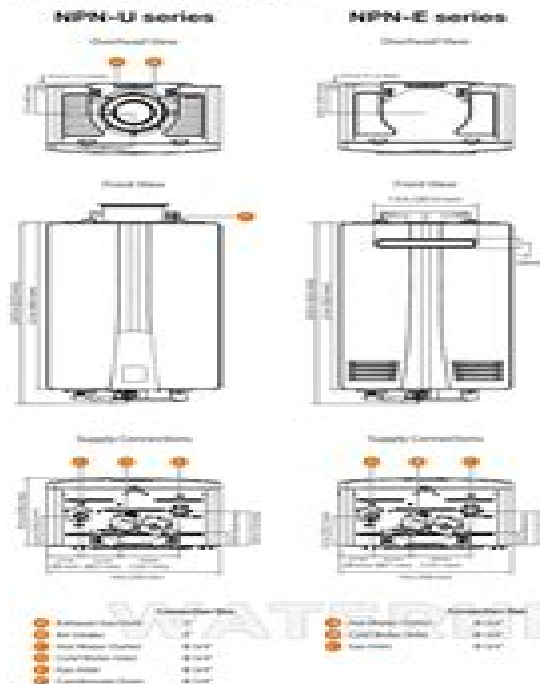


Dimensions



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 (1°C) temp rise	7.6 GPM (28.8 L/m)	8.5 GPM (32.2 L/m)	9.5 GPM (35.0 L/m)	7.6 GPM (28.8 L/m)	8.5 GPM (32.2 L/m)	9.5 GPM (35.0 L/m)
	45°F (20°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 (32°C) temp rise	4.0 GPM (15.1 L/m)	4.6 GPM (17.3 L/m)	5.0 GPM (18.9 L/m)	4.0 GPM (15.1 L/m)	4.6 GPM (17.3 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)	55.0 lbs. (25 kg)	55.0 lbs. (25 kg)	55.0 lbs. (25 kg)	55.0 lbs. (25 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 (min-max)		2.80" WC, 0.70" WC	2.25" WC, 0.50" WC	2.81" WC, 0.50" WC	2.23" WC, 0.69" WC	2.38" WC, 0.50" WC	2.99" WC, 0.50" WC
Propane gas manifold pressure (min-max)		5.50" WC, 1.38" WC	5.28" WC, 1.31" WC	5.50" WC, 1.31" WC	5.34" WC, 1.35" WC	5.38" WC, 1.28" WC	5.81" WC, 1.28" WC
Minimum flow rate		0.5 GPM (1.9 L/m)					
Connection size	Cold water inlet	3/4" NPT					
	Hot water outlet						
Power supply	Gas inlet						
	Main supply	100V AC, 60 Hz					
	Normal	90 W	90 W	90 W	90 W	90 W	120 W
	Standby	4 W					
	Anti-frost	114 W					
Materials	External pump	< 150 W, 1.5 A					
	Fuel	5.0 A					
Materials	Casing	Cold rolled carbon steel					
	Heat exchanger	Stainless steel					
Safety devices		Flame rod, APR, overheat protection, ignition operation detector, water temperature high limit switch, power surge fuse					

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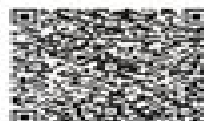
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Application		Labor	Parts	Heat Exchanger
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	Uncontrolled Recirculation*	1 year	3 years	5 years
Commercial or Combi†	Standard	1 year	5 years	5 years
	Uncontrolled Recirculation*	1 year	3 years	3 years

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web solution velocity of observer $v_o = 5 \text{ m/s}$ velocity of sound $v_s = 340 \text{ m/s}$ according to doppler's effect frequency f_v over v_s $f = 335 \text{ Hz}$ $335 \times \frac{340}{340 - 5} = 350.324 \text{ Hz}$ example solve problems on doppler effect where non linear motion is