

# Specifications for Promax Ultra

<b>Potterton Promax Ultra Combi</b>					
	Units	24	28	33	40
Sales code		7223762	7223763	7223764	7223765
<b>Controls</b>					
Concealed user controls		Yes	Yes	Yes	Yes
On/off switch with reset		Yes	Yes	Yes	Yes
User adjustable DHW temperature		Yes	Yes	Yes	Yes
User adjustable CH temperature		Yes	Yes	Yes	Yes
LED temp/status/fault diagnosis display		Yes	Yes	Yes	Yes
Integral 24hr electro-mechanical timer		No	No	No	No
<b>Gas</b>					
Natural gas	mbar	Yes	Yes	Yes	Yes
Nominal inlet supply pressure	m3/h	20	20	20	20
Maximum gas rate		2.61	3.05	3.59	4.35
Propane LPG	mbar	Yes	Yes	Yes	Yes
Nominal inlet supply pressure	kg/h	20	20	20	20
Maximum gas rate	kg/h	1.69	2.29	2.70	3.27
Heat input central heating (CH)	kW Max Gross (QnHs)	22.20	26.64	31.08	35.52
	kW Min Gross (QnHs)	3.89	4.32	5.33	6.55
Heat output CH non-condensing	kW Max (Pn)	20.00	24.00	28.00	32.00
	kW min (Pn)	3.40	3.80	4.70	5.70
Heat output CH condensing	kW max (Pnc)	21.20	25.30	29.60	33.80
	kW min (Pnc)	3.70	4.10	5.10	6.20
Heat input domestic hot water	kW Max Gross (QnwHs)	27.40	32.10	37.80	45.80
Heat output domestic hot water	kW Max (Pn)	24.00	28.00	33.00	40.00
Maximum domestic hot water flow rate	l/min @ 35°C rise	9.8	11.5	13.5	16.4
SAP 2009/2012 annual efficiency (PCDB/SEDBUK)	%	89.1	89.1	89.1	89.1
NOx class		5	5	5	5
<b>ErP product information</b>					
NOx	mg/kWh	15	17	15	24
Space heating efficiency class		A	A	A	A
Water heating declared load profile		XL	XL	XXL	XXL
Water heating efficiency class		A	A	A	A
EcoHomes		3	3	3	3
<b>Electrical</b>					
Electrical supply	Volts/Hz	230/50	230/50	230/50	230/50
Permanent live required		Yes	Yes	Yes	Yes
Fitting electrical cable		Yes	Yes	Yes	Yes
Power consumption	Watts	85	90	90	100
External fuse rating	Amps	3	3	3	3
Internal fuse rating	Amps	F2L	F2L	F2L	F2L

Ingress protection rating		IPX5D	IPX5D	IPX5D	IPX5D
Integral 'boiler only' frost thermostat		Yes	Yes	Yes	Yes
<b>Mechanical</b>					
Pre-plumbing/wall mounting jig		Yes	Yes	Yes	Yes
Isolating valves		Yes	Yes	Yes	Yes
Gas supply connection	mm	22	22	22	22
Central heating connections	mm	22	22	22	22
Domestic hot water connections	mm	15	15	15	15
Condensate drain connection	mm	21.50	21.50	21.50	21.50
Safety discharge connection	mm	15	15	15	15
Temporary filling loop included		Yes	Yes	Yes	Yes
<b>Hydraulic</b>					
Domestic hot water output (raised 35° C) (max)	l/min	9.80	11.50	13.50	16.40
Domestic hot water operating flow rate (min)	l/min	2.00	2.00	2.00	2.00
Domestic hot water operating pressure (min)	bar	0.15	0.15	0.15	0.15
Domestic hot water system pressure (max)	bar	8	8	8	8
CH safety discharge pressure	bar	3	3	3	3
Integral automatic bypass		Yes	Yes	Yes	Yes
Integral expansion vessel capacity	litres	8	8	8	8
Max capacity of central heating system	litres	125	125	125	125
Compartment ventilation requirement		No	No	No	No
CH system inhibitor required		Yes	Yes	Yes	Yes
24 hour pump exercise		Yes	Yes	Yes	Yes
Pump overrun		Yes	Yes	Yes	Yes
<b>Concentric flue systems</b>					
Concentric flue diameters			60/100 and 80/125		
Standard horizontal flue kit length (60/100mm)	mm	685	685	685	685
Max equiv length horizontal/vertical (60/100mm)	m	10	10	10	10
Max equiv length horizontal/vertical (80/125mm)	m	20	20	20	20
Equivalent length per 135° bend	m	0.50	0.50	0.50	0.50
Equivalent length per 93° bend	m	1.00	1.00	1.00	1.00
<b>Twin flue system</b>					
Diameters	mm	80/80	80/80	80/80	80/80
Max equiv length horizontal/vertical (parallel pipes)	m	15	15	15	15
Equivalent length per 135° bend	m	0.25	0.25	0.25	0.25
Equivalent length per 91.5° Bend	m	0.50	0.50	0.50	0.50
<b>Weights</b>					
Max installation lift weight	kg	36.0	36.0	38.0	39.0
Gross packaged boiler weight	kg	41.5	41.5	43.5	44.5
Boiler dimensions (WxHxD)	450mm x 763mm x 355mm				