



<https://flameit.io>

Water: Specific Heat Calculator

Important values

Editable fields

Initial temperature	20 °C	Starting temperature in tank/buffer	
Final temperature	50 °C	Final temperature in tank/buffer	
Water amount	1000 l	Amount of water you would like to heat	
Computer power (heater)	2,00 kW	Power consumption of heating device (miner/server/HPC etc)	
Electricity cost (per kWh)	0,70 kWh	How much do you pay per kWh (in Your local currency)? All costs are calculated in Your currency	0,58
Gas heating cost (per kWh)	0,000 kWh	How much do you pay per kWh (in Your local currency)? All costs are calculated in Your currency	0,247
Time needed to heat water	17 h	How much time is needed to heat Your water tank/buffer using temperature delta You have provided	
Water mass in room temp	998 kg		
Water specific heat	4189,9 J/(kg·K)		
Temperature difference	30 °C		

Amount of energy needed to heat water

Costs (in Your currency)

		Electricity	Gas	Miner minium profit
Kilowatt hour to heat water	34,85 kWh	24,39	0,00	24,39
Joules to heat water	125445606 J			

Computer (heater) power consumption and costs (running full speed all the time)

		Electricity	Gas	Miner minium profit
Per day	48 kWh	33,60	0,00	33,60
Per month (30 days)	1440 kWh	1 008,00	0,00	1 008,00
Per year	17520 kWh	12 264,00	0,00	12 264,00

