Open Compute Projekt Modular Wooden Data Center (OCPMWDC)
4 - 12 m
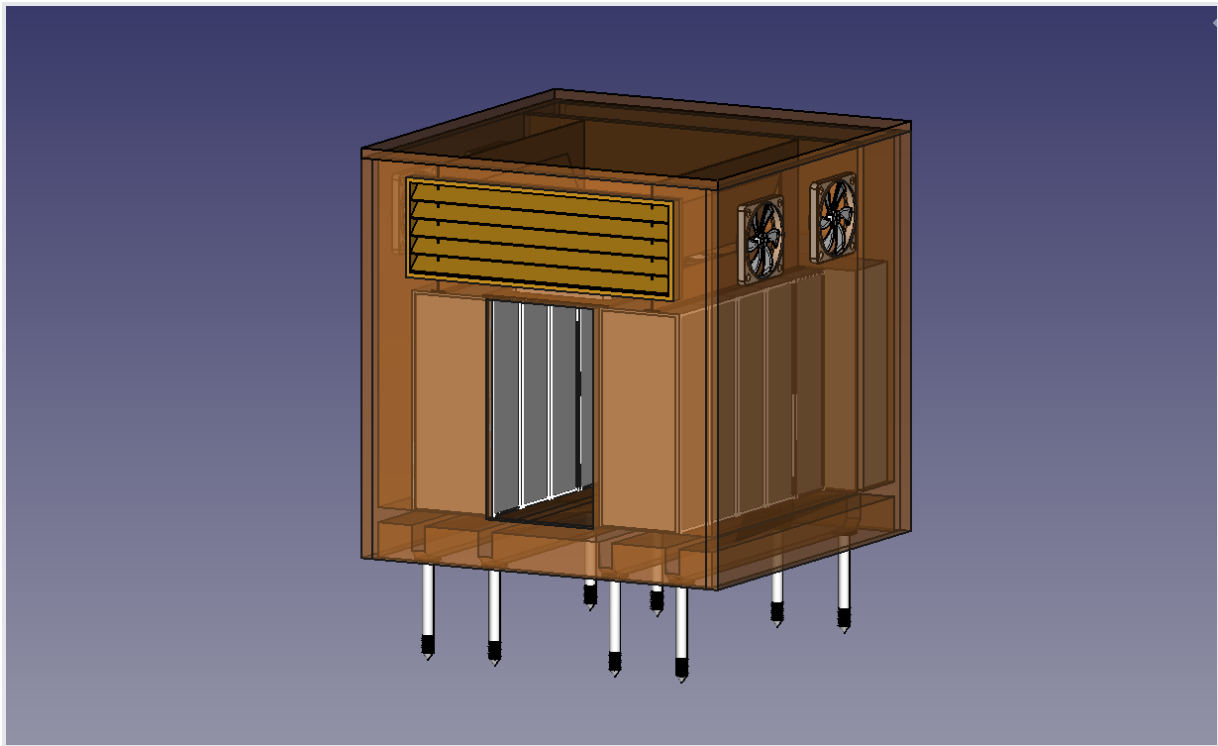
Wooden data center modules with upto 34 OCP Racks.

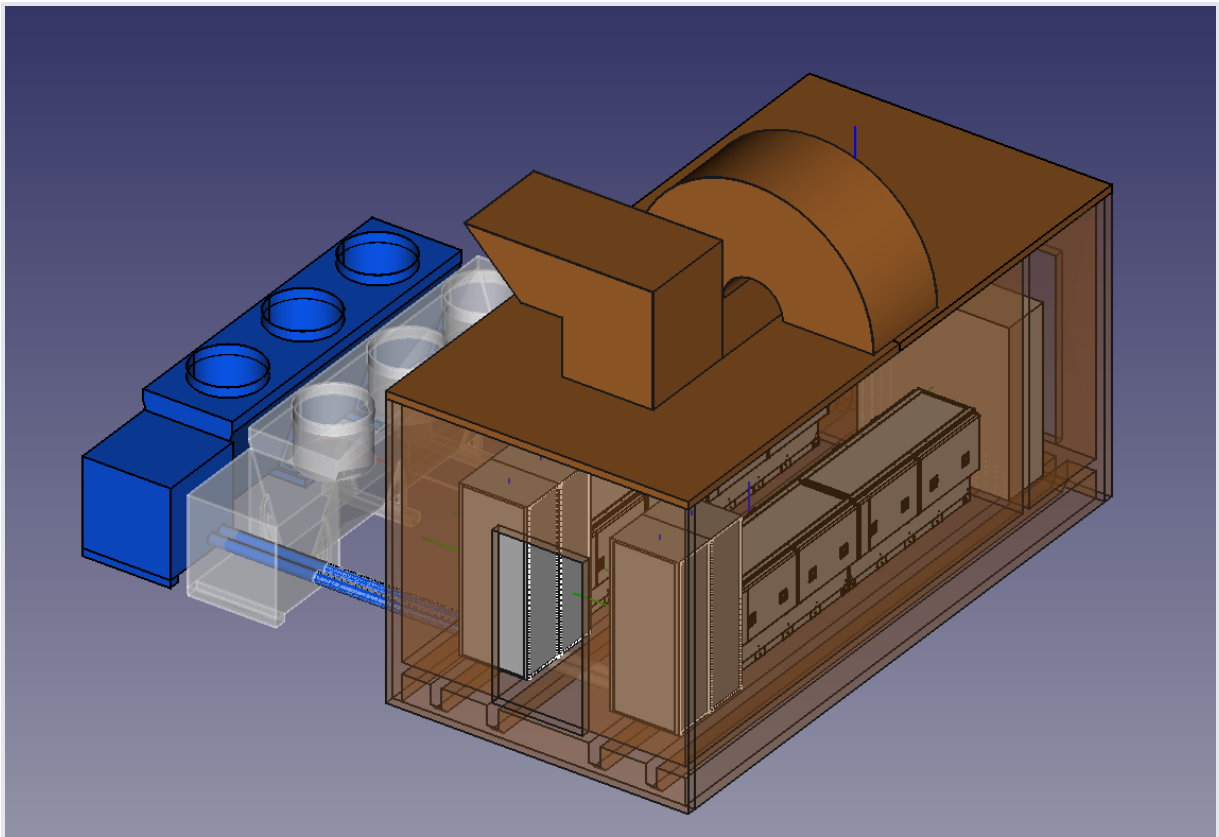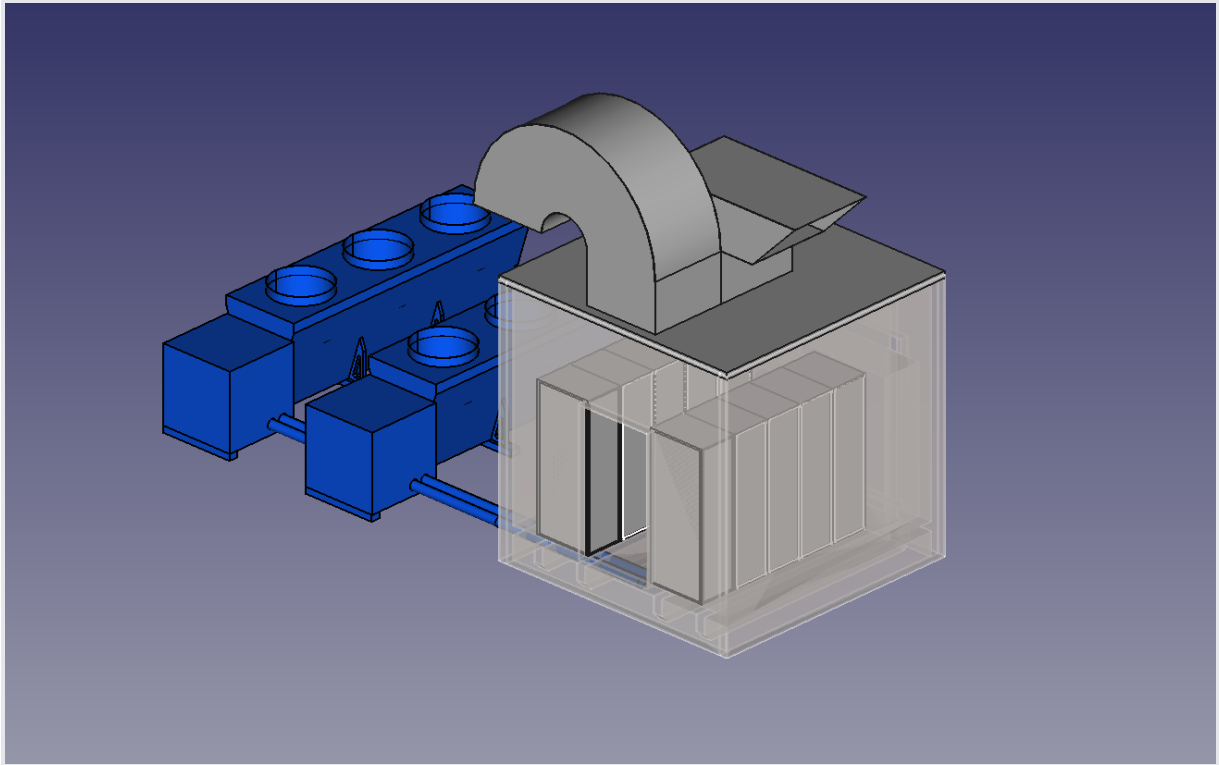| Description	specification	commentary
IT-load	4m: 150 KW 8m: 330 KW 12m: 510 KW	direct free Cooling
Number of Racks	4m: 10 8m: 22 12m: 34	for OCP V2&V3 ready
Average Load (kW/Rack)	15	
Maximum Load (kW/Rack)	22	
Operational temperature	-10 to 40 degree celsius	
Module dimensions LxWxH	4 m x 4 m x 4m 8 m x 4 m x 4m 12 m x 4 m x 4m	
Module load	circa. 4 ton, 6ton , 8ton	depending on configuration

Energy	
Input power voltage	400 V, 3 Phasen, 50 Hz
Totale IT-load	upto 510 KW (34 Rack with 16 kW per rack)
Output voltage to Rack	400 V, 3 Phasen 50Hz
Main Distribution	Distribution panel 350 A - 1600 A, 400 V
Rack Distribution	Direct connect to OCP Rack PSU
UPS	with the OCP Rack upto 90 sec
Genset	Optional
climate control	
Type, quantity (N+1)	Free cooling (Ventilation)
cooling capacity	150 -510 kW
Internal operational temperature	18 - 38 degree celsius
Racks	
Rack number	10 - 34 OCP Racks
Middle- / backrow	1200 mm / 400 mm
physical structure	
Structure	wooden CLT with Steel reinforcements
length	4000 mm, 8000 mm, 12000 mm
width	4000 mm
height	4000 mm (5350 mm with cooling)
weight	depending on configuration: between 4 - 8 tons
Shipping	Fits in 40" container
environment	
operational	-10 to 40 degrees Celsius

temperature	
Windlast & Belastung	depends on site location
Fundations	Small concrete pads
Options:	
Immersion Cooling Tanks	Asperitas, Submer, Kaori (separate Module)
Liquid Cooling	Blockheating, Cloud&Heat
Free Cooling Option	Adiabatic Cooling
Heat reuse	optional with Immersion and Liquid cooling
Robotic Maintenance	optional with Rack based Systems (soon)
Oxygen reduction	Wagner
Indirect free cooling	with Rack based Systems

Cutview through Module

OCPMWDC4m "Woody" Aircooled

TOP: OCPMWDC4m "Woody" Liquid cooled
Bottom: OCPMWDC8m "Woodpecker Immersion cooled