



# heat pump cylinders

## HP, HPL, HPS, HPSL

### A Range of Stainless Steel Unvented Cylinders

For use with heat pumps in single coil and twin coil patterns up to 500 litre capacity. Insulated with 60mm of low loss polyurethane foam and finished in an attractive mild steel case with a leatherette finish.

Attractive in appearance with superb heat loss characteristics, Advance Heat Pump Cylinders are supplied with fitted T&P valve, immersion heater for thermal disinfection, dual thermostat with control and high limit plus full G3 kit.

- Stainless steel mains pressure cylinders 25 years guarantee
- Enhanced surface area coils designed specifically for heat pumps
- Exceeds part L of Building Regulations minimum heat loss
- Safety kit provided meets Part G of the Building Regulations
- 3 bar operation high flow rates for fast bath filling and power showers



**Also Supplied:** Control and High Limit Thermostat, One 2 Port Motorised Valve,\* One 3kw Immersion Heater, Tun Dish and Installation Manual. The Units Meet Current Building Regulations, are Manufactured in the UK and Guaranteed for 25 Years (Components 2 Years). \* with Twin coil Only

- A store of mains pressure hot water ready on demand
- Twin coil units available use solar energy for the best of both worlds
- Heat pumps save money and energy
- Commercial sizes available
- Low resistant range available for fast flow



# Technical Specifications

\*At 40°C T, 55°C output, 25 litres/minute flow

CODE	VOL (LTR)	SIZE DIA X HGT mm	AREA SQ MTR LOWER SOLAR COIL	AREA SQ MTR HEAT PUMP COIL	HP COIL kW RATING*	EX VESSEL CAPACITY	HEAT LOSS WATTS / CLASS	WEIGHT EMPTY KG	SOLAR VOLUME
HP 135 SINGLE COIL	135	575 x 960	-	1.6	22	12 Litres	40 / B	40	-
HP 150 SINGLE COIL	150	575 x 1083	-	2	28	12 Litres	44 / B	44	-
HP 215 SINGLE COIL	215	575 x 1485	-	3	40	18 Litres	58 / B	54	-
HP 255 SINGLE COIL	255	575 x 1750	-	3	40	24 Litres	63 / B	57	-
HP 305-3 SINGLE COIL	305	575 x 2023	-	3	40	24 Litres	69 / B	61	-
HP 305-4 SINGLE COIL	305	575 x 2023	-	4	55	24 Litres	69 / B	63	-
HPL 255 SINGLE COIL	255	575 x 1750	-	3	40	24 Litres	63 / B	57	-
HPL 305 SINGLE COIL	305	575 x 2023	-	3	40	24 Litres	69 / B	61	-
HPL 400 SINGLE COIL	400	580 x 2050	-	3	40	50 Litres	93 / C	85	-
HPL 500 SINGLE COIL	500	750 x 1999	-	3	40	50 Litres	99 / C	101	-
HPS 215 TWIN COIL	215	575 x 1485	1.10	2	28	18 Litres	58 / B	57	80
HPS 255 TWIN COIL	255	575 x 1750	1.10	2	28	24 Litres	63 / B	58	80
HPS 305-3 TWIN COIL	305	575 x 2023	1.10	3	40	24 Litres	69 / B	64	90
HPSL 305 TWIN COIL	305	575 x 2023	1.10	3	40	24 Litres	69 / B	64	90
HPSL 400 TWIN COIL	400	580 x 2050	1.10	3	40	50 Litres	93 / C	93	170
HPSL 500 TWIN COIL	500	750 x 1999	1.10	3	40	50 Litres	99 / C	114	170

NOTE: HP=SINGLE COIL, HPS=TWIN COIL, HPL=LOW RESISTANCE SINGLE COIL, HPSSL=LOW RESISTANCE TWIN COIL

## Coil Resistance in Bar

STANDARD RANGE			
Flow Rate L/Min	2M <sup>2</sup> COIL	3M <sup>2</sup> COIL	4M <sup>2</sup> COIL
15	0.08	0.12	0.16
20	0.14	0.21	0.28
25	0.22	0.33	0.44
30	0.32	0.48	0.64
35	0.45	0.68	0.90

Above 35L/Min - Use low resistant coils.

LOW RESISTANCE RANGE	
Flow Rate L/Min	3M <sup>2</sup> COIL
50	0.39
60	0.58
70	0.83

## General Specifications

Material	Duplex Stainless Steel
Operating Pressure Tank & Coil	3 Bar
Pressure Reducing Valve	Max Pressure 12 Bar/ Control Pressure 3 Bar
Expansion Vessel Charge	3 Bar
Expansion Relief Valve	6 Bar
Hot & Cold Connections	22mm (28mm • 400 & 500 litre)
Standard Coil	28mm
Low Resistant Coil	35mm



## Special Design

Advance Appliances has spent many years developing and refining the range of cylinders to work with most heat pumps. A lot of the work was carried out with manufacturers of heat pumps to provide the optimum synthesis of technologies. The coils are not only much larger in surface area than standard cylinders; they are configured for low resistance, high capacity and maximum temperature drop. Their position within the cylinder has been chosen to give the best performance.

This design is critical, and will get the very best heat up performance from heat pump inputs. Coil outputs are measured using typical heat pump temperatures and flow rates. For faster flow rates our range of HPL (single coil) and HPSSL (twin coil) tanks offer even lower resistance.

All cylinders are supplied with an appropriate G3 kit and meet Part L and Part G of the Building regulations. A 25 year guarantee gives specifiers and installers reassurance that they are choosing market leading technology and manufacturing. All cylinders are made in the UK.

## What Size do I Need?

CODE	APPLICATION GUIDE
HP 150 Single Coil	Single Bath
HP 215 Single Coil	Single Bath & Shower
HP 255 Single Coil	Twin Bath
HP 305 Single Coil	Twin Bath & Shower
HPL 400 Single Coil	3 Bath & Shower
HPL 500 Single Coil	4 Baths & 1 Shower
HPS 215 Twin Coil	1 Bath
HPS 305 Twin Coil	1 Bath & Shower
HPS 255 Twin Coil	Twin Bath
HPSSL 400 Twin Coil	Twin Bath & 2 Showers
HPSSL 500 Twin Coil	3 Baths



All units are supplied with full unvented kit

Advance Appliances

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