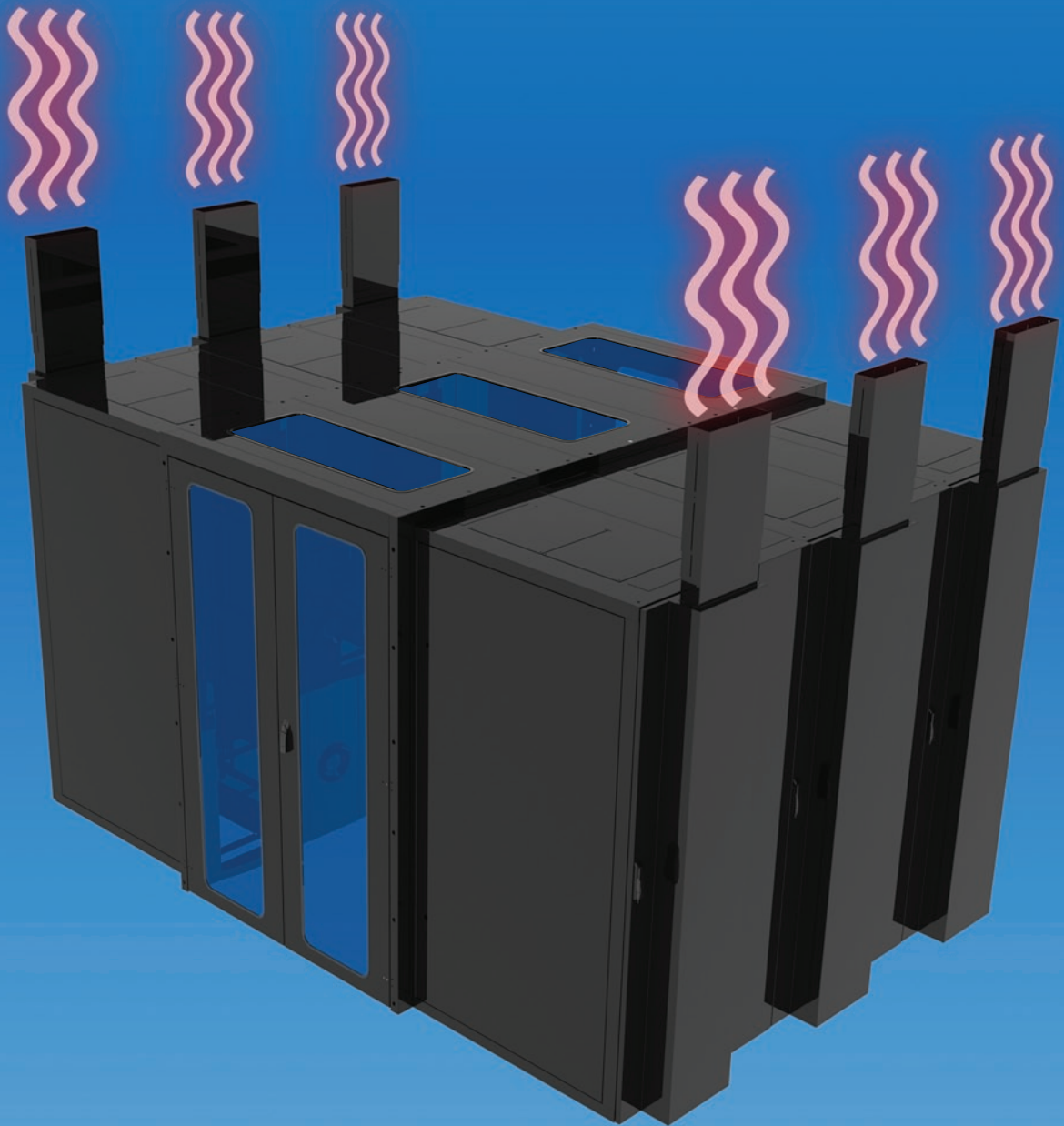




It's time to think **inside** the box.

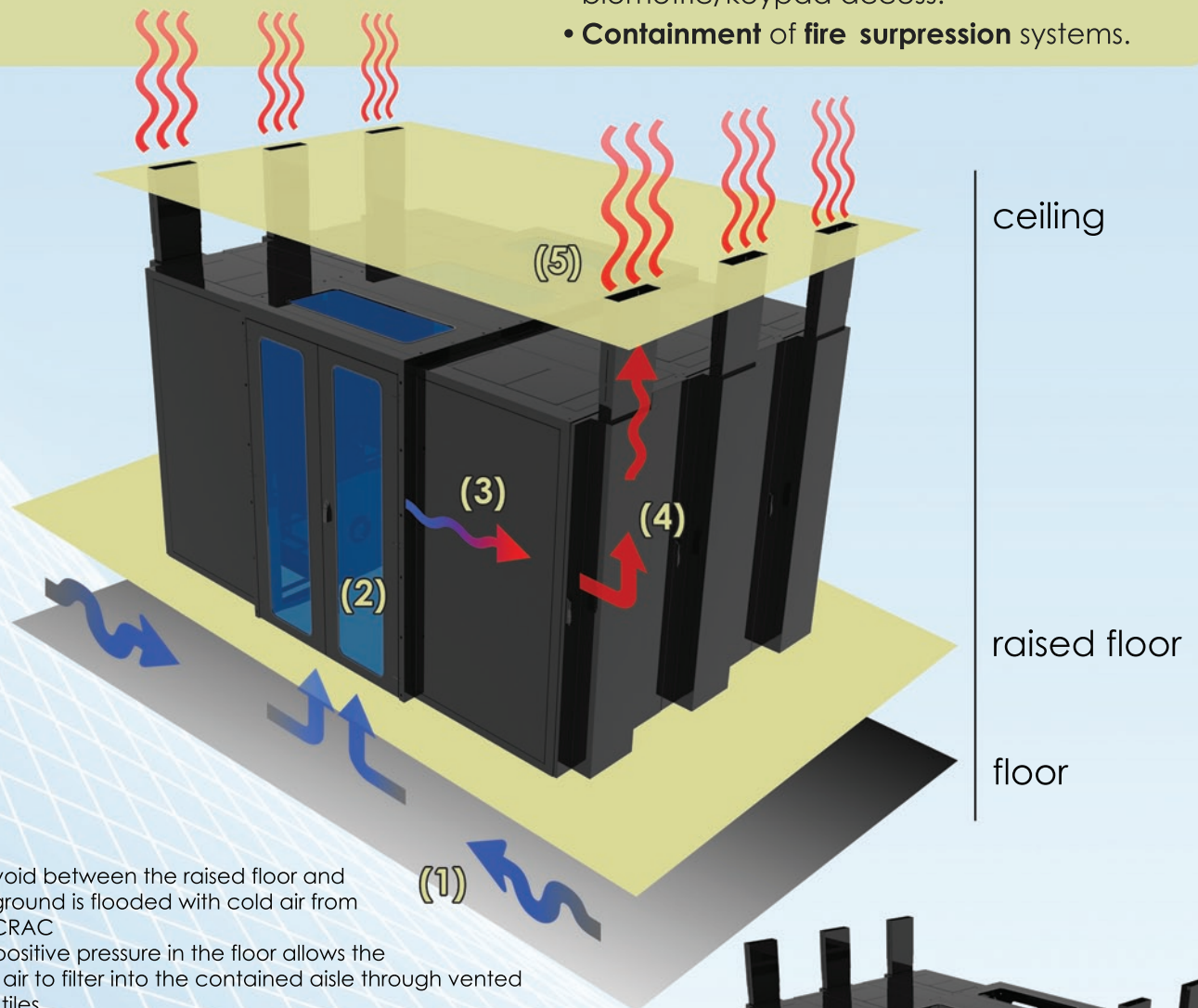


# SmartRAC

COLD AISLE CONTAINMENT

By separating the hot and cold air in a data centre, the SmartRac Cold Aisle Containment solution ensures:

- Increased cooling **efficiency**
- Improved **space** utilization
- Lower **air flow** requirements - extending the life of the CRAC.
- **Elimination** of **hot spots** within the aisles.
- No requirement for additional lighting due to **aisle windows**.
- Enhanced **security** with optional biometric/keypad access.
- **Containment** of **fire suppression** systems.



- (1) The void between the raised floor and the ground is flooded with cold air from the CRAC
- (2) The positive pressure in the floor allows the cold air to filter into the contained aisle through vented floor tiles
- (3) This cold air is then pulled through the equipment inside the rack
- (4) The air is now warmer due to the heat generated by the equipment. The hot air is channeled upward in the plenum door by twelve fans.
- (5) The hot air continues upward, through the chimney, until it is exhausted into the ceiling void

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**modrac**  
cooling technologies

inline cooling • water cooling • computer room air conditioning • environmental monitoring • environmental racking solutions