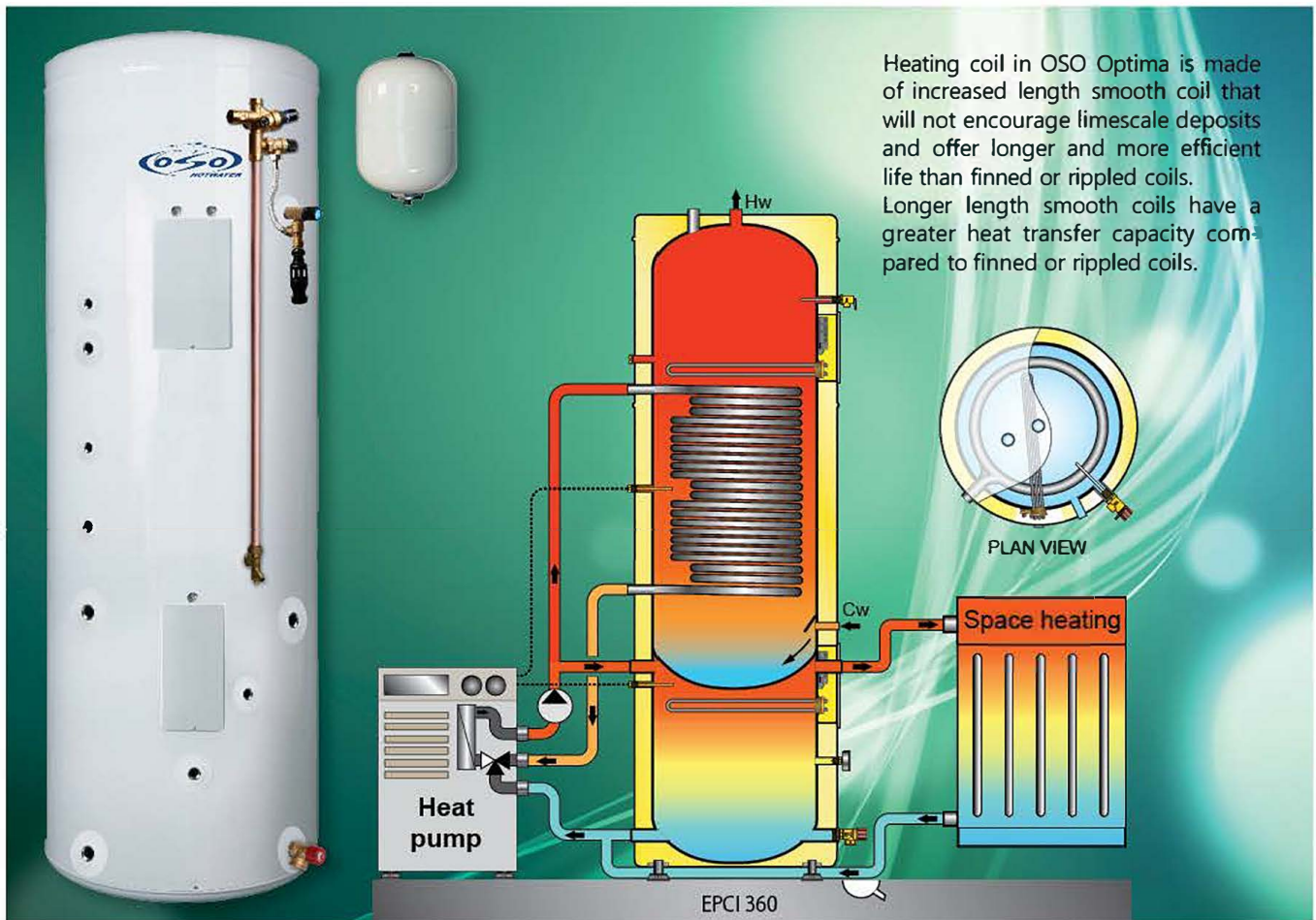


# Optima - EPCI - heat pump cylinder with integral buffer store



Heating coil in OSO Optima is made of increased length smooth coil that will not encourage limescale deposits and offer longer and more efficient life than finned or rippled coils. Longer length smooth coils have a greater heat transfer capacity compared to finned or rippled coils.

## The ideal choice for heat pump & space heating

The Optima's unique construction (pat.) provides optimal working conditions for non-inverter driven heat pumps, whilst at the same time providing a buffer vessel in the same unit. The buffer vessel functions as energy storage for space heating requirements, while the heat pump is producing domestic hot water. A high performance fully flooded design, with expansion vessel and motorized valve supplied with the cylinder.

The unique 2-in-1 tank on tank construction provides maximum COP (Coefficient of Performance) for the heat pump of your choice up to 14 kW. The buffer vessel of 100 litres is located at the lower part of the unit, in its own temperature zone suitable for low temperature space heating such as under floor heating or fan convectors. The space heating temperature in the buffer tank transfers significant heat upwards into the domestic hot water tank through the cylinder, thereby reducing return temperature to the heat pump and maximizing COP whilst providing a valuable and efficient pre-heat to the domestic hot water. DHW coil in the upper cylinder is positioned to eliminate risk of heat leaking downwards into the buffer vessel. Once there is domestic hot water use, the diverting valve in the heat pump switches its flow into the 1.8 m<sup>2</sup> heating coil in the upper cylinder, providing maximum heat transfer and domestic hot water production. The 3 kW immersion heater heats the water up to 65°C.

During this time, the buffer vessel continues to provide consistent temperature to the space heating system, without compromising performance. The heating coil supports optimum heat transfer for all single phase heat pumps up to 14 kW and is made from smooth pipes to prevent limescale accumulation. The 25m. length and 8 litre water content of the OSO heat pump coils give them superior heat transfer performance.

The energy efficiency of the system is unsurpassed, since the Optima minimizes heat loss, maximizes COP for the heat pump and increases domestic hot water production. Optima is supplied with bosses and dry pockets for insertion of temperature sensor probes at low and high levels to interact with Heat Pump.

### ADVANTAGES

- All in one solution with minimum heat loss and considerable space saving
- Maximizes COP for heat pumps up to 14 kW - improves working conditions
- Higher domestic hot water production - electric backup

### PRODUCT DATA

Guarantee	Tank 25 yrs* - parts 2 yrs
Insulation	ECO Foam - water based
Certification	CE / KIWA
El. elements	5/4" thread
Thermostat	40-70°C (preset 60°C)
Exp. vessel	External
Safety valve	10 bar/90-95°C - fitted

\*Subject to T&C

### Technical Data Fiche

Prod. No.	Product code:	Capacity persons	Weight kg.	DiaxHeight mm.	Coil rating kW*	Volume buffer/primary	Heat loss kWh/d	Heat loss W	Rating ErP
132 6800	EPCI 360 - 3+3kW71x240V+coil 1.8m <sup>2</sup>	3.5	86	ø580x1900	27.6	97/224	1.7	71	C

\*Tested to BS EN 12897