

PRODUCT GUIDE 2018/19

ACV / HEATING AND HOT WATER SPECIALISTS



EXCELLENCE
IN HOT WATER





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










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



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



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LEGEND		
	Gas	 Wall Mounted
	Electric	 Floor Standing
	Electric Backup	 Heat Only
		 Vertical Flue
		 Horizontal Flue
		 Domestic Hot Water



Tank-in-Tank technology from ACV offers a simple and effective concept delivering outstanding reliable performance.

SMART GREEN

- > Energy Class A
- > Double insulation – vacuum insulation panel (VIP) + polyurethane



SMART ME

- > Multi-Energy Cylinder
- > Designed for a range of applications and multiple energy sources including solar panels¹



¹ Solar panel not supplied by ACV

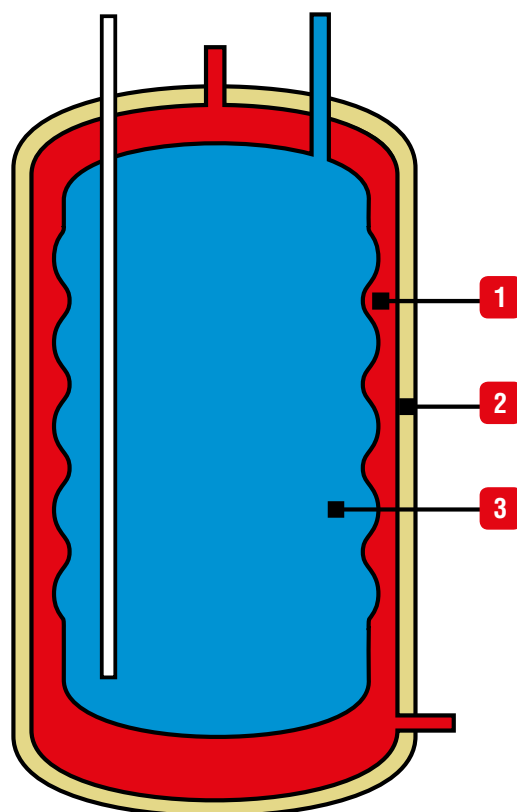
TANK IN TANK BENEFITS

When it comes to performance, energy savings and space saving, the benefits of the tank-in-tank system out perform a traditional coil installation on almost every occasion.

The large heat surface area of the tank in tank gives exceptionally fast recovery and can provide a continuous flow of hot water should it be required.

- > Exceptional re-heat time - 9 minutes²
- > Large heat transfer area
- > Low pressure drop
- > Unrivalled resistance to scale

1. Primary Water
2. Insulation
3. Domestic Hot Water



² Conditions: www.acv.com



WATERMASTER

STAND ALONE HOT WATER GENERATOR

- Self-cleaning stainless steel Heat Exchanger
- Available in six power outputs from 25kW to 120kW
- Space saving footprint – reduced plantroom space required
- Condenses in Hot Water Mode
- Multiple units can be linked for larger applications
- 25 year guarantee on stainless steel DHW cylinder
- 10 year guarantee on stainless steel heat exchanger



10
YEAR
WARRANTY

**NOW WITH A 10 YEAR
WARRANTY ON THE
STAINLESS STEEL HEAT
EXCHANGER***

**WATERMASTER CAN BE FOUND ON
PAGE 27-30 OF THIS PRODUCT GUIDE**

** Terms and conditions apply, please visit www.acv.com for full warranty details*

COMPACT CONDENS

HIGH OUTPUT FLOOR STANDING GAS CONDENSING BOILER FOR COMMERCIAL APPLICATIONS

- Available in four power outputs from 170kW to 300kW
- Compact dimensions with small footprint (0.8m²)
- Ideal in cascade installations up to 1200kW



**COMPACT CONDENS CAN BE FOUND ON
PAGE 41-42 OF THIS PRODUCT GUIDE**



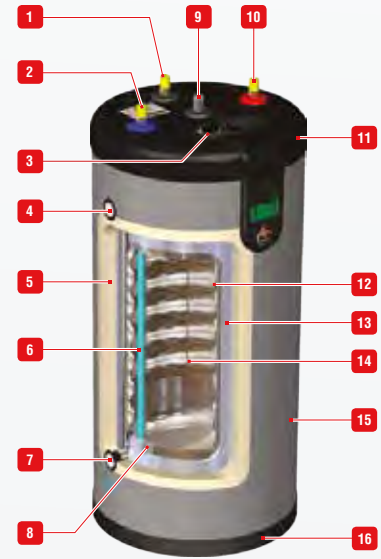
DESCRIPTION

Fast recovery Class 'A' Tank-in-Tank DHW Cylinder.

- Class "A" according to EU 812/2013.
- 6 pin plug-and-play electrical connection, S Plan or Y Plan.
- Thick polypropylene jacket. Hard wearing and shock resistant.
- 3 sizes: 130, 161 and 203 litres.
- Anti-Legionella: Storage temperature > 60°C.
- Stainless steel domestic cylinder - 25 Year guarantee.
- Very low standing heat loss - the combination of a vacuum insulation panel (VIP) and the polyurethane foam offers optimal energy performance.
- Integral thermostat control included (replaceable by a probe for use with an electronically controlled boiler).
- 3.5 Bar Mains water SystemPak and DHW mixing valve supplied as standard.

TANK-IN-TANK TECHNOLOGY

CHARACTERISTICS



1. Auxiliary connection DHW
2. Cold water inlet connection
3. Control thermostat
4. Flow connection (primary circuit)
5. Polyurethane foam insulation
6. Dip Tube
7. Return connection (primary circuit)
8. Outer steel tank (primary circuit)
9. Manual air bleed valve
10. Hot water outlet connection
11. Polypropylene top lid
12. Stainless steel tank (DHW)
13. Vacuum insulation panel
14. Dry well
15. Polypropylene shell
16. Polypropylene base

REFERENCE	NAME	
XB321300	Smart Green 130	A
XB321600	Smart Green 160	A
XB322100	Smart Green 210	A

All Smartline Green cylinders come complete with an unvented Mains SystemPak as standard, which includes a Mains Unvented Kit, Domestic Hot Water Mixing Valve and 2 port Valve.

ACV UK Ltd advises the installation of a domestic hot water mixing valve on the hot flow immediately after the appliance.

FLOOR STANDING ONLY

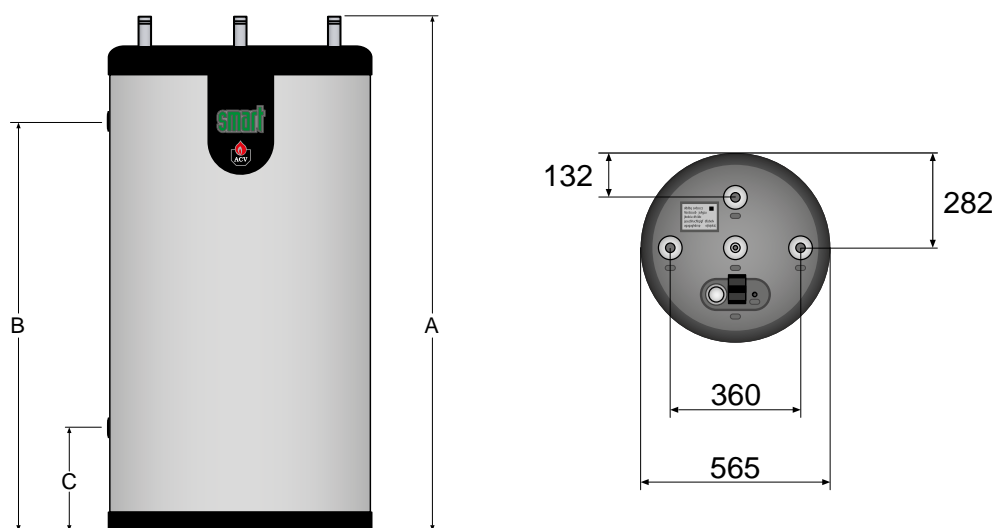
TECHNICAL CHARACTERISTICS AND DIMENSIONS

TYPE		SL 130 G	SL 160 G	SL 210 G
Capacity (total)	L	130	161	203
Capacity (primary)	L	31	35	39
Connection - primary	Ø"	1F	1F	1F
Connection - DHW	Ø"	3/4 M	3/4 M	3/4 M
Connection - re-circulation/safety valve	Ø"	3/4 M	3/4 M	3/4 M
Max operating temperature (DHW)	°C	80	80	80
Max operating pressure (DHW)	bar	8.6	8.6	8.6
Max operating pressure heating (primary)	bar	3	3	3
Dimension A	mm	1025	1225	1497
Dimension B	mm	760	960	1232
Dimension C	mm	235	235	235
Weight (empty)	kg	55	65	75
Energy efficiency storage class		A	A	A

DOMESTIC HOT WATER PERFORMANCE

TYPE		SL 130 G	SL 160 G	SL 210 G
Peak flow at 40°C	L/10'	321	406	547
Peak flow 1st hour at 40°C	L/60'	1063	1349	1820
Continuous flow at 40°C	L/h	890	1132	1527
Peak flow at 45°C	L/10'	275	348	469
Peak flow 1st hour at 45°C	L/60'	911	1156	1560
Continuous flow at 45°C	L/h	763	970	1309
Peak flow at 60°C	L/10'	161	209	272
Peak flow 1st hour at 60°C	L/60'	549	689	913
Continuous flow at 60°C	L/h	465	576	769
Reheat time (EN12897:2006)	min	10	10	9
Max absorbed heat (Heat source: boiler)	kW	24.7	32.2	39.2

Performance data assumes: Primary flow temperature 85 °C - Domestic cold water supply 10 °C





DESCRIPTION

Fast recovery floor standing Tank-in-Tank Cylinder.

- 3kW Immersion heater as standard - 6kW option available.
- 6 pin plug-and-play electrical connection, S Plan or Y Plan.
- Low Heat Loss - 50mm Polyurethane insulation.
- Thick polypropylene jacket. Hard wearing and shock resistant.
- DHW temperature gauge.
- Anti-Legionella: Storage temperature > 60°C.
- 3.5 Bar Mains water SystemPak and DHW mixing valve supplied as standard.
- Stainless steel domestic cylinder - 25 Year guarantee.

TANK-IN-TANK TECHNOLOGY

CHARACTERISTICS



1. Auxiliary connection DHW
2. Domestic cold water inlet connection
3. Flow connection (primary circuit)
4. Polypropylene shell
5. Internal stainless steel tank
6. Return connection (primary circuit)
7. Immersion heater connection
8. Primary air vent
9. Hot water outlet connection
10. Rigid polypropylene top cover
11. Thermostat pocket
12. Polyurethane foam insulation
13. Outer steel tank (primary circuit)
14. Polypropylene base

REFERENCE	NAME	
XB301300	Smart E 130	B
XB301600	Smart E 160	B

ACCESSORIES

REFERENCE	DESCRIPTION
XB080600	6kW Immersion Heater - Single Phase
10800084	6kW Immersion Heater - Three Phase

All Smartline E cylinders come complete with an unvented Mains SystemPak as standard, which includes a Mains Unvented Kit, Domestic Hot Water Mixing Valve, 3kW Immersion heater and 2 Port Valve.

ACV UK Ltd advises the installation of a domestic hot water mixing valve on the hot flow immediately after the appliance.

FLOOR STANDING ONLY

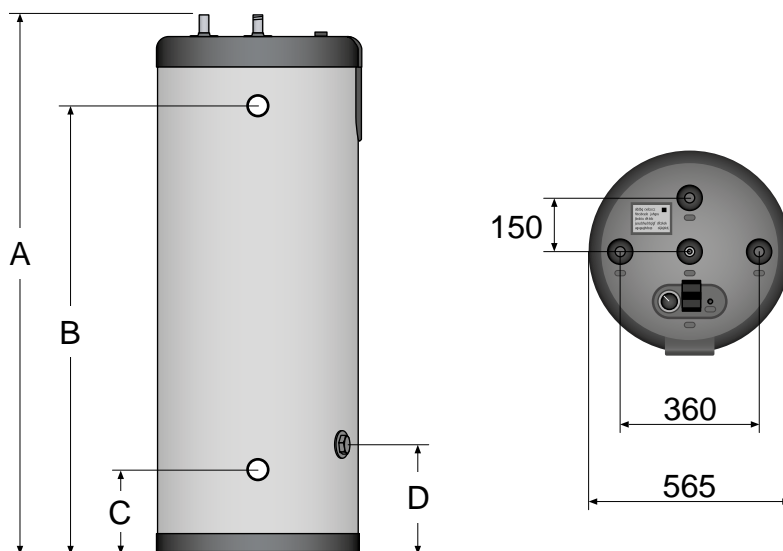
TECHNICAL CHARACTERISTICS AND DIMENSIONS

TYPE		SLE 130	SLE 160
Capacity (total)	L	130	161
Capacity (primary)	L	55	62
Connection - primary	Ø"	1F	1F
Connection - DHW	Ø"	3/4 M	3/4 M
Connection - re-circulation/safety valve	Ø"	3/4 M	3/4 M
Max operating temperature (DHW)	°C	80	80
Max operating pressure (DHW)	bar	8.6	8.6
Max operating pressure heating (primary)	bar	3	3
Dimension A	mm	1024	1222
Dimension B	mm	234	234
Dimension C	mm	759	959
Dimension D	mm	234	234
Weight (empty)	kg	45	54
Energy efficiency storage class		B	B

DOMESTIC HOT WATER PERFORMANCE

TYPE		SLE 130	SLE 160
Peak flow at 40°C	L/10'	236	321
Peak flow 1st hour at 40°C	L/60'	784	1063
Continuous flow at 40°C	L/h	658	890
Peak flow at 45°C	L/10'	202	275
Peak flow 1st hour at 45°C	L/60'	672	911
Continuous flow at 45°C	L/h	564	763
Peak flow at 60°C	L/10'	117	161
Peak flow 1st hour at 60°C	L/60'	384	549
Continuous flow at 60°C	L/h	320	465
Reheat time (EN12897:2006)	min	10	10
Max absorbed heat (Heat source: boiler)	kW	23	31
Heating surface area	m	1.03	1.26

Performance data assumes: Primary flow temperature 85 °C - Domestic cold water supply 10 °C





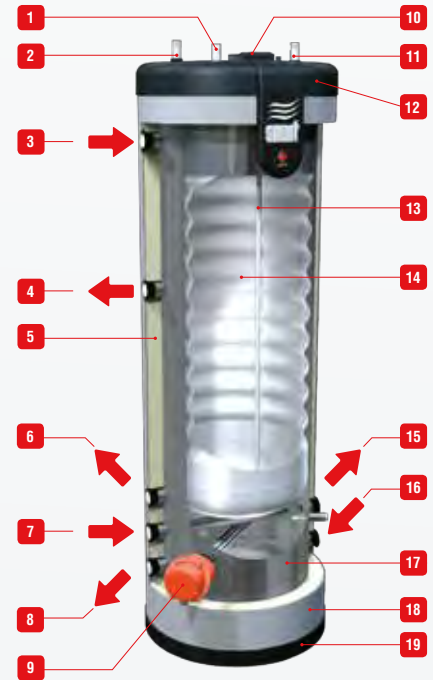
DESCRIPTION

Fast recovery Tank-in-tank cylinder with the addition of multiple ports allowing flexible installation options. Ideal partner to condensing boilers and heat pumps.

- 3kW Immersion heater as standard - 6kW option available.
- 6 pin plug-and-play electrical connection, S-plan or Y-plan.
- Low heat loss - 50 mm rigid polyurethane insulation.
- Thick polypropylene jacket. Hard wearing and shock resistant.
- DHW temperature gauge.
- Anti-Legionella: Storage temperature > 60°C.
- The addition of multiple ports on the Smart E Plus not only gives the installer flexible installation options, but also provides a cylinder built with the future in mind.
- 3.5 Bar Mains water SystemPak and DHW mixing valve supplied as standard.
- Stainless steel domestic cylinder - 25 Year guarantee.

TANK-IN-TANK TECHNOLOGY

CHARACTERISTICS



1. Auxiliary connection DHW
2. Domestic cold water inlet
3. Flow connection (Primary Circuit)
4. Auxiliary heating return
5. 50 mm insulation rigid polyurethane
6. Auxiliary heating return
7. Flow primary for heat pump connection
8. Return primary for heat pump connection
9. Immersion Heater
10. Manual air vent
11. Domestic Hot Water outlet
12. Rigid polypropylene cover
13. Stainless steel drywell
14. Stainless steel (DHW) inner tank
15. Heating circuit flow
16. Heating circuit return
17. Outer steel tank containing the primary fluid
18. Polypropylene shell
19. Polypropylene base cover

REFERENCE	NAME	
XB302100	Smart E Plus 210	B
XB302400	Smart E Plus 240	B
XB303000	Smart E Plus 300	B

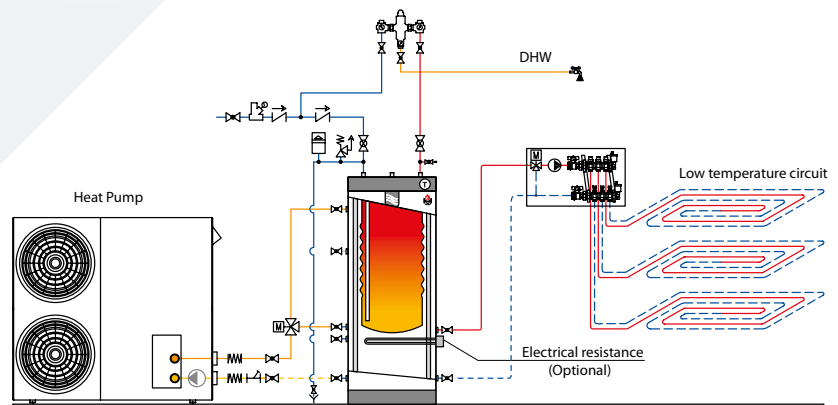
ACCESSORIES

REFERENCE	DESCRIPTION
XB080600	6kW Immersion Heater - Single Phase
10800084	6kW Immersion Heater - Three Phase

All Smartline E cylinders come complete with an unvented Mains SystemPak as standard, which includes a Mains Unvented Kit, Domestic Hot Water Mixing Valve, 3kW Immersion heater and 2 Port Valve.

ACV UK Ltd advise the installation of a Domestic hot water mixing valve on the hot flow immediately after the appliance.

FLOOR STANDING ONLY



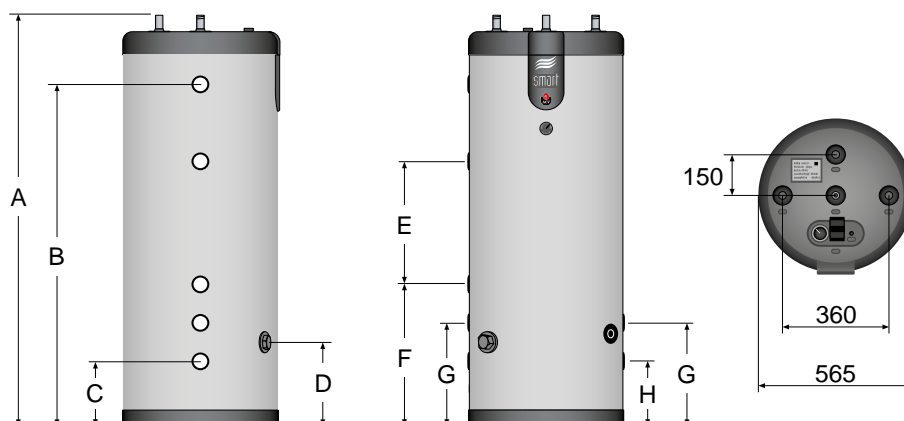
TECHNICAL CHARACTERISTICS AND DIMENSIONS

TYPE		SLE+ 210	SLE+ 240	SLE+ 300
Capacity (total)	L	203	242	293
Capacity (primary)	L	77	78	93
Connection - primary	Ø"	1F	1F	1F
Connection - DHW	Ø"	3/4 M	3/4 M	3/4 M
Connection - re-circulation/safety valve	Ø"	3/4 M	3/4 M	3/4 M
Max operating temperature (DHW)	°C	80	80	80
Max operating pressure (DHW)	bar	8.6	8.6	8.6
Max operating pressure heating (primary)	bar	3	3	3
Dimension A	mm	1493	1741	2046
Dimension B	mm	1230	1477	1785
Dimension C	mm	233	233	233
Dimension D	mm	312	303	338
Dimension E	mm	937	1068	1278
Dimension F	mm	472	453	523
Dimension G	mm	352	343	378
Dimension H	mm	233	233	233
Weight (empty)	kg	66	76	87
Energy efficiency storage class		B	B	B

DOMESTIC HOT WATER PERFORMANCE

TYPE		SLE+ 210	SLE+ 240	SLE+ 300
Peak flow at 40°C	L/10'	406	547	800
Peak flow 1st hour at 40°C	L/60'	1349	1820	2360
Continuous flow at 40°C	L/h	1132	1527	2100
Peak flow at 45°C	L/10'	348	469	600
Peak flow 1st hour at 45°C	L/60'	1156	1560	1988
Continuous flow at 45°C	L/h	970	1309	1665
Peak flow at 60°C	L/10'	209	272	370
Peak flow 1st hour at 60°C	L/60'	689	913	1100
Continuous flow at 60°C	L/h	576	769	970
Reheat time (EN12897:2006)	min	9	9	9
Max absorbed heat (Heat source: boiler)	kW	39	53	68
Heating surface area	m	1.54	1.94	2.29

Performance data assumes: Primary flow temperature 85 °C - Domestic cold water supply 10 °C





DESCRIPTION

Multi-Energy floor standing tank. Designed for a range of applications and a multiple choice of energy sources.

- Flexible design options for specifiers and installers.
- 3.5 Bar Mains water SystemPak and DHW mixing valve supplied as standard (except Smart SLME800 model).
- Increased heating surface for rapid domestic hot water recovery.
- Large primary volume allows for greater thermal store.
- Can be used as a low loss header for heating circuit.
- Immersion heater in primary circuit (except Smart SLME800).
- 3kW or 6kW immersion heater options (except Smart SLME800).
- Stainless steel domestic hot water cylinder.
- Carbon steel coil.
- Thick polypropylene jacket. Hard wearing and shock resistant. (100mm Polyurethane mattress for models SLME600 and SLME800).
- Additional primary connections available for an underfloor heating circuit.
- Anti-Legionella: Storage temperature > 60°C.
- Stainless steel domestic cylinder - 25 Year guarantee.

TANK-IN-TANK TECHNOLOGY

The unique design of our Multi energy cylinder with its large primary store makes the SLME the perfect partner for Solar, Heat pumps, Pellet burners, Heat recovery systems, District heating applications and much more.

REFERENCE	NAME	
XB312000	Smart ME 200 Complete with Mains kit and DHW Mixing valve	B
XB313000	Smart ME 300 Complete with Mains kit and DHW Mixing valve	C
XB314000	Smart ME 400 Complete with Mains kit and DHW Mixing valve	C
XB316000	Smart ME 600 Complete with Mains kit and DHW Mixing valve	
06625301	Smart ME 800 (mains kit and mixing valve not included)	

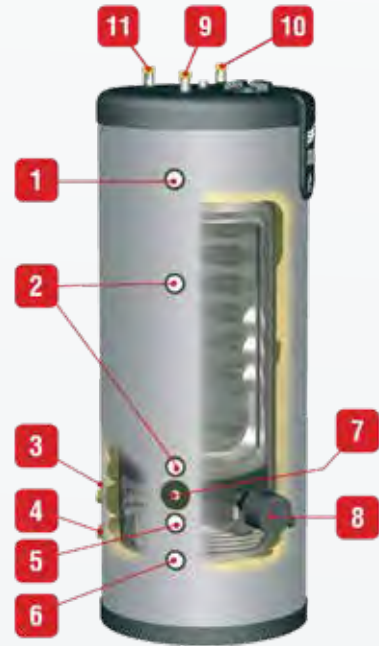
ACCESSORIES

REFERENCE	DESCRIPTION
XB080600	6kW Immersion Heater - Single Phase
10800084	6kW Immersion Heater - Three Phase

Smartline Multi Energy tanks sizes 200 litre to 600 litre come complete with an unvented Mains SystemPak as standard, which includes a mains unvented kit, domestic hot water mixing valve, 3kW Immersion heater and 2 port valve. Unvented kits for the SLME800 should be sized separately. Please contact us for assistance.

ACV UK Ltd advises the installation of a Domestic hot water mixing valve on the hot flow immediately after the appliance.

CHARACTERISTICS



1. Primary hot water flow
2. Primary return
3. Coil flow
4. Coil return
5. Heating circuit flow
6. Heating circuit return
7. Drywell pocket for sensors
8. Immersion heater connection (not available on SLME 800)
9. Cold water inlet
10. Domestic hot water outlet
11. Aux connection

FLOOR STANDING ONLY



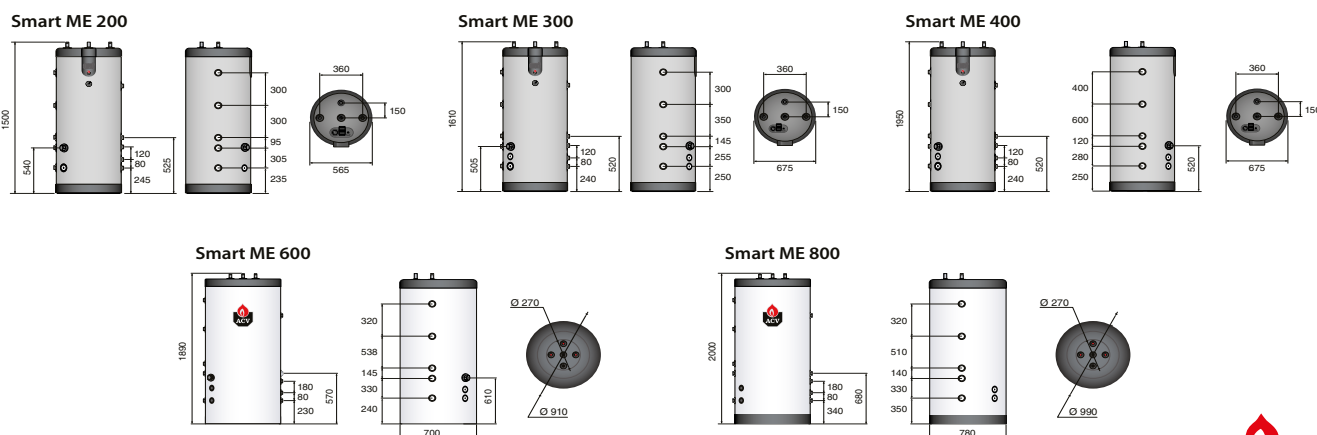
TECHNICAL CHARACTERISTICS AND DIMENSIONS

TYPE		SLME 200	SLME 300	SLME 400	SLME 600	SLME 800
Capacity (total)	L	203	303	395	606	800
Capacity (primary)	L	95.7	165	219	365	517
Connection - primary	Ø"	1F	1F	1F	1F	1F
Connection - DHW	Ø"	3/4 M	3/4 M	3/4 M	3/4 M	11/2 M
Connection - re-circulation/safety valve	Ø"	3/4 M	3/4 M	3/4 M	3/4 M	11/2 M
Connection - Heating element	Ø"	11/2F	11/2F	11/2F	11/2F	-
Connection - Coil	Ø"	1M	1M	1M	1M	1M
Primary heater pressure drop (EN12897:2006)	mbar	41.6	51.2	53.5	55.6	58.5
Corresponding flow in coil	L/h	3000	3000	3000	3000	3000
Pressure drop in coil	mbar	460	533	533	186	216
Max absorbed heat (Heat source: Coil)	kW	16	19	25	29	35
Max operating temperature (DHW)	°C	80	80	80	80	80
Max operating pressure (DHW)	bar	8.6	8.6	8.6	8.6	8.6
Max operating pressure heating (primary)	bar	4	4	4	4	4
Max operating pressure (coil)	bar	10	10	10	10	10
Dim - width or Ø" without insulation and connections	mm	-	-	-	703	780
Weight (empty)	kg	68	99	120	180	220
Energy efficiency storage class		B	C	C	-	-

DOMESTIC HOT WATER PERFORMANCE

TYPE		SLME 200	SLME 300	SLME 400	SLME 600	SLME 800
Peak flow at 40°C	L/10'	321	418	558	686	922
Peak flow 1st hour at 40°C	L/60'	1063	1225	1633	1872	2666
Continuous flow at 40°C	L/h	890	967	1289	1423	2093
Peak flow at 45°C	L/10'	275	348	464	582	790
Peak flow 1st hour at 45°C	L/60'	911	1003	1338	1559	2285
Continuous flow at 45°C	L/h	763	786	1048	1172	1794
Peak flow at 60°C	L/10'	161	206	274	358	504
Peak flow 1st hour at 60°C	L/60'	536	590	786	935	1368
Continuous flow at 60°C	L/h	450	461	614	693	1037
Reheat time	min	10	10	10	10	10
Max absorbed heat (Heat source: boiler)	kW	31	32	43	48	73
Tank heating surface	m	1.26	1.46	1.94	1.90	2.65
Coil heating surface	m	1.42	1.80	1.80	2.50	3.00

Performance data assumes: Primary flow temperature 85 °C - Domestic cold water supply 10 °C





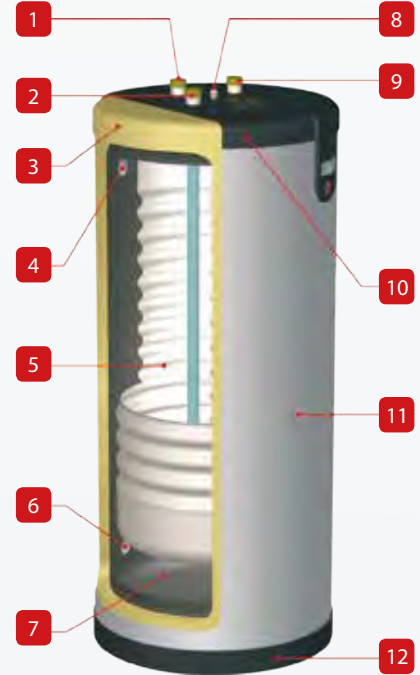
DESCRIPTION

Fast recovery Tank-in-Tank Cylinder - perfect partner to a condensing boiler.

- Stainless steel construction - no anode protection required.
- High quality insulation: 50 mm rigid polyurethane.
- Easy access control pod with thermostats and six pin plug for simple electrical connection.
- Hard wearing polypropylene finish.
- Vented or unvented use.
- Mains pressure SystemPak available.
- Residential or commercial use.
- Can be used in battery formation for higher hot water output.
- Anti-Legionella: Storage temperature > 60°C.
- Stainless steel domestic cylinder - 25 Year guarantee.

TANK-IN-TANK TECHNOLOGY

CHARACTERISTICS



1. Auxiliary connection DHW
2. Domestic cold water inlet
3. 50mm rigid polyurethane insulation
4. Primary fluid inlet
5. Internal stainless steel tank
6. Return connection (primary circuit)
7. Outer steel tank containing the primary fluid
8. Manual air vent
9. Domestic hot water outlet
10. Polypropylene lid
11. Outer jacket, thick polypropylene shell
12. Polypropylene reinforced base

REFERENCE	NAME	
06618501	Smart 320	C
06618601	Smart 420	C
06619301	Smart 600	

ACCESSORIES - SINGLE TANK INSTALLATION

REFERENCE	DESCRIPTION
XB050019	1" Mains SystemPak - Unvented kit with 25 litre expansion vessel - SL320
XB050020	1" Mains SystemPak - Unvented Kit with 60 Litre Vessel - SL420 & SL600
XB050025	1" DHW Mixing Valve SL320 to SL600

FLOOR STANDING ONLY

Smartline tanks can be linked together on a larger unvented kit to achieve a higher hot water output. Please contact your local Business Development Manager for sizing guidance.

ACV UK Ltd advises the installation of a domestic hot water mixing valve on the hot flow immediately after the appliance.

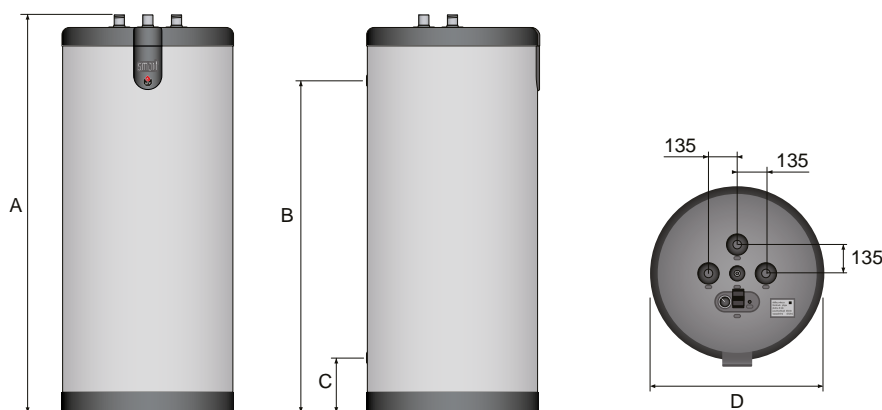
TECHNICAL CHARACTERISTICS AND DIMENSIONS

TYPE		SL 320	SL 420	SL 600
Capacity (total)	L	318	413	606
Capacity (primary)	L	55	55	161
Connection - primary	Ø"	1 1/2 F	1 1/2 F	2 F
Connection - DHW	Ø"	1 1/2 M	1 1/2 M	1 1/2 M
Connection - re-circulation/safety valve	Ø"	1 1/2 M	1 1/2 M	1 1/2 M
Max operating temperature (DHW)	°C	80	80	80
Max operating pressure (DHW)	bar	8.6	8.6	8.6
Max operating pressure heating (primary)	bar	4	4	4
Dimensions A	mm	1602	2024	1901
Dimensions B	mm	1280	1705	1583
Dimensions C	mm	250	250	255
Dimensions D	mm	673	673	817
Weight (empty)	kg	141	167	238
Energy efficiency storage class		C	C	-

DOMESTIC HOT WATER PERFORMANCE

TYPE		SL 320	SL 420	SL 600
Peak flow at 40°C	L/10'	922	1195	1345
Peak flow 1st hour at 40°C	L/60'	2666	3151	3437
Continuous flow at 40°C	L/h	2093	2536	2511
Peak flow at 45°C	L/10'	790	1012	1153
Peak flow 1st hour at 45°C	L/60'	2285	2608	2946
Continuous flow at 45°C	L/h	1794	2058	2152
Peak flow at 60°C	L/10'	504	620	706
Peak flow 1st hour at 60°C	L/60'	1368	1513	1733
Continuous flow at 60°C	L/h	1037	1153	1232
Pre-heating time from 10 to 80°C (Heat source: boiler)	min	23	24	35
Max absorbed heat (Heat source: boiler)	kW	73	88	88
Heating surface area	m	2.65	3.24	3.58

Performance data assumes: Primary flow temperature 85 °C - Domestic cold water supply 10 °C





HRs 800 > 1000



DESCRIPTION

Fast recovery, high volume Tank-in-Tank hot water storage.

- Tank-in-Tank floor standing indirect hot water storage tank.
- Stainless steel construction - no need for sacrificial anodes.
- High performance - fast heat up and rapid recovery.
- Low heat loss - 100mm polyurethane insulation foam.
- Two sizes - 800 and 1000 litres.
- Can be used in battery formation for high output installations.
- Vented or unvented use, with mains pressure SystemPak available.
- Large heating surface area means reduced boiler cycling.
- Anti-Legionella : Storage temperature > 60 °C
- Stainless steel domestic cylinder - 25 Year guarantee.

TANK-IN-TANK TECHNOLOGY

CHARACTERISTICS*



1. DHW outlet
2. Auxiliary DHW connection
3. Cold Water inlet
4. Primary circuit inlet
5. Inner stainless steel tank
6. Primary circuit outlet
7. Handhole
8. Stainless steel dry-well
9. Manual Bleed Valve
10. Outer (primary) Steel Tank

REFERENCE	NAME
06633001	HRs 800
06633101	HRs 1000

ACCESSORIES

REFERENCE	DESCRIPTION
XB090017	1.5" Unvented mains systempak
XB090016	80 Litre expansion vessel - Jumbo 800
XB090009	100 Litre expansion vessel - Jumbo 1000
XB090003	1" Temperature and pressure relief valve
XB070004	1.5" Recirculation DHW mixing valve

FLOOR STANDING ONLY

HRs tanks can be linked together on a larger unvented kit to achieve a higher hot water output. Please contact your local Business Development Manager for sizing guidance.

ACV UK Ltd advises the installation of a domestic hot water mixing valve on the hot flow immediately after the appliance.

***TANK SHOWN WITHOUT INSULATION**





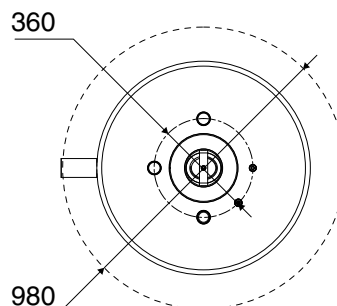
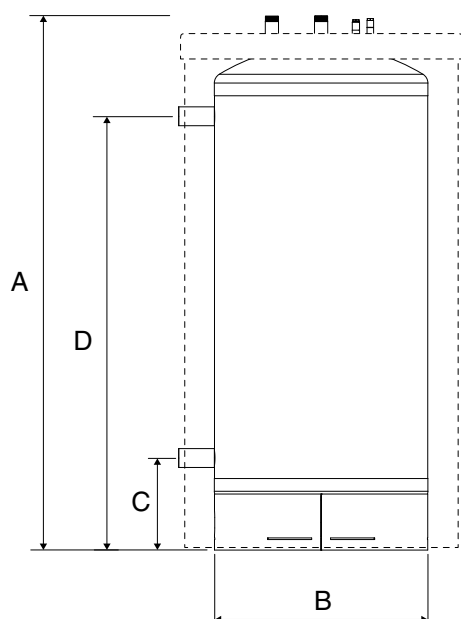
TECHNICAL CHARACTERISTICS AND DIMENSIONS

TYPE		HRs 800	HRs 1000
Capacity (Total)	L	800	1000
Capacity (Primary)	L	125	160
Capacity (DHW)	L	675	840
Connection - Primary	Ø"	2 F	2 F
Connection - DHW	Ø"	1 1/2 M	1 1/2 M
Connection - Re-circulation/safety valve	Ø"	1 1/2 M	1 1/2 M
Max operating temperature	°C	80	80
Max operating pressure heating (primary)	bar	4	4
Max operating pressure (DHW)	bar	8.6	8.6
Dimensions A	mm	1955	2355
Dimensions B	mm	780	780
Dimensions C	mm	335	335
Dimensions D	mm	1585	1985
Weight (empty)	kg	261	308

DOMESTIC HOT WATER PERFORMANCE

TYPE		HRs 800	HRs 1000
Peak flow at 40°C	L/10'	1881	2265
Peak flow 1st hour at 40°C	L/60'	4270	4940
Continuous flow at 40°C	L/h	2868	3210
Peak flow at 45°C	L/10'	1612	1941
Peak flow 1st hour at 45°C	L/60'	3660	4234
Continuous flow at 45°C	L/h	2458	2751
Peak flow at 60°C	L/10'	961	1145
Peak flow 1st hour at 60°C	L/60'	2124	2438
Continuous flow at 60°C	L/h	1395	1562
Heating surface area	m ²	4.56	5.50
Reheat power	kW	82	97

Performance data assumes: Primary flow temperature 85 °C - Domestic cold water supply 10 °C



HRs 800 - 1000



CONDENSING BOILERS

ACV Condensing boilers A single control for **Prestige®** and **HeatMaster®**



ACVMax

- > Uniform user interface over the entire ACV condensing range
- > LCD Pictorial display with precise instructions
- > Wide range of features



PRESTIGE®

- > Wall mounted gas condensing boiler
- > Solo (heating only) and Excellence (heating and hot water)
- > Complete with ACVMax control

HeatMaster® C/TC

- > Floor standing gas condensing boiler
- > Combination unit - Heating and hot water
- > Condenses in both heating and hot water mode (TC)
- > Complete with ACVMax control





HEATMASTER® 25 C

DESCRIPTION

Gas Fired Condensing Combined boiler and Water Heater.

- Equipped with the ACVMax control system.
- Floor standing boiler with large primary water volume, adaptable to all types of existing installation.
- Responds to high peak demand and high continuous flow.
- Exceptional domestic hot water flow: >35L/min.
- NOx rating (EN483) 22.8/kWh.
- Seasonal Efficiency 96.8%
- Stainless steel Tank-in-Tank DHW cylinder with proven long life reliability.
- Anti Legionellae: hot water stored at consistently high temperature.
- Stainless steel self-cleaning heat exchanger
- High efficiency boiler charging pump (released in April 2016).
- Concentric balanced flue or conventional flue options.
- Can also be used as a stand alone water heater.
- Stainless steel domestic cylinder - 25 Year guarantee.

TANK-IN-TANK TECHNOLOGY

REFERENCE	NAME	FUEL
XB600002	HeatMaster® 25 C	Natural gas A B

The HeatMaster® 25C comes complete with a Mains SystemPak and DHW mixing valve as standard.

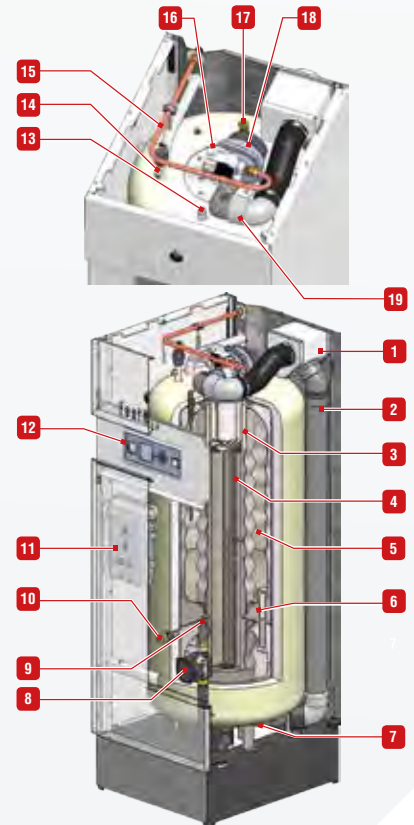
ACV UK Ltd advises the installation of a domestic hot water mixing valve on the hot flow immediately after the appliance.

FLUE ACCESSORIES CAN BE FOUND ON **PAGE 49** OF THIS PRODUCT GUIDE

10
YEAR
WARRANTY

NOW WITH A 10 YEAR WARRANTY ON THE STAINLESS STEEL HEAT EXCHANGER*

CHARACTERISTICS



1. Concentric flue gas/air inlet box
2. Flue gas exhaust tube
3. Combustion chamber
4. Stainless steel heat exchanger
5. Stainless steel "Tank-in-Tank" hot water production tank
6. DHW circuit tube
7. Condensate recovery dish
8. High efficiency circulator pump
9. NTC sensor (heating circuit)
10. Pressure sensor
11. Electrical panel (with spare fuses at the back)
12. ACVMax Control panel
13. DHW tank dry well (Sparger tube with temperature sensor)
14. Automatic air vent
15. Gas pipe
16. Gas valve
17. Connection for DHW safety valve (to be installed)
18. Modulating air/gas premix burner with fan
19. Air inlet

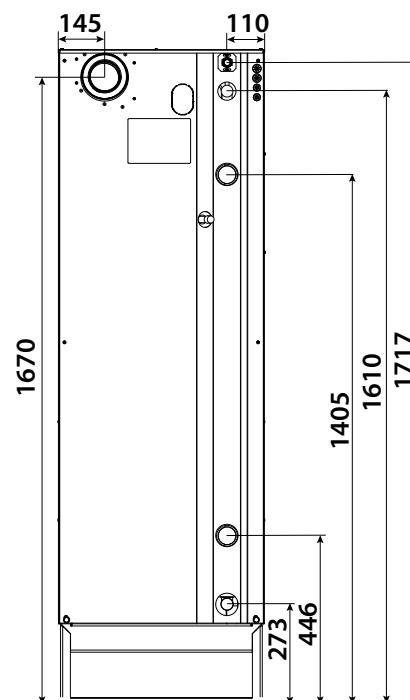
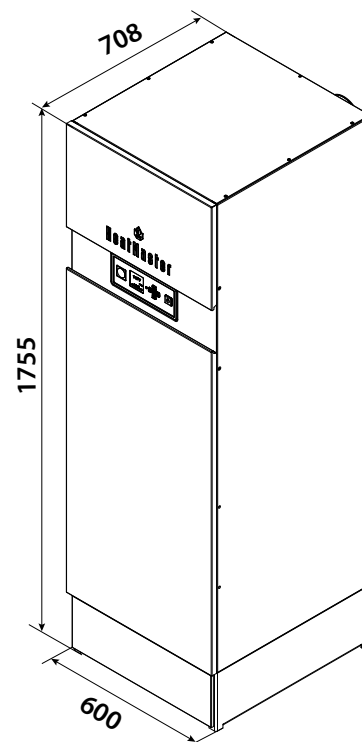
SUPPLIED WITH LPG KIT FOR EASY ON-SITE CONVERSION



TECHNICAL CHARACTERISTICS AND DIMENSIONS

TYPE		HM 25 C
Fuel		Natural gas
Input max (heating) LCV	kW	25
Input max (heating) HCV	kW	27.8
Output power max (80/60°C)	kW	24.3
Output power min (80/60°C)	kW	6.1
Efficiency at 30% load (EN677)	%	109
Capacity (domestic hot water)	L	80
Connection - heating	Ø"	1F
Connection - DHW	Ø"	3/4 M
Connection gas	Ø"	3/4 M
Water pressure drop boiler at ΔT = 20°C	mbar	3
Gas flow rate (max output)	m³/h	2.66
Gas flow rate (min output)	m³/h	0.65
Flue connection	Ømm	80/125
Weight (empty)	kg	174
Max operating temperature	°C	87
Max service pressure heating (primary)	bar	3
Max service pressure (DHW)	bar	8.6
Voltage	V	230
Electrical consumption	W	176
Declared Load profile		XXL
Energy efficiency class - Heating		A
Energy efficiency class - Hot water		B
NoX Class		5

DIMENSIONS



DOMESTIC HOT WATER PERFORMANCE

TYPE		HM 25 C
Peak flow at 40°C	L/10'	234
Peak flow 1st hour at 40°C	L/60'	748
Continuous flow at 40°C	L/h	617
Peak flow at 60°C	L/10'	145
Peak flow 1st hour at 60°C	L/60'	478
Continuous flow at 60°C	L/h	400



HEATMASTER® 25 TC > 45 TC



DESCRIPTION

Heating and hot water production from one combination unit.

- Equipped with the ACVMax control system.
- Stainless steel self-cleaning heat exchanger.
- Total Condensing unit - condenses in both heating and hot water mode.
- Can provide heating and hot water.
- Can deliver an exceptional peak and continuous volumes of hot water.
- Small footprint - Heating and hot water from one unit reduces plantroom space requirements.
- Floor standing boiler with large volume of primary water, ideal for existing heating systems.
- Multiple units can be linked for larger applications or back up.
- Can be installed along with Prestige® heat only boilers or Smartline cylinders to provide a perfect solution to your heating and hot water requirements.
- A' rated integral charging pump.
- Vented or unvented use - Mains systempak available.
- Stainless steel domestic hot water cylinder - 25 Year guarantee.
- Available in 6 sizes.

TANK-IN-TANK TECHNOLOGY

REFERENCE	NAME	FUEL	A	A
05652101	HeatMaster® 25 TC	Natural gas	A	A
05652201	HeatMaster® 35 TC	Natural gas	A	A
05652301	HeatMaster® 45 TC	Natural gas	A	A

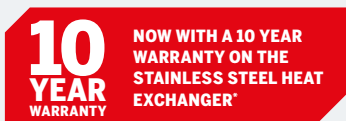
ACCESSORIES

REFERENCE	DESCRIPTION
XB050019	SystemPak 3 - 1" Mains Unvented Kit
XB050025	1" Domestic Hot Water Mixing Valve.

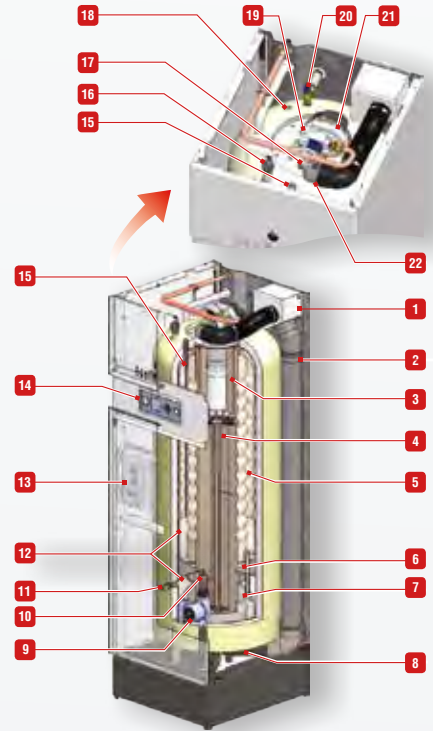
For installations with 2 or more boilers, please consult your local Business Development Manager for guidance on sizing the unvented kit and control accessories. Contact details can be found on Page 1 of this product guide.

ACV UK Ltd advises the installation of a domestic hot water mixing valve on the hot flow immediately after the appliance.

FLUE ACCESSORIES CAN BE FOUND ON PAGE 49 OF THIS PRODUCT GUIDE



CHARACTERISTICS



1. Concentric flue gas/air inlet box
2. Flue gas exhaust tube
3. Combustion chamber
4. Stainless steel heat exchanger
5. Stainless steel "Tank-in-Tank" hot water production tank
6. Primary circuit separation disc
7. Indirect water pre-heater
8. Condensate recovery dish + NTC5 sensor (flue gas)
9. High efficiency circulator pump
10. NTC2 sensor (CH return)
11. Pressure sensor
12. Heating circuit
13. Electrical panel (with spare fuses at the back)
14. ACVMax Control panel
15. DHW tank dry well (Dip tube with temperature sensor)
16. Automatic air vent
17. Gas pressure switch
18. NTC1 sensor (CH supply)
19. Gas valve
20. DHW safety valve / (T & P relief valve - UK only)
21. Modulating air/gas premix burner with fan
22. Air inlet

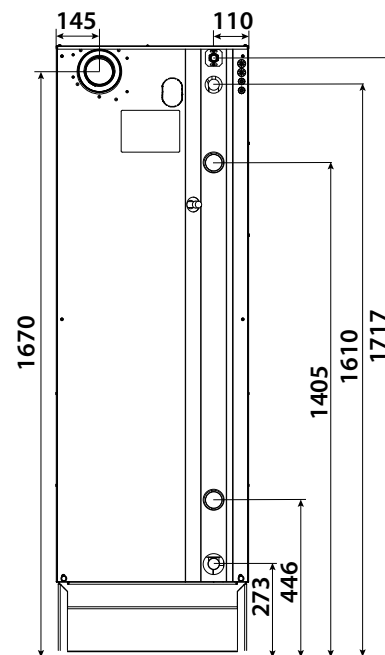
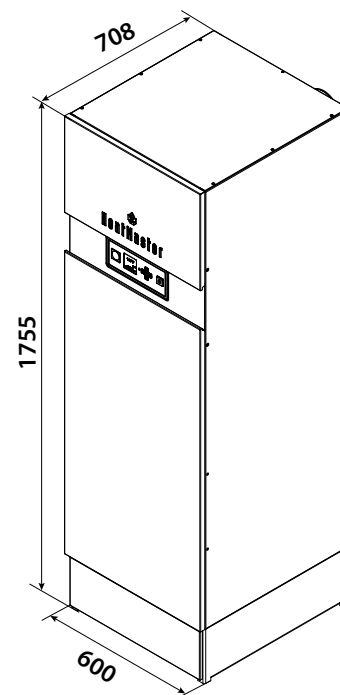
SUPPLIED WITH LPG KIT FOR EASY ON-SITE CONVERSION



TECHNICAL CHARACTERISTICS AND DIMENSIONS

TYPE		HM 25 TC	HM 35 TC	HM 45 TC
Fuel		Natural gas	Natural gas	Natural gas
Input max (heating) LCV	kW	25	34.9	45.6
Input max (heating) HCV	kW	27.7	38.8	50.7
Output power max (80/60°C)	kW	24.3	34	44.7
Output power min (80/60°C)	kW	10.2	9.8	8.8
Efficiency at 30% load (EN677)	%	108.9	108.9	108.9
Capacity (domestic hot water)	L	100	100	100
Connection - heating	Ø"	1F	1F	1F
Connection - DHW	Ø"	1M	1M	1M
Connection gas	Ø"	3/4 M	3/4 M	3/4 M
Water pressure drop boiler at ΔT = 20°C	mbar	3	6	10
Gas flow rate (max output)	m³/h	2.64	3.75	4.8
Gas flow rate (min output)	m³/h	1.08	1.04	0.97
Flue connection	Ømm	80/125	80/125	80/125
Weight (empty)	kg	177	177	177
Max operating temperature	°C	87	87	87
Max service pressure heating (primary)	bar	3	3	3
Max service pressure (DHW)	bar	8.6	8.6	8.6
Voltage	V	230	230	230
Electrical consumption	W	95	111	126
Declared Load profile		XXL	XXL	XXL
Energy efficiency class - Heating		A	A	A
Energy efficiency class - Hot water		A	A	A
NoX Class		5	5	5

DIMENSIONS



DOMESTIC HOT WATER PERFORMANCE

TYPE		HM 25 TC	HM 35 TC	HM 45 TC
Peak flow at 40°C	L/10'	361	408	471
Peak flow 1st hour at 40°C	L/60'	1018	1328	1610
Continuous flow at 40°C	L/h	788	1104	1390
Peak flow at 45°C	L/10'	301	339	373
Peak flow 1st hour at 45°C	L/60'	865	1127	1366
Continuous flow at 45°C	L/h	676	946	1192
Peak flow at 60°C	L/10'	183	197	320
Peak flow 1st hour at 60°C	L/60'	577	749	894
Continuous flow at 60°C	L/h	473	662	820



HEATMASTER® 70 > 120 TC

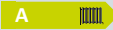



DESCRIPTION

Gas fired Condensing combined boiler and water heater.

- Equipped with the ACVMax control system.
- Stainless steel self-cleaning heat exchanger.
- Total Condensing unit - condenses in both heating and hot water mode.
- Can provide heating and hot water.
- Can deliver an exceptional peak and continuous volumes of hot water.
- Small footprint - Heating and hot water from one unit reduces plantroom space requirements.
- Floor standing boiler with large volume of primary water, ideal for existing heating systems.
- Multiple units can be linked for larger applications or back up.
- Can be installed along with Prestige® heat only boilers or Smartline cylinders to provide a perfect solution to your heating and hot water requirements.
- Vented or unvented use - Mains SystemPak available.
- 'A' rated integral charging pump.
- Stainless steel domestic hot water cylinder - 25 Year guarantee.
- Available in 6 sizes.

TANK-IN-TANK TECHNOLOGY

REFERENCE	NAME	FUEL
05652401	HeatMaster® 70 TC	Natural gas  
05652501	HeatMaster® 85 TC	Natural gas
05652601	HeatMaster® 120 TC	Natural gas

ACCESSORIES

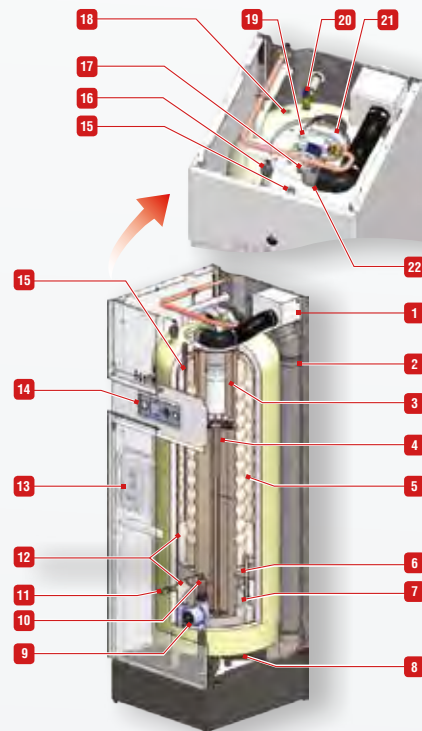
REFERENCE	DESCRIPTION
XB050019	SystemPak 3 - 1" Mains Unvented Kit
XB050025	1" DHW Mixing Valve

For installations with 2 or more boilers, please consult your local Business Development Manager for guidance on sizing the unvented kit and control accessories. Contact details can be found on Page 1 of this product guide.

ACV UK Ltd advises the installation of a domestic hot water mixing valve on the hot flow immediately after the appliance.

FLUE ACCESSORIES CAN BE FOUND ON PAGE 50 OF THIS PRODUCT GUIDE

CHARACTERISTICS



1. Concentric flue gas/air inlet box
2. Flue gas exhaust tube
3. Combustion chamber
4. Stainless steel heat exchanger
5. Stainless steel "Tank-in-Tank" hot water production tank
6. Primary circuit separation disc
7. Indirect water pre-heater
8. Condensate recovery dish + NTC5 sensor (flue gas)
9. High efficiency circulator pump
10. NTC2 sensor (CH return)
11. Pressure sensor
12. Heating circuit
13. Electrical panel (with spare fuses at the back)
14. ACVMax Control panel
15. DHW tank dry well (Dip tube with temperature sensor)
16. Automatic air vent
17. Gas pressure switch
18. NTC1 sensor (CH supply)
19. Gas valve
20. DHW safety valve / (T & P relief valve - UK only)
21. Modulating air/gas premix burner with fan
22. Air inlet

SUPPLIED WITH LPG KIT FOR EASY ON-SITE CONVERSION

10
YEAR
WARRANTY

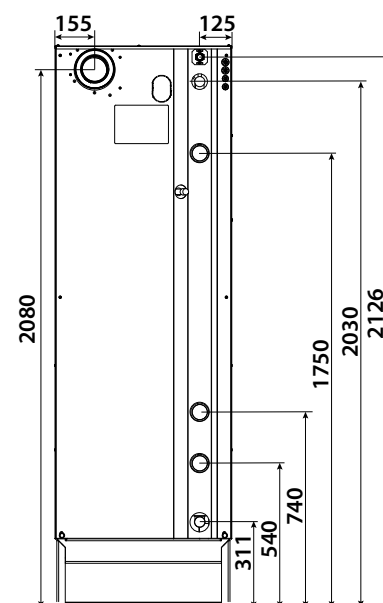
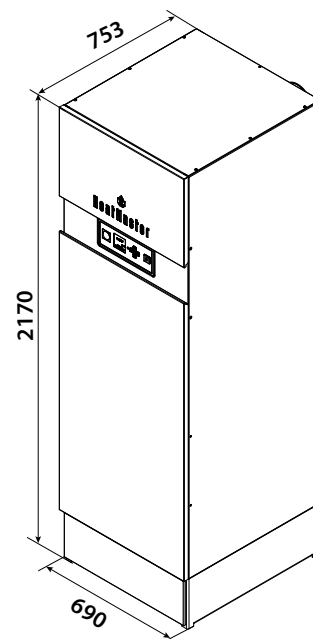
NOW WITH A 10 YEAR WARRANTY ON THE STAINLESS STEEL HEAT EXCHANGER*



TECHNICAL CHARACTERISTICS AND DIMENSIONS

TYPE		HM 70 TC	HM 85 TC	HM 120 TC
Fuel		Natural gas	Natural gas	Natural gas
Input max (heating) LCV	kW	69.9	85	115
Input max (heating) HCV	kW	77.6	94.4	127.7
Output power max (80/60°C)	kW	68.0	82.5	111.6
Output power min (80/60°C)	kW	20.9	20.5	24.3
Output at 100% (80/60°C) G20	kW	68.0	82.9	111.7
Efficiency at 30% load (EN677)	%	109.0	108	108
Capacity (total)	L	315	315	315
Capacity (domestic hot water)	L	190	190	190
Connection - heating	Ø"	1 1/2 F	1 1/2 F	1 1/2 F
Connection - DHW	Ø"	1 M	1 M	1 M
Connection gas	Ø"	3/4 M	3/4 M	3/4 M
Flue: max length of concentric flue pipe	m	24	22	21
Gas flow rate (max output)	m³/h	7.2	8.6	12
Flue connection	Ømm	100/150	100/150	100/150
Weight (empty)	kg	298	298	299
Max operating temperature	°C	87	87	87
Max service pressure heating (primary)	bar	3	3	3
Max service pressure (DHW)	bar	8.6	8.6	8.6
Voltage	V	230	230	230
Electrical consumption	W	210	266	327
Declared load profile		XXL	-	-
Space heating energy efficiency class		A	-	-
Water heating energy efficiency class		A	-	-
NoX Class		5	5	5

DIMENSIONS



DOMESTIC HOT WATER PERFORMANCE

TYPE		HM 70 TC	HM 85 TC	HM 120 TC
Peak flow at 40°C	L/10'	716	783	900
Peak flow 1st hour at 40°C	L/60'	2455	2895	3620
Continuous flow at 40°C	L/h	2087	2534	3402
Peak flow at 45°C	L/10'	592	646	676
Peak flow 1st hour at 45°C	L/60'	2083	2456	3098
Continuous flow at 45°C	L/h	1789	2172	2928
Peak flow at 60°C	L/10'	348	371	440
Peak flow 1st hour at 60°C	L/60'	1391	1638	1847
Continuous flow at 60°C	L/h	1252	1520	1754

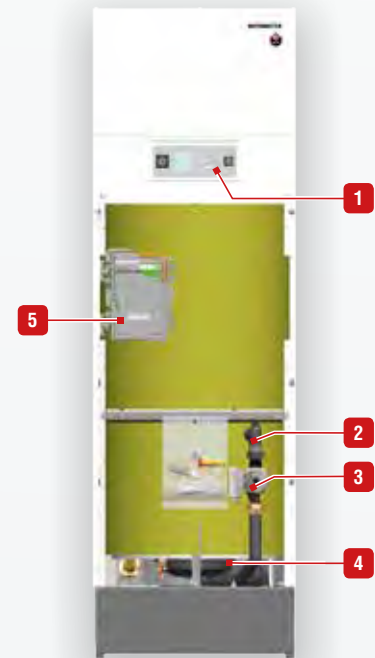


DESCRIPTION

Stand alone hot water generator.

- Certified EN89 - Ecodesign Lot 2 (EN 812/2013 - EN 814/2013).
- Equipped with the ACVMax burner and modbus controls.
- Condenses in hot water mode.
- Can deliver an exceptional peak and continuous volumes of hot water.
- Stainless Steel domestic hot water tank - no anode protection required.
- Space saving footprint - reduced plantroom space requirement.
- Stainless steel heat exchanger reduces maintenance and can increase system lifespan.
- Multiple units can be linked for larger applications or back up.
- Vented or unvented use - Mains systempak available.
- Anti-legionellae : t° storage > 60° C.
- Available in 6 power outputs.
- Stainless steel domestic cylinder - 25 Year guarantee.

CHARACTERISTICS



TANK-IN-TANK TECHNOLOGY

REFERENCE	NAME	FUEL	
XB610003	WaterMaster 25	Natural gas	A
XB610004	WaterMaster 35	Natural gas	A
XB610005	WaterMaster 45	Natural gas	A

ACCESSORIES

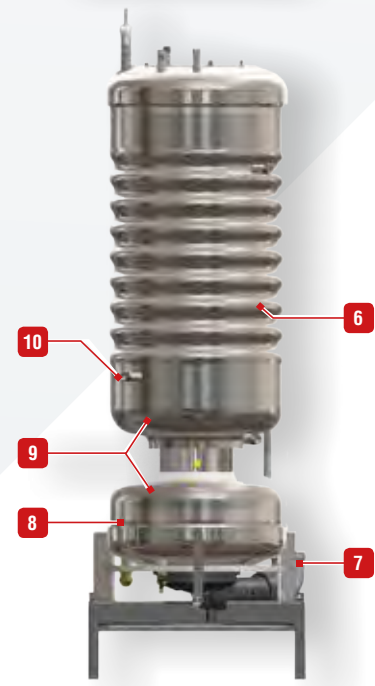
REFERENCE	DESCRIPTION
XB050019	SystemPak 3 - 1" Mains Unvented Kit
XB050025	1" DHW Mixing Valve

For installations with 2 or more water heaters, please consult your local Business Development Manager for guidance on sizing the unvented kit and control accessories. Contact details can be found on Page 1 of this product guide.

ACV UK Ltd advises the installation of a domestic hot water mixing valve on the hot flow immediately after the appliance.

FLUE ACCESSORIES CAN BE FOUND ON **PAGE 49** OF THIS PRODUCT GUIDE

10 YEAR WARRANTY
NOW WITH A 10 YEAR WARRANTY ON THE STAINLESS STEEL HEAT EXCHANGER*



1. ACVMax Control panel
2. NTC sensor (primary circuit)
3. High efficiency circulator pump
4. Condensate recovery dish
5. Electrical panel (with spare fuses at the back)
6. "Tank-in-Tank" hot water production tank
7. Flue gas exhaust tube
8. Indirect water pre-heater
9. Primary circuit
10. Pressure sensor

SUPPLIED WITH LPG KIT FOR EASY ON-SITE CONVERSION

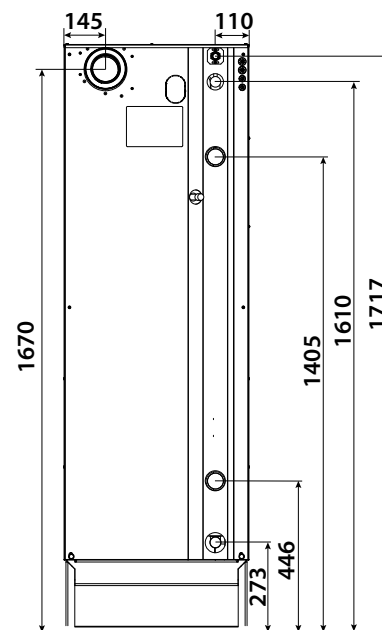
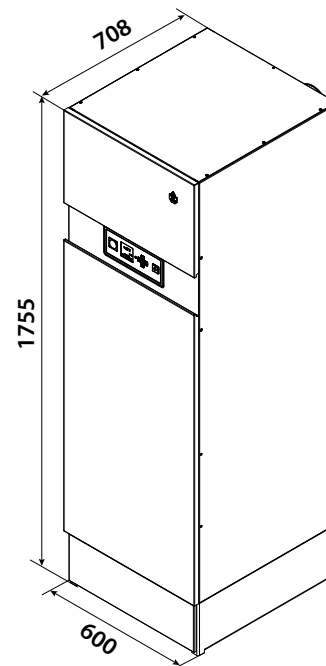
Direct fired hot water generator



TECHNICAL CHARACTERISTICS AND DIMENSIONS

TYPE		WM 25	WM 35	WM 45
Fuel		Natural gas	Natural gas	Natural gas
Input max	kW	25	35	45
Input min	kW	5	7	9
DHW efficiency (EN89)	%	108.5	108.5	108.5
Capacity (domestic hot water)	L	96	96	96
Primary circuit	Ø"	1F	1F	1F
Connection - DHW	Ø"	1M	1M	1M
Connection gas	Ø"	3/4 M	3/4 M	3/4 M
Water pressure drop boiler at ΔT = 20°C	mbar	3	6	10
Gas flow rate (max output)	m³/h	2.66	3.64	4.67
Gas flow rate (min output) G20	m³/h	0.5	0.7	0.9
Flue connection	Ømm	80/125	80/125	80/125
Weight (empty)	kg	177	177	177
Max operating temperature	°C	87	87	87
Max service pressure heating (primary)	bar	3	3	3
Max service pressure (DHW)	bar	8.6	8.6	8.6
Voltage	V	230	230	230
Electrical consumption	W	95	111	126
Declared load profile		L	L	L
Energy efficiency class		A	A	A
NoX Class		5	5	5

DIMENSIONS



DOMESTIC HOT WATER PERFORMANCE

TYPE		WM 25	WM 35	WM 45
Peak flow at 40°C	L/10'	361	408	471
Peak flow 1st hour at 40°C	L/60'	1018	1328	1610
Continuous flow at 40°C	L/h	788	1104	1390
Peak flow at 45°C	L/10'	301	339	373
Peak flow 1st hour at 45°C	L/60'	865	1127	1366
Continuous flow at 45°C	L/h	676	946	1192
Peak flow at 60°C	L/10'	183	197	320
Peak flow 1st hour at 60°C	L/60'	577	749	894
Continuous flow at 60°C	L/h	473	662	820

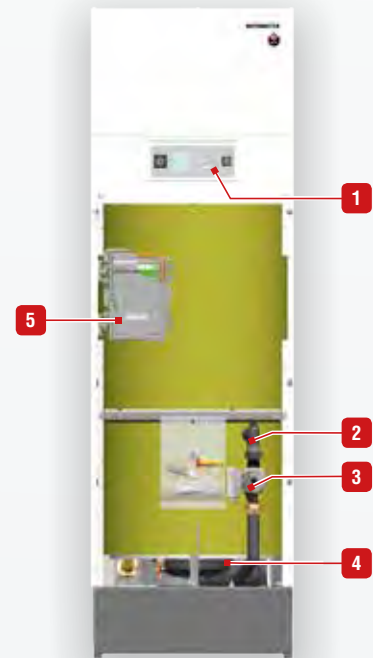


DESCRIPTION

Stand alone hot water generator.

- Certified EN89 - Ecodesign Lot 2 (EN 812/2013 - EN 814/2013).
- Equipped with the ACVMax burner and modbus controls.
- Condenses in hot water mode.
- Can deliver an exceptional peak and continuous volumes of hot water.
- Stainless Steel domestic hot water tank - no anode protection required.
- Space saving footprint - reduced plantroom space requirement.
- Stainless steel heat exchanger reduces maintenance and can increase system lifespan.
- Multiple units can be linked for larger applications or back up.
- Vented or unvented use - Mains systempak available.
- Anti-légionella : t° storage > 60° C.
- Available in 6 power outputs.
- Stainless steel domestic cylinder - 25 Year guarantee.

CHARACTERISTICS



TANK-IN-TANK TECHNOLOGY

REFERENCE	NAME	FUEL	
XB610006	WaterMaster 75	Natural gas	A
XB610007	WaterMaster 85	Natural gas	A
XB610008	WaterMaster 120	Natural gas	A

ACCESSORIES

REFERENCE	DESCRIPTION
XB050019	SystemPak 3 - 1" Mains Unvented Kit
XB050025	1" DHW Mixing Valve

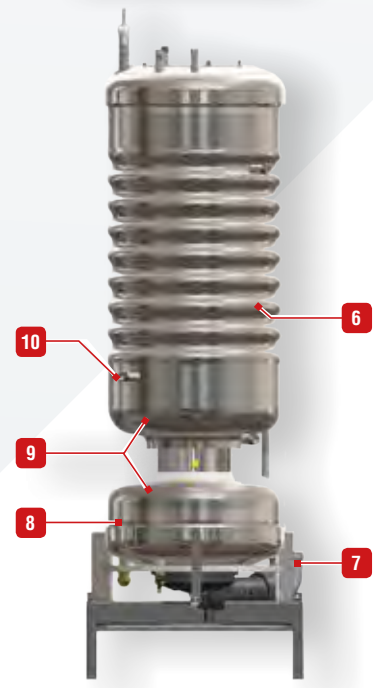
For installations with 2 or more water heaters, please consult your local Business Development Manager for guidance on sizing the unvented kit and control accessories. Contact details can be found on Page 1 of this product guide.

ACV UK Ltd advises the installation of a domestic hot water mixing valve on the hot flow immediately after the appliance.

FLUE ACCESSORIES CAN BE FOUND ON **PAGE 50** OF THIS PRODUCT GUIDE

10
YEAR
WARRANTY

NOW WITH A 10 YEAR WARRANTY ON THE STAINLESS STEEL HEAT EXCHANGER*



1. ACVMax Control panel
2. NTC sensor (primary circuit)
3. High efficiency circulator pump
4. Condensate recovery dish
5. Electrical panel (with spare fuses at the back)
6. "Tank-in-Tank" hot water production tank
7. Flue gas exhaust tube
8. Indirect water pre-heater
9. Primary circuit
10. Pressure sensor

SUPPLIED WITH LPG KIT FOR EASY ON-SITE CONVERSION

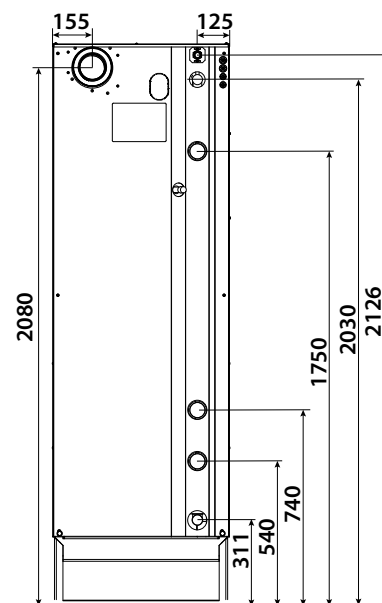
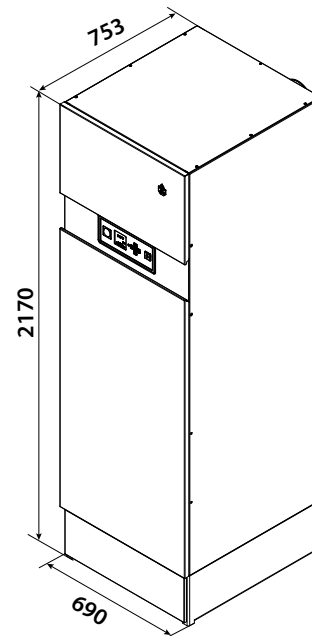
Direct fired hot water generator



TECHNICAL CHARACTERISTICS AND DIMENSIONS

TYPE		WM 70	WM 85	WM 120
Fuel		Natural gas	Natural gas	Natural gas
Input max	kW	69.9	85	115
Input min	kW	21.5	21	25
DHW efficiency (EN89)	%	107.7	107.7	107.7
Capacity (domestic hot water)	L	190	190	190
Connection - PRIMARY	Ø"	1 1/2 F	1 1/2 F	1 1/2 F
Connection - DHW	Ø"	1 M	1 M	1 M
Connection gas	Ø"	3/4 M	3/4 M	3/4 M
Water pressure drop boiler at ΔT = 20°C	mbar	9	14	27
Gas flow rate (max output)	m³/h	7.2	8.6	12
Gas flow rate (min output) G20	m³/h	2.6	2.6	2.5
Flue connection	Ømm	100/150	100/150	100/150
Weight (empty)	kg	298	298	299
Max operating temperature	°C	87	87	87
Max service pressure heating (primary)	bar	3	3	3
Max service pressure (DHW)	bar	8.6	8.6	8.6
Voltage	V	230	230	230
Electrical consumption (MAX)	W	210	266	327
Declared load profile		XXL	XXL	XXL
Energy efficiency class		A	A	A
NoX Class		5	5	5

DIMENSIONS



DOMESTIC HOT WATER PERFORMANCE

TYPE		WM 70	WM 85	WM 120
Peak flow at 40°C	L/10'	716	783	900
Peak flow 1st hour at 40°C	L/60'	2455	2895	3620
Continuous flow at 40°C	L/h	2087	2534	3402
Peak flow at 45°C	L/10'	592	646	676
Peak flow 1st hour at 45°C	L/60'	2083	2456	3098
Continuous flow at 45°C	L/h	1789	2172	2928
Peak flow at 60°C	L/10'	348	371	440
Peak flow 1st hour at 60°C	L/60'	1391	1638	1847
Continuous flow at 60°C	L/h	1252	1520	1754



DESCRIPTION

Wall mounted gas fired condensing boiler with integrated DHW tank-in-tank storage cylinder.

- Combination boiler with 62 litre total capacity stainless steel DHW 'Tank-in-Tank' incorporated.
- 3.5 Bar Mains water SystemPak and DHW mixing valve supplied as standard.
- New internal design for easy access to components and controls.
- Modulation 1 to 6 and a high efficiency over the entire operating range, even at low power.
- Stainless steel heat exchanger for high temperatures: unparalleled resistance to corrosion.
- Premix burner.
- 12 litre internal heating expansion vessel.
- Hydraulic kits and controls options are available.
- Concentric flue connection 60/100. May also be connected in 80/125 or 80/80.
- Can control 2 different circuits.
- Integral high efficiency boiler charging pump.

TANK-IN-TANK TECHNOLOGY

REFERENCE	NAME	FUEL	A	B
XB610001	Prestige® 24 Excellence	Natural gas		
XB610002	Prestige® 32 Excellence	Natural gas		

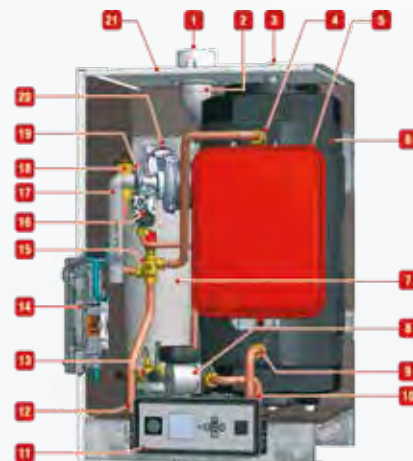
ACVMax



Further innovation in the new generation of Prestige® boiler is the all new ACVMax control, which has been designed to be flexible yet easy to use. The new control panel with integrated manometer and LCD provide all the necessary information with the simple push of a button. As well as monitoring the boiler to ensure optimal efficiency, the ACVMax offers many advanced control options, and native support for open protocols such as OpenTherm and Modbus, enabling easy integration to BMS.

FLUE ACCESSORIES CAN BE FOUND ON PAGE 49 OF THIS PRODUCT GUIDE

CHARACTERISTICS



1. Concentric flue connection 60/100mm with measuring element
2. Flue tube
3. DHW tank air vent (manual)
4. Heating supply to DHW tank
5. 12 litre expansion vessel (heating circuit)
6. Internal hot water tank (54 L)
7. Stainless steel heat exchanger
8. High efficiency circulator pump
9. Heating return from DHW tank
10. Heating return
11. Control panel with display and pressure gauge
12. Heating supply
13. Exchanger return multifunctional quick connection block (see details opposite).
14. Electrical panel (with spare fuses at the back).
15. Built-in 3-way valve
16. Gas valve assembly
17. Silencer
18. Auto air vent (heating circuit)
19. Flame sight glass
20. Modulating air/gas premix burner with fan
21. Insulated casing

**10
YEAR
WARRANTY**

**NOW WITH A 10 YEAR
WARRANTY ON THE
STAINLESS STEEL HEAT
EXCHANGER***

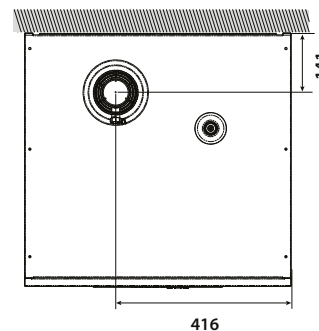
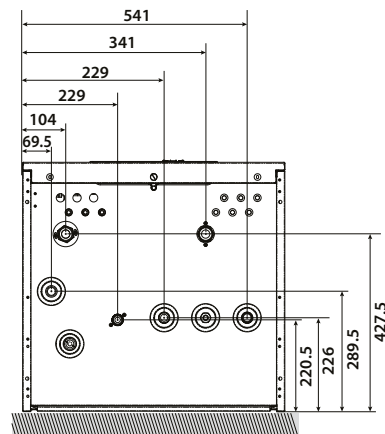
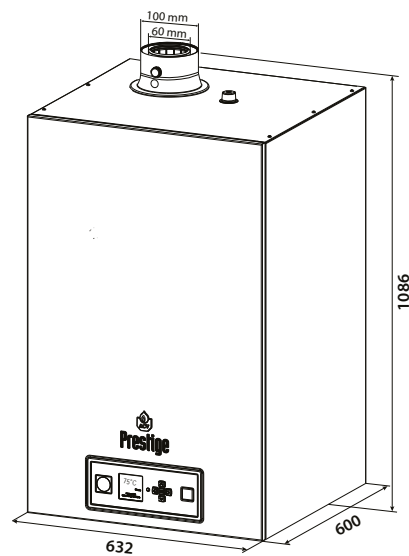
Wall mounted gas condensing boiler



TECHNICAL CHARACTERISTICS AND DIMENSIONS

TYPE		Prestige® 24 Excellence	Prestige® 32 Excellence
Fuel		Natural gas	Natural gas
Input max (heating) LCV	kW	24	32
Output power max (80/60°C)	kW	23.3	31
Efficiency at 30% load (EN677)	%	109	109
Capacity (total)	L	70	70
Capacity (domestic hot water)	L	54	54
Connection - heating	Ø"	1 M	1 M
Connection - DHW	Ø"	3/4 M	3/4 M
Connection gas	Ø"	3/4 M	3/4 M
Water pressure drop boiler at ΔT = 20°C	mbar	141	243
Gas flow rate (max output)	m³/h	2.54	3.3
Flue connection	Ømm	60/100	60/100
Flue: max length of concentric flue pipe	m	40	16
Max operating temperature	°C	87	87
Max service pressure heating (primary)	bar	3	3
Max service pressure (DHW)	bar	8.6	8.6
Voltage	V	230	230
Electrical consumption	W	89	94
Weight (empty)	kg	92	92
Declared load profile		XL	XL
Space heating energy efficiency class		A	A
Water heating energy efficiency class		B	B
NoX Class		5	5

DIMENSIONS



DOMESTIC HOT WATER PERFORMANCE

TYPE		Prestige® 24 Excellence	Prestige® 32 Excellence
Peak flow at 40°C	L/10'	200	224
Continuous flow at 40°C	L/h	560	745
Peak flow at 60°C	L/10'	102	103
Continuous flow at 60°C	L/h	310	320



DESCRIPTION

High efficiency wall mounted condensing gas boiler. Stainless steel construction with self-cleaning flue ways.

- New internal design for easy access to components and controls.
- Self-cleaning flue ways.
- Modulation 1 to 6 and a high efficiency over the entire operating range, even at low power.
- Stainless steel heat exchanger for high temperatures: unparalleled resistance to corrosion.
- Premix burner.
- Compact and lightweight.
- 12 litre internal heating expansion vessel.
- Hydraulic kits and controls options available.
- Offers exceptional performance in heating and hot water when installed with an ACV Smartline tank-in-tank cylinder.
- Ready for hydraulic connection to an external DHW tank.
- Integral high efficiency boiler charging pump.
- Concentric flue connection 60/100. May also be connected in 80/125 or 80/80.
- Can control two different circuits.

REFERENCE	NAME	FUEL
05647901	Prestige® 24 Solo	Natural gas A
05648001	Prestige® 32 Solo	Natural gas A

Prestige boilers can be combined with your choice of ACV hot water cylinder from 130 Litre capacity, offering the flexibility of a highly efficient heating and hot water system.

ACVMax



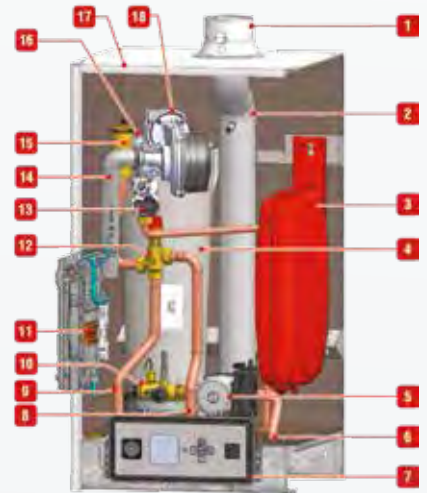
Further innovation in the new generation of Prestige® boiler is the all new ACVMax control, which has been designed to be flexible yet easy to use. The new control panel with integrated manometer and LCD provide all the necessary information with the simple push of a button. As well as monitoring the boiler to ensure optimal efficiency, the ACVMax offers many advanced control options, and native support for open protocols such as OpenTherm and Modbus, enabling easy integration to BMS.

FLUE ACCESSORIES CAN BE FOUND ON **PAGE 49** OF THIS PRODUCT GUIDE

10
YEAR
WARRANTY

NOW WITH A 10 YEAR WARRANTY ON THE STAINLESS STEEL HEAT EXCHANGER*

CHARACTERISTICS



1. Concentric flue connection 60/100mm with measuring element
2. Flue tube
3. 12 litre expansion vessel (heating circuit)
4. Stainless steel heat exchanger
5. High efficiency circulator pump
6. Heating return
7. Control panel with display and pressure gauge
8. Connection for external DHW tank
9. Heating supply
10. Exchanger return multifunctional quick connection block.
11. Electrical panel (with spare fuses at the back).
12. Built-in 3-way valve
13. Gas valve assembly
14. Silencer
15. Auto air vent (heating circuit)
16. Flame sight glass
17. Insulated casing
18. Modulating air/gas premix burner with fan

SUPPLIED WITH LPG KIT FOR EASY ON-SITE CONVERSION

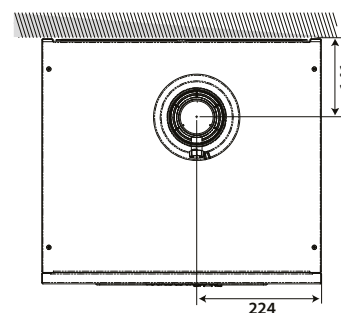
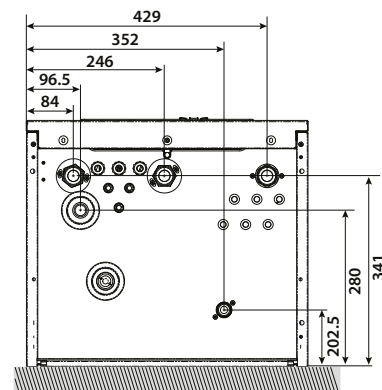
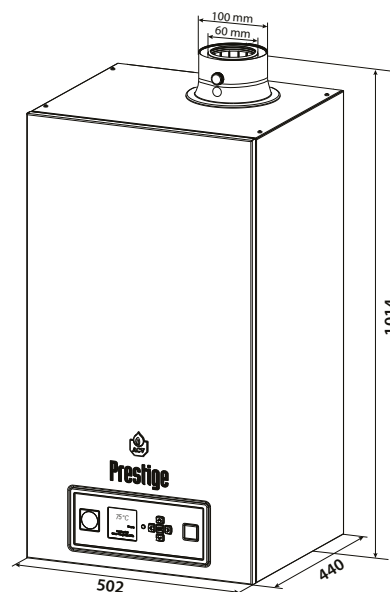
Wall mounted gas condensing boiler



TECHNICAL CHARACTERISTICS AND DIMENSIONS

TYPE		Prestige@ 24 Solo	Prestige@ 32 Solo
Fuel		Natural gas	Natural gas
Input max (heating) LCV	kW	24	32
Output power max (80/60°C)	kW	23.3	31.0
Efficiency at 30% load (EN677)	%	109	109
Capacity (total)	L	8	8
Connection - heating	Ø"	1M	1M
Connection gas	Ø"	3/4 M	3/4 M
Water pressure drop boiler at ΔT = 20°C	mbar	141	243
Gas flow rate (max output)	m ³ /h	2.54	3.39
Flue connection	Ømm	60/100	60/100
Flue: max length of concentric flue pipe	m	40	16
Max operating temperature	°C	87	87
Max service pressure heating (primary)	bar	3	3
Voltage	V	230	230
Protection IP		X4D	X4D
Electrical consumption (MAX)	W	89	94
Weight (empty)	kg	54	54
Space heating energy efficiency class		A	A
NoX Class		5	5

DIMENSIONS





FLEXIBLE HEATING SOLUTIONS

FOR LARGER APPLICATIONS

4 EXCELLENT REASONS TO INSTALL A CASCADE

1 Efficiency

A cascade system allows modulation of the heating power, from the minimum output of one boiler up to the maximum output of all the boilers. Which, in the case of a four-boiler cascade, gives a modulation ratio of at least 16:1, and of course all the permutations between.

2 Back-up

The ACV cascade controllers optimise the potential of the available boilers, if one of the boilers fail, the controller simply adjusts the power of the remaining boilers to compensate.

3 Easy commissioning

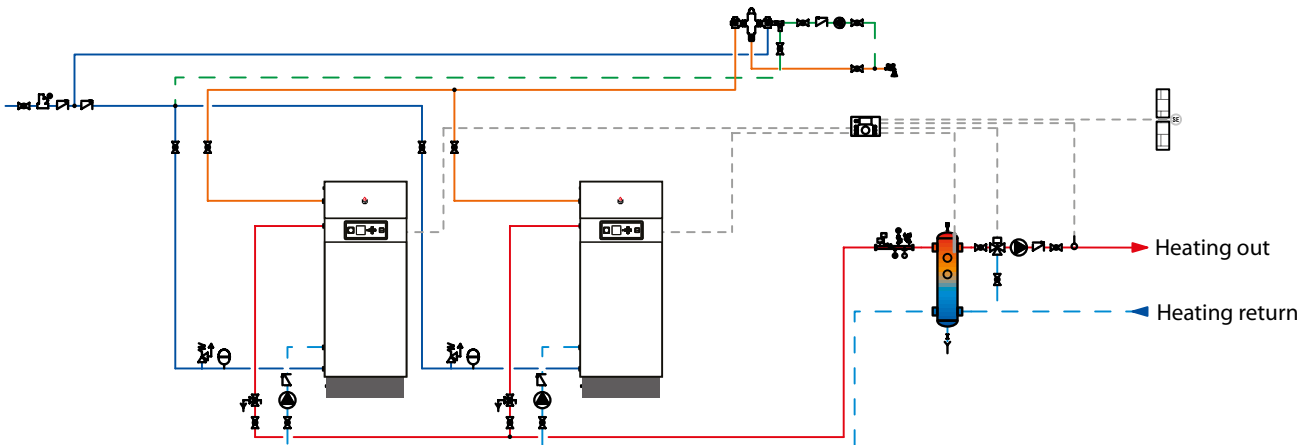
One, two, three or four boilers, the commissioning procedure is the same, simple and easy when undertaken by a qualified engineer.

4 Easy maintenance

Any one boiler in a cascade can be serviced and maintained easily whilst the other boilers are operational. This enables the servicing to be carried out at any time of the year and not just during the traditional summer shut down period.

THE ONLY COMBINED HEATING AND HOT WATER CASCADE CAPABLE OF TOTAL CONDENSATION

The installation of more than one HeatMaster® TC in cascade offers increased energy savings and more flexible performance than comparable systems, whether in new build or renovation.



b Available on bimstore.co.uk



The Prestige® 50-75-100-120 and HeatMaster® boilers can be installed in a cascade: multiple boilers joined together to offer highly flexible power output, from 25% of any one boiler up to 100% of the combined power of all units. By doing this, system efficiency is optimal and emissions are held to a minimum.

This modular system, straightforward to install with the hydraulic kit developed and proposed by ACV, is particularly adapted to systems where there is a high variability in demand, and average normal load is only a fraction of the peak load. Prestige® boilers can be installed in a cascade from 2 to 8 units with a maximum combined output of 920kW. Operating the Prestige® in cascade offers a modulation ration of 1:73, a highly flexible output from the minimum output of one unit to 100% of the combined power of all the boilers.

Maximum overall yields and minimum consumption of energy are optimised via the simple-to-adjust interface, which gives the installer complete control over the system parameters. Our local design teams are available to help you select and configure the cascade which is best adapted to your needs. For more assistance in sizing your Prestige® cascade please contact your local representative, **details can be found on Page 1.**

ACVMax

Further innovation in the new generation of Prestige® boiler is the all new ACVMax control, which has been designed to be flexible yet easy to use. The new control panel with integrated manometer and LCD provide all the necessary information with the simple push of a button. As well as monitoring the boiler to ensure optimal efficiency, the ACVMax offers many advanced control options, and native support for open protocols such as OpenTherm and Modbus, enabling easy integration to BMS.



Graphical user interface.



Easy installation set up menu covers 80% of standard installations.



Controls cascades of up to 4 boilers without an additional boiler controller.



Easy diagnostics with full text error messages and problem solving information.



PRESTIGE® 42 > 75 SOLO

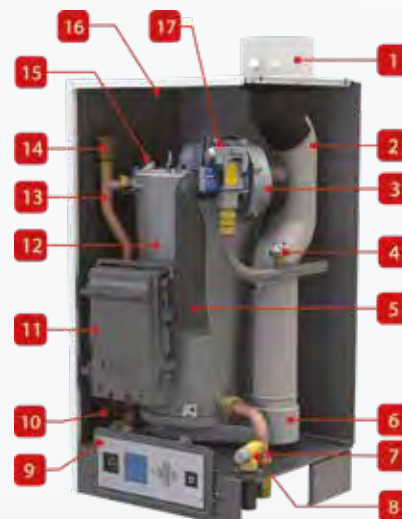


DESCRIPTION

High efficiency wall mounted gas condensing boiler. Stainless steel construction with self-cleaning flue ways.

- Stainless steel heat exchanger.
- Available in 5 models, 42kW to 120kW.
- Heating only boiler.
- Premix burner air/modulating gas burner.
- All components are easily accessible from the front.
- Compact and lightweight.
- Integrated flue check valve.
- Flame inspection panel.
- ACVMax control with new graphic LCD and extended functionality.
- Versatile control: thermostat On/Off, OpenTherm, 0-10 V input, alarm, Modbus.
- Concentric 100/150mm Ø flue connection.
- Integrated flue gas measurement point.
- Possibility of cascading up to four units without additional controls.
- Hydraulic kits and additional control packages available.
- Can control two heating circuits without additional external controls.
- Can Cascade upto 8 boilers using external controls.

CHARACTERISTICS



1. Concentric flue connection 100/150mm with measuring element
2. Flue tube
3. Modulating Air/gas premix burner
4. Gas pressure switch
5. Air inlet
6. Condensate recovery dish
7. Cold water return
8. Safety valve
9. Control panel with display and pressure gauge
10. Pressure sensor
11. Electrical panel
12. Stainless steel heat exchanger
13. Water supply
14. Auto air vent
15. Flame sight glass
16. Insulated casing
17. Gas valve

REFERENCE	NAME	FUEL	
05650201	Prestige® 42 Solo	Natural gas	A
05629801	Prestige® 50 Solo	Natural gas	A
05629901	Prestige® 75 Solo	Natural gas	A

For installations with 2 or more boilers, please consult your local Business Development Manager for guidance on sizing the unvented kit and control accessories. Contact details can be found on Page 1 of this product guide.

SUPPLIED WITH LPG KIT FOR EASY ON-SITE CONVERSION

FLUE ACCESSORIES CAN BE FOUND ON PAGE 50 OF THIS PRODUCT GUIDE

At the heart of the Prestige® boiler lies our stainless steel heat exchanger, which has been proven, developed and improved after intensive research and based on experience in the field. ACV applies the experience gained in the use of stainless steel for heating and hot water production for over 90 years manufacturing to our product development to ensure unsurpassed quality and performance.

Prestige® boilers can be combined with your choice of ACV hot water cylinders with sizes up to 1000 litres or HeatMaster® combination boilers offering the flexibility of a highly efficient heating and hot water system.



10 YEAR WARRANTY
NOW WITH A 10 YEAR WARRANTY ON THE STAINLESS STEEL HEAT EXCHANGER*

Wall mounted gas condensing boiler



TECHNICAL CHARACTERISTICS AND DIMENSIONS

TYPE		P42	P50	P75
Fuel		Natural gas	Natural gas	Natural gas
Input max (heating) LCV	kW	42	50	69.9
Input max (heating) HCV	kW	46.62	55.5	77.59
Output power max (80/60°C)	kW	40.7	48.5	67.8
Output power min (80/60°C)	kW	5.7	6.9	9.9
Efficiency at 30% load (EN677)	%	108.5	109	108.5
Connection - heating	Ø"	1 1/4 M	1 1/4 M	1 1/4 M
Connection gas	Ø"	3/4 M	3/4 M	3/4 M
Water pressure drop boiler at ΔT = 20°C	mbar	23	30	74
Gas flow rate (max output)	m³/h	4.4	5.3	7.4
Flue connection	Ømm	100/150	100/150	100/150
Weight (empty)	kg	50	54	59
Max operating temperature	°C	87	87	87
Max service pressure heating (primary)	bar	4	4	4
Voltage	V	230	230	230
Electrical consumption	W	78	78	126
NoX Class		5	5	5

DIMENSIONS

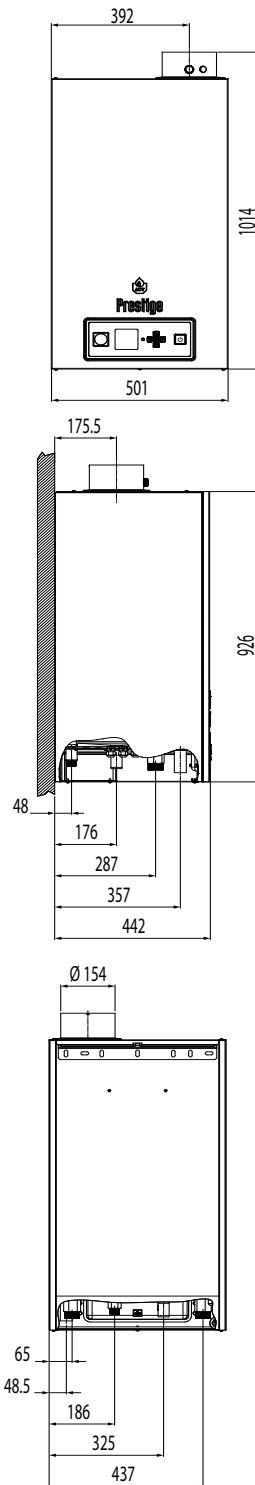


TABLE OF CASCADE COMPONENT REQUIREMENTS

DESCRIPTION	REFERENCE	NUMBER OF BOILERS		
		2	3	4
Cascade of Prestige® Model 42 - 50 - 75		2	3	4
Balanced Header DN80 <480kW	10800161	1	1	1
Kit collector DN 80 for 2 boilers	10800291	1	•	2
Kit Collector DN80 for 3 boilers	10800293	•	1	•
Connection Kit for Kit collector	10800171	2	3	4
Kit Collector Floor Support	507F4364	1	1	2
Cascade Cable for Internal control	257F1166	1	2	3
DHW Sensor	5476G003	1	1	1

OPTIONAL EXTERNAL CONTROLS

ADDITIONAL CONTROLS IF REQUIRED	REFERENCE	NUMBER OF BOILERS		
		2	3	4
Cascade of Prestige® Model 42 - 50 - 75		2	3	4
Control Unit	10800188	1	1	1
Clip-in Interface for ACVMax	10800354	2	3	4
Wall Mounting for Control Unit	10800121	1	1	1

CASCADE RACK SYSTEMS

DESCRIPTION	REFERENCE	NUMBER OF BOILERS		
		2	3	4
Cascade of Prestige® Model 42 - 50 - 75		2	3	4
Two Boiler Standard Rack	507F4233	1	1	1
One Boiler Rack Extension	537F4231	•	1	•
Two Boiler Rack Extension	537F4232	•	•	1



PRESTIGE® 100 > 120 SOLO

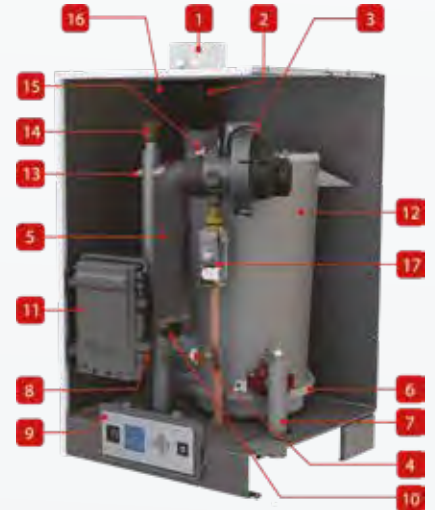


DESCRIPTION

High efficiency wall mounted gas condensing boiler. Stainless steel construction with self-cleaning flue ways.

- Stainless steel heat exchanger.
- Available in 5 models, 42kW to 120kW.
- Heating only boiler.
- Premix burner air/modulating gas burner.
- All components are easily accessible from the front.
- Compact and lightweight.
- Integrated flue check valve.
- Flame inspection panel.
- ACVMax control with new graphic LCD and extended functionality.
- Versatile control: thermostat On/Off, OpenTherm, 0-10 V input, alarm, Modbus.
- Concentric 100/150mm Ø flue connection.
- Integrated flue gas measurement point.
- Possibility of cascading up to four units without additional controls.
- Hydraulic kits and additional control packages available.
- Can control two heating circuits without additional external controls.
- Can Cascade upto 8 boilers using external controls.

CHARACTERISTICS



1. Concentric flue connection 100/150mm with measuring element
2. Flue tube
3. Modulating Air/gas premix burner
4. Gas pressure switch
5. Air inlet
6. Condensate recovery dish
7. Cold water return
8. Safety valve
9. Control panel with display and pressure gauge
10. Pressure sensor
11. Electrical panel
12. Stainless steel heat exchanger
13. Water supply
14. Auto air vent
15. Flame sight glass
16. Insulated casing
17. Gas valve

REFERENCE	NAME	FUEL
05648401	Prestige® 100 Solo	Natural gas
05630001	Prestige® 120 Solo	Natural gas

For installations with 2 or more boilers, please consult your local Business Development Manager for guidance on sizing the unvented kit and control accessories. Contact details can be found on Page 1 of this product guide.

FLUE ACCESSORIES CAN BE FOUND ON PAGE 50 OF THIS PRODUCT GUIDE

At the heart of the Prestige® boiler lies our stainless steel heat exchanger, which has been proven, developed and improved after intensive research and based on experience in the field. ACV applies the experience gained in the use of stainless steel for heating and hot water production for over 90 years manufacturing to our product development to ensure unsurpassed quality and performance.

Prestige® boilers can be combined with your choice of ACV hot water cylinders with sizes up to 1000 litres or HeatMaster® combination boilers offering the flexibility of a highly efficient heating and hot water system.

SUPPLIED WITH LPG KIT FOR EASY ON-SITE CONVERSION



10 YEAR WARRANTY
NOW WITH A 10 YEAR WARRANTY ON THE STAINLESS STEEL HEAT EXCHANGER*

Wall mounted gas condensing boiler



TECHNICAL CHARACTERISTICS AND DIMENSIONS

TYPE		P100	P120
Fuel		Natural gas	Natural gas
Input max (heating) LCV	kW	100	115.3
Input max (heating) HCV	kW	109.89	129.87
Output power max (80/60°C)	kW	97.5	118.8
Output power min (80/60°C)	kW	12.2	12.2
Efficiency at 30% load (EN677)	%	108.2	108
Connection - heating	Ø"	1 1/2 M	1 1/2 M
Connection gas	Ø"	1 M	1 M
Water pressure drop boiler at ΔT = 20°C	mbar	42	80
Gas flow rate (max output)	m³/h	10.5	12.2
Flue connection	Ømm	100/150	100/150
Weight (empty)	kg	89	93
Max operating temperature	°C	87	87
Max service pressure heating (primary)	bar	4	4
Voltage	V	230	230
Electrical consumption	W	150	180
NoX Class		5	5

DIMENSIONS

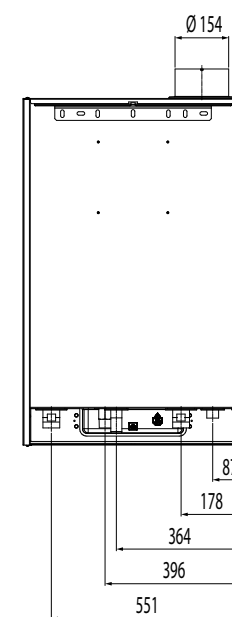
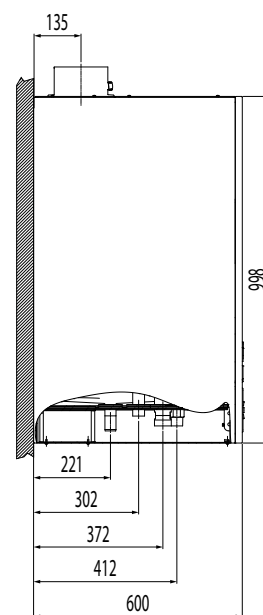
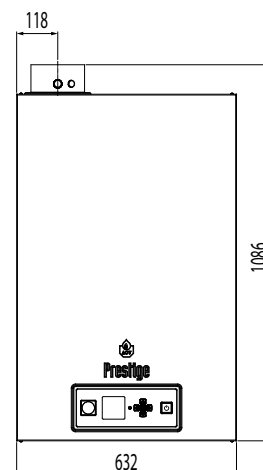


TABLE OF CASCADE COMPONENTS

DESCRIPTION	REFERENCE	NUMBER OF BOILERS		
		2	3	4
Cascade of Prestige® Model 100 - 120		2	3	4
Balanced Header DN80 <480kW	10800161	1	1	1
Kit Collector DN80 for 2 boilers	10800291	1	•	2
Kit Collector DN80 for 3 boilers	10800293	•	1	•
Connection Kit for Kit collector DN80	10800171	2	3	4
Kit Collector Floor Support DN80	507F4364	1	1	2
Cascade Cable for Internal control	257F1166	1	2	3
DHW Sensor	5476G003	1	1	1

OPTIONAL EXTERNAL CONTROLS

ADDITIONAL CONTROLS IF REQUIRED	REFERENCE	NUMBER OF BOILERS		
		2	3	4
Cascade of Prestige® Model 100 - 120		2	3	4
Control Unit	10800188	1	1	1
Clip-in Interface for ACVMax	10800354	2	3	4
Wall Mounting for Control Unit	10800121	1	1	1

CASCADE RACK SYSTEMS

DESCRIPTION	REFERENCE	NUMBER OF BOILERS		
		2	3	4
Cascade of Prestige® Model 100 - 120		2	3	4
Two Boiler Standard Rack	507F4233	1	1	1
One Boiler Rack Extension	537F4231	•	1	•
Two Boiler Rack Extension	537F4232	•	•	1



DESCRIPTION

High output floor standing gas condensing boiler for commercial applications.

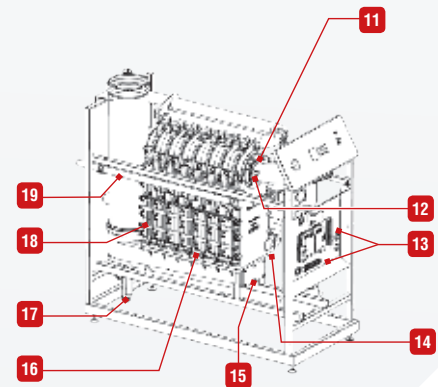
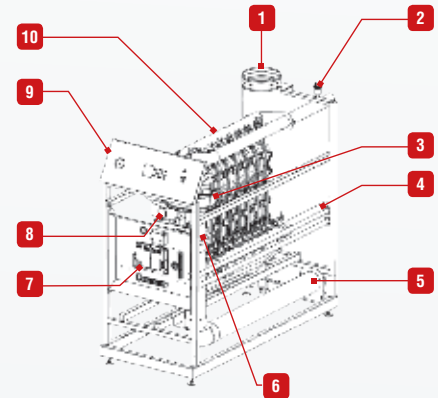
- Condensing boiler: maximum recovery of energy (107.5% efficiency) from the flue gas.
- Compact dimensions, small footprint (0.8m²).
- Available in 4 models ranging from 170 to 300 kW.
- Operating simplicity: MAXSys climate controller with LCD display. Integrated DHW module.
- Easy connection of one or more heating circuits (high or low temperature) or 1 DHW circuit.
- Ideal in cascade installations up to 1200 kW.

REFERENCE	NAME
A1002889	Compact Condens 170
A1002890	Compact Condens 210
A1002891	Compact Condens 250
A1002892	Compact Condens 300

For installations with 2 or more boilers, please consult your local Business Development Manager for guidance on sizing the unvented kit and control accessories. Contact details can be found on Page 1 of this product guide.

Compact Condens boilers can be combined with your choice of ACV hot water cylinders in sizes up to 1000 litres or HeatMaster® combination boilers, offering the flexibility of a highly efficient heating and hot water system.

CHARACTERISTICS



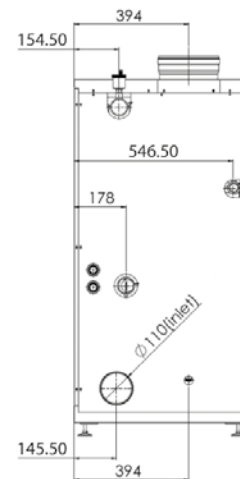
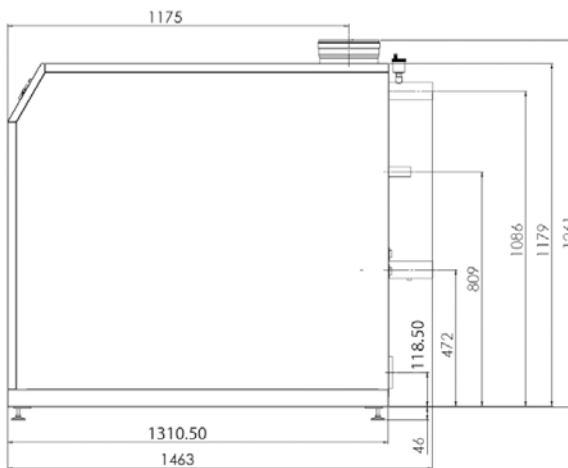
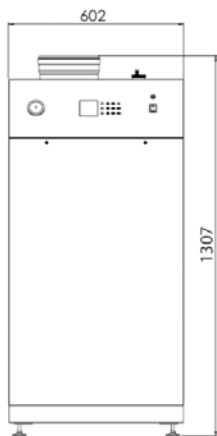
1. Flue connection Ø200
2. Auto air vent
3. Fan
4. Heating return (+ filling valve and water pressure sensor)
5. Air inlet (Ø110)
6. Venturi
7. MAXSys Controller
8. Gas valve
9. Control panel with display and pressure gauge
10. Heating supply
11. Flame sight glass
12. Ignition and ionization electrodes (2x)
13. C1 and C2 terminal strips for electrical connections
14. Air pressure switch (backside)
15. Inspection sump cover
16. Cast aluminium heat exchanger
17. Condensate trap
18. Inspection cover
19. Gas pipe

High output gas condensing boiler



TECHNICAL CHARACTERISTICS AND DIMENSIONS

TYPE		CC 170	CC 210	CC 250	CC 300
Fuel		Natural gas	Natural gas	Natural gas	Natural gas
Input max (heating) LCV	kW	168	210	252	290
Input max (heating) HCV	kW	186.5	233.1	279.7	321.9
Output power max (80/60°C)	kW	163.6	204.5	245.4	282.5
Output power min (80/60°C)	kW	32.6	40.7	48.9	57.0
Efficiency at 30% load (EN677)	%	107.5	107.5	107.5	107.5
Connection - heating	Ø"	2 M	2 M	2 M	2 M
Connection gas	Ø"	1 M	1 M	1 M	1 M
Gas flow rate (max output)	m³/h	17.4	21.8	26.2	30.2
Gas flow rate (min output) G20	m³/h	3.49	4.36	5.2	6.1
Flue connection	Ømm	200	200	200	200
Weight (empty)	kg	209	217	233	259
Max operating temperature	°C	80	80	80	80
Max service pressure heating (primary)	bar	6	6	6	6
Voltage	V	230	230	230	230
Electrical consumption	W	1150	1150	1150	1150
NoX Class		5	5	5	5





DESCRIPTION

Wall mounted electric sealed system boiler. An economical alternative to LPG and Oil.

- Available in 5 model sizes.
- Reduced maintenance - no annual landlord certification.
- No flue required.
- Compatible with radiator or underfloor heating installations.
- Equipped with a 10 litre expansion tank, pressure gauge, safety valve, low water pressure switch, pump and automatic air vent.
- Removable heating elements constructed from incoloy 800 stainless steel.
- Modulating element input according to heating demand.
- Built in control circuit protected by internal 3 amp MCB.
- Compatible with Honeywell S Plan or Y Plan wiring systems.
- Integral high efficiency boiler charging pump.

REFERENCE	NAME	
A1002096	E-Tech W 15 mono	D
A1002090	E-Tech W 15 triw	D
A1002091	E-Tech W 22 tri	D
A1002093	E-Tech W 28 tri	D
A1002094	E-Tech W 36 tri	D

Also available, the E-Tech W Combi with DHW Kit

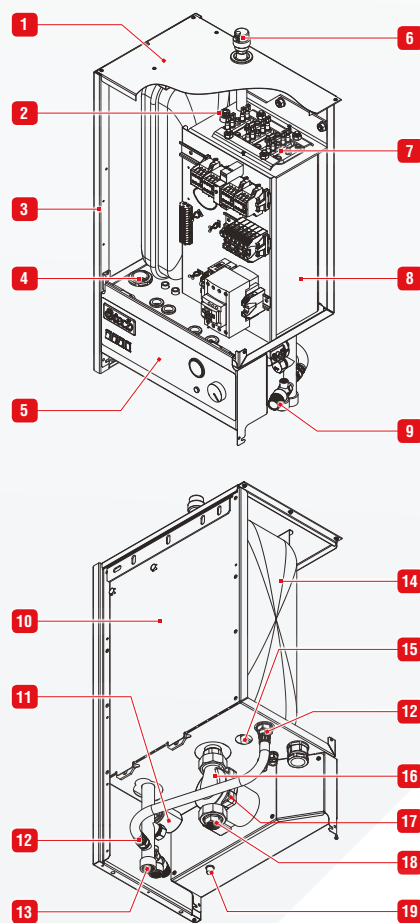
The E-Tech W can also be fitted with a domestic hot water kit to allow the production of instantaneous hot water without the requirement for an additional tank.

- Hot water and central heating solution
- Up to 9.5 Litres/ minute hot water output at 45 degrees
- Space saving
- Available for the full E-Tech W range

REFERENCE	DESCRIPTION
10800085	DHW Kit for E-Tech W
257F1132	Wiring for DHW kit for E-Tech W



CHARACTERISTICS



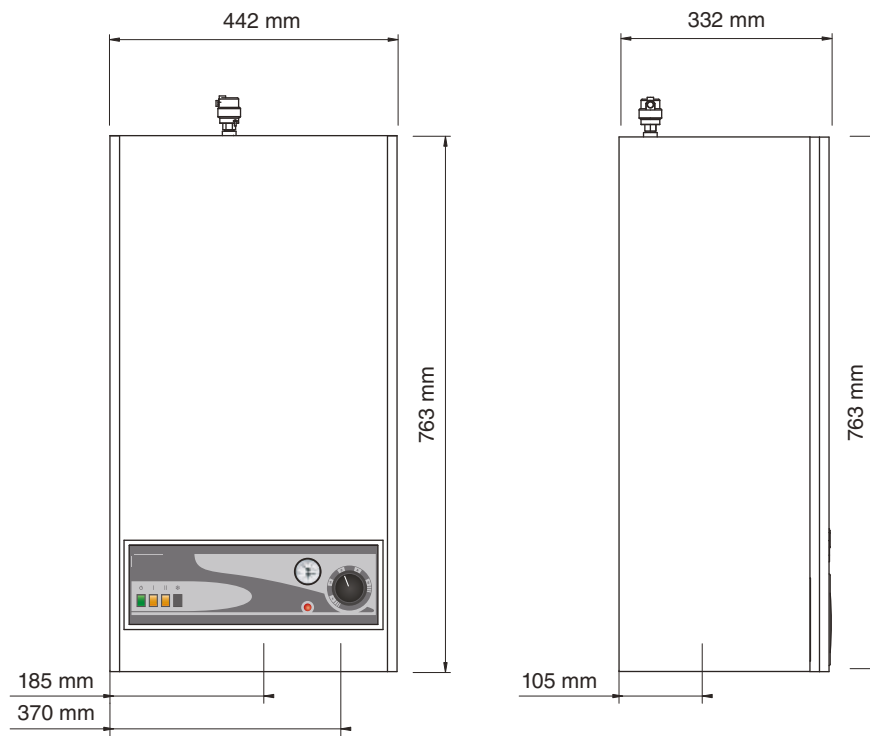
1. Top Panel
2. Brass Pocket
3. Side Panel
4. Cable Gland
5. Control Panel
6. Automatic Air Vent
7. Heating Elements
8. Heating Body
9. Pressure Safety Valve
10. Rear Panel
11. Water Pressure Switch
12. Expansion Vessel Connection
13. Heating Return
14. Expansion Vessel
15. Expansion Vessel Valve
16. Expansion Vessel Connection
17. Circulation Pump
18. Heating Flow
19. Manual Reset High Limit Pressure Gauge

ALWAYS ENSURE A SAFETY THERMOSTAT IS FITTED TO THE UNDER FLOOR HEATING CIRCUIT



TECHNICAL CHARACTERISTICS AND DIMENSIONS

TYPE		ETW 15 - 1 Phase	ETW 15 - 3 Phase	ETW 22	ETW 28	ETW 36
Output power max (80/60°C)	kW	14.4	14.4	21.6	28.8	36.0
Output power min (80/60°C)	kW	9.6	9.6	14.4	14.4	18.0
Connection - heating	Ø"	3/4	3/4	3/4	3/4	3/4
Weight (empty)	kg	45	45	45	45	45
Max operating temperature	°C	87	87	87	87	87
Max service pressure heating (primary)	bar	3	3	3	3	3
Voltage	V	1x230	3x400 (+N)	3x400 (+N)	3x400 (+N)	3x400 (+N)
Energy efficiency class		D	D	D	D	D





DESCRIPTION

Compact floor standing combination electric boiler.

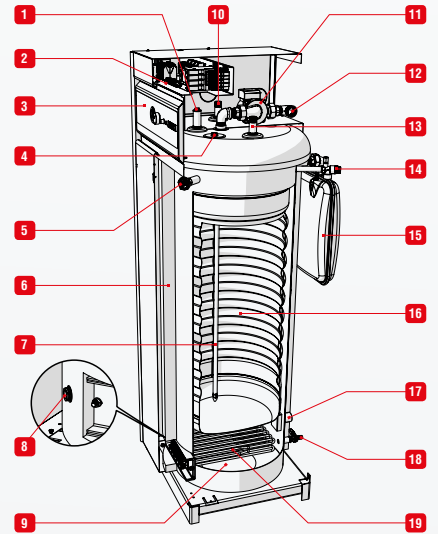
- Quiet operation.
- No Flue requirement.
- Reduced maintenance (no annual landlord certification).
- Can be used as a stand alone water heater.
- Modulating element input.
- 3.5 Bar Mains water SmartPak and DHW mixing valve supplied as standard.
- Flexible installation options for flow and return connections.
- Vented or Unvented use with mains pressure SystemPaks available.
- Integral primary heating sealed system kit and circulating pump.
- Small footprint enabling compact installation
- Integrated controls.
- Internal stainless steel Tank-In-Tank storage.
- Boiler insulated with rigid polyurethane foam without CFC projected 70 mm.
- Stainless steel domestic cylinder - 25 Year guarantee.

TANK-IN-TANK TECHNOLOGY

REFERENCE	NAME	D	C
XB501600	E-Tech S 160 Mono Phase		
XB501602	E-Tech S 160 Tri Phase		
XB502400	E-Tech S 240 Tri Phase		

ACV UK Ltd advises the installation of a Domestic hot water mixing valve on the hot flow immediately after the appliance.

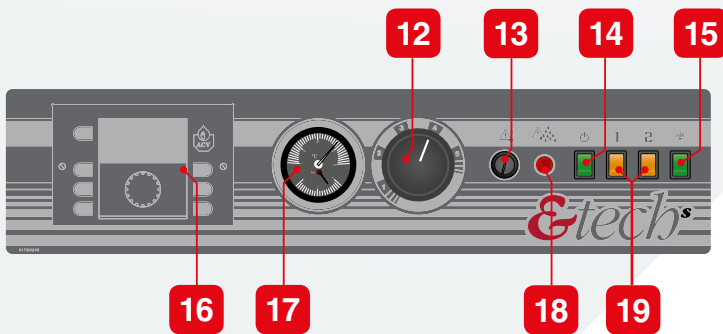
CHARACTERISTICS



1. Auxiliary connection DHW or for an optional T&P valve.
2. Electrical support
3. Control panel
4. Dry well for limit thermostats [90°C max] and thermometer bulbs
5. Low-water pressure switch
6. Thermal insulation
7. Dip tube
8. Dry well for control thermostat, safety thermostat [103°C] and bulbs.
9. Primary circuit
10. Cold water inlet
11. Heating pump
12. Heating circuit outlet
13. DHW outlet
14. Safety valve (3 bar)
15. Primary expansion vessel
16. Stainless steel tank [DHW]
17. Heating circuit return
18. Drain valve
19. Electrical heating elements

MULTIPLE CONNECTIONS FOR INSTALLATION FLEXIBILITY

ALWAYS ENSURE A SAFETY THERMOSTAT IS FITTED TO THE UNDER FLOOR HEATING CIRCUIT



12. Control thermostat (60-85 °C).
13. Safety thermostat
14. ON/OFF switch
15. Summer/Winter selector switch.
16. Controller (option)
17. Combined temperature and pressure gauge
18. Safety indicator light
19. Power selection switch



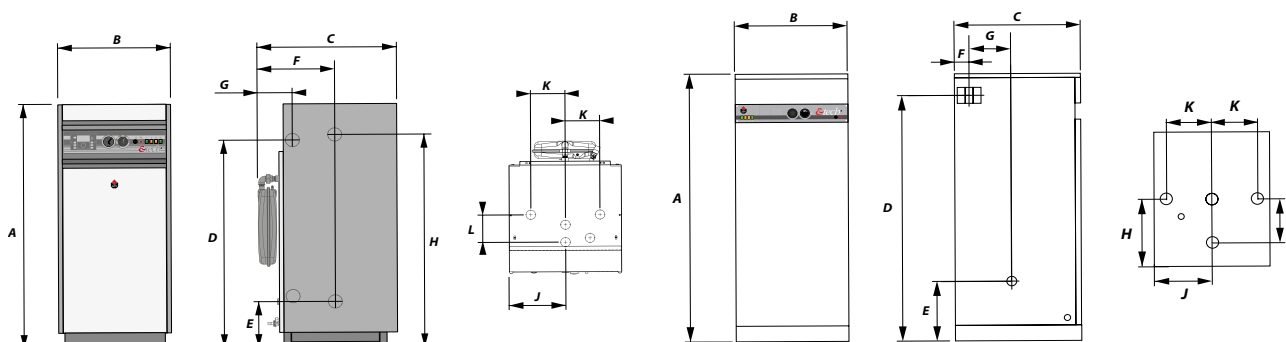
TECHNICAL CHARACTERISTICS AND DIMENSIONS

TYPE		ETS 160 Mono (HEP)	ETS 160 Tri (HEP)	ETS 240 Tri (HEP)
Output power max (80/60°C)	kW	14.4	14.4	28.8
Capacity (domestic hot water)	L	99	99	164
Connection - heating	Ø"	1F	1F	1F
Connection - DHW	Ø"	3/4 M	3/4 M	3/4 M
Weight (empty)	kg	115	115	155
Max operating temperature	°C	85	85	85
Max service pressure heating (primary)	bar	3	3	3
Dimension A	mm	1345	1345	1820
Dimension B	mm	590	590	590
Dimension C	mm	730	730	730
Dimension D	mm	928	928	1403
Dimension E	mm	249	249	249
Dimension F	mm	402	402	402
Dimension G	mm	181	181	181
Dimension H	mm	958	958	1433
Dimension J	mm	295	295	295
Dimension K	mm	180	180	180
Dimension L	mm	150	150	150
Max service pressure (DHW)	bar	8.6	8.6	8.6
Voltage	V	1x230 + N	3x400 + N	3x400 + N
Energy efficiency class - Heating		D	D	D
Energy efficiency class - Hot Water		C	C	C

DOMESTIC HOT WATER PERFORMANCE

TYPE		ETS 160 Mono (HEP)	ETS 160 Tri (HEP)	ETS 240 Tri (HEP)
Peak flow at 40°C	L/10'	356	356	545
Peak flow 1st hour at 40°C	L/60'	700	700	1234
Continuous flow at 40°C	L/h	413	413	827
Peak flow at 45°C	L/10'	250	250	459
Peak flow 1st hour at 45°C	L/60'	570	570	990
Continuous flow at 45°C	L/h	354	354	708
Peak flow at 60°C	L/10'	168	168	298
Peak flow 1st hour at 60°C	L/60'	375	375	555
Continuous flow at 60°C	L/h	248	248	408

Performance data assumes: Primary flow temperature 85 °C - Domestic cold water supply 10 °C





DESCRIPTION

Floor standing, high output, three phase electric boiler. Use as a primary heat source or emergency backup.

- Available in 5 models.
- No flue required.
- Ready to use.
- Four power stages - controlled by a stage delay timer.
- Can easily be de-rated to provide less output if required.
- Fully wired power and control circuits.
- Stove enamelled casing.
- Control panel including thermostats, thermometer, indicators and on/off switch.
- Very little maintenance required.
- Heater steel STW 22 thick.
- Heating elements made of stainless steel immersed in the incoloy 800 heating body to the front of the boiler.
- Power circuit 400 V three-phase without neutral.
- Control circuit 230 V single phase.
- Control circuit protected by 3 amp internal circuit breaker.
- Each contactor supplying two sets of resistors 3 x 2.4 kW (14.4 kW total) is protected by a thermal magnetic circuit breaker.

CHARACTERISTICS

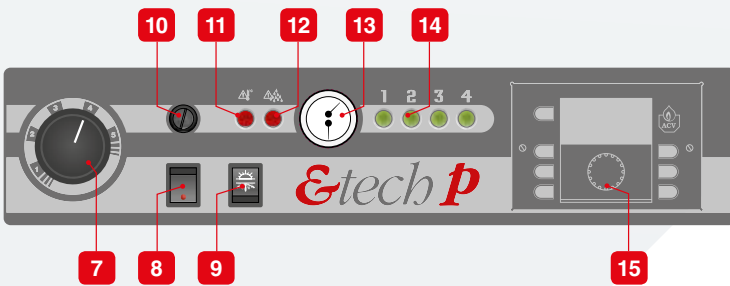


1. Control panel
2. Heating elements
3. Contactor and safety relays
4. Optional controller
5. Control circuit
6. Main fuses and power connections

REFERENCE	NAME	VOLTAGE
A1002277	E-Tech P 57	3x400 D
A1002278	E-Tech P 115	3x400
A1002279	E-Tech P 144	3x400
A1002280	E-Tech P 201	3x400
A1002281	E-Tech P 259	3x400

CAN ALSO BE USED IN MULTIPLE BOILER INSTALLATIONS FOR HIGHER COMBINED OUTPUT

ALWAYS ENSURE A SAFETY THERMOSTAT IS FITTED TO THE UNDER FLOOR HEATING CIRCUIT

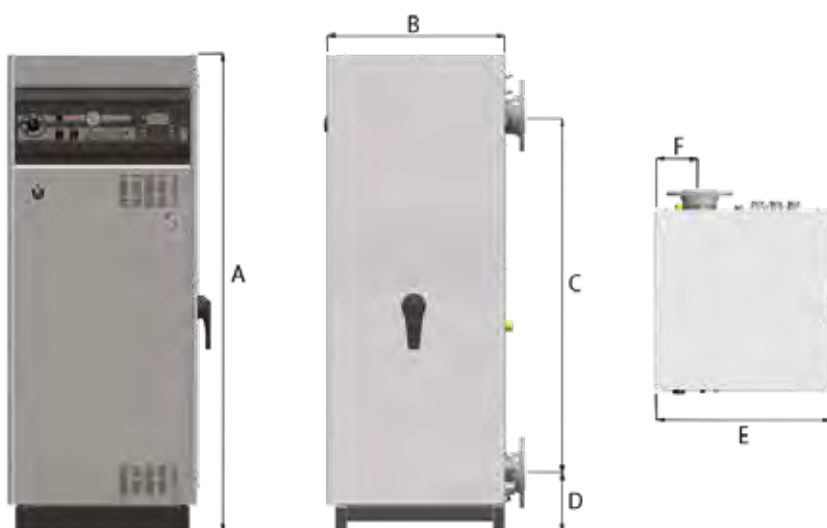


7. Control thermostat
8. ON/OFF switch
9. Summer/Winter switch
10. Manual reset high limit thermostat
11. Overheating warning light
12. Minimum water pressure warning light
13. Combined temperature and pressure gauge
14. Power level indicators
15. Optional internal controller



TECHNICAL CHARACTERISTICS AND DIMENSIONS

TYPE		E-Tech P 57	E-Tech P 115	E-Tech P 144	E-Tech P 201	E-Tech P 259
Voltage	V	3x400	3x400	3x400	3x400	3x400
Electrical power	kW	14.4 / 57.6	28.8 / 115.2	36.0 / 144.0	50.4 / 201.6	64.8 / 259.2
Number of heating elements		2	4	5	7	9
Capacity (total)	L	60	60	60	102	102
Connection - heating	Ø"	2 F	2 F	2 F	DN100	DN100
Max operating temperature	°C	90	90	90	90	90
Max service pressure heating (primary)	bar	4	4	4	4	4
Dimensions A	mm	1475	1475	1475	1475	1475
Dimensions B	mm	600	600	600	600	600
Dimensions C	mm	550	550	550	1100	1100
Dimensions D	mm	183	183	183	183	183
Dimensions E	mm	593	593	593	593	593
Dimensions F	mm	150	150	150	150	150
Weight (empty)	kg	110	123	131	187	200
Space heating energy efficiency class		D	-	-	-	-



PP - Galva Ø 80/125 mm

A Terminals

REFERENCE	DESCRIPTION
537D6184	Vertical Terminal
537D6185	Horizontal Terminal

B Ducts

REFERENCE	DESCRIPTION
537D6187	500 mm cuttable length
537D6188	1000 mm cuttable length

C Adjustable ducts

REFERENCE	DESCRIPTION
537D6189	Adjustable length 325mm to 400mm (Not Shown)

D Elbows

REFERENCE	DESCRIPTION
537D6190	43° - 45° bend
537D6191	87° - 90° bend

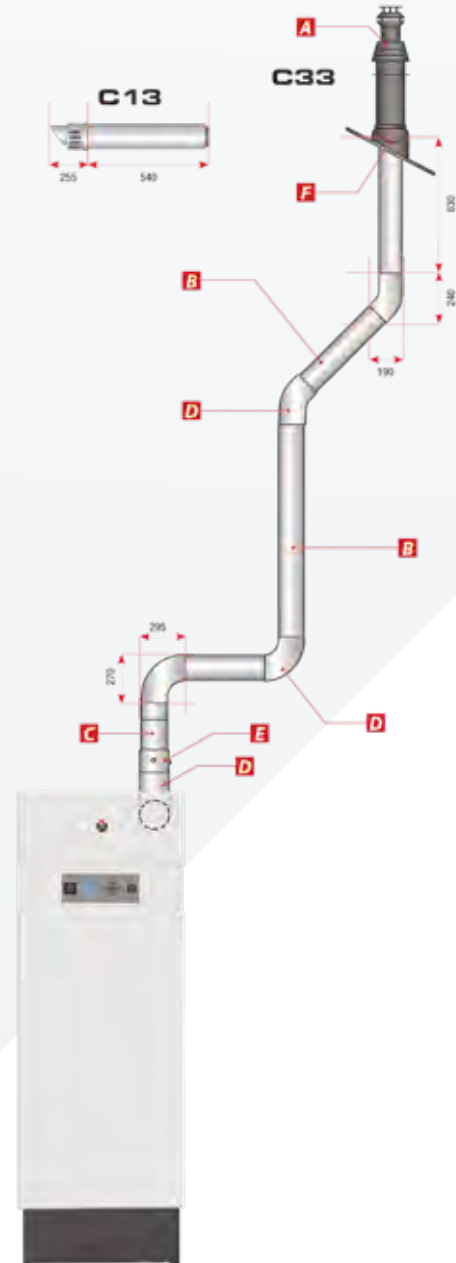
E Measurement tube

REFERENCE	DESCRIPTION
537D6193	Measuring tube for flue gas analysis
537D6229	Measurement T-piece with inspection panel (Not Shown)

F Accessories

REFERENCE	DESCRIPTION
537D6182	Adjustable flashing
537D6183	Fixing
537D6364	Flat roof flashing

HEATMASTER® 25C¹
 HEATMASTER® 25 - 35 - 45 TC¹
 WATERMASTER 25 - 35 - 45
 PRESTIGE® 24 - 32



¹These boiler models are supplied with an external measuring tube for flue gas analysis as one is not incorporated within the boiler.

The manufacturer reserves the right to modify manufacture.

ACV does not accept any liability from errors or omissions within, and reserve the right to alter technical specification and components without prior notice.

PP - Galva Ø 100/150 mm**A Terminals**

REFERENCE	DESCRIPTION
537D6300	Vertical terminal
537D6301	Wall terminal

B Ducts

REFERENCE	DESCRIPTION
537D6303	500 mm cuttable length
537D6304	1000 mm cuttable length

C Adjustable ducts

REFERENCE	DESCRIPTION
537D6305	Adjustable 325mm to 400mm length (Not Shown)

D Elbows

REFERENCE	DESCRIPTION
537D6306	43° - 45° elbow
537D6307	87° - 90° elbow

E Measurement tube

REFERENCE	DESCRIPTION
537D6308	Measuring tube (Not Shown)
537D6310	Measurement T-piece with inspection panel

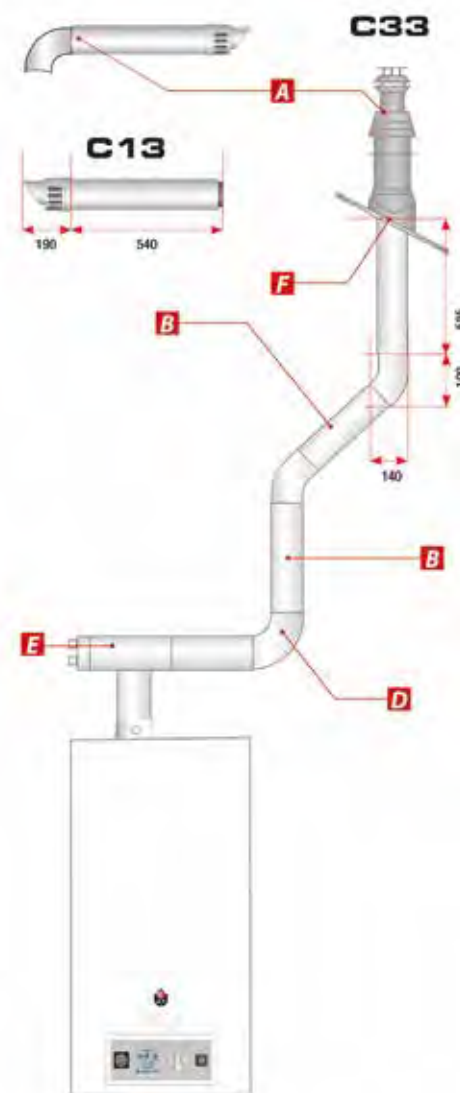
F Accessories

REFERENCE	DESCRIPTION
537D6208	Flat roof collar
537D6209	Adjustable collar
537D6210	Bracket Ø 100 mm

G Adapters

REFERENCE	DESCRIPTION
537D6207	Concentric to parallel adaptor Ø 100/150mm - Ø 2 x 100mm (Not Shown)

HEATMASTER® 70 - 85 - 120 TC¹
WATERMASTER 70 - 85 - 120
PRESTIGE® 42 - 50 - 75 - 100 - 120

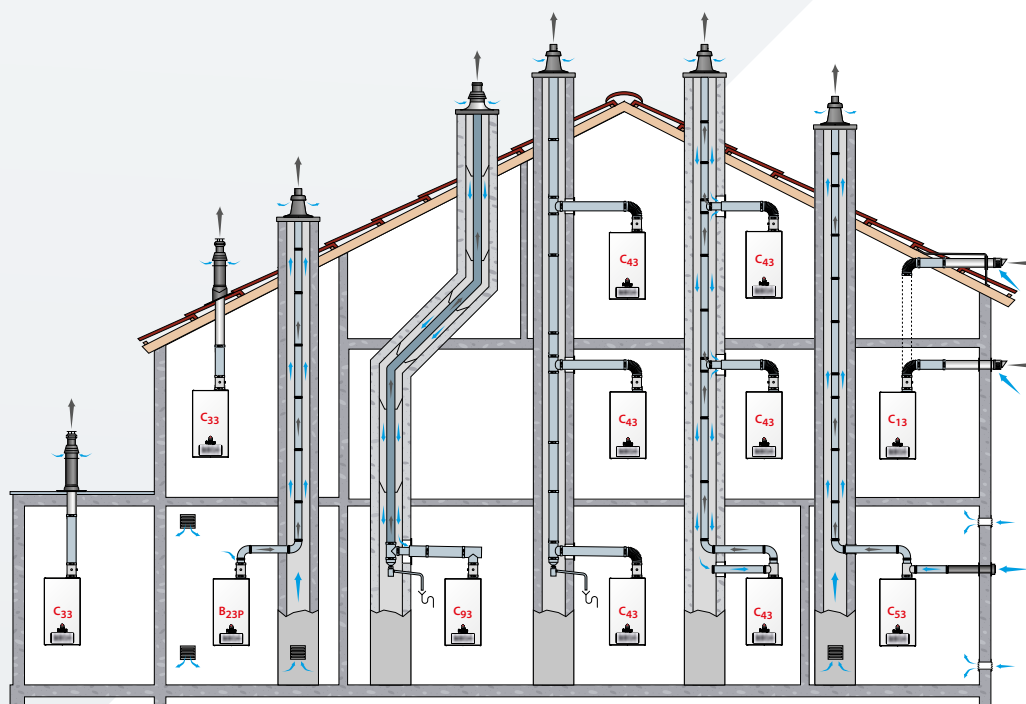


¹These boiler models are supplied with an external measuring tube for flue gas analysis as one is not incorporated within the boiler.

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REFERENCE	DESCRIPTION
B23P	Connection to a combustion product exhaust system designed to operate with positive pressure.
B23	Connection to an exhaust duct that discharges the combustion products outside the room where it is installed, with the combustion air being drawn directly from the boiler room
C13(x)	Connection using pipes fitted with a horizontal terminal that simultaneously takes in combustion air for the burner and discharges combustion products outside through openings that are either concentric or close enough together to be subjected to similar wind conditions, i.e. openings shall fit inside a square of 50 cm for boilers up to 70 kW and inside a square of 100 cm for boilers above 70 kW.
C33(x)	Connection using pipes fitted with a vertical terminal that simultaneously takes in fresh air for the burner and discharges combustion products outside through openings that are either concentric or close enough together to be subjected to similar wind conditions, i.e. openings shall fit inside a square of 50 cm for boilers up to 70 kW and inside a square of 100 cm for boilers above 70 kW.
C43(x)	Connection using two pipes to a collective duct system serving more than one appliance; this system of collective ducts features two pipes connected to a terminal unit that simultaneously takes in fresh air for the burner and discharges the combustion products outside through openings that are either concentric or close enough together to be subjected to similar wind conditions.
C43(x)	Boilers are suitable for a connection to a natural draught chimney only.
C53(x)	Connection to separate ducts for supplying combustion air and discharging combustion products; these ducts may end in zones with different pressure levels, but are not allowed to be installed on opposite walls of the building.
C63(x)	Type C boiler meant to be connected to a system for supplying combustion air and discharging combustion products, that is approved and sold separately (Prohibited in some countries (e.g. Belgium) - refer to local regulations and standards in force). Terminals for the supply of combustion air and for the evacuation of combustion products are not allowed to be installed on opposite walls of the building. See also the following additional specifications: <ul style="list-style-type: none"> • Maximum allowable draught is 200 Pa. • Maximum allowable pressure difference between combustion air inlet and flue gas outlet (including wind pressures) is as follows: 95 Pa (HM 25 TC), 130 Pa (HM 35- 45 TC), 110 Pa (HM 70 TC), 160 Pa (HM 85 TC) and 170 Pa (HM 120 TC). 150 Pa (for P42/P50/P75) and 180 Pa (for P100/P120) • Condensate flow is allowed into the appliance. • Maximum allowable recirculation rate of 10% under wind conditions.
C83(x)	Connection using a single or double duct system. The system is made of a normal exhaust flue duct that discharges the combustion products. The appliance is also connected through a second duct fitted with a terminal, that supplies the burner with fresh outdoor air. Please contact your ACV representative for the meters of flue pipes that can be used to connect the appliance(s)
C93(x)	Connection using an individual system whose combustion product exhaust duct is installed in an exhaust duct that is integral with the building. The appliance, the exhaust duct and the terminal units are certified as an inseparable assembly. Minimum usable diameter for the vertical duct supplying the combustion air is 100 mm. The C93 configuration enables airtight operation in a pre-existing chimney. The combustion air crosses the space between the tubing and the pre-existing chimney. Make sure to clean the pre-existing chimney thoroughly prior to installation, especially if there is soot or tar residue. Make sure that there is a clearance area for the combustion air at least equivalent to the area that would have been provided by separate concentric ducts or air intake ducts.



CASCADE FLUE COMPONENTS

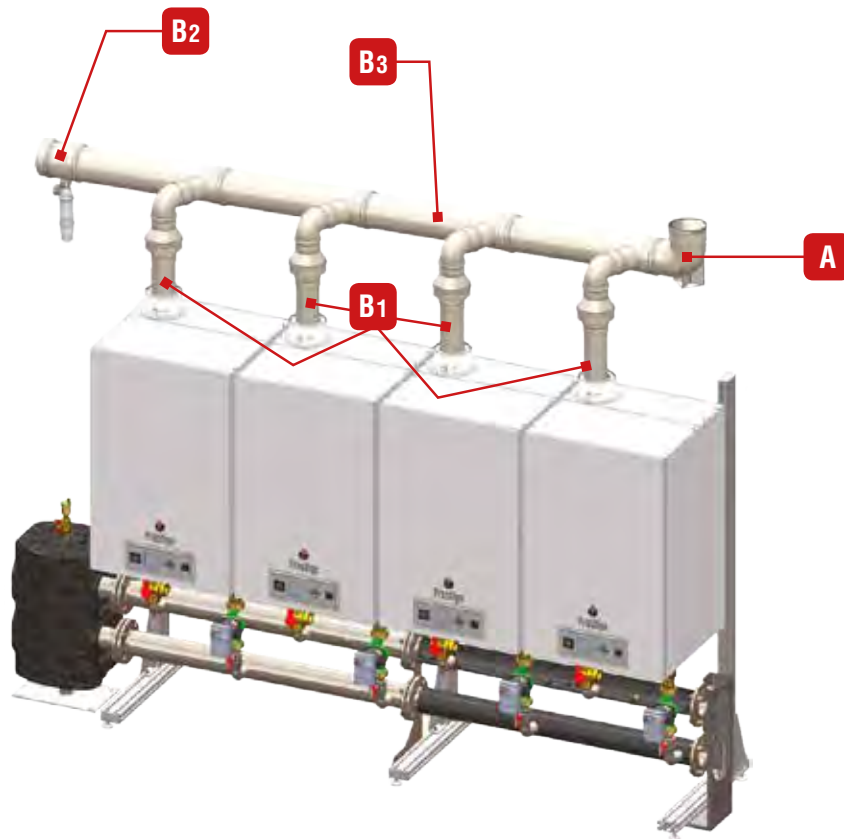


A Elbows

REFERENCE	DESCRIPTION
537D6501	Elbow 45° Ø 200
537D6463	Elbow 90° Ø 200

B Cascade

REFERENCE	DESCRIPTION
A1002332	Cascade connection tubes 2 boilers Ø100 (B1)
537D6472	Cascade connection tubes 3 boilers Ø100 (B1)
537D6473	Cascade connection tubes 4 boilers Ø100 (B1)
537D6474	Cascade connection tubes 5 boilers Ø100 (B1)
537D6475	Cascade connection tubes 6 boilers Ø100 (B1)
537D6476	Cascade connection tubes 7 boilers Ø100 (B1)
537D6477	Cascade connection tubes 8 boilers Ø100 (B1)
537D6446	Cascade End Condensate Set Ø 200 (B2)
10800300	Basic cascade kit Ø 200 for 1 boiler (B3)



- ✓ **STAINLESS STEEL TANK IN TANK TECHNOLOGY**
- ✓ **COMBINED HEATING AND HOT WATER PRODUCTS**
- ✓ **CONDENSING WALL HUNG GAS BOILERS**
- ✓ **HOT WATER GENERATORS**
- ✓ **UNVENTED CYLINDERS**
- ✓ **ELECTRIC BOILERS**

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**EXCELLENCE
IN HOT WATER**

