

## Global Cloud Data Center (IT3) - DC-B

CUSTOMIZED DATA CENTER SOLUTIONS JUST OUTSIDE MILAN

### General

- Total surface area: 17.110 m<sup>2</sup>
- Data hall surface area: 4.950 m<sup>2</sup>
- Number of independent data rooms: 3
  - ✓ Secure location in terms of earthquakes
  - ✓ Secure location in terms of hydro-geological risks

### Structure

- Height of the data hall: 3.8 m
- Height of upper plenum: 2.05 m
- Height of lower plenum: 1.95 m
- Load of the floating floor: 2.000kg/m<sup>2</sup> (distributed load) - 1.000 kg/m<sup>2</sup> (concentrated load in one place)
- External firewalls: REI 240
- Internal firewalls: REI 120
  - ✓ Double insulation
  - ✓ Double loading bay

### Certification and compliance

- ✓ ANSI/TIA 942-B-2017 Rating 4 (formerly Tier 4)
- ✓ GO - Guarantee of Energy Origin (100% renewable)
- ✓ ISO 9001 - Quality of services offered
- ✓ ISO 14001 - Environmental management system
- ✓ ISO 27001 - IT security
- ✓ ISO 50001 - Energy management system
- ✓ ISO/IEC 27017 - Cloud security controls
- ✓ ISO/IEC 27018 - Managing personal data on the Cloud
- ✓ ISO/IEC 27035 - Managing security incidents and events

### Services

- Colocation solutions: rack portions; dedicated racks; cage; dedicated rooms
- Power per rack: up to 40kW
- IT power individual room: 3 MW (powered by 3 redundant modules)
  - ✓ 24h Smart hands
  - ✓ 24h Remote hands&eyes
  - ✓ Shared warehouses, or dedicated to individual clients
  - ✓ Shared offices, or dedicated to individual clients

### Connectivity

- Point of entrance: 4
- Entrance Room: 2
- Main Distribution Area (MDA): 2
  - ✓ Carrier neutral data center
  - ✓ Provision of managed connectivity

### Energy

- Connection points to utilities: 1
- Total power: 9 MW IT 2N (redundant)
- UPS redundancy: 2N+1
- UPS type: double conversion static
- Individual UPS power: 500kVA
- UPS run time: 15 minutes at full power on single module in emergency conditions - 40 minutes in standard conditions
- Generator redundancy: 2N
- Generator type: diesel generator units
- Full load run time: 26h in emergency conditions, 52h in standard conditions

### Cooling

- Cooling type: Chilled water - - water to water - water to air system
- Normal mode: Geothermal system
- Redundancy of heat exchangers: 2N
- Groundwater extraction wells: 5
- Emergency mode: air/water chiller
- CRAH redundancy: 2N

### Security

- ✓ CCTV
- ✓ 24/7/365 security
- ✓ Separate parking for employees/visitors
- ✓ Vehicle bollards
- ✓ Separate entrance gates for visitors/goods
- ✓ Mantrap for visitors and goods with anti-tailgating and anti-piggybacking systems
- ✓ Network Operations Center (NOC)
- ✓ Security Operations Center (SOC)
- ✓ Facility Operations Center (FOC)
- ✓ Building Management System (BMS)

### Fire prevention

- Air replacement: 2vol/h
- Extinguishing system: inert gas
- Extinguishing gas: IG-541
- Redundancy of extinguishing cylinders: 2N
  - ✓ Highly sensitive smoke detection system
  - ✓ Liquid loss detection system
  - ✓ Fire detection and extinguishing system in each single module
  - ✓ Standalone system on every generator unit



