



## Data centres for today and tomorrow

**An increasing number of ICT service providers (and their customers) are housing their IT infrastructures in data centres. An excellent idea, in theory. However, the majority of existing data centres are overcrowded and outdated. In addition, they usually consume an extremely high level of energy. Previder offers a solution, with data centres that meet the needs of the world today and tomorrow: spacious, ultra-modern and energy-efficient.**

Previder offers a wide range of ICT and data centre services. These 'virtual services' are provided in high tech data centres. Like PDC2 in Hengelo: a huge complex with four large data rooms, an abundance of office space equipped with ICT facilities (to be used temporarily or as a disaster recovery centre) and spacious fully-equipped meeting facilities.

### **Extremely high level of reliability**

PDC2 provides an extremely high level of reliability. Its electricity supply and cooling systems are of the latest generation and the data centre is certified in accordance with ISO 27001. The location is linked to the outside world via several fibre optic connections. Furthermore, PDC2 is connected to the Amsterdam Internet Exchange (AMS-IX), the largest and most important internet exchange point in the world. This network handles a significant proportion of the internet traffic exchanged with other countries and the data traffic between Dutch internet providers.

### You decide which provider you want

PDC2 is the largest 'carrier-neutral' data centre in the east of the Netherlands. All main telecom providers are represented here, and several internet exchanges are present for the exchange of data traffic. You are completely free in your choice of provider.

### Maximum up-time guaranteed

All crucial systems in PDC2, such as the electricity supply, emergency power supply, air conditioning and network connections, have minimum redundancy and are therefore duplicated in accordance with the so-called N+1 principle. Should one of the systems fail, a second system will seamlessly take over its tasks. Some systems even have double redundancy (N+2).

### Efficient use of energy

PDC2 uses advanced technology that keeps energy loss to a minimum. Around only 25% of the energy is used for supporting systems. This makes the data centre one of the greenest in the Netherlands.

#### Facts & figures

- ✈ Future-proof 6 MW power supply
- ✈ Completely separate A & B paths per room (N+1).
- ✈ Electricity supply with primary and secondary feeds that each have their own UPS units; failure of a component will have no consequences for the electricity supply.
- ✈ Emergency power supply (N+1) provided by diesel generators, with fuel for 48 hours and, if needed, fuel delivery 24/7.

### Economical cooling

The cooling system installed in PDC2 requires significantly less energy than the 50% of total energy consumption usually used by traditional data centres. Use is made of free-to-air cooling, which uses cold outside air for cooling purposes and the air conditioning is only used when strictly necessary. As a result, very little energy is used. 'Cold corridors' ensure that only the aisles are cooled rather than the entire room. And as the climate in the data centre is maintained at 25° C with a humidity level of 45-55%, this reduces the intensity of the cooling required when compared to traditional data centres.



### Sophisticated fire prevention

PDC2 uses a three-step fire detection system to prevent fires. This ensures that smoke and heat in any room or under the raised floors of the data centre will be detected and eliminated in time. Environmentally-friendly gas extinguishing systems will be used to extinguish any fires in the rooms.

### Physical security

A team of specialists in the Network Operating Center (NOC) has a complete overview of all activities in and around the data centre. Critical parameters and reports of system performance and building data are monitored 24/7. Users can report to the NOC at any time to obtain physical access to their systems. Extensive access control, an intrusion detection alarm, CCTV cameras and electric sliding gates for incoming and outgoing vehicles prevent unauthorised access.

### Would you like to know more?

Would you like to know what Previder's data centres can offer you and your organisation? Please contact us for a no-obligation consultation. Naturally, we will be happy to visit you. Alternatively, we can make an appointment for you to visit us at one of our locations. You will then be able to see the significant advantages we can offer you with your very own eyes.

#### Previder bv

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