

# H<sub>2</sub>Air™

## Combination heating and DHW system



Hydronic Air Handler



Domestic Hot Water



The Navien tankless water heater add-on accessory that creates an all-in-one hydronic forced-air heating and endless domestic hot water system



# Combination heating and DHW system

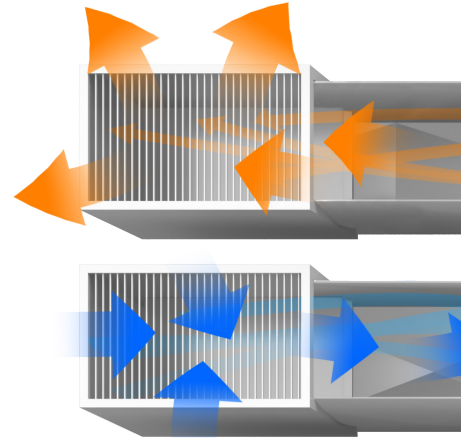
Designed for both retrofit and new construction residential applications, Navien's H2Air Kit\* allows for forced-air space heating and DHW system integration between NPE-A2 Series tankless water heater models and a hydronic air handler. Also compatible with NPE-S2 and NPN (additional parts required). With H2Air you will have a combination appliance that can provide endless domestic hot water and continuous space heating when sized correctly.

H2Air is compatible with hydronic air handler models that require W1/W2/R terminals along with single or dual-stage thermostats†. The included Outdoor Reset Sensor provides optimum performance and efficiency for space heating.



## Additional features

- DHW priority or simultaneous DHW and heating†
- Endless supply of domestic hot water
- Adjustable outdoor temperature reset and heating set points
- Adjustable pump purge timer



## H2Air kit includes

- Controller
- 13-pin connector cable
- Outdoor temperature sensor
- Flow switch for DHW

# A new use for the NPE-A2 tankless water heater integrated circulator

The H2Air Kit utilizes the NPE-A2 built-in pump to circulate the hot water for the hydronic air handler. This eliminates the need to purchase an additional circulator for the heating system.

## NPE-A2 condensing tankless is easy to sell, easy to install

### Cuts installation time in half

Thanks to using 1/2" gas pipe (subject to local code) and 2" PVC venting, you can install a Navien tankless water heater in about half the time as competitive tankless heaters — about the same time as a traditional tank heater.

### Fewer callbacks, longer life, faster heating

Navien was first to offer dual stainless steel heat exchangers, rather than copper, which extends the life by resisting corrosion.

### Energy Star highly rated gas water heater

The NPE-A2 is one of the most energy efficient tankless water heater series in the industry. Our ultra condensing technology delivers cooled exhaust gas and high performance up to 0.95 UEF.

1/2" GAS CAPABILITY UP TO 24 FT

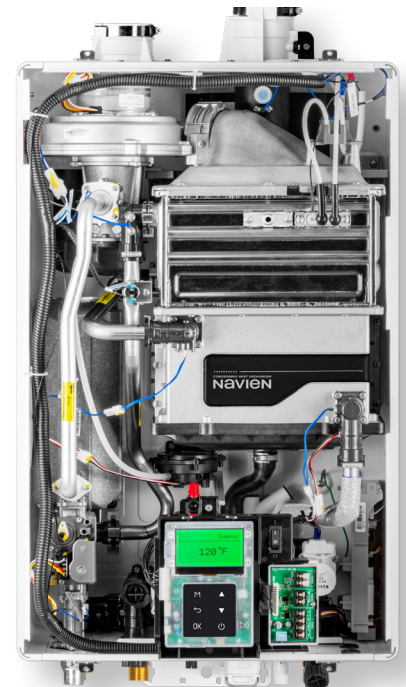
2" PVC VENTING UP TO 75 FT

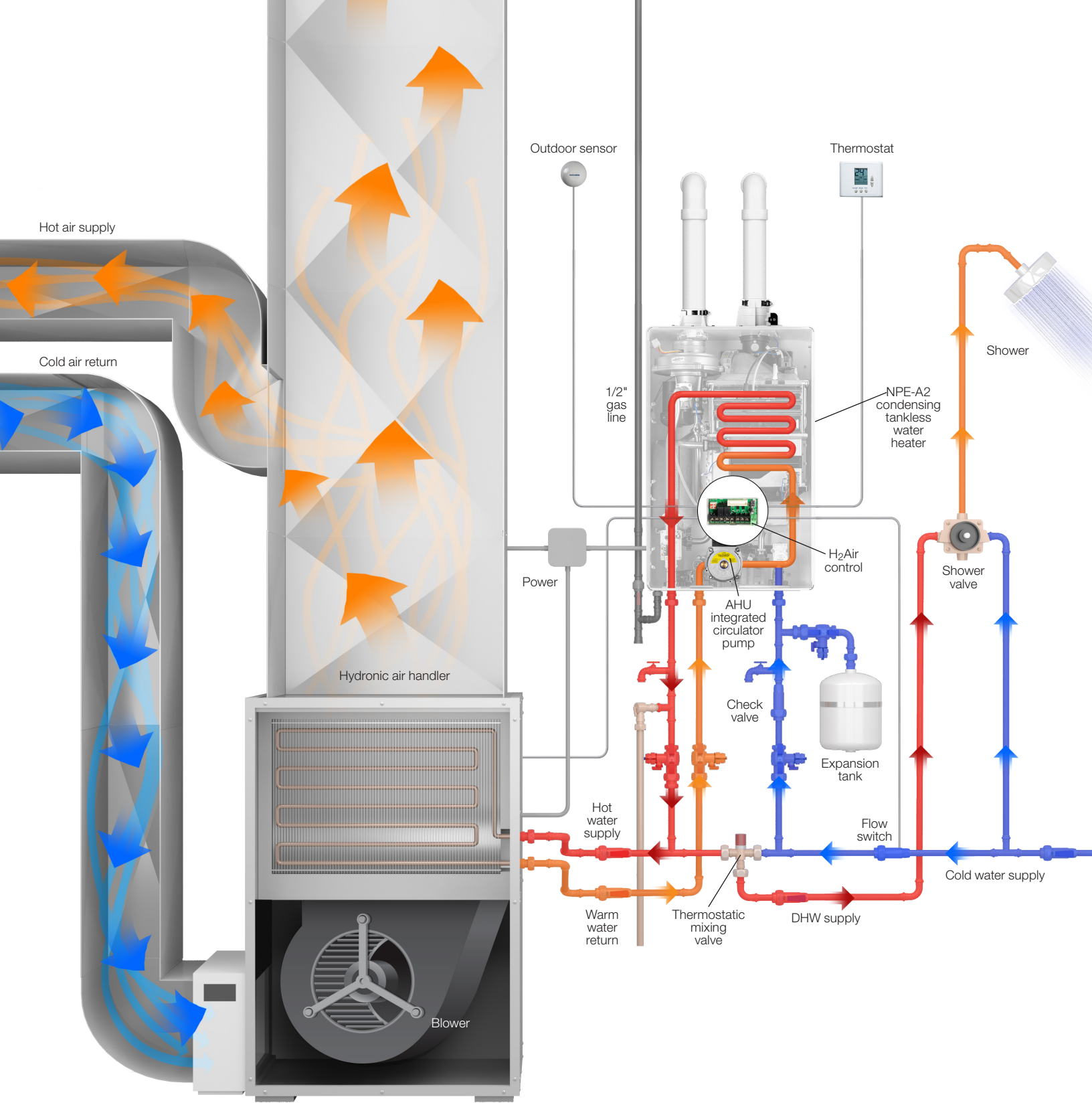
DUAL STAINLESS STEEL HEAT EXCHANGERS

NG OR LP FIELD GAS CONVERTIBLE

OPTIONAL Navilink™ WI-FI CONTROL

UP TO 0.95 UEF ENERGY STAR



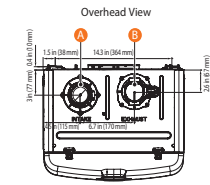


Note: H2Air is for use with one NPE-A2 and one AHU only. For detailed information, refer to the AHU manufacturer's literature to determine the proper output capacity.

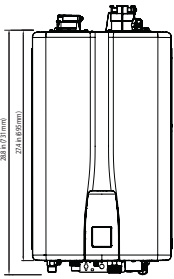
†Self-powered thermostats only.

‡The control will automatically pause heating if the simultaneous DHW and heating loads exceed 85% of the water heater's capacity to ensure an uninterrupted supply of domestic hot water.

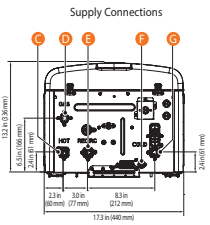
# Dimensions Specifications for NPE-A with H<sub>2</sub>Air™



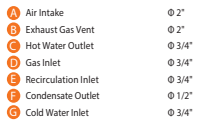
Overhead View



Front View



Supply Connections



Item	Model			
	NPE-180A2	NPE-210A2	NPE-240A2	
Heat capacity (input)	Natural gas Propane gas	10,000–150,000 BTU/H	12,000–180,000 BTU/H	13,300–199,900 BTU/H
Efficiency rating	UEF (NG & LP)	0.95	0.95	0.95
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)
	67°F (36°C) temp rise	4.3 GPM (16 L/m)	5.1 GPM (19 L/m)	5.6 GPM (21 L/m)
Dimensions	17.3" (W) x 27.4" (H) x 13.2" (D)			
Weight	73 lbs (33kg)		77 lbs (35kg)	77 lbs (35kg)
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)	-0.03" WC to -0.55" WC	-0.03" WC to -0.76" WC	-0.03" WC to -0.96" WC	
Propane gas manifold pressure (min-max)	-0.03" WC to -0.40" WC	-0.02" WC to -0.76" WC	-0.02" WC to -0.96" WC	
Minimum flow rate	0.5 GPM (1.9 L/m)			
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, approved polypropylene and stainless steel 2" or 3" special gas vent type BH (Class II, A/B/C)		
	Intake	2" or 3" PVC, CPVC, approved polypropylene and stainless steel 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			

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

Please refer to [www.Navieninc.com](http://www.Navieninc.com) to verify you have the most current information.

Note: H<sub>2</sub>Air is for use with one NPE-A2 and one AHU only. For detailed information, refer to the AHU manufacturer's literature to determine the proper output capacity. Internal or external circulation modes typically available on the NPE-A2 models are no longer available when the H<sub>2</sub>Air application is installed.



## Accessories

<b>H2Air Kit AHU Optimizer</b> PNBD-000001	<b>NaviLink™ Wi-Fi Control</b> PBCM-AS-001	<b>NPE-A/NPE-A2 Plumb Easy 3 Valve Set (V2)</b> GX0002140	<b>Residential Neutralizer (V2) (1 unit)</b> GX0002212 <b>Residential Replacement Media</b> GX0001323

## NPE-A2 warranty

Commercial or Combi*	Labor	Parts	Heat exchanger
Standard or controlled recirculation	1 year	5 years	8 years
Uncontrolled recirculation	1 year	3 years	3 years

\*\*Combi\* refers to a combination potable water & space heating application. Water heaters cannot be used in space heating only applications.

Navien Inc., 20 Goodyear, Irvine, CA 92618 800-519-8794 Navieninc.com



T H E L E A D E R I N C O N D E N S I N G T E C H N O L O G Y