



DUTYPOINT.COM

ELEMENT HOT WATER CYLINDERS



Hot Water Cylinders

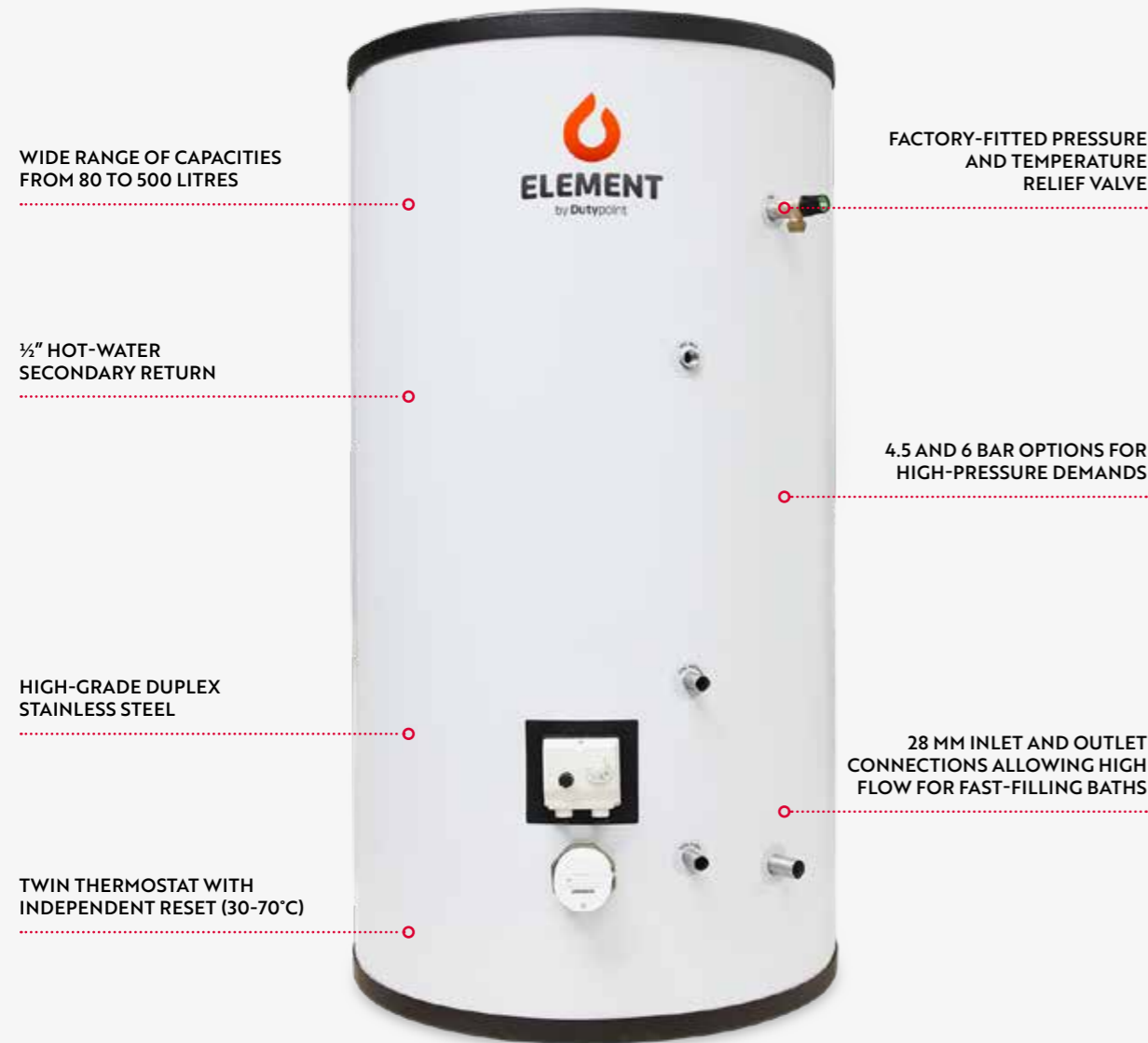
The Element ultra-high performance range has been specifically developed for properties that have a greater demand of high pressure and high flow.

PRODUCT OVERVIEW

- High-performance insulation
- Duplex stainless steel construction
- 25-year guarantee on internal cylinder
- Quick delivery



Key Features



Specification

Every Dutypoint cylinder has 28 mm inlet and outlet connections and is available in a wide variety of capacities to suit the demands of the property.

STANDARD TECHNICAL FEATURES

- 28 mm connections for high flow rates
- 4.5 bar and 6.0 bar versions for high-pressure installations
- WRAS approved for potable water
- Expansion vessel and two-port motorised zone valve included
- 3 kW electric immersion heater in addition to the primary coil
- 1/2" hot-water secondary return as standard
- High-performance insulation minimises energy loss
- High-grade duplex stainless steel construction for excellent durability
- 22 mm or 28 mm diameter stainless steel heating coil for fast reheating times
- Durable plastisol casing
- Factory-fitted pressure and temperature relief valve

APPROVALS

- Building Standards: BS 853-1-1996 & BS-12-897
- Building Regulations: Part G & L

GUARANTEE

- Internal cylinder: 25 years
- Ancillary components: 1 year

OPTIONS

- Additional coil for secondary heat sources, e.g. solar panels or air/ground source heat pumps
- Uprated primary coil for faster recovery times (available on 175-litre and larger models)
- 6 kW immersion heater (standard on Pro versions)
- Twin immersion heaters
- 1" hot-water secondary return
- Non-standard sizes
- Direct cylinders (immersion heater only)

PERFORMANCE

Flow rate	Up to 77 litres/minute
Inlet and outlet size	28 mm
Immersion heater kW	3 kW or 6 kW
Operating pressure	4.5 bar or 6.0 bar
Relief valve pressure	6.0 bar or 8.0 bar

ELEMENT PRO

For installations requiring faster recovery times, the Element Pro range features an up-rated primary coil and 6 kW immersion heater. Reheat times for this range are as fast as seven minutes.

ELEMENT DIRECT

Where no external heat source is available, the Element Direct range features a 2 x 3 kW immersion heater as standard.

ELEMENT SOLAR

With an additional secondary coil, the Element Solar range is ideal for renewable energy sources, including solar panels.

HORIZONTAL VERSION



Element

Model no.	Capacity (litres)	Max operating pressure (bar)	Expansion vessel (litres)	Coil rating (kW)*	Heat loss (kWh/24hrs @65°C)	Reheat time (mins)**	Height (mm)	Width (mm)	ERP rating	Dry weight (kg)
Element vertical cylinders (4.5 bar)										
EUHPC08045V	80	4.5	18	14	0.9	14	665	576	B	30
EUHPC15045V	150	4.5	24	20	1.3	18	1085	576	B	40
EUHPC17545V	175	4.5	24	20	1.5	21	1242	576	C	45
EUHPC21545V	215	4.5	35	20	1.6	26	1484	576	C	50
EUHPC25045V	250	4.5	35	20	1.8	30	1752	576	C	55
EUHPC30045V	300	4.5	50	20	2	36	2028	576	C	60
EUHPC40045V	400	4.5	80	30	1.7	32	1690	756	B	78
EUHPC50045V	500	4.5	100	30	2	40	2020	756	B	90
Element vertical cylinders (6 bar)										
EUHPC08060V	80	6	18	14	0.9	14	665	576	B	30
EUHPC15060V	150	6	24	20	1.3	18	1085	576	B	40
EUHPC17560V	175	6	35	20	1.5	21	1242	576	C	45
EUHPC21560V	215	6	35	20	1.6	26	1484	576	C	50
EUHPC25060V	250	6	50	20	1.8	30	1752	576	C	55
EUHPC30060V	300	6	50	20	2	36	2028	576	C	60
EUHPC40060V	400	6	80	30	1.7	32	1690	756	B	78
EUHPC50060V	500	6	100	30	2	40	2020	756	B	90
Element vertical cylinders - reduced height (4.5 bar)										
EUHPC30045V-RH	300	4.5	50	20	1.6	36	1320	756	B	57
EUHPC40045V-RH	400	4.5	80	30	2.5	32	1405	756	C	68
EUHPC50045V-RH	500	4.5	100	30	2.8	40	1690	756	C	78
Element vertical cylinders - reduced height (6 bar)										
EUHPC30060V-RH	300	6	50	20	1.6	36	1320	756	B	57
EUHPC40060V-RH	400	6	80	30	2.5	32	1405	756	C	68
EUHPC50060V-RH	500	6	100	30	2.8	40	1690	756	C	78
Element horizontal cylinders (4.5 bar)										
EUHPC15045H	150	4.5	24	20	1.3	18	725	1085	B	40
EUHPC17545H	175	4.5	24	20	1.5	21	725	1242	B	40
EUHPC21545H	215	4.5	35	20	1.6	26	725	1484	C	50
EUHPC25045H	255	4.5	35	20	1.8	30	725	1752	C	55
EUHPC30045H	305	4.5	50	20	2	36	725	2028	C	60
EUHPC40045H	400	4.5	80	30	1.7	32	905	1690	B	78
EUHPC50045H	500	4.5	100	30	2	40	905	2020	B	90
Element horizontal cylinders (6 bar)										
EUHPC15060H	150	6	24	20	1.3	18	725	1085	B	40
EUHPC17560H	175	6	35	20	1.5	21	725	1242	C	45
EUHPC21560H	215	6	35	20	1.6	26	725	1484	C	50
EUHPC25060H	255	6	50	20	1.8	30	725	1752	C	55
EUHPC30060H	305	6	50	20	2	36	725	2028	C	60
EUHPC40060H	400	6	80	30	1.7	32	905	1690	B	78
EUHPC50060H	500	6	100	30	2	40	905	2020	B	90

*Based on primary flow/return temp. of 80/60°C. **Based on 70% draw-off. ΔT 45°C

Element Pro

Model no.	Capacity (litres)	Max operating pressure (bar)	Expansion vessel (litres)	Coil rating (kW)*	Heat loss (kWh/24hrs @65°C)	Reheat time (mins)**	Height (mm)	Width (mm)	ERP rating	Dry weight (kg)
Element Pro fast recovery vertical cylinders (4.5 bar)										
EUHPC17545V-FR	175	4.5	24	54	1.5	8	1242	576	C	45
EUHPC21545V-FR	215	4.5	35	54	1.6	9	1484	576	C	50
EUHPC25045V-FR	250	4.5	35	54	1.8	11	1752	576	C	55
EUHPC30045V-FR	300	4.5	50	54	2	13	2028	576	C	60
EUHPC40045V-FR	400	4.5	80	54	1.7	18	1690	756	B	78
EUHPC50045V-FR	500	4.5	100	54	2	22	2020	756	B	90
Element Pro fast recovery vertical cylinders (6 bar)										
EUHPC17560V-FR	175	6	35	54	1.5	8	1242	576	C	45
EUHPC21560V-FR	215	6	35	54	1.6	9	1484	576	C	50
EUHPC25060V-FR	250	6	50	54	1.8	11	1752	576	C	55
EUHPC30060V-FR	300	6	50	54	2	13	2028	576	C	60
EUHPC40060V-FR	400	6	80	54	1.7	18	1690	756	B	78
EUHPC50060V-FR	500	6	100	54	2	22	2020	756	B	90
Element Pro fast recovery vertical cylinders - reduced height (4.5 bar)										
EUHPC30045V-FR-RH	300	4.5	50	54	1.6	13	1320	756	B	57
EUHPC40045V-FR-RH	400	4.5	80	54	2.5	18	1405	756	C	68
EUHPC50045V-FR-RH	500	4.5	100	54	2.8	22	1690	756	C	78
Element Pro fast recovery vertical cylinders - reduced height (6 bar)										
EUHPC30060V-FR-RH	300	6	50	54	1.6	13	1320	756	B	57
EUHPC40060V-FR-RH	400	6	80	54	2.5	18	1405	756	C	68
EUHPC50060V-FR-RH	500	6	100	54	2.8	22	1690	756	C	78

*Based on primary flow/return temp. of 80/60°C. **Based on 70% draw-off. ΔT 45°C

COIL RESISTANCE INFORMATION

Coil data is based on a maximum primary flow temperature of 80°C and return temperature of 60°C

Recommended flow rates through coil (l/sec)	Coil pressure drop at recommended flow (kPa)	Maximum coil output (kW)	Coil diameter	Approximate coil surface area (m ²)	Approximate coil volume (litres)
0.40	30	14	DN20	0.54	2
0.32	30	20	DN20	0.75	3
0.28	30	30	DN20	1.1	4
0.47	30	54	DN25	2	9.5

Element Direct

Model no.	Capacity (litres)	Max operating pressure (bar)	Expansion vessel (litres)	Immersion heater (kW)	Heat loss (kWh/24hrs @65°C)	Reheat time (mins)	Height (mm)	Width (mm)	ERP rating	Dry weight (kg)
Element Direct vertical cylinders (4.5 bar)										
EUHPC08045V-DR	80	4.5	18	1 x 3	0.9	63	665	576	B	25
EUHPC15045V-DR	150	4.5	24	2 x 3	1.2	60	1085	576	B	35
EUHPC17545V-DR	175	4.5	24	2 x 3	1.5	70	1242	576	C	40
EUHPC21545V-DR	215	4.5	35	2 x 3	1.6	85	1484	576	C	45
EUHPC25045V-DR	250	4.5	35	2 x 3	1.8	99	1752	576	C	50
EUHPC30045V-DR	300	4.5	50	2 x 3	2	119	2028	576	C	55
EUHPC40045V-DR	400	4.5	80	2 x 3	1.7	159	1690	756	C	78
EUHPC50045V-DR	500	4.5	100	2 x 3	2	199	2020	756	C	90
Element Direct vertical cylinders (6 bar)										
EUHPC08060V-DR	80	6	18	1 x 3	0.9	63	665	576	B	25
EUHPC15060V-DR	150	6	24	2 x 3	1.3	60	1085	576	B	35
EUHPC17560V-DR	175	6	35	2 x 3	1.5	70	1242	576	C	40
EUHPC21560V-DR	215	6	35	2 x 3	1.6	85	1484	576	C	45
EUHPC25060V-DR	250	6	50	2 x 3	1.8	99	1752	576	C	50
EUHPC30060V-DR	300	6	50	2 x 3	2	119	2028	576	C	55
EUHPC40060V-DR	400	6	80	2 x 3	1.7	159	1690	756	C	78
EUHPC50060V-DR	500	6	100	2 x 3	2	199	2020	756	C	90

*Based on 70% draw-off. ΔT 45°C

ScubaTANK® and Element hot water cylinders
The perfect duo you can rely on

COMPLETE SYSTEM AND ALL PARTS WRAS APPROVED
 ★★★★★
 WRAS APPROVED PRODUCT

THE ORIGINAL
ScubaTANK®
 BY DUTYPOINT

To discuss 'the perfect duo', call us now on
01452 300110 or email enquiries@dutypoint.com

Automatic Air Replenishment Cylinders

PRODUCT DESCRIPTION

This device is a key part of a new and revolutionary approach to unvented water heating installations.

Manufactured in accordance with BS 7206: 1990 to accommodate the water's expansion as it is heated inside the water tank; an external pressurised expansion vessel is coupled to the tank. The expansion vessel will lose its charge and have to be repressurised over time.

An alternative to fitting an expansion vessel is to provide a volume of air above the water level inside the water heater (internal expansion). This process will eliminate the need for the external expansion vessel and reduce installation time.

However, the air is absorbed by the water with internal expansion. When this happens, a procedure needs to be carried out to replace the air in the vessel manually; this means regular recharging.

The revolutionary new technology incorporated into the Dutypoint automatic expansion range automatically recharges the air in the vessel every time water is drawn off by the user, creating a low-maintenance, fully automated and self-sustaining system.



Element Auto - Automatic Expansion Cylinder

Model no.	Capacity (litres)	Max operating pressure (bar)	Coil rating (kW)*	Heat loss (kWh/24hrs @65°C)	Reheat time (mins)**	Height (mm)	Outer width (mm)	ERP rating	Dry weight (kg)
Element Auto - automatic expansion cylinder - indirect (3 bar)									
EUHPC08030V-AE	80	3	14	0.8	14	703	576	A	30
EUHPC15030V-AE	150	3	14	1.1	26	1235	576	B	40
EUHPC17530V-AE	175	3	20	1.2	21	1370	576	B	45
EUHPC21530V-AE	215	3	20	1.4	26	1666	576	B	50
EUHPC25030V-AE	250	3	20	1.5	30	1884	576	B	55
EUHPC30030V-AE	300	3	20	1.8	36	2150	576	C	60
EUHPC40030V-AE	400	3	30	2.4	32	1522	750	C	68
EUHPC50030V-AE	500	3	30	2.7	40	1896	750	C	78
Element Auto - automatic expansion cylinder - direct (3 bar)									
EUHPC08030V-DR-AE	80	3	3	0.8	64	703	576	C	25
EUHPC15030V-DR-AE	150	3	6	1.1	60	1235	576	C	35
EUHPC17530V-DR-AE	175	3	6	1.2	70	1370	576	C	40
EUHPC21530V-DR-AE	215	3	6	1.4	85	1666	576	C	45
EUHPC25030V-DR-AE	250	3	6	1.5	99	1884	576	C	50
EUHPC30030V-DR-AE	300	3	6	1.8	119	2150	576	C	55
EUHPC40030V-DR-AE	400	3	6	2.4	159	1522	750	C	65
EUHPC50030V-DR-AE	500	3	6	2.7	199	1896	750	C	75

*Based on primary flow/return temp. of 80/60°C. **Based on 70% draw-off. ΔT 45°C - Upper coil operation



Phillimore Gardens, Kensington Luxury Residential



PROJECT DETAILS

Project name
Phillimore Gardens

Industry sector
Luxury residential

Project type
Large townhouse

Refurbished with
Basement Dig

- Products supplied**
- Twin-pump ScubaTANK®
 - 6.0 bar element unvented hot water cylinder
 - 2 x boilers
 - Heating pumps
 - Low-loss header and plate heat exchanger

PROJECT SUMMARY

As part of an extensive refurbishment of a large townhouse in Kensington, high-pressure water was required over seven floors with seven bathrooms, a swimming pool, multiple showers and a 12 m deep basement development.

PROJECT CHALLENGE

After a full site survey, Dutypoint provided a complete, tailored packaged solution incorporating a ScubaTANK® all-in-one tank and pump booster, a 6.0 bar Element ultra-high performance cylinder, two boilers, a pressurisation set, heating pumps and a plate heat exchanger.

PROJECT SOLUTION

The installation was a success, and the system boosts consistent and reliable high water pressure over 22 m to the top floor and every part of the house, even at times of maximum demand.

The complete booster sets were pre-built and mounted on skids to save space and installation time on site – ideal for small plant rooms or confined spaces.



Let's talk about the Element hot water cylinder

01452 300110

ENQUIRIES@DUTYPOINT.COM

DUTYPOINT.COM