

## Heat-On™ Blocks - *the safer alternative to oil baths*

The safest, fastest and most efficient way to heat and stir round bottom flasks from 10ml to 5 litres.

It is widely accepted that oil baths and heating mantles are no longer the preferred choice of chemists to heat round bottom flasks. The risk of oil fires and injury from hot oil spills, plus the mess associated with the use of oil means that oil baths no longer represent safe working practice in labs.

Not only does heating oil pose a safety risk, but it is also expensive to buy and dispose of. Over a period of time the oil will discolour and degrade due to thermal ageing and contamination from chemicals, water and general debris, and will give off smoke and fumes particularly if heated to high temperatures. Regular replacement is therefore necessary to maintain a safe working environment.



### Comparison of the cost between Heat-On Blocks and Oil Baths over a 1 and 3 year period

Description	Cost of Heat-On Block	Flask Size	Quantity of oil required	Total cost of oil & disposal over 1 year*	Total cost of oil & disposal over 3 years*	Heat-On saving over 3 Years
<b>250ml Heat-On Block</b> (Fluoropolymer Coated, RR61040)	£203	250ml	0	£0	£0	<b>£232</b> (=£435-£203)
1 Litre Oil Bath for 250ml Flask		250ml	0.62 Litres	£145	£435	
<b>500ml Heat-On Block</b> (Fluoropolymer Coated, RR61045)	£214	500ml	0	£0	£0	<b>£446</b> (=£660-£214)
2 Litre Oil Bath for 500ml Flask		500ml	0.94 Litres	£220	£660	
<b>1 Litre Heat-On Block</b> (Fluoropolymer Coating, RR61050)	£228	1 Litre	0	£0	£0	<b>£1002</b> (=£1230-£228)
4 Litre Oil Bath for 1 Litre Flask		1 Litre	1.75 Litres	£410	£1230	
<b>2 Litre Heat-On Block</b> (Fluoropolymer Coating, RR61055)	£316	2 Litre	0	£0	£0	<b>£968</b> (=£1284-£316)
4 Litre Oil Bath for 2 Litre Flask		2 Litre	1.83 Litres	£428	£1284	

\*Based on 2 oil changes per year. Average cost of oil per litre = £115. Average cost of oil disposal per litre = £2. All prices are in £ Sterling as of March 2014. Further details are available on request.