

## Dimensions



## Ratings & specifications

Item		NPN-Universal Model			NPN-Exterior Model		
		NPN-100U	NPN-100U	NPN-100U	NPN-100E	NPN-100E	NPN-100E
Heat capacity (input) natural gas/propane gas		10,700- 160,000 (BTU/h)	10,700- 160,000 (BTU/h)	10,700- 160,000 (BTU/h)	10,700- 160,000 (BTU/h)	10,700- 160,000 (BTU/h)	10,700- 160,000 (BTU/h)
Efficiency Rating for NG & LP		0.81 UEF					
Flow rate (GPM)	35°F (19°C) temp rise	7.6 GPM (28.8 L/m)	8.5 GPM (32.2 L/m)	9.5 GPM (36.0 L/m)	7.6 GPM (28.8 L/m)	8.5 GPM (32.2 L/m)	9.5 GPM (36.0 L/m)
	45°F (23°C) temp rise	5.8 GPM (22.3 L/m)	6.6 GPM (25.0 L/m)	7.4 GPM (28.0 L/m)	5.8 GPM (22.3 L/m)	6.6 GPM (25.0 L/m)	7.4 GPM (28.0 L/m)
	57°F (27°C) temp rise	4.0 GPM (15.1 L/m)	4.6 GPM (17.0 L/m)	5.0 GPM (18.9 L/m)	4.0 GPM (15.1 L/m)	4.6 GPM (17.0 L/m)	5.0 GPM (18.9 L/m)
Dimensions		14.0" W x 23.0" H x 9.3" D					
Weight		55.0 lbs. (25 kg)	55.0 lbs. (25 kg)	60.0 lbs. (27 kg)	55.0 lbs. (25 kg)	55.0 lbs. (25 kg)	60.0 lbs. (27 kg)
Installation type		Indoor or outdoor wall-hung (vent kit option for outdoor)			Only outdoor wall-hung		
Venting type		Concentric			No-venting outdoor installation only		
Ignition type		Electronic ignition					
Water pressure		15-150 PSI					
Natural gas supply pressure (from source)		3.5" WC - 10.5" WC					
Propane gas supply pressure (from source)		8" WC - 12" WC					
Natural gas manifold pressure (in-inlet)		2.80" WC 0.70" WC	2.25" WC 0.57" WC	2.81" WC 0.50" WC	2.23" WC 0.69" WC	2.38" WC 0.53" WC	2.99" WC 0.52" WC
Propane gas manifold pressure (in-inlet)		5.50" WC 1.38" WC	5.28" WC 1.31" WC	5.52" WC 1.31" WC	5.34" WC 1.35" WC	5.38" WC 1.28" WC	5.81" WC 1.25" WC
Minimum flow rate		0.5 GPM (1.9 L/m)					
Connection size	Cold water inlet	3/4" NPT					
	Hot water outlet	3/4" NPT					
Power supply	Gas inlet	3/4" NPT					
	Main supply	120V AC, 60 Hz					
	Normal	90 W	90 W	90 W	90 W	90 W	120 W
	Standby	4 W					
	Anti-frost	114 W					
External pump	External pump	< 150 W, 1.5 A					
	Fuse	5.0 A					
	Casing	Cold rolled carbon steel					
Materials	Heat exchanger	Stainless steel					
	Safety devices	Flame rod, APR, overheat protection, ignition operation detector, water temperature high limit switch, 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.



## Warranty

Application		Labor	Parts	Heat Exchanger
Residential	Standard	1 year	5 years	10 years
	Uncontrolled Recirculation*	1 year	3 years	5 years
Commercial or Combi†	Standard	1 year	5 years	5 years
	Uncontrolled Recirculation*	1 year	3 years	3 years

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

†Uncontrolled 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.

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**W. Winter**



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web 4 explain in full detail indirect and direct correlation survey through two vertical shafts 5 two weisbach triangles were established ion the wire lines w 1 and w 2 plumbed through a vertical shaft it is required to find the azimuth of the

underground base line xy assuming that the azimuth of a surface line ab is 89 00 00

*weisbach triangle mining knowledge* - May 01 2022

web nov 25 2020 in weisbach method the theodolite is set up slightly out of line forming a small triangle with the two wires this triangle is known as weisbach triangle the azimuth of the line joining the two wires is found by solution

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web the text covers engineering surveying modules for civil engineering students on degree courses and forms a reference for the engineering surveying module in land surveying courses it will also prove to be a valuable reference for practitioners simple clear introduction to surveying for engineers explains key techniques and

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web the weisbach triangle method is the most popular underground surveying method in civil engineering draw the relevant sketches and write the equations used in this method see chapter 13 of the textbook engineering surveying by w schofield and m breach

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web aug 23 2022 theory method of surveying by which surface survey and underground survey are connected to the same base methods based on the conditions at the mine 1 direct traversing through adits or drifts 2 shaft plumbing methods i one wire in each of the two shafts ii method of weisbach triangles iii methods of weisbach quadrilateral 3

*definition of weisbach triangle mindat org* - May 13 2023

web definition of weisbach triangle definition of weisbach triangle i a configuration used in the surveying of a mine shaft ref pryor 3 ii the highly attenuated triangle formed by the plan position of two shaft plumb lines and one observation station ref bs 7