

HYPERION

www.hyperion.green

hyperion

**Hyperion
technical specificities**

Hyp 25

contact@hyperion.green

HYPERION

| Characteristics | Hyp 25 | | | | | |
|-----------------------------------|--|-----------------------------|--------------------|-------------------------|--|---------------|
| Measurements | | | | | | |
| Dimensions | 2640 cm x 2440 cm x 1099 cm | | | | | |
| Primary material | Stainless steel for alimentary standards (304L) | | | | | |
| Empty weight | 550 kg | | | | | |
| Total weight | 1 450 kg | | | | | |
| Floor space | 4 m ² | | | | | |
| Facility | Dedicated room, Datacenter, container, openspace... | | | | | |
| Manufacture | Assembled entirely in France | | | | | |
| Carbon balance of the tank | | | | | | |
| Part | Origin | Kg CO ₂ /Product | Estimated lifespan | Retained life span/year | Kg CO ₂ /year (selected lifespan) | Recyclability |
| Stainless steel | France | 1595 | Lifelong | 30 | 53 | 100% |
| Heat exchanger | Asia | 117 | Lifelong | 30 | 4 | 100% |
| Insulating material | France | 14 | Lifelong | 30 | 0 | N.D. |
| Aerotherm | Italy | 550 | 20 years | 20 | 28 | 100% |
| Pump | France | 350 | 10 years | 10 | 35 | N.D. |
| Engine | China | 450 | 15 years | 15 | 30 | N.D. |
| Oil | Switzerland | 7280 | Lifelong | 30 | 243 | 100% |
| Overall emissions | | 10 356 | | | | |
| Source | Manufacturers, ADEME database and IBO (Austria) database | | | | | |

HYPERION

Servers

Hyperion enables the immersion of **any computer architecture** for HPC, VDI, including shared or distributed storage attachments of HCI type (VSAN, Proxmox...)

Servers require a **specific preparation by the manufacturers** who provide and guarantee units **suitable for immersion**

Servers size

19 " - 21"

Energy Consumption

Required power

24 kW

Revalorization of waste energy

Optional

PUE (Power Usage Effectiveness)

< 1,1

Theoretical energy recovery

Up to 95% of the immersed parts energy

Post-energy recovery PUE

0,2

Fluid

Oil

100% biodegradable synthetic oil

Oil temperature stabilization range with servers

15 °C up to 60 °C

Oil temperature stabilization range using outside air

-15 °C up to + 45 °C

Oil flow rate range

0.5 to 2m3/ H

Supervision

Supervision tool

PRTG portal

Temperature and electricity sensors

On the whole loop, from servers to the recovery

Alarm levels

Customizable depending on the environment

Emergency call

24/7

Security

Air conditioning system

Unnecessary

Fire system

**Pumps equipment
backup**

Optionnal

Other information

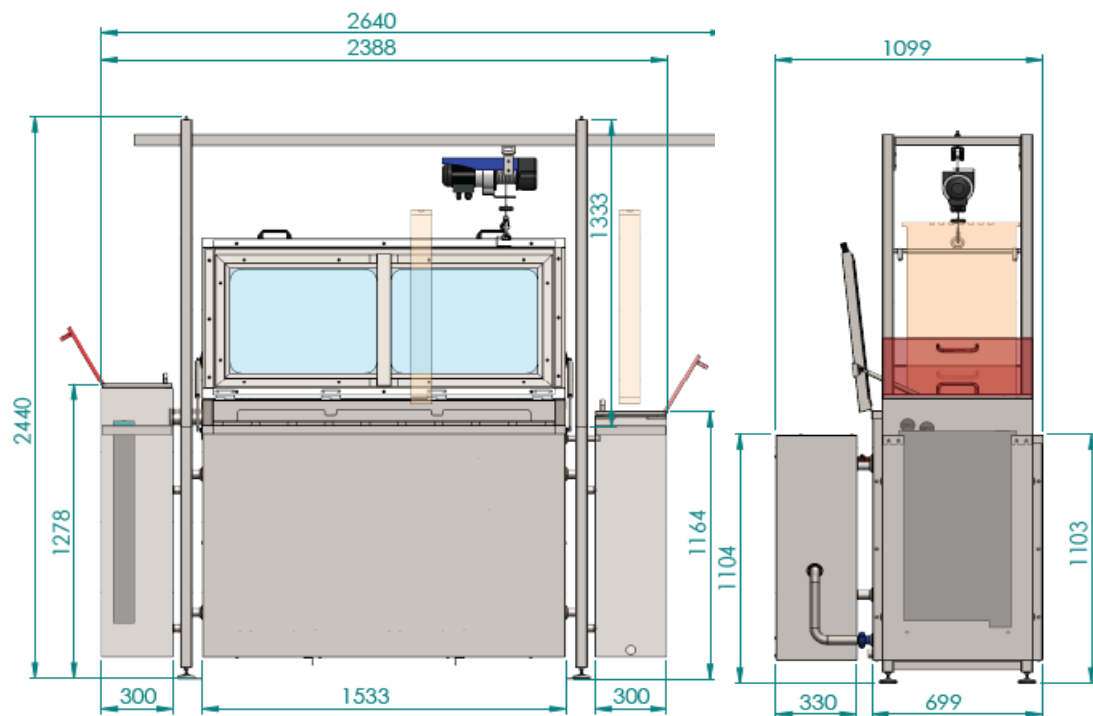
**Waste energy recovery
efficiency**

Approved by an independent lab (Pôle Cristal)

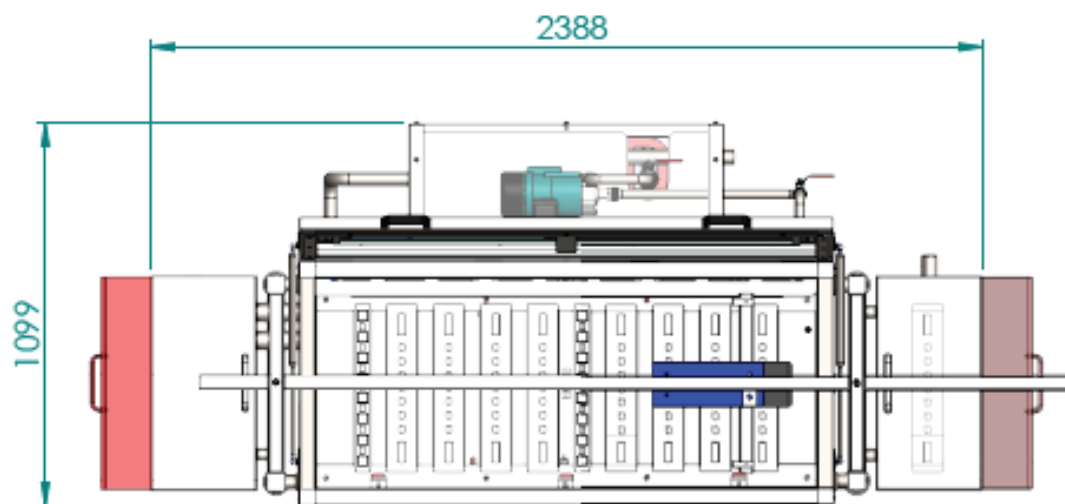
**Equipment for an
installation on a raised
floor**

Yes as an option (Datacenter room)

Dimensions Hyp 25



Dimensions de la cuve



Système d'évacuation de l'huile