

CI/SfB
(53.5) Xh
September 2006

**ANDREWS**  
**Gas Storage**  
**Water Heaters**  
**Conventional Flue**  
**Balanced Flue**  
**PROPANE AND**  
**BUTANE GASES**

# Specification Sheet

**THE ENERGY MANAGEMENT  
OF WATER HEATING**



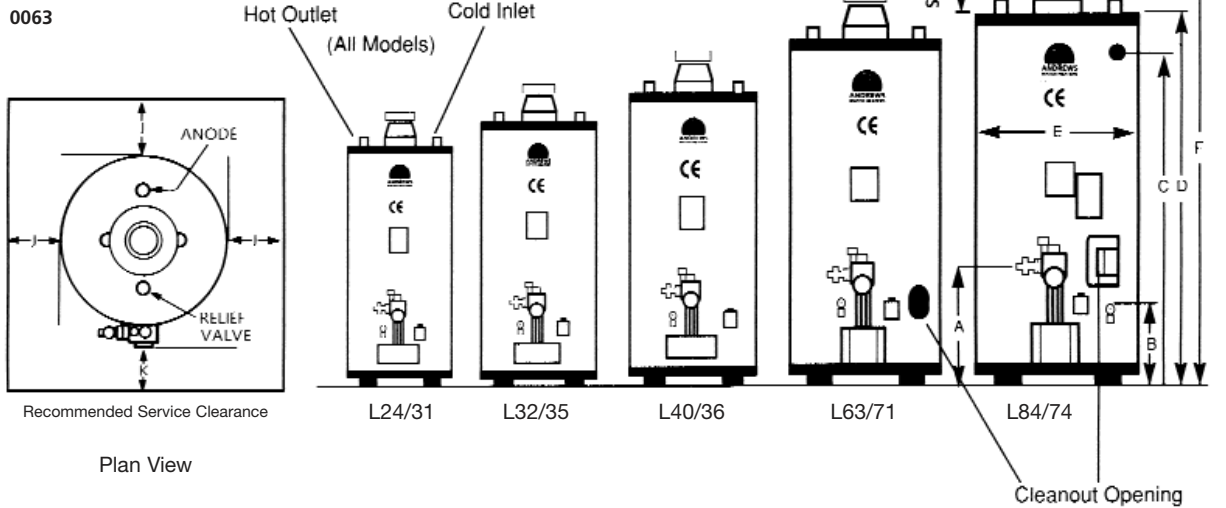
# Standard Range

Models L24/31, L32/35, L40/36, L63/71 and L84/74

NB. Service clearance 'G' can be reduced to 300 mm if Correx Anodes are fitted.



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Andrews Model No.	L24/31		L32/35		L40/36		L63/71		L84/74	
	SI METRIC	IMPERIAL	SI METRIC	IMPERIAL	SI METRIC	IMPERIAL	SI METRIC	IMPERIAL	SI METRIC	IMPERIAL
A Gas Connection	356 mm	14 in	356 mm	14 in	356 mm	14 in	415 mm	16½ in	407 mm	16 in
B Drain Cock	227 mm	9 in	227 mm	9 in	277 mm	9 in	288 mm	11½ in	273 mm	10½ in
C Relief Valve Port	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1506 mm	59½ in
D Height of Heater	1149 mm	45¼ in	1200 mm	47¼ in	1446 mm	56¾ in	1526 mm	60 in	1654 mm	65 in
E Diameter	457 mm	18 in	508 mm	20 in	508 mm	20 in	622 mm	24½ in	718 mm	28¼ in
F Height to Flue	1276 mm	50¼ in	1327 mm	52¼ in	1589 mm	62½ in	1669 mm	65½ in	1788 mm	70½ in
G Service Clearance (Top)	762 mm	30 in	762 mm	30 in	762 mm	30 in	1143 mm	45 in	1270 mm	50 in
H Nominal Flue Diameter	100 mm	4 in	100 mm	4 in	100 mm	4 in	125 mm	5 in	125 mm	5 in
I Connection Centres	203 mm	8 in	203 mm	8 in	203 mm	8 in	279 mm	11 in	406 mm	16 in
J Service Clearance (Sides & Rear)	305 mm	12 in	305 mm	12 in	305 mm	12 in	305 mm	12 in	305 mm	12 in
K Service Clearance (Front)	610 mm	24 in	610 mm	24 in	610 mm	24 in	610 mm	24 in	610 mm	24 in

Storage Capacity	109 lts	24 galls	145 lts	32 galls	182 lts	40 galls	286 lts	63 galls	382 lts	84 galls
Recovery thru 50°C	127 l/hr	28 g/hr	144 l/hr	32 g/hr	147 l/hr	33 g/hr	290 l/hr	64 g/hr	303 l/hr	67 g/hr
56°C	113 l/hr	25 g/hr	127 l/hr	28 g/hr	131 l/hr	29 g/hr	258 l/hr	57 g/hr	269 l/hr	59 g/hr
Heat Input	9.5 kW	32,414 Btu/hr	11.0 kW	37,532 Btu/hr	11.0 kW	37,532 Btu/hr	22.0 kW	75,064 Btu/hr	22.0 kW	75,064 Btu/hr
Gas Family	LPG CAT I <sub>3p</sub>		LPG CAT I <sub>3p</sub>		LPG CAT I <sub>3p</sub>		LPG CAT I <sub>3p</sub>		LPG CAT I <sub>3p</sub>	
Inlet Gas and Burner Pressure	37.0mbar	14.86 in wq	37.0mbar	14.86 in wq	37.0mbar	14.86 in wq	37.0mbar	14.86 in wq	37.0mbar	14.86 in wq
Gas Flow Rate	0.36 m <sup>3</sup> /h	12.74 ft <sup>3</sup> /h	0.41 m <sup>3</sup> /h	14.64 ft <sup>3</sup> /h	0.41 m <sup>3</sup> /h	14.64 ft <sup>3</sup> /h	0.83 m <sup>3</sup> /h	29.28 ft <sup>3</sup> /h	0.83 m <sup>3</sup> /h	29.28 ft <sup>3</sup> /h
Gas Connection	Rc ½	½ in BSP/Int	Rc ½	½ in BSP/Int	Rc ½	½ in BSP/Int	Rc ½	½ in BSP/Int	Rc ½	½ in BSP/Int
Flue Gas Temp.	180°C		180°C		185°C		125°C		130°C	
Flue Gas Volume	16 m <sup>3</sup> /h		16 m <sup>3</sup> /h		23 m <sup>3</sup> /h		28 m <sup>3</sup> /h		34 m <sup>3</sup> /h	
Gas Injector Orifice Diameter	1.50 mm	0.059 in	1.60 mm	0.063 in	1.60 mm	0.063 in	2.25 mm	0.089 in	2.25 mm	0.089 in
Flue Size (Secondary)	100 mm	4 in	100 mm	4 in	100 mm	4 in	125 mm	5 in	125 mm	5 in
Cold Water Feed Connection	R1	1 in BSPT/ExL	R1	1 in BSPT/ExL	R1	1 in BSPT/ExL	R1	1 in BSPT/ExL	R1½	1½ in BSPT/ExL
Hot Water Flow Connection	R1	1 in BSPT/ExL	R1	1 in BSPT/ExL	R1	1 in BSPT/ExL	R1	1 in BSPT/ExL	R1½	1½ in BSPT/ExL
Return Connection	Rp ¾	¾ in BSP	Rp ¾	¾ in BSP	Rp ¾	¾ in BSP	Rp ¾	¾ in BSP	Rp ¾	¾ in BSP
Drain Port Size	R ¾	¾ in BSPT/Ext	R ¾	¾ in BSPT/Ext	R ¾	¾ in BSPT/Ext	R ¾	¾ in BSPT/Ext	R ¾	¾ in BSPT/Ext
Maximum Working Pressure	10.3 bar	150 p.s.i.	10.3 bar	150 p.s.i.	10.3 bar	150 p.s.i.	10.3 bar	150 p.s.i.	10.3 bar	150 p.s.i.
Maximum Test Pressure	20.6 bar	300 p.s.i.	20.6 bar	300 p.s.i.	20.6 bar	300 p.s.i.	20.6 bar	300 p.s.i.	20.6 bar	300 p.s.i.
Weight Empty	43 kg	94 lbs	57 kg	126 lbs	65 kg	144 lbs	110 kg	244 lbs	181 kg	400 lbs
Weight Full	151 kg	334 lbs	202 kg	446 lbs	247 kg	544 lbs	396 kg	874 lbs	562 kg	1240 lbs
Shipping Weight	44 kg	98 lbs	59 kg	131 lbs	68 kg	150 lbs	120 kg	264 lbs	194 kg	428 lbs
Shipping Depth	546 mm	21½ in	587 mm	23¼ in	587 mm	23¼ in	692 mm	27¼ in	914 mm	36 in
Dimensions Width	486 mm	19¼ in	537 mm	21¼ in	537 mm	21¼ in	651 mm	25½ in	762 mm	30 in
Height	1194 mm	47 in	1245 mm	49 in	1499 mm	59 in	1575 mm	62 in	1829 mm	72 in
Mains Voltage (Automatic Ignition models only)	220/240 - IP20									
Frequency	50 Hz									
Power Consumption	236W									
Fuse	5 A									

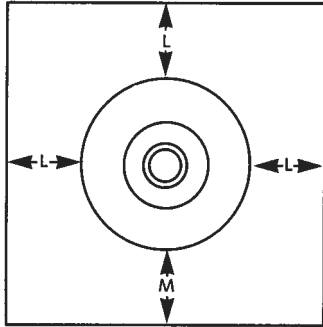
# Hi-Flo Range

Models L32/143, L65/169, L81/251, L62/309, L54/399

All Hi-Flo Models are supplied with Piezo Ignition and Permanent Pilot.  
NB: Service clearance 'I' can be reduced to 300mm if Correx Anodes are fitted.

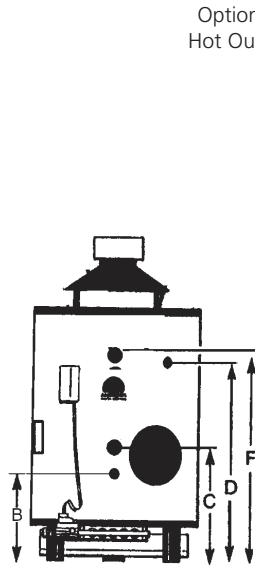


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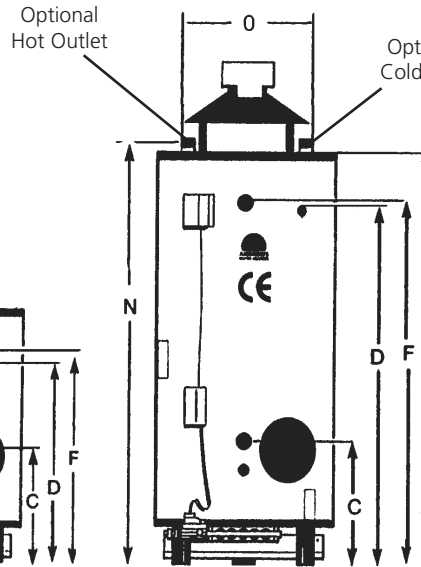


Recommended Service Clearance

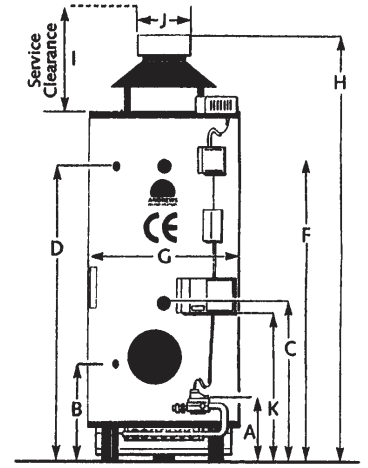
Plan View



L32/143



L65/169PP L81/251PP



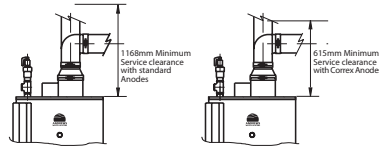
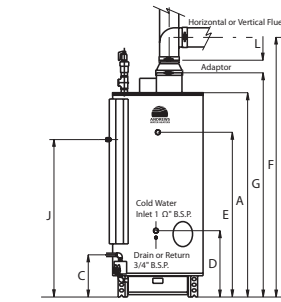
L62/309PP L54/399PP

Andrews Model No.	L32/143		L65/169		L81/251		L62/309		L54/399	
	SI METRIC	IMPERIAL	SI METRIC	IMPERIAL	SI METRIC	IMPERIAL	SI METRIC	IMPERIAL	SI METRIC	IMPERIAL
A Gas Connection	118 mm	4 3/8 in	118 mm	4 3/8 in	118 mm	4 3/8 in	264 mm	10 3/8 in	264 mm	10 3/8 in
B Drain Cock/Secondary Return	384 mm	15 1/2 in	384 mm	15 1/2 in	384 mm	15 1/2 in	406 mm	16 in	406 mm	16 in
C Cold Water	492 mm	19 3/4 in	492 mm	19 3/4 in	492 mm	19 3/4 in	734 mm	28 7/8 in	744 mm	29 1/4 in
D Relief Valve Port	864 mm	34 in	1400 mm	55 1/2 in	1680 mm	66 1/2 in	1375 mm	54 1/2 in	1379 mm	54 1/4 in
E Ht. of Heater	1096 mm	43 1/2 in	1632 mm	64 1/2 in	1911 mm	75 1/4 in	1635 mm	64 3/4 in	1635 mm	64 3/4 in
F Hot Water	883 mm	34 3/4 in	1472 mm	58 in	1702 mm	67 in	1375 mm	54 1/2 in	1379 mm	54 1/4 in
G Diameter	711 mm	28 in	711 mm	28 in	711 mm	28 in	711 mm	28 in	711 mm	28 in
H Ht. of Flue	1343 mm	53 in	1937 mm	76 1/2 in	2208 mm	87 in	1932 mm	76 in	1934 mm	76 1/2 in
I Service Clearance	597 mm	23 1/2 in	1143 mm	45 in	1270 mm	50 in	1143 mm	45 in	1143 mm	45 in
J Nominal Flue Diameter	150 mm	6 in	150 mm	6 in	200 mm	8 in	200 mm	8 in	250 mm	10 in
L Service Clearance	305 mm	12 ins	305 mm	12 ins	305 mm	12 ins	305 mm	12 ins	305 mm	12 ins
M Service Clearance	800 mm	31 1/2 in	800 mm	31 1/2 in	800 mm	31 1/2 in	800 mm	31 1/2 in	800 mm	31 1/2 in
N Top Feed Connections	N/A	N/A	1715 mm	67 1/2 in	1962 mm	88 1/2 in	N/A	N/A	N/A	N/A
O Top Feed Centers	N/A	N/A	470 mm	18 1/2 in	470 mm	18 1/2 in	N/A	N/A	N/A	N/A
Storage Capacity	145 lts	32 galls	295 lts	65 galls	370 lts	81 galls	280 lts	62 galls	245 lts	54 galls
Recovery thru 50°C	583 l/hr	128 g/hr	691 l/hr	152 g/hr	1027 l/hr	226 g/hr	1263 l/hr	278 g/hr	1631 l/hr	359 g/hr
56°C	517 l/hr	114 g/hr	613 l/hr	135 g/hr	913 l/hr	201 g/hr	1122 l/hr	247 g/hr	1449 l/hr	319 g/hr
Heat Input	41.8 kW	142,622 Btu/hr	49.0 kW	167,188 Btu/hr	76.0 kW	259,312 Btu/hr	92.5 kW	315,610 Btu/hr	122.0 kW	416,264 Btu/hr
Gas Family	LPG CAT I <sub>3p</sub>		LPG CAT I <sub>3p</sub>		LPG CAT I <sub>3p</sub>		LPG CAT I <sub>3p</sub>		LPG CAT I <sub>3p</sub>	
Burner Pressure Propane	26.8 mbar	10.76 in wg.	21.4 mbar	8.59 in wg.	35.8 mbar	14.38 in wg.	35.3 mbar	14.18 in wg.	35.0 mbar	14.06 in wg.
Burner Pressure Butane	20.1 mbar	8.07 in wg.	16.1 mbar	6.46 in wg.	26.9 mbar	10.80 in wg.	26.6 mbar	10.68 in wg.	26.3 mbar	10.56 in wg.
Gas Flow Rate Propane	1.61 m <sup>3</sup> /h	57 ft <sup>3</sup> /h	1.89 m <sup>3</sup> /h	66.87 ft <sup>3</sup> /h	2.93 m <sup>3</sup> /h	103.7 ft <sup>3</sup> /h	3.58 m <sup>3</sup> /h	126.25 ft <sup>3</sup> /h	4.71 m <sup>3</sup> /h	166.50 ft <sup>3</sup> /h
Gas Flow Rate Butane	1.26 m <sup>3</sup> /h	44.6 ft <sup>3</sup> /h	1.48 m <sup>3</sup> /h	52.24 ft <sup>3</sup> /h	2.29 m <sup>3</sup> /h	81.04 ft <sup>3</sup> /h	2.79 m <sup>3</sup> /h	98.63 ft <sup>3</sup> /h	3.68 m <sup>3</sup> /h	130.08 ft <sup>3</sup> /h
Gas Connection	Rp 3/4	3/4 in BSP/Int	Rp 3/4	3/4 in BSP/Int	Rp 3/4	3/4 in BSP/Int	Rp 3/4	3/4 in BSP/Int	Rp 3/4	3/4 in BSP/Int
Flue Gas Temp.	125°C		125°C		170°C		190°C		170°C	
Flue Gas Volume	57m <sup>3</sup> /h		67m <sup>3</sup> /h		104m <sup>3</sup> /h		126m <sup>3</sup> /h		167m <sup>3</sup> /h	
Gas Injector Orifice Diameter	1.60 mm	0.063 in	1.70 mm	0.067 in	1.85 mm	0.073 in	1.78 mm	0.070 in	1.78 mm	0.70 in
Flue Size (Secondary)	150 mm	6 in	150 mm	6 in	200 mm	8 in	200 mm	8 in	250 mm	10 in
Cold Water Feed Connection	R 1 1/2	1 1/2 in BSPT/Ext	R 1 1/2	1 1/2 in BSPT/Ext	R 1 1/2	1 1/2 in BSPT/Ext	R 1 1/2	1 1/2 in BSPT/Ext	R 1 1/2	1 1/2 in BSPT/Ext
Hot Water Flow Connection	R 3/4	3/4 in BSPT/Ext	R 3/4	3/4 in BSPT/Ext	R 3/4	3/4 in BSPT/Ext	R 3/4	3/4 in BSPT/Ext	R 3/4	3/4 in BSPT/Ext
Drain Port Size/Return Connection	R 3/4	3/4 in BSPT/Ext	R 3/4	3/4 in BSPT/Ext	R 3/4	3/4 in BSPT/Ext	R 3/4	3/4 in BSPT/Ext	R 3/4	3/4 in BSPT/Ext
Max. Working Pressure	10.3 bar	150 p.s.i.	10.3 bar	150 p.s.i.	10.3 bar	150 p.s.i.	10.3 bar	150 p.s.i.	10.3 bar	150 p.s.i.
Max. Test Pressure	20.6 bar	300 p.s.i.	20.6 bar	300 p.s.i.	20.6 bar	300 p.s.i.	20.6 bar	300 p.s.i.	20.6 bar	300 p.s.i.
Weight Empty	190 kg	419 lbs	200 kg	441 lbs	289 kg	687 lbs	294 kg	515 lbs	269 kg	594 lbs
Weight Full	335 kg	738 lbs	488 kg	109 lbs	656 kg	1447 lbs	618 kg	1135 lbs	514kg	1134 lbs
Shipping Weight	199 kg	438 lbs	230 kg	492 lbs	316 kg	697 lbs	287 kg	566 lbs	293 kg	465 lbs
Shipping Depth	902 mm	35 1/2 in	914 mm	36 in	914 mm	36 in	914 mm	36 in	914 mm	36 in
Dimensions Width	768 mm	30 1/4 in	762 mm	30 in	762 mm	30 in	762 mm	30 in	762 mm	30 in
Height	1270 mm	50 in	1960 mm	77 in	2083 mm	82 in	1960 mm	77 in	1960 mm	77 in

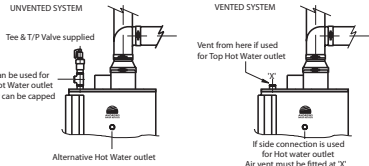
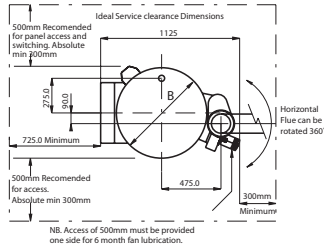
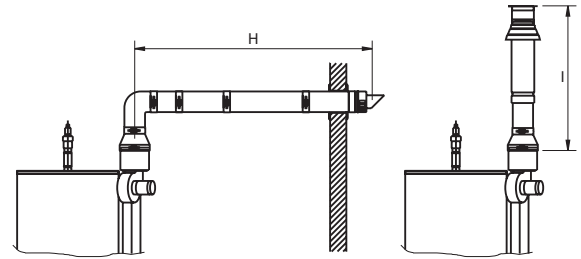
# Room Sealed CSC Heaters

Models LCSC39, LCSC59, LCSC78 and LCSC93

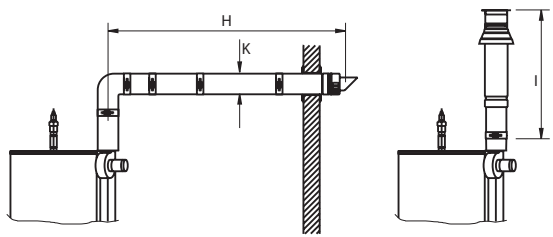
\* NB. Ask for design guide for further flue information.



LCSC39 and LCSC59 Alternative Flue Systems



LCSC78 and LCSC93 Alternative Flue Systems



Andrews Model No.	LCSC39		LCSC59		LCSC78		LCSC93	
	SI METRIC	IMPERIAL	SI METRIC	IMPERIAL	SI METRIC	IMPERIAL	SI METRIC	IMPERIAL
A.Height of Heater	1623 mm	63 7/8in	1623 mm	63 7/8in	1623 mm	63 7/8in	1851 mm	72 7/8in
B.Diameter	720 mm	28 3/4in	720 mm	28 3/4in	720 mm	28 3/4in	720 mm	28 3/4in
C.Gas Connection	355 mm	14 in	355 mm	14 in	355 mm	14 in	355 mm	14 in
D.Cold Inlet	530 mm	20 7/8in	530 mm	20 7/8in	530 mm	20 7/8in	530 mm	20 7/8in
E.Hot Outlet	1307 mm	51 3/8in	1307 mm	51 3/8in	1535 mm	60 3/8in	1535 mm	60 3/8in
F.Height to C/L of Flue	2060 mm	81 in	2060 mm	81 in	1980 mm	78 in	2217 mm	87 in
G.Height to Flue Spigot	1780 mm	70 in	1780 mm	70 in	1780 mm	70 in	2020 mm	80 in
H.Min. Flue Horizontal	1100 mm	43 3/8in	1100 mm	43 3/8in	1260 mm	49 3/8in	1260 mm	49 3/8in
Max. Flue Horizontal	7000 mm	276 in	7000 mm	276 in	7000 mm	276 in	7000 mm	276 in
I.Min. Flue Vertical	1310 mm	51 1/2in	1310 mm	51 1/2in	1610 mm	63 3/8in	1610 mm	63 3/8in
Max. Flue Vertical	7000 mm	276 in	7000 mm	276 in	7000 mm	276 in	7000 mm	276 in
J.Electrical Connection	1250 mm	49 1/4in	1250 mm	49 1/4in	1250 mm	49 1/4in	1480 mm	58 1/4in
K.Flue Diameter	100/150 mm		100/150 mm		130/200 mm		130/200 mm	
L.Flue Adaptor	95 mm	3 7/8in	95 mm	3 7/8in	Not supplied with these models			
Storage Capacity	276 lts	61 gals	276 lts	61 gals	276 lts	61 gals	350 lts	77 gals
Recovery thru' 50°C	675 l/hr	149 g/hr	1036 l/hr	228 g/hr	1365 l/hr	300 g/hr	1627 l/hr	358 g/hr
Recovery thru' 56°C	600 l/hr	132 g/hr	922 l/hr	203 g/hr	1213 l/hr	267 g/hr	1445 l/hr	318 g/hr
Heat Input	44 kW	150,128 Btu/hr	66 kW	225,192 Btu/hr	88 kW	300,256 Btu/hr	106 kW	361,672 Btu/hr
Heat Output	38.7 kW	132,044 Btu/hr	59.4 kW	202,673 Btu/hr	78.3 kW	267,159 Btu/hr	93.3 kW	318,339 Btu/hr
Gas Family	L <sub>3</sub> P	L <sub>3</sub> P	L <sub>3</sub> P	L <sub>3</sub> P	L <sub>3</sub> P	L <sub>3</sub> P	L <sub>3</sub> P	L <sub>3</sub> P
Burner Pressure Propane & Butane	25.0 mbar	10.0in wg	25.0 mbar	10.0in wg	25.0 mbar	10.0in wg	25.0 mbar	10.0in wg
Max. Gas Input Pressure	35.0 mbar	14.0 ins wg.	35.0 mbar	14.0 ins wg.	35.0 mbar	14.0 ins wg.	35.0 mbar	14.0 ins wg.
Gas Flow Rate	0.07m <sup>3</sup> /hr	2.41ft <sup>3</sup> /hr	0.10m <sup>3</sup> /hr	3.62ft <sup>3</sup> /hr	0.14m <sup>3</sup> /hr	4.83ft <sup>3</sup> /hr	0.16m <sup>3</sup> /hr	5.82ft <sup>3</sup> /hr
Gas Connection	Rp 3/4	3/4in BSP	Rp 3/4	3/4in BSP	Rp 3/4	3/4in BSP	Rp 3/4	3/4in BSP
Flue Gas Temperature (approx)	132°C				171°C			
Flue Gas Volume	110m <sup>3</sup> /h		109m <sup>3</sup> /h		140m <sup>3</sup> /h		164m <sup>3</sup> /h	
Injector Dia.	1.65 mm	0.064 in	1.95 mm	0.076 in	1.90 mm	0.074 in	2.1 mm	0.082 in
M. Flue Connection	100/150 mm	-	100/150 mm	-	130/200 mm	-	130/200 mm	-
Inlet and Flow Cons	Rp1 1/2	1 1/2 in BSP	Rp1 1/2	1 1/2 in BSP	Rp1 1/2	1 1/2 in BSP	Rp1 1/2	1 1/2 in BSP
Return Connection	Rp 3/4	3/4 in BSP	Rp 3/4	3/4 in BSP	Rp 3/4	3/4 in BSP	Rp 3/4	3/4 in BSP
Drain Port Size	R 3/4	3/4 in BSPT/Ext	R 3/4	3/4 in BSPT/Ext	R 3/4	3/4 in BSPT/Ext	R 3/4	3/4 in BSPT/Ext
Max. Working Pressure	10 bar	150 psi	10 bar	150 psi	10 bar	150 psi	10 bar	150 psi
Maximum Test Pressure	20.6 bar	300 psi	20.6 bar	300 psi	20.6 bar	300 psi	20.6 bar	300 psi
Weight Empty	340 kg	750 lb	340 kg	750 lb	345 kg	760 lb	381 kg	840 lb
Weight Full	636 kg	1402 lb	636 kg	1402 lb	641 kg	1412 lb	727 kg	1603 lb
Shipping Weight	354 kg	780 lb	354 kg	780 lb	358 kg	790 lb	399 kg	880 lb
Shipping Dimension	770 x 1210 x 2110 mm	30 1/4 x 47 x 83 in	770 x 1210 x 2110 mm	30 1/4 x 47 x 83 in	770 x 1210 x 2110 mm	30 1/4 x 47 x 83 in	770 x 1210 x 2110 mm	30 1/4 x 47 x 83 in
Mains Voltage	220/240 V- IP 20							
Frequency	50 Hz							
Fuse	5 Amp							



Andrews Water Heaters  
 Wood Lane, Erdington,  
 Birmingham, B24 9QP  
 Telephone: 0845 070 1055 Facsimile: 0845 070 1059  
 E Mail: andrews@baxigroup.com Web: www.andrewswaterheaters.co.uk