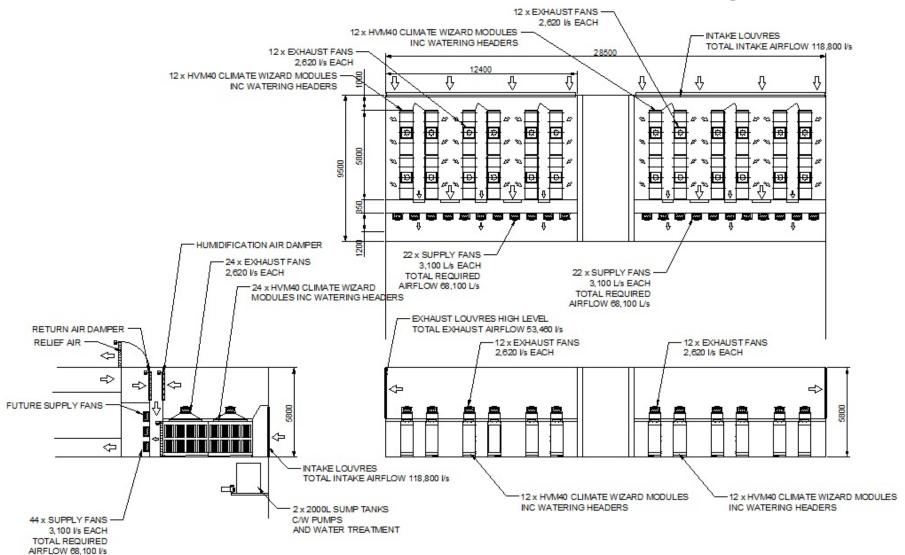
Data Centre Design Criteria

- 1 MW of heat load
- 68.1 m³/s of airflow
- Tier 4 classification (2N)
- ASHRAE Class A1 supply air condition
 - 15°C to 30.2°C
- Air filtration
- Johannesburg design conditions of 36°C
 DB / 18°C WB





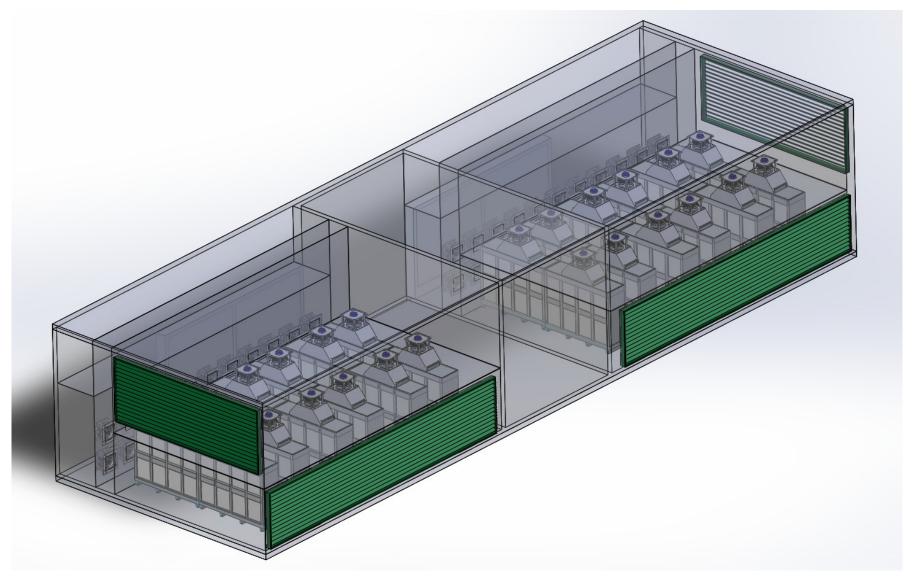
Climate Wizard Plant Layout







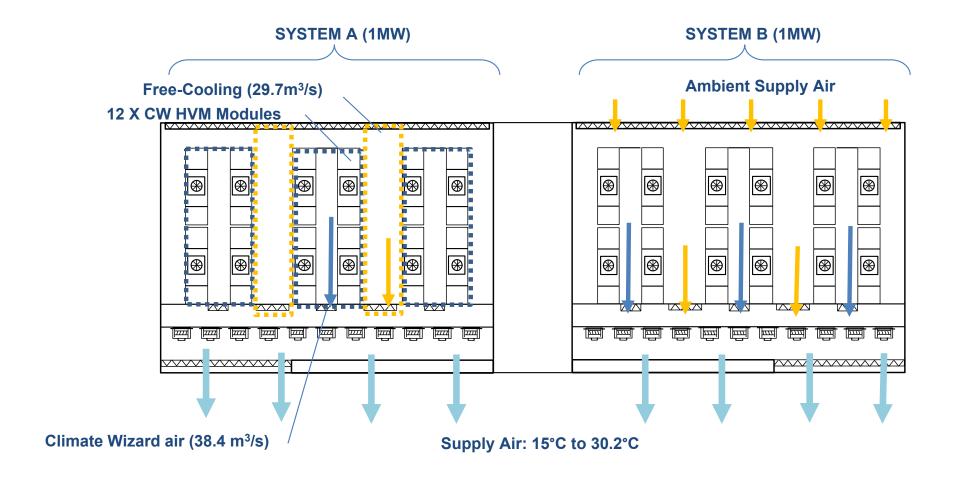
Climate Wizard 3D Representation







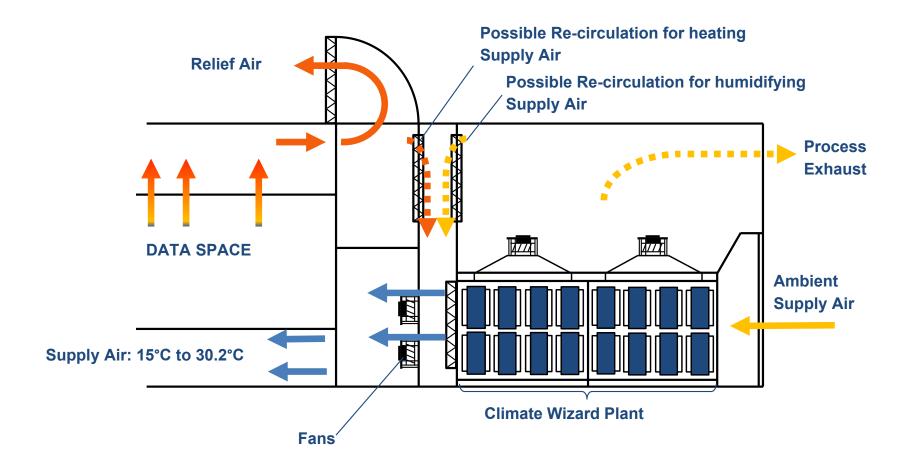
Climate Wizard Air Flow







Climate Wizard Air Flow







Climate Wizard Performance

- Climate Wizard supply air of 17°C
- Climate Wizard/outside air mixed temperature of 25.2°C at design conditions
- Estimated fan input power of 30kW
- COP of 33





Climate Wizard Energy Saving

Annual cooling requirement = 6,832,800 kWh

Chiller annual input (COP 2.9) = 2,356,140 kWh

Climate Wizard annual input = 245,500 kWh

Energy Savings = 2,110,640 kWh

Climate Wizard annual COP of 27.8

Climate Wizard annual pPUE of 1.05





Climate Wizard Key Features

- Energy efficient
 - 10x more efficient than refrigerated
- Flexible design
 - Utilise outside air free cooling when ambient temperature permits
 - Utilise humid Climate Wizard exhaust air to add moisture during dry conditions
 - Utilise return air from data centre to add reheat







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