

# Astute Gas Fired Water Heaters

## GHE22..28 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.

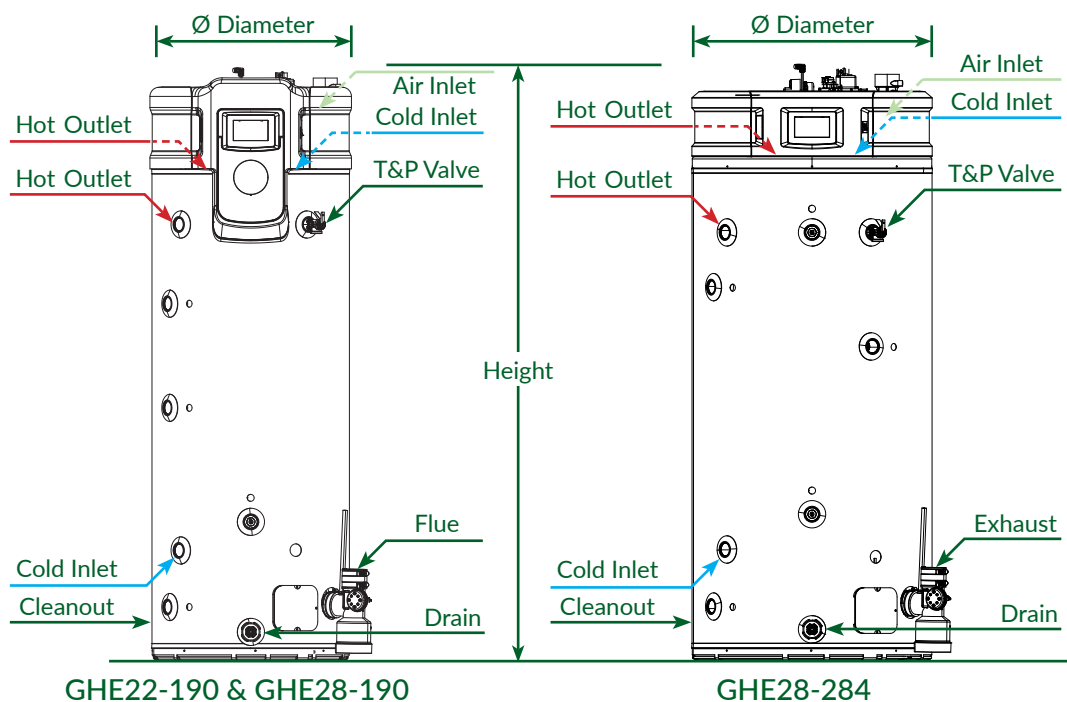
Designed to meet the stringent demands of commercial retrofit, the Astute range features multiple plumbing and flue connectivity options as well as a wide range of built-in intelligent control functionality.

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 of 22 or 28 kW and with capacities of 190 or 284 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 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 and LPG conversion kits
- 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	GHE22-190	GHE28-190	GHE28-284
Storage capacity (L)	189	189	284
Heat input (gross) (kW)	22.7	29.5	29.5
Heat output (kW)	22	28	28
Combustion efficiency (gross) (%)	97%	95%	95%
DHW peak hour flow $\Delta T=50^{\circ}\text{C}$ (L)	527	630	707
DHW continuous recovery $\Delta T=50^{\circ}\text{C}$ (L/h)	377	480	480
Gas flow rate (m <sup>3</sup> /h) (G20)	2.1	2.7	2.7
Gas inlet size (inch)	½" BSP F		
Gas inlet pressure (mbar)	Natural Gas (G20): 17.0–25.0    LPG (G31): 25.0–45.0		
Power supply	230V / 50Hz / 0.5A		
Working pressure	6.5 bar		

Connection Specifications		GHE22-190 / GHE28-190	GHE28-284
Dimensions	height	1635 mm	1635 mm
	diameter	Ø533 mm	Ø667 mm
Plumbing connection options	cold inlets	1x ¾" F (side), 1x ¾" M (top)	1x ¾" F (side), 1x ¾" M (top)
	hot outlets	1x ¾" F (side), 1x ¾" M (top)	1x ¾" F (side), 1x ¾" M (top)
Plumbing connection heights	cold inlets	305 mm	305 mm
	hot outlets	1219 mm	1187 mm
Approved flue types, sizes, & total equivalent length Max. 6 bends Concentric: -1.5m per 45°, -2.5m per 90° Parallel: -1m per 45°, -2m per 90°	B <sub>23</sub>	80mm PP: 42m	80mm PP: 42m
	C <sub>13/33</sub>	80/125mm PP/Plastic: 20m	80/125mm PP/Plastic: 20m
	C <sub>53/63</sub>	80mm PP: 42m inlet, 42m outlet	80mm PP: 42m inlet, 42m outlet
Standard unvented kit		WUV75/18	WUV75/18
Weight empty/full (kg)		102/291 kg	115/399 kg