



Premium Condensing Tankless Gas Water Heater

NPE Series Tankless Water Heaters Specification Sheet

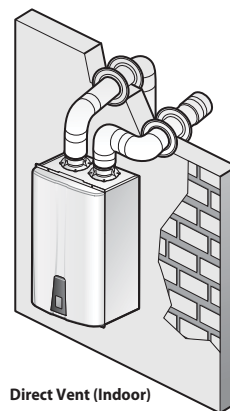
- Certified design according to **ANSI Z21.10.3/CSA 4.3-2011** standards for both indoor or outdoor installations (with optional Outdoor Vent Kit)
- Compatible with **1/2" gas pipe up to a length of 24 ft*** (*see Installation Manual for additional information)
- Compatible with **2" PVC vent up to 60 ft**** and **150 ft** using 3" PVC vent** (**with no elbows)
- Gas Input Ranges
 - NPE-180** - 150,000 to 15,000 BTUh
 - NPE-210** - 180,000 to 19,900 BTUh
 - NPE-240** - 199,900 to 19,900 BTUh
- Hot Water Flow Rate Capacity
 - NPE-180** - 8.4 GPM
 - NPE-210** - 10.1 GPM
 - NPE-240** - 11.2 GPM
- **Dual Primary and Secondary Stainless Steel Heat Exchangers** for optimum efficiency and durability
- **Built-in Control Panel** - allows adjustment of temperature settings and displays the operating status and error codes
- **ComfortFlow[™] Technology** - "A" models come included with built-in 0.5 gallon **Buffer Tank** and **Recirculation Pump** to provide maximum comfort
- **INTELLIGENT Preheating** - recognizes hot water usage patterns to intelligently provide hot water when needed (optional for "S" models)
- **Temperature Options** - available temperature settings for *Residential* applications range from 98°F up to 140°F with high temperature *Commercial* mode capable of up to 182°F
- **Ready-Link Multi-System** - up to 16 units can be cascaded together for increased hot water production
- **Reduced pressure loss** for maximum hot water output
- **Ease of Maintenance and Service** - allows for quick removal and simple repairs to waterway components such as the pump, water adjustment valve, and 2-way valve
- **Freeze Protection** - maintains normal operation during freezing ambient temperatures down to -5°F (standard on all models)
- **Energy Factor Ratings**
 - NPE-A Series** - 0.97 (NG/LPG) **NPE-S Series** - 0.99 (NG/LPG)
- Compatible with **Natural Gas (NG)** and **Propane (LPG)**** (** requires installation of included Field Conversion Kit by a qualified gas servicer)
- Approved for Installations on **Mobile/Manufactured Homes**
- Certified by **CSA, NSF 5, AHRI, AB1953** CA Low Lead, **SCAQMD** (Rule 1146.2 Type 1 - Complies with 14 ng/J or 20 ppm NOx @ 3% O2)
- **15-Year** Heat Exchanger and **5-Year** Parts Warranty (Residential)
8-Year Heat Exchanger and **3-Year** Parts Warranty (Commercial)**** (**** see Navien Limited Warranty)
- **Optional accessories** are available (see below)



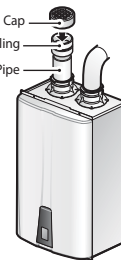
**Sleek Design - Compatible with
2" PVC Vent and 1/2" Gas Pipe**



**Built-In Control Panel
with Diagnostics**



Direct Vent (Indoor)



Non-Direct Vent (Indoor)

Indoor and Outdoor Venting Options



Non-Direct Vent (Outdoor)



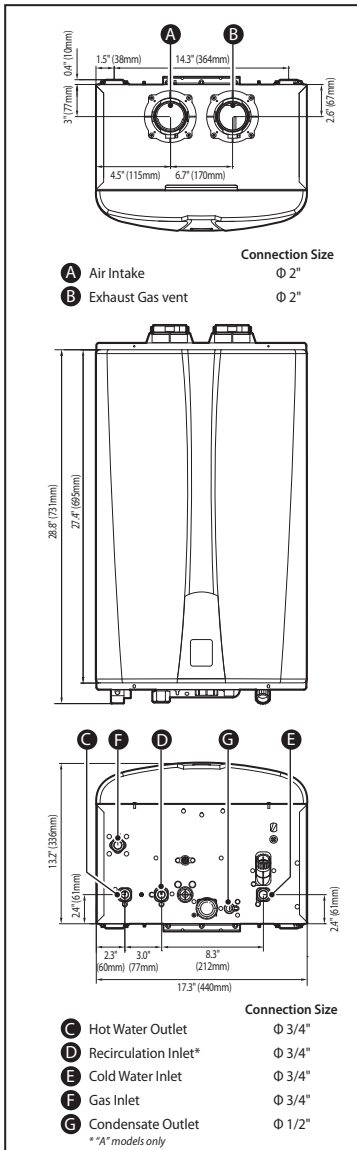
Job Name: _____
Location: _____
Engineer: _____
Wholesaler: _____
Contractor: _____
Model No.: _____
Submitted to: _____

Remote Controller NR-20DU (30009757A)	Plumb Easy Valve Set (3/4") (UA0900002A - Lead Free)	Condensate Neutralizer (GX0001322 - Single Unit) (GX0001324 - Up to 6 Units) (GX0001325 - Up to 16 Units)	Ready-Link Communication Cable (BCRA1129)	Outdoor Vent Kit (30010604A)	External Pump Wire (30011612A)	3" Vent Termination Caps and Wall Flanges (BH2535006A)

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Dimensions



Specifications

Item		NPE-180A		NPE-180S		NPE-210A		NPE-210S		NPE-240A		NPE-240S	
Heat Capacity (Input)	Natural Gas	15,000-150,000 BTU/H				19,900-180,000 BTU/H				19,900-199,900 BTU/H			
	Propane Gas	15,000-150,000 BTU/H				19,900-180,000 BTU/H				19,900-199,900 BTU/H			
Flow Rate (DHW)	35°F(19°C) Temp Rise	8.4 GPM (32 L/m)				10.1 GPM (38 L/m)				11.2 GPM (42 L/m)			
	45°F(25°C) Temp Rise	6.5 GPM (25 L/m)				7.8 GPM (30 L/m)				8.7 GPM (33 L/m)			
	77°F(43°C) Temp Rise	3.8 GPM (14 L/m)	3.9 GPM (15 L/m)		4.4 GPM (17 L/m)	4.6 GPM (17 L/m)		4.9 GPM (19 L/m)	5.1 GPM (19 L/m)				
Dimensions		17.3"(W) x 27.4"(H) x 13.2"(D)											
Weight		75 lbs (34kg)		67 lbs (30 kg)		82 lbs (37 kg)		75 lbs (34 kg)		82 lbs (37 kg)		75 lbs (34 kg)	
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)		8.0"-13.0" WC											
Natural Gas Manifold Pressure (min to max)		-0.04" WC to -0.84" WC				-0.04" WC to -0.36" WC				-0.04" WC to -0.58" WC			
Propane Gas Manifold Pressure (min to max)		-0.03" WC to -0.50" WC				-0.02" WC to -0.66" WC				-0.02" WC to -0.78" WC			
Minimum Flow Rate		0 GPM (0 L/m) for "A" models / 0.5 GPM (1.9 L/m) for "S" models											
Connection Sizes	Cold Water Inlet	3/4" NPT											
	Hot Water Outlet	3/4" NPT											
	Recirculation Inlet	3/4" NPT (on "A" models only)											
	Gas Inlet	3/4" NPT											
Power Supply	Main Supply	120V AC, 60Hz											
	Maximum Power Consumption	200W (up to 2 amperes), 350W (up to 4 amperes) with external pump connected											
Materials	Casing	Cold Rolled Carbon Steel											
	Heat Exchangers	Primary Heat Exchanger: Stainless Steel Secondary Heat Exchanger: Stainless Steel											
Venting	Exhaust	2" or 3" PVC, CPVC, Polypropylene 2" or 3" Special Gas Vent Type BH (Class II, A/B/C)											
	Intake	2" or 3" PVC, CPVC, Polypropylene 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											

Gas-fired, tankless, condensing, wall-mounted water heater(s) shall be direct vent NPE Series models as manufactured by Navien, Inc. and are certified by CSA Group to the latest edition of ANSI standard Z21.10.3/CSA 4.3. Water heater(s) shall have a 15-year limited Heat Exchanger warranty and 5-year limited Parts warranty (8-year Heat Exchanger and 3-year Parts for Commercial use) per Navien Limited Warranty. Unit(s) shall be designed to burn natural gas and can be for use with propane when a Field Conversion Kit is installed. Water heater(s) shall have a nominal flow rate capacity of _____ GPM/GPH at _____°F rise with rated input of _____ BTU/hr. Water heater(s) shall be vented with 2" PVC/CPVC vent pipe at a distance not to exceed 60' (or equivalent) with each elbow equal to 8' of pipe length or 3" PVC/CPVC vent pipe at a distance of 150' (or equivalent) with each elbow equal to 5' of pipe length. Water heater(s) is rated for 150 PSI working water pressure and 300 PSI test pressure. Gas supply pressure shall be 3.5" to 10.5" WC for natural gas and 8.0" to 13.0" WC for propane. Unit(s) shall have a steel case, dual stainless steel heat exchangers, eco premixed burner, negative pressure gas valve, dual venturi, 3/4" inlet gas connection, 3/4" brass inlet/outlet water connections, water holding capacity of 1.0 gallon for the NPE-180A model (0.7 gallons for NPE-180S model), 1.2 gallons for the NPE-210A/NPE-240A models (0.7 and 0.9 gallons for NPE-210S and NPE-240S models respectively), and a condensate collector. The NPE-180A model weighs 75 lbs (NPE-180S weighs 67 lbs), and the NPE-210A/NPE-240A models weigh 82 lbs (NPE-210S and NPE-240S weigh 75 lbs). Unit(s) shall include features such as an adjustment for installations at high elevation, temperature lockout, and temperature options from 98-120°F in 1°F intervals and 125-140°F in 5°F intervals. The unit(s) shall include additional temperature options of 150-180°F in 10°F intervals, and 182°F for high temperature commercial applications. All NPE "A" models shall include an internal circulation pump and 0.5 gallon buffer tank. The water heater(s) shall be controlled by an internal circuit board that monitors the inlet and outlet temperatures with installed thermistors, sensing and controlling flow rate to set point temperature with air-fuel ratio controls in order to maintain thermal combustion efficiency. Unit(s) shall include safety features such as flame sensor system, high limit sensors, overheat prevention device, freeze protection mode, and fan motor rotation detector. Multi-system (cascade) applications that require 2 to 16 units shall be installed by connecting the units using cable-only connections (Ready-Link). The water heater(s) exceeds the energy efficiency requirements of ASHRAE 90.1-2013 and is listed by SCAQMD rule 1146.2 (Type 1) for Low NOx that complies with 14 ng/J or 20 ppm NOx requirements @ 3% O2.

*Navien reserves the right to change specifications at any time without prior notice