

# Diesel Heating System

Instant heat. Independent fuel. No grid connection.

Sunstar diesel air heater — Bluetooth app and remote control.

Air drawn from outside. Exhaust routed to muffler with heat recovery.

A Norwegian winter presents no obstacle.

The zome geometry already works in your favour — a sphere loses less heat per cubic metre than any rectangular building. The diesel heater exploits that advantage. A small unit, a small tank, and a short warm-up time. That is all you need.

Outside air intake

Diesel combustion

Hot air distributed

Exhaust to muffler

Heat recovery at toilet

Fuel from external tank



THE UNIT

## Sunstar Diesel Air Heater

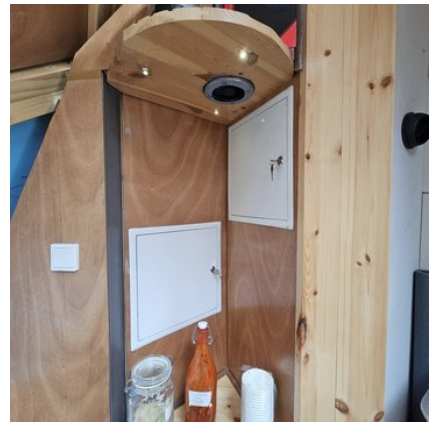
Compact diesel air heater housed in a dedicated insulated cabinet within the zome wall. Air intake drawn from outside — combustion gases never enter the living space.



THE CONTROL

## Remote + Bluetooth App

Digital controller with clock display mounted on the cabinet face. Remote control handset. Bluetooth app for temperature scheduling and monitoring. Main isolator switch included.



THE INTERIOR

## Cabinet and Kitchen Area

The heating cabinet integrates into the interior layout. Above it, a curved pine shelf creates kitchen storage. The warm cabinet face radiates gently into the living space.

## EXHAUST HEAT RECOVERY — AN ELEGANT INTEGRATION

The exhaust pipe runs beneath the separations toilet seat before exiting the structure. In cold conditions, this passively warms the toilet area — turning waste heat into comfort. No additional energy cost. A muffler reduces exhaust noise. The fuel tank sits outside the structure — no fumes, no risk, no odour inside.

## THE GEOMETRY ADVANTAGE

The spherical zome form loses less heat per cubic metre than any rectangular building. Less heat lost = less fuel burned = lower cost.

# System Specifications

|                    |                                                       |
|--------------------|-------------------------------------------------------|
| Heater type        | Diesel air heater — forced hot air                    |
| Brand / model      | Sunstar diesel air heater                             |
| Control            | Digital controller with clock display                 |
| Remote control     | Wireless remote handset included                      |
| App control        | Bluetooth app — temperature scheduling and monitoring |
| Main isolator      | Key switch on cabinet face                            |
| Air intake         | Outside air — combustion air drawn from exterior      |
| Exhaust routing    | Routed to muffler below toilet seat — heat recovery   |
| Exhaust noise      | Muffler fitted — significantly reduced                |
| Fuel tank          | External to structure — no fumes inside               |
| Fuel type          | Diesel                                                |
| Heat distribution  | Forced air — distributed into living space            |
| Cabinet            | Dedicated insulated wall cabinet                      |
| Cabinet face       | Radiates gently into interior                         |
| Integration        | Kitchen shelving built above heating cabinet          |
| Power requirement  | 24V DC — compatible with battery system               |
| Grid connection    | None required                                         |
| Winter performance | Rated for sub-zero operation                          |

## ON HEATING AND INDEPENDENCE

### Grid heating is one of the most price-exposed costs in a conventional home.

Gas, district heating, and electricity prices are set by markets, suppliers, and governments — none of which have your interests as their primary concern. When prices spike, you pay. You have no alternative.

The diesel heater breaks that dependency. You choose your fuel supplier. You control your tank level. The price is visible and comparable. There is no standing charge, no meter, no contract.

### The zome geometry means you need less of it.

A 5m² space with 40mm XPS insulation and spherical geometry loses heat at a fraction of the rate of a conventional rectangular building. The heater warm-up time is short. The fuel consumption is low.

The exhaust heat recovery adds a final layer of efficiency — heat that would otherwise be lost warms the toilet area passively, at zero additional cost.

Efficient by design. Independent by intent.

*A Norwegian winter presents no obstacle. The geometry does the rest.*