



the fast flow energy efficient system providing hot water  
around the home

**NEPTUNE**  
CYLINDERS

**The Neptune Cylinder** is an unvented hot water storage system which is an ideal compliment to our Fusion Electric Boiler and the EHC Electric Combination Radiators.

Like all EHC Products the Neptune Range is manufactured to the highest standard and offers a high performance to suit your needs.

The range is suited to both Domestic and Commercial purposes and comprises of three sizes in both Direct and Indirect Models.

By providing fast, safe, mains pressure hot water around the home these cylinders meet the needs of the builder, installer and consumer.

The Neptune range provides fast flow rates, energy efficient insulation, quick recovery coils and the use of an external expansion vessel to reduce maintenance. Additionally the 3 bar operation of the unit meets all modern criteria for fast flow applications.

The Neptune Cylinder can be installed as part of an integrated Wet Central Heating System and as such we would recommend the award winning Fusion Electric Boiler complete with the Mercury Wet Radiators.

If you are replacing your Storage Heating System we would recommend that you install the Neptune Direct Cylinder in conjunction with our EHC Electric Combination Radiators which will provide a fully controllable heating and domestic hot water system.

The Neptune indirect cylinder is suitable for providing hot water with all types of boilers: gas, electric, oil, solid fuel and LPG.

With the various alternatives available on the market today choosing the right option can often be confusing and as such our highly experienced staff would welcome the opportunity to discuss all your hot water and heating requirements and advise you accordingly.

For further information on our complete range of central heating products please visit our website at [www.electric-heatingcompany.co.uk](http://www.electric-heatingcompany.co.uk) or telephone 01698 820533.

The following benefits are in addition to the 25 year guarantee:

Mains Pressure Hot Water =  
**Powerful Showers**

High Flow Rates =  
**Baths fill very quickly + Ideal for multiple bathrooms**

Fast Reheat =  
**Hot water always available**

Very Well Insulated =  
**Low heat loss + Economical to run**

Attractive Steel Finish Case =  
**Smart, tough and wipe clean**

Low Maintenance =  
**No hidden costs**

25 Year Guarantee =  
**Peace of mind**

Duplex Stainless Steel =  
**Superior corrosion resistance and long life + 100% recyclable**



### Direct Models (Electric)

- Inlet control set
- Temp & Pressure relief valve
- 15mm / 22mm Tundish
- Expansion vessel c/w wall mounting bracket
- Expansion vessel hose
- 2 x 3 kW Immersion heaters
- Installation & Maintenance Instructions
- Benchmark Logbook

### Indirect Models

(Gas, Oil or Electric boilers)

- Inlet control set.
- Temp & Pressure relief valve.
- 15mm / 22mm Tundish
- Expansion vessel c/w wall mounting bracket
- Expansion vessel hose
- 1 x 3kW Immersion Heater
- Two port zone valve
- Dual Thermostat
- Installation & Maintenance Instructions
- Benchmark Logbook

These recommendations are based on the guidelines in BS 6700. Guidance should be sought for unusual applications, e.g. high flow-rate showers, large baths etc.

Units	Bedrooms	Direct Units	Indirect
1 Standard Bath or Shower	Bedsit/1 Bed	150	120
	2-3 Bed	180	120
	3-4 Bed	210	150
1 Standard Bath	2-3 Bed	210	120
	3-4 Bed	210	120
1 Bath and En-suite	2-3 Bed	210	150
	3-4 Bed	210	150
	4-5 Bed	250	180
2 Standard Baths	2-3 Bed	210	180
	3-4 Bed	210	180
	4-5 Bed	250	210
3 Standard Baths	3-4 Bed	300	250
	4-5 Bed	300	250
	5-6 Bed	300	300

# Reheat Performance

## Neptune Direct Reheat Performance

MODEL	REHEAT TIME 2 x 3kW Elements
NDIR 120	45 minutes
NDIR 150	61 Minutes
NSDIR 180	79 minutes
NDIR 210	96 minutes
NSDIR 250	112 minutes
NSDIR 300	132 minutes

## Neptune Indirect Reheat Performance

MODEL	REHEAT TIME	COIL kW RATING
NIND 120	16 Minutes	16.52 kW
NIND 150	18 Minutes	17.16 kW
NSIND 180	22 Minutes	19.15 kW
NIND 210	25 Minutes	20.77 kW
NSIND 250	28 Minutes	21.96 kW
NSIND 300	35 Minutes	22.38 kW

The reheat performance is measured from 15°C to 60°C after drawing off 70% of the capacity.

### IMMERSION HEATERS

SIZE	DIRECT	INDIRECT
120 litre	2 x 3 kW Immersion heaters	1 x 3 kW Immersion heaters
150 litre	2 x 3 kW Immersion heaters	1 x 3 kW Immersion heaters
180 litre	2 x 3 kW Immersion heaters	1 x 3 kW Immersion heaters
210 litre	2 x 3 kW Immersion heaters	1 x 3 kW Immersion heaters
250 litre	2 x 3 kW Immersion heaters	2 x 3 kW Immersion heaters
300 litre	2 x 3 kW Immersion heaters	2 x 3 kW Immersion heaters

# Neptune Solar Cylinders

EHC Ultrasteel Solar cylinders have been designed specifically with Solar applications in mind. Featuring a purpose-designed solar coil, which allows maximum heat transfer of solar energy into the stored water, the cylinders are suitable for use with a wide range of solar systems now available in the UK and are an efficient and environmentally

friendly way of providing Domestic Hot Water. Ultrasteel Solar cylinders are available in a range of sizes from 180 to 300 litres and in Direct or Indirect versions. Ultrasteel Solar cylinders are manufactured from high grade Duplex stainless steel and come with a 25-year fully transferable Guarantee on the inner container.

### SOLAR CYLINDERS

WATER CAPACITY (litres)		Designated Solar Area	Alternative Fuel Area	Total Capacity (litres)
Direct	Indirect			
NSDIR 180	NSIND 180	55	125	180
NSDIR 210	NSIND 210	65	145	210
NSDIR 250	NSIND 250	90	160	250
NSDIR 300	NSIND 300	100	200	300

# Foam Insulation and Heat Loss

All Neptune cylinders have 50mm (nominal) thickness of fire retardant polyurethane foam giving significant gains in standing heat loss values:

CAPACITY	STANDING LOSS (kW h/24hrs)
120 ltr	1.10
150 ltr	1.38
180 ltr	1.63
210 ltr	1.90
250 ltr	2.21
300 ltr	2.43

In addition our insulation material offers benefits to the 'green' specifier:

CFC free and HCFC free

Ozone depletion potential (ODP) - Zero

Global warming potential (GWP) - One





Visit our website for further information on the complete range of EHC products.

## UNVENTED MAINS PRESSURE CYLINDERS SPECIFICATIONS

Description	Immersion heating Rating kW	Capacity Litres	Diameter (mm)	Height (mm)	Dry Weight (kg)	Product Code
Neptune Stainless Steel Direct	3 (x2)	120	550	906	30	NDIR125
Neptune Stainless Steel Direct	3 (x2)	150	550	1093	35	NDIR150
Neptune Stainless Steel Direct	3 (x2)	180	550	1281	40	NDIR180
Neptune Stainless Steel Direct	3 (x2)	210	550	1469	45	NDIR210
Neptune Stainless Steel Direct	3 (x2)	250	550	1719	50	NDIR250
Neptune Stainless Steel Direct	3 (x2)	300	550	2032	55	NDIR300
Neptune Stainless Steel Indirect	3 (x1)	120	550	906	35	NIND125
Neptune Stainless Steel Indirect	3 (x1)	150	550	1093	40	NIND150
Neptune Stainless Steel Indirect	3 (x1)	180	550	1281	45	NIND180
Neptune Stainless Steel Indirect	3 (x1)	210	550	1469	50	NIND210
Neptune Stainless Steel Indirect	3 (x2)	250	550	1719	55	NIND250
Neptune Stainless Steel Indirect	3 (x2)	300	550	2032	60	NIND300

## SOLAR CYLINDERS SPECIFICATIONS

Description	Designated Solar Area	Alternative Fuel Area	Capacity Litres	Product Code Direct	Product Code Indirect
Neptune Solar	55	125	180	NSDIR180	NSIND180
Neptune Solar	65	145	160	NSDIR210	NSIND210
Neptune Solar	90	160	250	NSDIR250	NSIND250
Neptune Solar	100	200	300	NSDIR300	NSIND300



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