Micro & Nano Data Centre

Overview

Nano Data Centre

Inspired by the larger Micro Data Centre, the Nano DC is a smaller stand-alone solution incorporating all the key components of a Data Centre in a specified housing. The rack, cable management, cooling, UPS, er, monitoring and fire protection can be integra standard in the STULZ Nano DC.

Key Facts

- Two depths: 1,000mm & 1,200mm
- Two widths: 600mm & 800mm
- Three heights: 24U / 42U / 48U
- Sealed Rack
- Tinted perspex front door
- Split solid rear doors
- Solid Panel to hide A/C unit
- Removable side panels
- 19" Rack Rails
- PDU Brackets
- Cabling grommets
- Black Powder Coated
- 6kW DX A/C unit
- 2 off EC fans in internal unit
- 1 off EC fan in condensing unit
- R410A Refrigerant
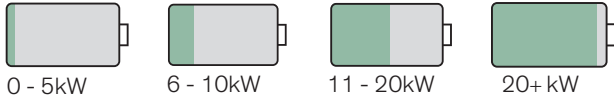- Optional Touch-screen controller

Options

Much the like the Micro Data Centre the Nano DC is offered with a host of options such as:

- Fire Detection & Suppression
- Rack PDU's
- UPS
- Environmental Monitoring
- CCTV
- Biometric Door Access
- LED Lighting
- Client Logo / Wraps

Micro Data Centre

The STULZ-TI Micro Data Centre is an all-in-one solution that incorporates the rack, cable management, cooling, UPS, power, environmental monitoring and fire suppression into one unit.

Power Levels

| 0 - 5kW | 6 - 10kW | 11 - 20kW | 20+ kW |

Rack Dimensions

The rack is available in two heights, 40U, 42U, 45U and 48U. Both heights offer three rack widths, 400mm, 600mm and 800mm. 400mm is designed to house a STULZ cooling unit. The 600mm rack is a standard Data Centre rack and the 800mm rack chassis is designed for networking and high density applications.

Scalability

The STULZ-TI Micro Data Centre is designed to be scalable. The premise is that you can purchase a single rack and cooling system and scale it out over time as budget or requirement allows. From Day 2 you may wish to add secondary cooling unit for resilience or a 800mm rack for networking. With the STULZ-TI Micro DC this is easy, simply remove the side panel and bolt in your next chassis.

1-rack configurations   **multi-rack configurations**

Benefits

- Conventional hardware options
- Two height options
- Three width options
- IP55 Rated
- Scalable

- Airflow and cooling efficient
- Castor wheels for easy movement
- Very High Density Applications
   (100kW+ per rack)

+ Benefits

What are the benefits of the STULZ-TI Nano and Micro Data Centre's?

- Accelerated Deployment: Deploy rack-level infrastructure quickly and efficiently

- Lower CAPEX: Significant lower initial investment and construction cost compared to classical Data Centres. Can be up to 60-70% less

- Existing Environment: Does not require a conditioned room or raised floor

- Increased Energy Efficiency: Dramatically lower your cooling and power requirement - lower OPEX costs

- Significant Energy Savings: You don't need to cool the entire IT room, just cool the Micro DC. Greener IT solutions

- Customisable: Can be customised according to your cooling and power requirements

- Modular: Additional Micro DC units can be added according to the growth of your IT requirements. Pay-As-You-Grow!

- Portable: Micro DC includes heavy duty caster wheels making it easy to install and for it to be moved to different location at a later date

- Heat Rejection: Does not heat the environment it operates in, heat is removed by the condenser externally

- Security: Keeps mission critical data in a secure environment, increases data and hardware protection and guarantees 24/7 business continuity via integrated fire suppression and EMS systems

- In - House: Don't outsource your Data Centre needs to someone else. Keep your data securely in house

- Facility Maintenance: The ability to minimise IT infrastructure maintenance to lower overall Data Centre maintenance labour costs

- Limited Operation Risk: The complete system arrives factory tested and ready to install - Plug and Play!

- Standardisation: Standard solution in all your branch offices limits risks of human failure and lowers operating and maintenance costs

- No need for skilled IT personnel: You don't need to maintain IT personnel in every location. Micro DC's can be controlled remotely from your Head Quarters

- Affordable: No need to worry about complex Data Centre design and installation work

- High Performance: High Performance Compute in a small footprint - 100kW+ in a single rack

- Small Footprint: No need to worry if space is at a premium. The STULZ-TI Micro DC is small enough to fit anywhere

- Build Quality: Premium build quality allows for an IP55 rated enclosure sure to protect against environmental concerns

- Diverse Options list: Vendor agnostic and able to offer a broad range of accessories and components, the STULZ-TI Nano and Micro Data Centres can accommodate many different configurations

- External Applications: Both the Nano and Micro DC are available with IP66 and IP67 external enclosures for external applications

- Bespoke: Want your logo on your DC or a custom paint scheme? STULZ-TI can provide tailored solutions to your requirement

- STULZ Support: Operate your Nano DC or Micro DC in the knowledge you have STULZ Support Worldwide

Applications

	Server Room Construction	Nano & Micro Data Centre
Initial Costs	High	Low
Construction Time	Long	Short
Flexibility	Low	High
Cooling Efficiency	Low	High
Scalability	Low	High

Applications

- Small and Medium size enterprises
- Branch offices of financial institutions (Banks, Insurance companies, Retail etc.)
- Instant Data Centre
- Branch offices of government institutions and utilities (Police, Military, Healthcare, Schools, Utility Companies etc.)
- Smart Cities
- High Performance Computing
- Exchange offices and Telecom Hubs, GSM companies
- Remote locations where there is no dedicated IT personnel available
- Manufacturing companies for automation control and IT services
- Disaster Recovery
- Race Team track side solutions
- Rental and Hire

Source of supply

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You can find out more
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