switch)		
Combustion	System	Fan Assisted Combustion	
	Main Burner	Bunsen Type Burner	
	Ignition	Electric Continuous Sparking Ignition	
Electric Portion	Electric 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)	
	Overheat Limiter for Heat Exchanger	Film Type Overheat Limiter for Entire Heat Exchanger	
	Flame Failure Safety Device	Flame Rod Type	
Max. Vent Length	37 Feet 6 Inches Three 90 Degree Elbows		
Freeze Protection	Minus 30°F (Without Wind-Chill Factor)		
Remote Control	One Digital Main Remote Control (UMC-117) is included.		
Manifold Installation	Manifold Installation 2 Units ~ 6 Units (With Optional MIC-180 Control) Manifold Installation 7 Units ~ 20 Units (With Optional MICS-180 Control) Optional Communication Cables (16, 32 & 65 feet)		
Optional Controls	Digital First Bath Remote Control (USC1-117) Digital Second Bath Remote Control (USC2-117)		

Hot Water Flow Rate and Temperature Rise							
Temperature Rise (°F)	45	50	60	70	80	90	100
Water Flow Rate (GPM)	7.4	6.7	5.6	4.8	4.2	3.7	3.4

Special Venting (Adapter, vent pipe, elbow, vent terminal, etc.) should be UL 1738 Certified Category III Stainless Steel Venting Material (e.g. AL29-4C) in order to avoid damage from possible condensation.

“B” vent is not permitted.

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