

**TELEHOUSE**

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Telehouse 3 Campus

IA READY NEW MODULE

Opening Q4 2025



AI Ready module - Basis of Design

- Data Hall gross area: 130 sqm
- Admissible load: 2T/ sqm
- Max number of racks: 13 x 3 → 39
- Tier III design standards (no certification)
- $1,1 \leq PUE < 1,2$
- IT Power: 2MW
- Max rack power in single feed: 130kW
- Overhead bus way power distribution
- Cooling method:
DLC – Direct-to-chip (D2C)
- For more flexibility we designed the cooling system to support:
 - UPTO 1 800 kW IT in DLC
 - UPTO 400 kW IT in Air Cooling
- Extreme Annual Design Conditions:
45°C (Outdoor Air Temperature) – ASHRAE
- (n=50) + 3°C (WS: Toussus-le-Noble)
- Data Hall environmental conditions:
 - $18^{\circ}\text{C} < T^{\circ}\text{C} < 27^{\circ}\text{C}$
 - $20\% < \text{RH}\% < 80\%$
- Hydronics piping distribution within the raised floor



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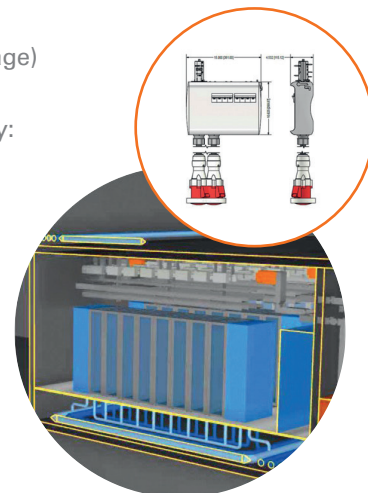
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Mechanical SLD/Features

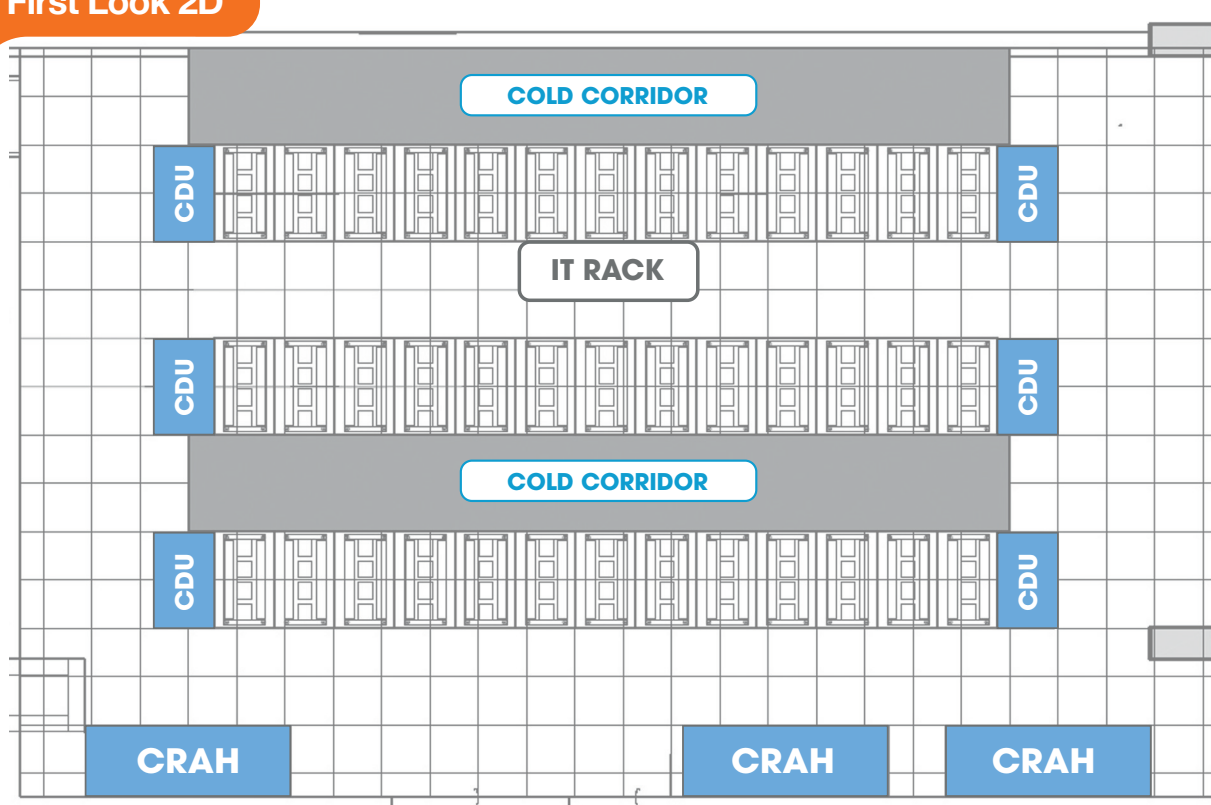
- Chillers redundancy: N+1
- Chilled water temperature: 20°C/30°C
- Pumps redundancy: 2N
- CRAH redundancy (for AC): N+1
- CDU (Cooling Distribution Unit) specs:
 - Capacity: CDU will be designed according to customer specifications
 - For example 450kW/900kW/1300kW
 - L2L (Liquid-to-Liquid) Heat Exchanger
 - Redundancy : 2N
 - 25µ (microns) filtration
 - Original Equipment Manufacturer preferred: Vertiv/Stulz/SE/FLAKT (could be discussed and agreed with end user)

Electrical SLD/Features

- Power distribution from MV (Medium Voltage) to LV (Low Voltage): 2N
- UPS batteries autonomy: 5min (End of Life)
- Overhead busway power distribution:
- TAPOFF box selection: 2x 50A 4P (see picture) (depends on the number of Rack Power Distribution Unit/ rDPU)



First Look 2D



*CDU : Cooling Distribution Unit *CRAH: Computer Room Air Handler

