

- Makkeen MicroDC is an all-in-one **Server Room-in-a-Box**, featuring complete mission critical server room infrastructure.
- The unit's modest cost is offset by its reliable performance, specifications and operational savings of 30%
- Its cooling function is supported by ATS and UPS, ensuring the unit will continue to be chilled in the event of a power outage. In addition, the unit is IP55 protected, therefore dust and water jet proof. It features secure biometric thumb scan mechanism security access, and an active fire suppression system with optical and smoke sensors. In addition, it is equipped with environmental monitoring capability featuring an SMS alert system.



## SPEED

Deployment speed increases up to **83%**



## SAVINGS

Deployment cost savings of up to **43%**



## EFFICIENCY

Operational cost reduction of **30%**



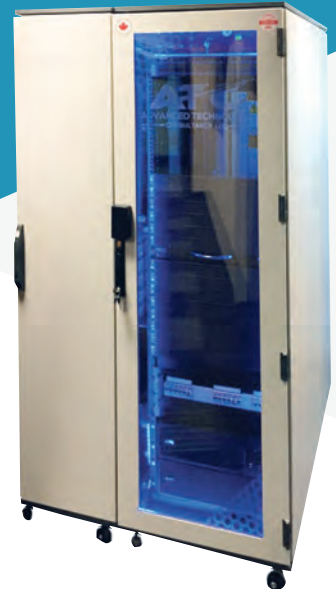
## PHYSICAL SECURITY



<b>Makkeen Micro DC I</b>	<b>37 U</b>	<b>200 cm</b>	<b>4 KW</b>
<b>Makkeen Micro DC II</b>	<b>42 U</b>	<b>220 cm</b>	<b>5 KW</b>

## Customize your own solution

- Self-contained IP55 isolated cabinet.
- UPS for devices and cooling unit, with server auto shutdown capability and battery backup time of 5 minutes.
- Uptime institute Tier I or Tier II standard breaker system.
- DX ducted precision cooling system with in room circulation without outside split unit, with ATS and UPS power to ensure sufficient cooling to shutdown.
- Biometric thumb scan mechanism security access.
- Active fire suppression clean Agent-Novec 1230 system with optical and smoke sensors.
- KVM switch & TFT Monitor with keyboard and mouse.
- Remote environmental monitoring capability with SMS alert system.



First Digit: Solid Particle Protection		Second Digit: Liquid Ingress Protection	
Level Sized	Effective Against	Level Sized	Effective Against
1	Large surfaces	1	Dripping water
2	Fingers or similar objects	2	Dripping water when tilted at 15°
3	Tools, thick wires, etc.	3	Spraying water
4	Most wires, slender screws, large ants etc.	4	Splashing of water
5	Dust protected	5	Water jets
6	Dust tight	6	Powerful water jets
		7	Immersion, up to 1 m depth
		8	Immersion, 1 m or more depth
		9	Powerful high temperature water jets



	UP TIME	REDUNDANCY	SOURCE	POWER SOURCE	CONCURRENT MAINTENANCE	FAULT TOLERANCE
<b>Tier 4</b> 0.4 Hours	99.995%	Power, Cooling, Hardware, and Fault Tolerance	System + System	2 + 2 Genset	Yes	Yes
<b>Tier 3</b> 1.6 Hours	99.982%	Power, Cooling & Hardware	System	1+ Genset	Yes	No
<b>Tier 2</b> 22 Hours	99.749%	Power & Cooling	System	1	No	No
<b>Tier 1</b> 28.8 Hours	99.671%	N/A	System	1	No	No



**LET'S  
TALK**

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