PALOMA "5.3 SERIES" TANKLESS: DIRECT VENT VERSION

For Residential and Commercial

Model Type and Version	5.3 Series Indoor Direct Vent
Natural Gas Model Name	PH-20R DVSN
LP Gas Model Name	PH-20R DVSP
BTU Input Range	20,000~141,000 (LP: ~135,000)
Maximum Hot Water Output	5.3 GPM (at 40 degree rise)
Minimum Flow for Ignition	0.66 GPM
Dimensions (inches)	13 3/4 (w) x 20 1/2 (h) x 5 5/16 (d)
Working Water Pressure	14~150 psi
Temperature Range	100~140° F
Gas Connection	3/4" NPT Female (with included gas shutoff valve)
Water Connection	3/4" NPT Male
Efficiency Rating	82% (LP: 84%)
DOE Energy Factor	0.82
Gas Inlet Pressure	Natural Gas: Min. 4.5" W.C.; Max. 10.5" W.C. LP Gas: Min. 10.0" W.C.; Max. 14.0" W.C.
Low NOX compliant (SCAQMD Rule 1146.2)	Yes
Electrical Requirement	110-120 V/60 Hz AC, 2 Amps
Freeze Protection	Minus 20° F (including windchill factor)
Controller/Diagnostic Display	UMC-117 included
Electronic Manifold-Ready?	DUOnex™ ready (2-unit internal manifold controller); 2-20 units (with system controller)
Gas Shutoff Valve	Included
Vent Requirement	3"/5" Concentric Category III stainless steel venting required.
Maximum Vent Length	30 feet (with four 90° elbows)

SAFETY ENGINEERING

Carbon Monoxide Safety	ICAD (Incomplete Combustion Avoidance Device). Proprietary Paloma technology that monitors combustion.
Heat Exchanger Overheat protection	OHL (Overheat Limiter) wrap. A resin film that surrounds the heat exchanger. When deformed by overheating, it shuts the unit down.
Flame Failure	Three separate flame rods to monitor flame failure.
Anti-boil protection	Temperature sensor
Anti-scald protection	Bath Controllers' maximum temp setting is 120°
	When ON, Bath Controllers take priority from Main Controller
	While hot water running, Bath Controllers cannot be raised up above 112°

OPTIONAL ACCESSORIES

"Main" Controller	UMC-117
"First Bath" Controller	USC1-117
"Second Bath" Controller	USC2-117
2-unit System Connection Cable	DUOnex™ Cable
Multi-Unit System Controller	MIC-180
Multi-Unit System Controller Expansion Board	MICS-180
MIC Communication Cable	MK-16, MK-32, and MK-65
High Altitude Adjustment Chips	For use at altitudes of 3,280~6,560 feet, and 6,560~9,840 feet

RESIDENTIAL BENEFITS AND FEATURES

High Operating Efficiency	***Uses 25~40% less gas*** than new 50~100 gallon gas tank water heater
Residential tax credit	***Qualifies for $300 federal tax credit*** as a high efficiency water heater. Must be installed on main residence.
Water Heating Capacity	***Supports 1 continuous*** shower year-round, plus one other fixture, in all locations. (3.3 GPM continuous at 65° rise)
SoCal/Gulf Coast Sizing Note	In Southern California and other locations with year-round inlet water temperatures above 60° F, will continuously ***support 2 simultaneous showers (5.0 GPM at 45° rise)***
Carbon monoxide safety	Paloma tankless is the creator of the Paloma ICAD, a combustion monitoring system that shuts unit down in case of elevated Carbon Monoxide levels. ***Installed on all indoor-install models.***
Meets high volume requirements	For higher volume requirements, 2 units can be manifolded using the DUOnex communication cable.
High Altitude Optimization	Paloma is the only tankless manufacturer to ***optimize combustion at high altitudes***

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