

Astute Gas Fired Water Heaters

GHE37..111 Condensing Gas Water Heaters



The Advenco Astute® is a range of high efficiency condensing gas fired water heaters designed to provide domestic hot water for a wide range of commercial applications.

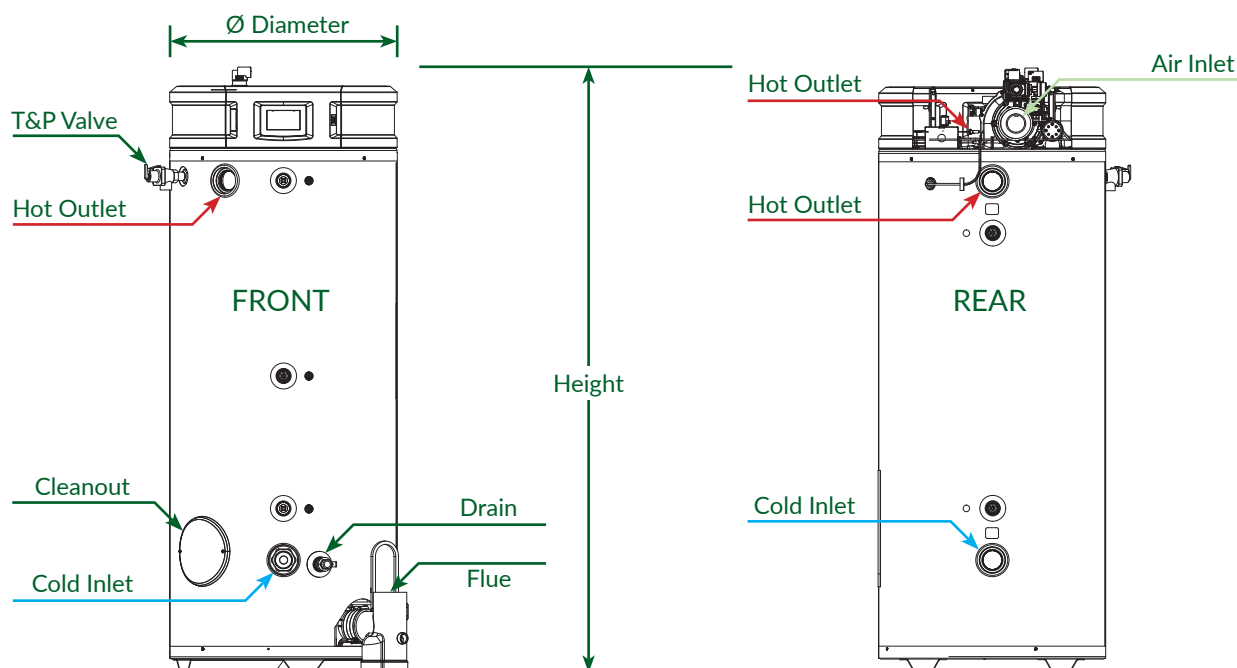
Designed to meet the stringent demands of commercial retrofit, the Astute range features multiple plumbing and flue connectivity options as well as a wide range of built-in intelligent control functionality.

With patented double-porcelain coated heat exchangers and tank, plus intelligent built-in smart health monitoring technology, the Astute boasts exceptional durability and is ideal for use in a wide range of water conditions.

Available in models with power delivery from 37 to 111 kW and with capacities from 300 to 380 litres, the Astute range includes options for almost any commercial application.

FEATURES

- Diverse range of installation arrangements allow the Astute to seamlessly replace a wide range of existing appliances
- Combustion efficiency up to 97% with class A energy efficiency rating
- Simple installation and maintenance with universal connectivity options
- Integrated LCD display controller with WiFi, featuring fault relay, enable signal, BMS control via BACnet MS/TP and leak detection
- Supplied complete with packaged temperature and pressure relief valve.
- Features self-adjusting non-sacrificial powered anodic protection with automatic health diagnostics to simplify and notify operators of scheduled maintenance demands
- Integrated condensate neutraliser
- Water Regulations Schedule 4 Approved
- Available with unvented kits, LPG conversion kits, and high pressure components kit
- Available as GHE..-..G for B23 flue configurations, or GHE..-..C with concentric flue adaptor and kits. Flue terminal and extension components available on request.
- Available with a 5 year tank warranty and a 2 year parts and labour warranty



Technical Specifications	GHE37-300	GHE45-300	GHE56-300	GHE84-300	GHE37-380	GHE45-380	GHE57-380	GHE70-380	GHE84-380	GHE97-380	GHE111-380	
Storage capacity (L)	303				379							
Heat input (gross) (kW)	38.8	47.7	59.2	88.8	38.8	47.7	59.2	74.0	88.8	103.6	116.9	
Heat output (kW)	37	45	56	84	37	45	57	70	84	97	111	
Combustion efficiency (gross) (%)	95%	94%	95%	95%	95%	94%	96%	95%	95%	94%	95%	
DHW peak hour flow $\Delta T=50^{\circ}\text{C}$ (L)	881	1018	1206	1686	922	1059	1265	1488	1728	1951	2191	
DHW continuous recovery $\Delta T=50^{\circ}\text{C}$ (L/h)	634	771	960	1440	634	771	977	1200	1440	1663	1903	
Gas flow rate (m ³ /h) (G20)	3.5	4.3	5.4	8.1	3.5	4.3	5.4	6.7	8.1	9.4	10.6	
Gas inlet size (inch)	¾" BSP F				¾" BSP F							
Gas inlet pressure (mbar)	Natural Gas (G20): 17.0–25.0 LPG (G31): 25.0–45.0				Natural Gas (G20): 17.0–25.0				LPG (G31): 25.0–45.0			
Power supply	230V / 50Hz / 2A				230V / 50Hz / 2A							
Working pressure	6.5 bar (standard equipment) – 10 bar (with PN10 high pressure kit)				6.5 bar (standard equipment) – 10 bar (with PN10 high pressure kit)							

Connection Specifications		GHE37-300 / GHE45-300 GHE56-300 / GHE84-300	GHE37-380 / GHE45-380 GHE57-380 / GHE70-380 / GHE84-380	GHE97-380 GHE111-380
Dimensions	height	1780 mm	1969 mm	1969 mm
	diameter	Ø668 mm	Ø668 mm	Ø668 mm
Plumbing connection options	cold inlets	2x 2" F (side)	2x 2" F (side)	2x 2" F (side)
	hot outlets	2x 2" F (side), 1x 1½" F (top)	2x 2" F (side), 1x 1½" F (top)	2x 2" F (side), 1x 1½" F (top)
Plumbing connection heights	cold inlets	330 mm	330 mm	330 mm
	hot outlets	1536 mm	1773 mm	1773 mm
Approved flue types, sizes, & total equivalent length Max. 6 bends	B ₂₃	80mm PP: 41m; 100mm PP: 56m	80mm PP: 41m; 100mm PP: 56m	80mm PP: 19m; 100mm PP: 30m
	C _{13/33}	80/125mm PP/Plastic: 15m; 100/150mm PP/Metal: 40m	80/125mm PP/Plastic: 15m; 100/150mm PP/Metal: 40m	80/125mm PP/Plastic: 15m 100/150mm PP/Metal: 40m
	C _{53/63}	80mm PP: 18m inlet, 23m outlet; 100mm PP: 36m inlet, 41m outlet	80mm PP: 18m inlet, 23m outlet; 100mm PP: 36m inlet, 41m outlet	80mm PP: 15m inlet, 19m outlet 100mm PP: 21m inlet, 25m outlet
Standard unvented kit		WUV100/25	WUV100/25	WUV100/25
Weight empty/full (kg)		256/559 kg	295/674 kg	295/674 kg