Product data sheet

CENTER

Center direct unvented cylinders

Product Codes – 176711, 176712, 1767413, 176714

The CenterStore cylinder is our most popular selling unvented cylinder, delivering great performance and value. The unit has a stainless steel inner vessel, which ensures an excellent standard or corrosion resistance.

The outer casing is a combination of both resilient thermoplastic mouldings and a plastic coated corrosion-proofed steel sheet. All products are insulated with CFC-free polyurethane foam to give good heat loss performance.

Technical Specification, Key Features & Benefits

- Long life duplex stainless steel cylinder
- Choice of capacities from 190 to 210 litres
- Purpose designed solar coil for maximum efficiency
- Indirect auxiliary heating with immersion back up
- Main pressure unvented hot water for high power showers and rapid filling baths
- Lower running costs and lower carbon emissions
- Ideal for both refurbishment and new build projects
- A complete package with all safety and hot water controls included
- KIWA Approved
- 25 year cylinder leak guarantee
- 2year guarantee on all other parts

Operational Summary

Maximum mains pressure:	1.6MPa (16 bar)
Operating pressure/PRV:	0.35MPa (3.5 bar)
Maximum design pressure:	0.6MPa (6 bar)
Expansion vessel charge pressure:	0.35MPa (3.5 bar)
Expansion relief valve setting:	0.6MPa (6 bar)
T&P relief valve setting:	90-95°C/1.0MPa (10 bar)
Maximum primary circuit pressure:	0.3MPa (3 bar) Indirect only
Pressure drop (Primary coil):	0.02MPa (0.2 bar)
Storage capacity:	see weight table
Weight when full:	see weight table

Directives & Standards Compliance

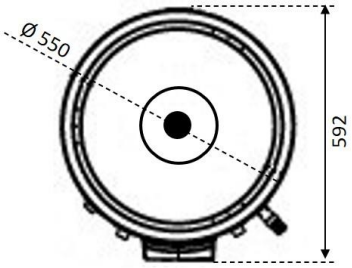
- BS EN 12897:2006 Water supply. Specification for indirectly heated unvented (closed) storage water heaters
- BS EN 12897:2016 Water supply. Specification for indirectly heated unvented (closed) storage water heaters
- Low Voltage Directive 2014/35/EU
  - BS EN 60335-1:2012+A11:2014 & EN 60335-2-21:2003+A2:2008
- EMC Directive 2014/30/EU
  - EN 55014-1:2006+A2:2011, EN 61000-3-2:2006, EN 61000-3-3:2008 &EN 62233:2008
- RoHS II Directive2011/65/EU
- Commission Regulation (EU) No 814/2013 of 2 August 2013 implementing Directive 2009/125/EC

Please Note:

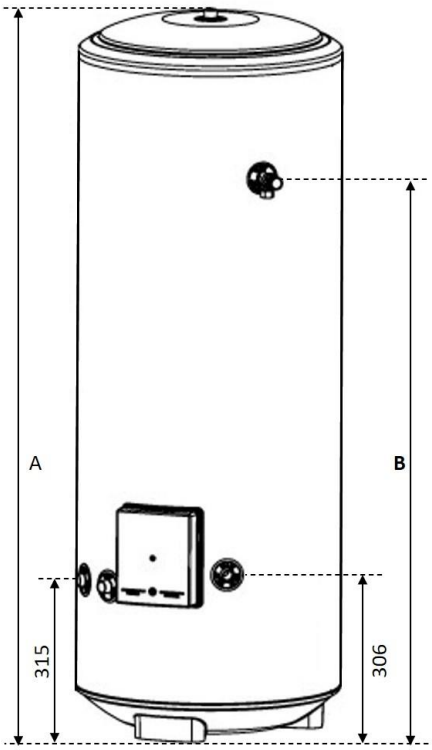
- Although the primary coil pressure rating is 1.0Mpa (10 bar) the 2 port zone valve supplied with the cylinder is only rated 0.86MPa (8.6 bar). If the cylinder is to be plumbed into a system delivering 1.0MPa (10 bar) a suitable 2 port zone valve will have to be sourced.

Dimensions, Weights & Performance

Product Code	Model Ref	Dimensions (mm)		Heat-up Time (mins)	Hot Water Capacity (ltrs) (volume of water drawn off >40°C)
		A	B		
176711	120 Ind	931	616	121	108
176712	150 Ind	1114	800	152	135
176713	170 Ind	1241	927	173	157
176714	210 Ind	1499	1184	215	199



Supplier's model identifier	120	150	170	210
Storage volume V in litres	120	150	170	210
Mixed water at 40 °C V40 in litres	180	234	265	332
The declared load profile	M	L	L	XL
The water heating energy efficiency class of the model	C	C	C	C
The water heating energy efficiency in %	36.0	37.3	37.1	38.1
The annual electricity consumption in kWh	1424	2741	2759	4395
Daily fuel consumption Q fuel in kWh	6.680	12.730	12.840	20.300
The thermostat temperature settings of the water heater, at point of sale	60°C			



Product Code	Model Ref	Nominal Capacity (ltr)	Weight when full (Kg)	Weight of Unit (Kg)
176711	120 Ind	120	145	25
176712	150 Ind	150	178	28
176713	170 Ind	170	199	29
176714	210 Ind	210	246	36

Standing heat losses (based on an ambient air temperature of 20°C and a stored water temperature of 65°C)

Nominal Capacity (ltr)	per day (kWh/24h)	per year (kWh/365d)
120	1.25	456
150	1.45	529
170	1.63	595
210	1.91	697

Sizing of copper discharge pipe (D2) for common temperature relief valve outlet sizes. NOTE: The table below is based on copper tube. Plastic pipes may be of different bore and resistance. Sizes and maximum lengths of plastic should be calculated using data prepared for the type of pipe being used.

VALVE OUTLET SIZE	MINIMUM SIZE OF DISCHARGE PIPE D1	MINIMUM SIZE OF DISCHARGE PIPR D2 FROM TUNDISH	MAXIMUM RESISTANCE ALLOWED, EXPRESSED AS A LENGTH OF STRAIGHT PIPE (I.E. NO ELBOWS OR BENDS)	RESISTANCE CREATED BY EACH ELBOW OR BEND
G 1/2	15mm	22mm	UP TO 9M	0.8M
		28mm	UP TO 18M	1.0M
		35mm	UP TO 27M	1.4M
G 3/4	22mm	28mm	UP TO 9M	1.0M
		35mm	UP TO 18M	1.4M
		42mm	UP TO 27M	1.7M
G1	28mm	35mm	UP TO 9M	1.4M
		42mm	UP TO 18M	1.7M
		54mm	UP TO 27M	2.3M

Warranty

25 Years cylinder leak
2 Years all other parts
From date of purchase - Proof of Purchase required, and warranty is valid as the requirements set out with the product instructions.

Spares

A list of available spares can be found on page 18 of the products installation instructions.
Should you require any technical help or spares in association with your purchase please contact your local branch or visit our website: www.wolseley.co.uk

WEEE Declaration 2012/19/EU

At the end of the product life dispose of the packaging and product in a corresponding recycling centre.
Do not dispose of the unit with the usual domestic refuse. Do not burn the product.

The information contained within this document was correct at date of issue. Fitting dimensions are provided as guide only. Some variation may occur due to manufacturing tolerances. We pursue a policy of continuing improvement in design and performance of products and so reserve the right to change specifications without prior notice.
Version number 1

WOLSELEY