



**TROX**<sup>®</sup>AITCS  
Advanced IT Cooling Systems

# CO<sub>2</sub> Mission Critical Cooling Strategic Evaluation Programme



Trox Advanced IT Cooling Systems Limited

Caxton Way, GB-Thetford, Norfolk IP24 3SQ

Tel: +44 (0)1842 851280

Fax: +44 (0)1842 851279

info@troxaitcs.com

www.troxaitcs.com

## CO<sub>2</sub> Evaluation Programme

Trox AITCS offer an on-site evaluation programme to aid the strategic planning, selection and deployment of a high capacity cooling system to satisfy ICTs technology demands.

The programme enables clients to evaluate:

- ▶ CO<sub>2</sub> cooling within their own facility
- ▶ Cooling capacity per CO<sub>2</sub>OLrac unit
- ▶ Cabinet and CO<sub>2</sub>OLrac mounting compatibility
- ▶ Server and CO<sub>2</sub>OLrac airflow compatibility
- ▶ Intrinsic resilience in failure mode scenarios
- ▶ Quality of installation

The Client will need to provide:

- ▶ Chilled water at 6/12°C (flow/return)
- ▶ Electrical supply 415/3/50
- ▶ Cabinet heat loads/servers
- ▶ Plant pipe route space

The Trox AITCS package integrates the CO<sub>2</sub>OLpac plant with the building's existing chilled water system (CHW). The server equipment load is absorbed into the circulating CO<sub>2</sub> by each cabinet mounted CO<sub>2</sub>OLrac unit, which is then rejected into the CHW system at the CO<sub>2</sub>OLpac unit. A percentage of the trial cost will be refunded against a permanent installation.

Delivery of the programme includes:

- ▶ Consultation and site survey
- ▶ Proposal and quotation
- ▶ Installation and commissioning of:
  - CO<sub>2</sub>OLpac plant
  - CO<sub>2</sub> distribution pipework
  - CO<sub>2</sub>OLrac units (maximum 4)
  - Gas detection system
- ▶ Technician support
- ▶ Thermal and aerodynamic assessment
- ▶ Summary report and conclusions

