

**STULZ**

**CLIMATE. CUSTOMIZED.**



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## **Ideal room climate for optimum printing processes**

### **STULZ optimises critical print production conditions at Paragon Customer Communications.**

When it comes to guaranteeing the fast turn-around of critical regulatory communications, using the fastest print presses in the world, capable of producing up to two million pages a day, Paragon Customer Communications (Paragon CC) know that effective service delivery is increasingly reliant on room temperatures and humidity.

Paragon was looking for a tailored Air Conditioning solution for their demanding facilities in both a print room and a data centre. Reliability of equipment, no down-time and energy efficiency were the main drivers, and this is exactly where STULZ could offer a tailored solution providing the equipment and technology needed for cost efficient perfect environmental conditions.

## THE CUSTOMER

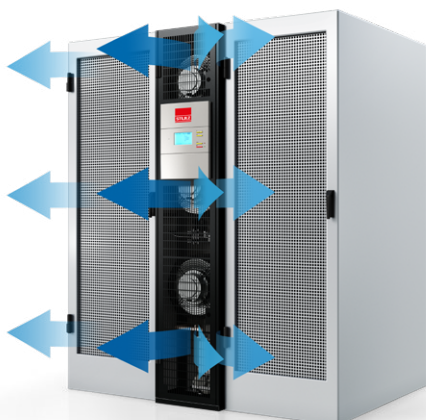
Paragon Customer Communications is an award winning, global communications company, helping businesses to deliver exceptional customer experiences via print and digital channels. Their production environments set new industry standards for governance, security and integrity; with their continuous investment and lean approaches ensuring quality and innovation are delivered at the very best value.

They provide unrivalled expertise and market leading solutions for industries where one-to-one customer communication is vital to their business, including the Financial Services, Telecoms, Utilities, Retail, Government and Charity sectors. Paragon Customer Communications' UK operation has a turnover of around £165m.

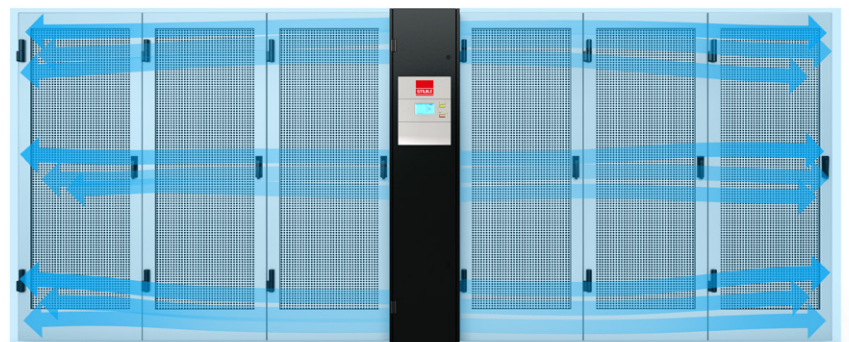
## THE PROJECT

STULZ initially completed a project for Paragon CC's Head of Lean Continuous Improvement at the Paragon CC Dagenham site. Dagenham is a printing business, both physical and digital printing. The project involved the implementation of cooling equipment in a huge facility predominately involved in high tech digital printing for the banking and finance industry.

One successful project often leads to another, so the STULZ Team were asked to another Paragon CC site in Bristol, again looking to make improvements to their facility. This facility is also a printing application in a large warehouse factory environment and where they hold their data centre/ IT Room (in a room within a room). The facilities management team were experiencing problems from heat generated by equipment in the IT room.



CyberRow units with frontal air outlet



CyberRow units with lateral air conduction

## THE FACTS

### Client

Paragon

### Hardware

- 3x CyberRow DX (A-System)

### Task

- Decommissioning and removal of legacy equipment
- Full bespoke installation
- To provide air conditioning for an IT/Server room
- Energy efficient solution
- N+1 Resilience

## IMPLEMENTATION

The STULZ Sales Manager is accredited in data centre design and build and was able to quickly understand the issues and what application was needed to solve them. A solution was put forward using the STULZ CyberRow units.

CyberRow is a rack cooling system for small, medium data centres that can also provide targeted spot cooling solution for large data centres. The row based design allows the CyberRow units to be placed close to the heat load, allowing data centre owners to manage thermal loads most efficiently.

STULZ CyberRow rack cooling can be configured with a front discharge for data centres using hot aisle or cold aisle containment, or with a side discharge for open aisle configurations. The units can be installed in the middle or end of a row and will work on either a raised floor or slab.

## THE RESULT

The units sit in a small IT room within a hot and cold aisle configuration in order to cool the active equipment housed in the racks to the appropriate level. The STULZ Team had to adapt the complex layout of the racks and the legacy equipment that was no longer required, to bring the room to the appropriate conditions. This also included the removal of the legacy CRAC and condenser units.

STULZ then installed three CyberRow units complete with external condensers which made a huge improvement to the targeted cooling within the data centre. Providing a 19" server rack also to create the best optimal conditions within the cold aisle was critical. After consultation an order was secured to provide a full turnkey installation of STULZ CyberRow DX units.

STULZ supply precision Air Conditioning Cooling solutions for Data Centre & all other critical applications.

These include:

- Precision (Close Control) Air Conditioning
- CRAC unit cooling
- Direct & indirect Free-cooling solutions
- Adiabatic air-handlers
- Chillers
- Containerised cooling
- High-density server rack cooling
- Telecoms cooling
- Electronic/Electrical enclosure HVAC
- Process cooling & industrial chillers

These cooling solutions are specifically designed for Data Centres, Comms Rooms, Server Rooms, Laboratories, Archives and other business critical electronic environments where energy efficiency and reliability is paramount. The more efficient this cooling, the less power the Facility consumes and STULZ has concentrated design effort on dramatically increasing energy efficiency through "Free-Cooling" solutions.



CyberRow DX (A-System)

## ABOUT STULZ

STULZ is one of the world's leading solution provider of energy efficient temperature and humidity management technology, specifically for mission critical applications.

Backed by over 40 years of experience, STULZ is one of the foremost pioneers in the field of air conditioning solutions for dependable applications and Data Centers. STULZ air conditioning equipment is developed and manufactured primarily in Germany, to the very highest standards of quality and in line with exceptionally stringent testing criteria.

The STULZ product range includes traditional room cooling, high-density cooling, chillers, container modules and air handling units with adiabatic cooling. All systems are available with Indirect Free Cooling. STULZ offers Direct Free Cooling for CRAC systems, air handling units and modular Data Centers. Together with its various sizes, extensive additional options and modularity, STULZ therefore boasts a product range that is unique in the world and can make optimum air conditioning a reality for practically every Data Center project.

For further information about our services and products please visit our website

[www.stulz.com](http://www.stulz.com)