



QuickFacts

NPE Series Tankless Water Heaters

Navien certification summary Note: all NPE Models are field convertible from NG to LP gas.

Model	Product Approvals						Efficiency Ratings*			Annual Energy Consumption* (Residential)		
	CSA	NSF (Standard 5)	Low Lead (<0.25%)	SCAQMD 1146.2 (NOx, <20ppm)	AHRI Number	Energy Star	Energy Factor (EF)	Uniform Energy Factor (UEF)	Max GPM (67°F Rise)	Natural Gas (Therms/Year)	Propane (Gallons/Year)	Estimated Operating Cost**
NPE-180A-NG	Yes	Yes	Yes	Yes	6678380	Yes	0.97	0.96	4.3	176		\$192
NPE-180A-LPG	Yes	Yes	Yes	Yes	6678380	Yes	0.97	0.96	4.3		193	\$465
NPE-210A-NG	Yes	Yes	Yes	Yes	6678381	Yes	0.97	0.96	5.0	176		\$192
NPE-210A-LPG	Yes	Yes	Yes	Yes	6678381	Yes	0.97	0.96	5.0		193	\$465
NPE-240A-NG	Yes	Yes	Yes	Yes	6678382	Yes	0.97	0.96	5.6	176		\$192
NPE-240A-LPG	Yes	Yes	Yes	Yes	6678382	Yes	0.97	0.96	5.6		193	\$465
NPE-150S-NG	Yes	Yes	Yes	Yes	8235610	Yes	0.97	0.96	3.2	115		\$125
NPE-150S-LPG	Yes	Yes	Yes	Yes	8235610	Yes	0.97	0.96	3.2		126	\$304
NPE-180S-NG	Yes	Yes	Yes	Yes	6478771	Yes	0.99	0.97	4.2	175		\$191
NPE-180S-LPG	Yes	Yes	Yes	Yes	6478771	Yes	0.99	0.97	4.2		192	\$463
NPE-210S-NG	Yes	Yes	Yes	Yes	6478772	Yes	0.99	0.97	5.2	175		\$191
NPE-210S-LPG	Yes	Yes	Yes	Yes	6478772	Yes	0.99	0.97	5.2		192	\$463
NPE-240S-NG	Yes	Yes	Yes	Yes	6478773	Yes	0.99	0.97	5.7	175		\$191
NPE-240S-LPG	Yes	Yes	Yes	Yes	6478773	Yes	0.99	0.97	5.7		192	\$463

*Based on U.S. Department of Energy (DOE) test procedures.

**Based on a national average natural gas cost of \$1.09/therm, propane cost of \$2.41/gallon.

Temperature rise (maximum output)

Temp rise (°F)	NEW 150S GPM	180 series GPM	210 series GPM	240 series GPM
35	6.8	8.4	10.1	11.2
40	5.9	7.4	8.8	9.8
45	5.3	6.5	7.8	8.7
50	4.8	5.9	7.1	7.8
55	4.3	5.3	6.4	7.1
60	4.0	4.9	5.9	6.5
65	3.7	4.5	5.4	6.0
70	3.4	4.2	5.0	5.6
75	3.2	3.9	4.7	5.2
80	3.0	3.7	4.4	4.9
85	2.8	3.5	4.2	4.6
90	2.6	3.3	3.9	4.4
100	2.4	2.9	3.5	3.9
110	2.2	2.7	3.2	3.6
120	2.0	2.5	2.9	3.3
130	1.8	2.3	2.7	3.0
140	1.7	2.1	2.5	2.8

DHW capacity

Models	Natural gas (BTU/H)	Propane gas (BTU/H)
NEW NPE-150S	18,000–120,000	18,000–120,000
NPE-180 A/S series	15,000–150,000	15,000–150,000
NPE-210 A/S series	19,900–180,000	19,900–180,000
NPE-240 A/S series	19,900–199,900	19,900–199,900

Operating cost

Navien tankless	175 therms	\$191*
Other tankless	209 therms	\$228*
50 gallon tank	269 therms	\$293*

*Based on Energy Guide cost estimates using \$1.09 per therm of natural gas. Cost is in US dollars.

Warranty

Application		Labor	Parts	Heat exchanger
Residential	Standard or controlled recirculation ²	1 year	5 years	15 years
	Uncontrolled recirculation ³	1 year	3 years	5 years
Commercial or Combi ¹	Standard or controlled recirculation ² for units produced on or after Jan. 1, 2016	1 year	5 years	8 years
	Standard or controlled recirculation ² for units produced before Jan. 1, 2016	1 year	3 years	10 years
	Uncontrolled recirculation ³	1 year	3 years	3 years

¹Combi refers to a combination potable water and space heating application. Water heaters cannot be used in space heating only applications.

²Controlled-Recirculation: Recirculation through the water heater is controlled by either the water heater or an external aquastat.

³Uncontrolled-Recirculation: External pumps configured to circulate continuously through the water heater are subject to the uncontrolled recirculation warranty terms. An aquastat is the minimum pump control requirement for DHW or storage tank recirculation in order to maintain the full controlled recirculation warranty.

For complete details please refer to the full warranty at NavienInc.com.

Product features

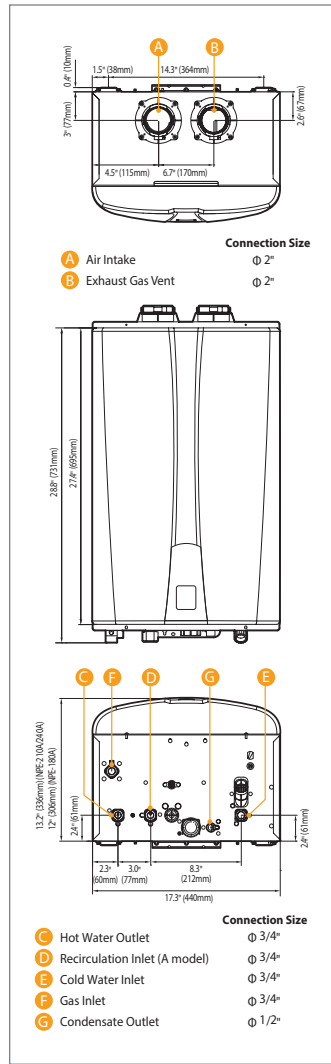
2" PVC VENTING UP TO 60 FT	2" PVC venting up to 60'
1/2" GAS CAPABILITY UP TO 24 FT	1/2" gas pipe capability up to 24' (subject to local code)
CASCADE UP TO 16 UNITS	Cascade up to 16 units without external control box
DUAL STAINLESS STEEL HEAT EXCHANGERS	Dual stainless steel heat exchangers
NG or LP FIELD GAS CONVERTIBLE	Field gas convertibility
COMFORTFLOW PUMP & BUFFER TANK	ComfortFlow Exclusive recirculation mode available on "A" Models

U.S. Green Building Council LEED Points

Water heater	Location	Recirculation
1 Point	2 Points	3 Points

Lower HERS home index score

Dimensions



Specifications

Item		Model						
		NPE-150S	NPE-180A	NPE-180S	NPE-210A	NPE-210S	NPE-240A	NPE-240S
Heat capacity (input)	Natural gas	18,000–120,000 (BTU/H)	15,000–150,000 (BTU/H)		19,900–180,000 (BTU/H)		19,900–199,900 (BTU/H)	
	Propane gas							
Efficiency ratings	UEF (NG & LP)	0.96	0.96	0.97	0.96	0.97	0.96	0.97
	EF (Canada NG & LP)	0.97	0.97	0.99	0.97	0.99	0.97	0.99
Flow rate (DHW)	35°F (19°C) temp rise	6.8 GPM (26 L/m)	8.4 GPM (32 L/m)		10.1 GPM (38 L/m)		11.2 GPM (42 L/m)	
	45°F (25°C) temp rise	5.3 GPM (20 L/m)	6.5 GPM (25 L/m)		7.8 GPM (30 L/m)		8.7 GPM (33 L/m)	
	67°F (36°C) temp rise	3.2 GPM (12 L/m)	4.3 GPM (16 L/m)	4.2 GPM (16 L/m)	5.0 GPM (19 L/m)	5.2 GPM (20 L/m)	5.6 GPM (21 L/m)	5.7 GPM (22 L/m)
Dimensions		17.3"W x 27.4"H x 13.2"D						
Weight		55lbs (25kg)	75lbs (34kg)	67lbs (30kg)	82lbs (37kg)	75lbs (34kg)	82lbs (37kg)	75lbs (34kg)
Installation type		Indoor or outdoor wall-hung						
Venting type		Forced draft direct vent						
Ignition		Electronic ignition						
Water pressure		15–150 PSI						
Natural gas supply pressure (from source)		3.5"–10.5" WC						
Propane gas supply pressure (from source)		8"–13" WC						
Natural gas manifold pressure (min-max)		-0.04" WC to -0.38" WC	-0.04" WC to -0.84" WC		-0.05" WC to -0.36" WC		-0.05" WC to -0.58" WC	
Propane gas manifold pressure (min-max)		-0.04" WC to -0.42" WC	-0.05" WC to -0.50" WC		-0.10" WC to -0.66" WC		-0.10" WC to -0.78" WC	
Minimum flow rate		0.5 GPM (1.9 L/m), < 0.01 GPM (0.04 L/m) option for "A" models*						
Connection sizes	Cold water inlet	3/4" NPT						
	Hot water outlet	3/4" NPT						
	Gas inlet	3/4" NPT						
Power supply	Main supply	120V AC, 60 Hz						
	Maximum power consumption	200W (max 2A), 350W (max 4A) with external pump connected						
Materials	Casing	Cold rolled carbon steel						
	Heat exchangers	Primary heat exchangers: stainless steel, secondary heat exchangers: stainless steel						
Venting	Exhaust	2" or 3" PVC, CPVC, PP, SS / 2" or 3" special gas vent type BH (Class II, A/B/C)						
	Intake	2" or 3" PVC, CPVC, PP, SS / 2" or 3" special gas vent type BH (Class II, A/B/C)						
	Vent clearances	0" to combustibles						
Safety devices	Flame rod, APS, ignition operation detector, water temperature high limit switch, exhaust temperature high limit sensor, power surge fuse							

*Available for "A" models configured in an optional ComfortFlow recirculation mode. Additional energy use will occur when using recirculation. Navien reserves the right to change specifications at any time without prior notice. Please refer to NavienInc.com to verify you have the most current information.

Accessories

NaviLink™ Wi-Fi Control PBCM-AS-001	H2Air™ Kit AHU Optimizer PNB0-000001	Remote Controller 30009757A	Cascade Cable GXXX000546 External Pump Wire GXXX001319	Plumb Easy Valve 3/4" with Relief Valve 30009323A	2" and 3" Wall Flange and Vent Terminator Kit 2" - 30010747A 3" - 30003873B	Vent Cap NPE Series 30010604A	Common Vent Collar Kit 30014367A
PeakFlowE™ Anti-Scale System GXXX001725 PeakFlowE™ Replacement Media GXXX001726 PeakFlow™ Replacement Media GXXX001327	Residential Neutralizer (1 unit) GXXX001322 Residential Replacement Media GXXX001323	Light Commercial Neutralizer (up to 6 units) GXXX001324 Light Commercial Replacement Media GXXX001328	Commercial Neutralizer (up to 16 units) GXXX001325 Commercial Replacement Media GXXX001329	Plumb Easy Valve 3/4" with Relief Valve Designed to work with pipe cover 30012581A	Pipe Cover NPE Series 30012634A Use with Isolation Valves 30012581A	HotButton™ Control Kit PZZZ-00046 Wall Plate GXXX001427 Push Button GXXX001426	Ready-Link® Rack Base (V2) GFFM-KDIZUS-003 Ready-Link® Rack Add-on (V2) GFFM-KDIZUS-004



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