The Regents Emirates Pearl Hotel is anticipated to be recognized for its modern design, class and comfort. Located in the beach promenade, a premium location in the center of Abu Dhabi, the spiraling tower is a site to see. The hotel is built among the finest high-class resorts, including the internationally renowned Emirates Palace Hotel.

The Emirates Pearl Hotel includes 368 rooms and suites, 15 meetings rooms, 12 food and beverage outlets, a spa and wellness center, as well as a private beach and helicopter pad.

To compete with the top hotels in the hospitality industry, Emirates Pearl Hotel teamed up with Atlas Telecom, a consulting and engineering firm, distributor, MultiNet Communications, and Chatsworth Products (CPI) to design and install a state-of-the-art data center to accommodate the technological needs of such a luxurious space.

The aim was to provide and design a solution that could bring energy efficiency and at the same time, protect our investment for 10-15 years. Therefore, future scalability was also important to us.

Nabeel Siddiqi, Project Manager for Atlas Telecom

Planning

Emirates Pearl Hotel was very interested in a green, energy efficient data center to coincide with the architectural design and sophistication.

“The aim was to provide and design a solution that could bring energy efficiency and at the same time, protect our investment for 10-15 years. Therefore, future scalability was also important to us,” stated Nabeel Siddiqi, Project Manager for Atlas Telecom.
With Atlas Telecom’s and Emirates Pearl Hotel’s goals in mind, MultiNet
highly recommended CPI Cabinets with Vertical Exhaust Ducts, which have
revolutionized the cooling concept in the data center. However, due to
height limitations, a different approach had to be taken to maximize cooling
efficiency.

CPI Passive Cooling® Solutions were chosen to allow cooling efficiencies in
the data center to be maximized without the need for additional CRAC
units, in-row air conditioners or liquid cooling solutions. This “free cooling”
is achieved by properly isolating, redirecting and recycling hot exhaust air
from cold supply air.

Emirates Pearl Hotel was interested in the ability to support up to four
times higher heat loads and power densities, eliminate hot spots and
improve cooling efficiency by up to three times, so it ordered a
comprehensive, energy efficient solution from CPI.

Solution
In June 2014, MultiNet provided Emirates Pearl Hotel with CPI’s Cabinet
Supported Cold Aisle Containment (CAC) Solution, complete with doors and
floor ceiling kits.

“We looked at all types of aisle containment but found CPI’s Cold Aisle
Containment favorable,” said Siddiqi.

CPI’s CAC Solution isolates a room’s cold air supply and confines it to an
entirely closed off area targeted at cooling IT equipment instead of the
room. With the fronts of cabinets facing each other as they would in a
typical cold aisle design, the addition of CPI’s doors on each end of the
aisle and ceiling panels across those adjacent cabinet rows creates a
complete segregation of hot and cold air.

“We looked at all types of aisle containment but found CPI’s Cold Aisle
Containment favorable.”

Nabeel Siddiqi, Project Manager for Atlas Telecom

The CAC Solution will consist of two rows of 20 GF-Series GlobalFrame®
Cabinet Systems. Each will feature an Air Dam Kit for the Cisco switches, as
well as KoldLok® Two-Post Grommets, which seal the base of two-post racks
to prevent by-pass airflow, as well as contamination from air impurities, two
major concerns in data center cooling.

CPI’s CAC Solution, cabinets and accessories were ordered in Glacier White.
“White was a good choice—it provided power and energy savings with the
lighting,” stated Siddiqi. “The data center looks much brighter than we
imagined.”

CPI’s enclosure products will be housing and protecting HP Servers, HP core
switches, Cisco core switches, Corning fiber and copper rack inter-
connectivity systems.

Additionally, CPI’s single- and three-phase Monitored Vertical Power
Distribution Units (PDUs) will be included in the data center. The PDUs include
an Ethernet port, which allows network-based monitoring of current use,
temperature and humidity using a web browser.

GF-Series GlobalFrame® Gen 2 Cabinet System

www.chatsworth.com
Siddiqi stated, “We also wanted the ability to link more than one PDU to the same IP address. CPI’s PDUs enabled us to link 20 PDUs to a single IP address, which reduced our spending due to lesser ports and IP addresses required.”

CPI’s RIM-600, a Remote Infrastructure Management System, with temperature, humidity, smoke and water-detection sensors will monitor the equipment and provide alarms to prevent damage or downtime.

*Sundeep Raina, CPI Area Sales Director for the Middle East and Mohamed Jeelani, Managing Director for MultiNet.*

**Results**

Emirates Pearl Hotel discussed several options with Atlas Telecom before concluding that CPI products provided the best solutions for the hotel’s needs and energy efficiency expectations.

“We were looking for a trustworthy partner, and we found that in CPI and MultiNet,” stated Siddiqi.

“It was really easy for the customer [Emirates Pearl Hotel] to evaluate the products and solutions offered in the market but working with CPI’s products at an early stage, gave a better edge in the decision process,” said Mohamed Jeelani, Managing Director for MultiNet. “CPI is well known in providing data center solutions.”

The data center at Emirates Pearl Hotel is still under construction. Once construction is complete, CPI’s solutions will have helped the hotel to be technologically prepared to serve its guests with world-class flair.  

**Nabeel Siddiqi, Project Manager for Atlas Telecom**

©2015 Chatsworth Products, Inc. All rights reserved. Chatsworth Products, CPI, CPI Passive Cooling, eConnect, MegaFrame, Saf-T-Grip, Seismic Frame, SlimFrame, TeraFrame, GlobalFrame, Cube-T P Plus, Evolution, OnTrac, QuadraRack and Velocity are federally registered trademarks of Chatsworth Products. Simply Efficient is a trademark of Chatsworth Products. All other trademarks belong to their respective companies.