

H₂Air_m

Combination heating system



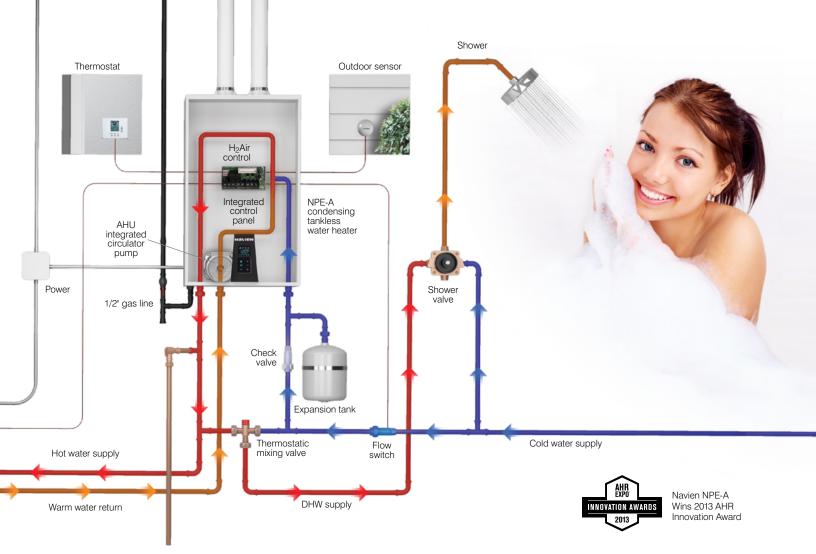


Navien

An add-on accessory for the Navien NPE-A Series tankless water heater that creates a high efficiency space heating and endless domestic hot water system







A new use for the NPE-A's integrated circulator

The H_2Air Kit utilizes the NPE-A pump to circulate the hot water for the hydronic air handler. This removes the need to purchase an additional circulator for the heating system.

NPE-A is easy to sell, easy to install

Cuts installation time in half

Thanks to using ½" gas pipe 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-A 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 0.96UEF/0.97EF.











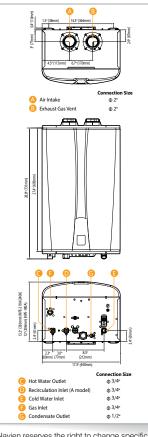






Dimensions

Specifications for NPE-A with H₂Air™



	la	Model				
	Item	NPE-180A	NPE-210A	NPE-240A		
Heat capacity (input)	Natural gas	15,000–150,000 BTU/H	10 000 100 000 PTUU	19,900–199,900 BTU/H		
	Propane gas	15,000-150,000 610/1	19,900–180,000 BTU/H			
Efficiency	UEF (NG & LP)	0.96	0.96	0.96		
ratings	EF (Canada NG & LP)	0.97	0.97	0.97		
	35°F (19°C) temp rise	8.4 GPM (32 L/m)	10.1 GPM (38 L/m)	11.2 GPM (42 L/m)		
Flow rate (DHW)	45°F (25°C) temp rise	6.5 GPM (25 L/m)	7.8 GPM (30 L/m)	8.7 GPM (33 L/m)		
(DITV)	67°F (36°C) temp rise	4.3 GPM (16 L/m)	5.0 GPM (19 L/m)	5.6 GPM (21 L/m)		
Dimensions		17.3"W x 27.4"H x 13.2"D				
Weight		75lbs (34kg)	82lbs (37kg)	82lbs (37kg)		
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 -0.84" WC	-0.05" WC to -0.36" WC	-0.05" WC to -0.58" WC		
Propane gas mani	fold pressure (min-max)	-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)				
	Cold water inlet	3/4" NPT				
Connection sizes	Hot water outlet	3/4" NPT				
	Gas inlet	3/4" NPT				
	Main supply	120V AC, 60 Hz				
Power supply	Maximum power consumption	200W (max 2A), 350W (max 4A) with external pump connected				
	Casing	Cold rolled carbon steel				
Materials	Heat exchangers	Primary heat exchangers: stainless steel, secondary heat exchangers: stainless steel				
	Exhaust	2" or 3" PVC, CPVC, polypropylene / 2" or 3" special gas vent type BH (Class II, A/B/C)				
Venting	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	0" to combustibles			
Safety devices		operation detector, water temph limit sensor, power surge fus				

Navien reserves the right to change specifications at any time without prior notice. Please refer to www.navien.com to verify you have the most current information.

Note: H₂Air is for use with one NPE-A 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-A models are no longer available when the H₂Air application is installed.

Accessories

H₂Air Kit AHU Optimizer PNBD-000001 Plumb Easy Valve 3/4" with Relief Valve 30012581A Residential Neutralizer (1 unit) GXXX001322 Replacement Media GXXX001323

NPE-A 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. For full warranty visit us.navien.com











CSA P.9-11 rating

	Combi System	CSHE		Recovery		
Heat Generator	Fan Coil	Model number	(%)	WHPF	Efficiency (%)	TPF
	SunTherm	MMVE0S4NAAA	94	0.96	97	0.94
	Airmax	50e, 50e P2, 50e P3	92	0.94	97	0.93
	Airmax	70e	93	0.94	97	0.93
	Hi-Velocity Systems	HE-Z 70/71H, HE-B 70/71H	91	0.96	98	0.92
NPE-180A	Airmax	50e, 50e P2, 50e P3	90	0.94	97	0.91
	Hi-Velocity Systems	HE-Z 50/51H, HE-B 50/51H	90	0.96	98	0.90
	Ecologix Heating Technologies Inc.	EZPN40-EZ1	90	0.96	97	0.90
	Hi-Velocity Systems	HE-Z 50/51H, HE-B 50/51H	84	0.96	98	0.86
	Hi-Velocity Systems	HE-Z 70/71H, HE-B 70/71H	84	0.96	98	0.86
	Ecologix Heating Technologies Inc.	EZ1	95	0.95	96	0.95
	SunTherm	MMVE0M4NAAA	95	0.95	96	0.95
	Hi-Velocity Systems	HE-Z 100/101H, HE-B 100/101H	93	0.96	98	0.94
	Hi-Velocity Systems	LV-Z 1050H	93	0.96	98	0.93
NPE-240A	Airmax	50e, 50e P2, 50e P3	92	0.94	96	0.92
	ADP	MXV12WNN4C	91	0.95	96	0.92
	Airmax	50e, 50e P2, 50e P3	90	0.94	96	0.90
	Airmax	50e, 50e P2, 50e P3	88	0.94	96	0.89
	Airmax	50e, 50e P2, 50e P3	87	0.94	96	0.88

Refer to Natural Resources Canada's directory for additional combinations

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