

## IPHH FACTSHEET

# IPHH DATACENTER HH2/R1



Cold aisle containment is a state-of-the-art solution for energy efficiency and cold air distribution.



Resilient IPv6-enabled backbone with connections to hundreds of network operators at seven Internet Exchange Points.

### > MAINS POWER

- 1.2 MVA supply via redundant underground 10kV grid
- Mains feed to 10 kV/400 V transformer station

### > GENERATORS

- 1 (2 during maintenance) x 800 kVA (ultimate 1.2 MVA) power generators
- Automated start in 15 seconds to feed 100% of the facility
- Generator tested monthly under lifelike conditions
- Fuel storage sufficient for 24 hours continuous operation at 100% load
- 24 x 7 SLA with local fuel supplier

### > UPS/POWER

- 2x (ultimately 3) UPS modules providing N+1 redundancy
- 12 minutes of battery autonomy per UPS module
- Redundant A+B power distribution
- Single-circuit rack metering for billing and monitoring

### > PHYSICAL

- Height 3300 mm from top of raised floor
- 500 mm raised floor (only power cables within raised floor space)
- Raised floor loading 12 kN/m
- Structural floor slab 15 kN/m

### > ENVIRONMENT

- 2000 W/m<sup>2</sup> average cooling capability
- N+1 air conditioning system with 100% free-cooling capability
- Exceptional air conditioning emergency procedures
- Temperature regulated to below 22° C (inside cold aisles) and 24° C return air flow (warm area)
- Overall humidity regulated to 50% RH +- 20%
- Cold aisle containment for optimized air-flow

### > FIRE STRATEGY

- Use of non-flammable and low smoke/zero halogen materials
- No storage within technical areas
- F90 sealed fire compartments
- VESDA - Very Early Smoke Detection (VdS approved)
- Smoke detectors on ceiling and inside raised floor
- Nitrogen Inert Gas Fire Extinguishing System
- Direct line to fire department, key-safes and premises maps readily available
- Fire protection certificate



Ventilated customer racks (rear) with separate fiber and copper cable trays above. Central MMR/ODF racks (front).

#### > MONITORING

- Full network monitoring incl. packet round-trip times, packet loss, routing protocol neighbor relationships, bandwidth usage etc.
- Infrastructure monitoring (e.g. generator status, power meters, air-conditioning, CCTV status, intruder detection system, temperature inside and outside cold-aisles, raised-floor water detection system etc.)

#### > TELECOMS INFRASTRUCTURE

- Facility suitable for racks/cabinets of up to 2200 mm in height
- Power distributed within raised floor. Fiber and copper cabling distributed overhead, each in separate cable trays
- Diverse redundant fiber entry points to the building

#### > REMOTE HANDS AVAILABILITY

- Remote hands available 8 x 5 during business hours (15 minutes response time max.) or 24 x 7 (depending on SLA, 1 hour response time max.)
- Linux- and Cisco Systems-certified staff available 24 x 7

#### > GENERAL FACILITIES

- Restrooms available for datacenter customers
- Equipment delivery/ pick-up Mon to Fri 09:00 - 18:00 local Hamburg time
- Warehouse for temporary storage
- Certified to ISO 27001:2013 for all IPHH facilities



Certified electricity meters per customer and circuit for monitoring and billing purposes.