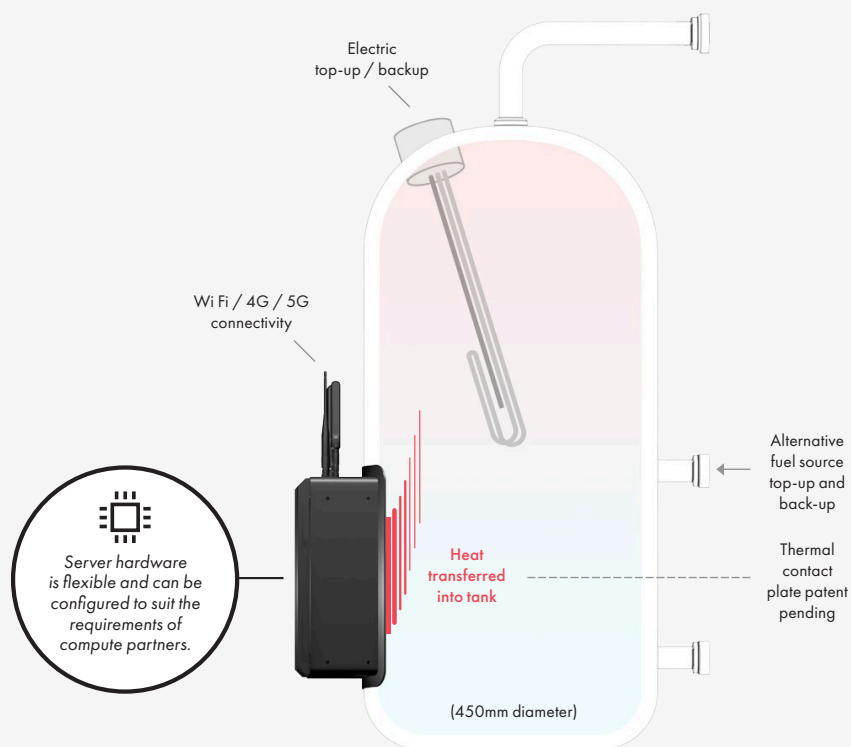




# Heata unit technical overview



  
Server hardware is flexible and can be configured to suit the requirements of compute partners.

- Fits most domestic hot water tanks.
- Provides base-load heating.
- Immersion heater as top-up / back-up.
- Electrician installed, no plumbing required.
- Easy to fit, maintain, replace and remove.



## Security

### Compute Customer:

#### Is my data safe in the unit?

**Yes:**  
LUKS / AES-256 Fully Encrypted Drive, key secured with industry standard TPM 2.0 (ISO/IEC 11889) on motherboard. BIOS locked; boots to supplied storage only, the case is locked and all peripherals are disabled and physically inaccessible.  
*Other security standards can be supported on request.*

#### Is my data safe on a home network?

**Yes:**  
We use an industry standard VPN to the control server - AES-256 encrypted.

### Heata host:

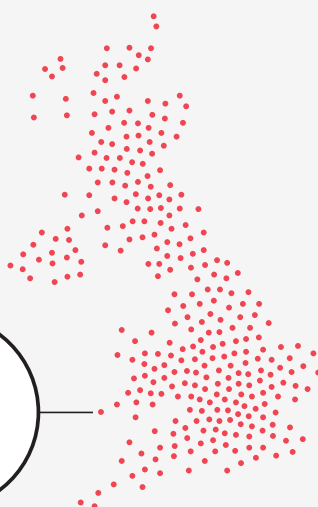
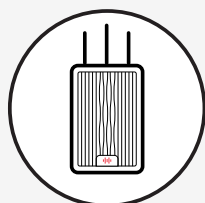
#### Is my data safe if heata is using my network?

- Yes:**
- Heata units are on a private subnet, isolated from your network.
  - All network traffic goes out through a VPN to the wider internet; your home network is completely inaccessible to compute workloads.

\* Host: householders who host the heata unit and benefit from the heat that is harnessed.

## A distributed network

- Not subject to space and power constraints of a typical data centre.
- Excellent redundancy and removes reliance on backup facilities.
- A ground-breaking target PUE of zero.\*



\* Power Usage Effectiveness: the ratio between energy delivered to a Data Centre and energy used for compute.

## Software

- Open-source VM / container orchestration.
- Our software identifies which units are available for work, their utilisation, and network connectivity.
- Capable of computing a wide variety of tasks from rendering, machine learning, to scientific computing.

