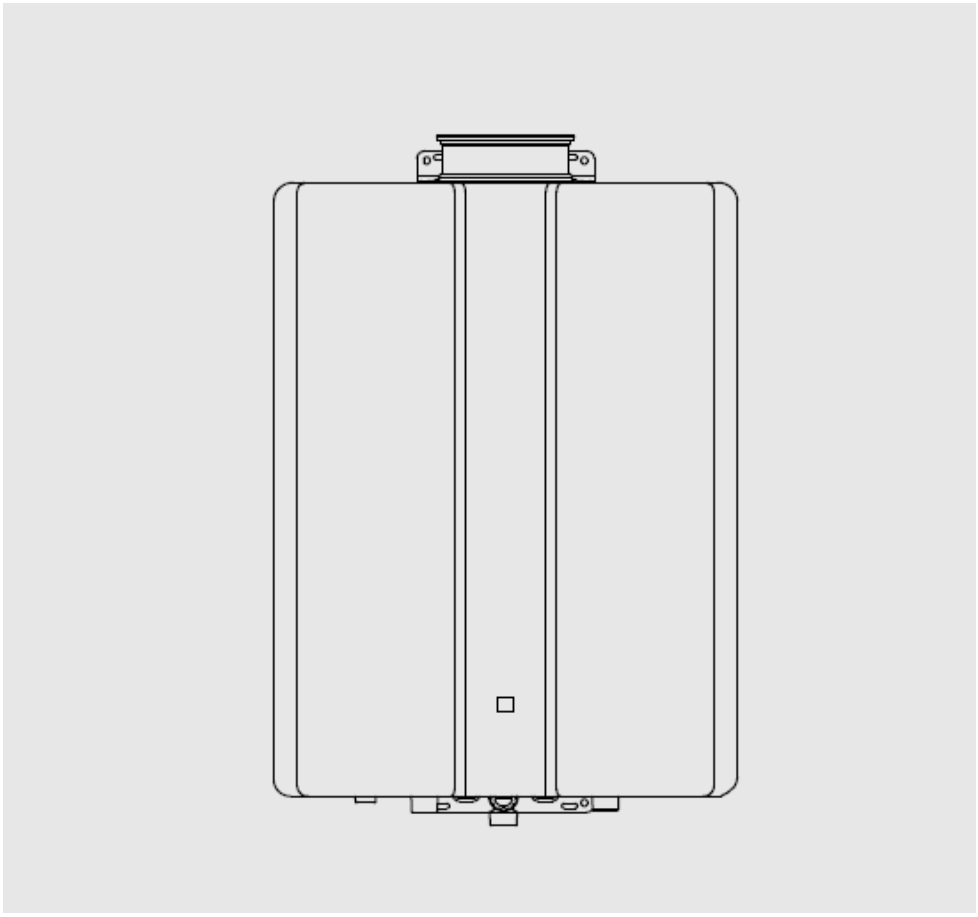
KCM20i Specification Sheet



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Specification

Installation	Internal wall mounted	
Height	670.6mm	
Width	470.6mm	
Depth	257mm	
Weight	26kg	
Exhaust System	Forced Room Sealed	
Flue Size	80/125mm	
Max Flue Run	13m (less 2m per 90° bend & 1m per 45° bend)	
Temperature Range	50°C – 60°C	
Temperature Accuracy	-1 / +1 from the appliance	
Ignition Method	Direct electronic	
Gas Consumption	Natural Gas	38.1 kW max
	LPG	38.1 kW max
Hot Water Delivery Capacity	15.4 ltr/min raised 33°C 10.2 ltr/min raised 50°C	
Min Operating Water Flow	1.5 ltr/min	
Operating Pressure	N/A	
Power Supply	230V~, 50Hz	
Electrical Consumption	N/A	
Indoor sound power level (LWA)	50.8 dB	
NOx	< 56 mg/kWh	

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Additional Information

Gas Usage	3.6m³/hr
Gas Usage LPG	2.7kg/hr
Efficiency Gross (Nat Gas)	93%
Efficiency Gross (LPG)	93%

KCM20i as a Solar Booster

The KCM20i will deliver 10.2 l/min @ 50˚C Rise using 3.6m³ gas. If we increase the incoming water temperature we get the following saving:

Flow Rate	Energy	Saving On Gas
10.2l/min @ 40°C Rise	28.56kW	25% (0.90m3)
10.2l/min @ 30°C Rise	21.42kW	43% (1.45m3)
10.2l/min @ 20°C Rise	14.28kW	62% (2.2m3)
10.2l/min @ 10°C Rise	7.14W	81% (2.9m3)

A 20 tube panel will yield approx. 1439kW/yr*, so a fairly standard arrangement of 3 panels would yield 4317kWh/yr. Consequently this equates to 4317kW free energy or the equivalent of 401.6 m³ gas per annum.

*This is based on an installation in Southampton, south facing and an inclination of 45˚

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