



Cool Running's With Ken Ng

As the founder of Canatec Pte Ltd in Singapore, Mr Ken Ng is also their Business Director. His specialisation is: Mission Critical Environment Solutions., and has been in the Mission Critical Environment Solutions industry for more than 15 years.

An outgoing personality, coupled with strong business acumen, Ken has brought Canatec to where it is today from what it used to be in a small office room back in 2007. With the new office situated at Kaki Bukit, it boasts a 2 level structure with about 400 square metres. Ken was perceptive in the line of business and understood the importance of the mission critical environment to his clients, providing superior solutions which were optimized to each unique business requirement.

A charismatic leader, Ken earned the respect and trust of his peers who worked alongside him with ease. His laudable work ethics ensured that quality work was always delivered in a timely fashion. Ken's natural flair in interpersonal interaction allowed Canatec to secure big clients such as Boeing and Keppel. An inspiring figure whom is talented yet humble, Ken is well poised and definitely a person to look out for in the industry.

Under Ken's outstanding leadership, Canatec is looking towards a strong regional presence throughout South East Asia in the next 3 to 5 years by identifying and working closely with competent partners to deliver quality and reliable solutions. Canatec's business motto: "Client's satisfaction is our business".

Singapore, has over 40 data centres in a small land mass footprint. As a result, optimization of space is important. So, the data centre infrastructure solutions need to be delivered in an effective space saving way without compromising efficiency.

Canatec Pte Ltd has over 12 years of experience in the customization, installation and maintenance of CANATAL Precision Cooling Unit (CRAC) for data centres. More than 1,000 CRAC units have been installed in Singapore, helping companies to achieve high reliability and availability to support their critical servers and equipment.

I started off by asking Ken about what challenges do tropical climates provide, particularly relating to cooling and energy efficiency.

Ken stated that for regions with tropical climates and high humidity level, more energy is used to provide the appropriate levels of data centre cooling. He stressed that continuous emphasis on equipment research & development and innovation, is vital to reduce the energy footprint. "A complete cooling system consists of various structure and components. By improving the performance efficiency of components will result in a more energy efficient system. Canatec constantly works with various suppliers to incorporate new energy saving technologies in cooling systems".

Canatec has three cooling platforms; the ME, R and Guardian series. I asked Ken if he could briefly outline why they have three types of cooling systems and the benefits each of these provide.

The various types of system are designed to provide solutions for different applications, Ken noted.

ME Series

This is a small footprint, highly efficient, reliable modular system for large data hall deployment. The cooling capacity ranges from 30kW to 250kW. Being fully customizable, the equipment can be tailored to specific site requirements through parts and component modification and enhancement for both air cooled and chilled water environments.

R Series

Are In-Row Cooling systems designed to deliver more focused cooling to high density IT racks in hot/cold aisle configuration. The unit flexibility and small footprint is easy to fit and deploy. The R Series are tested to increase cooling efficiency for better Power Usage Efficiency (PUE) and energy savings. Cooling capacity ranges from 20kW to 60kW.

Guardian Series

The Guardian Series are compact and modular standing units offering high reliability and performance. They are specially catered for tight spaces and especially suitable for small server rooms and technology based spaces. These are designed with quality and cutting edge technology for precise cooling and humidity control within the highly sensitive environment. Cooling capacity ranges from 5kW to 40kW.

Why should organizations select your solution above others?

"CANATEC's focus on product innovation provides customers with the latest and best energy efficient solutions. Our control system allows better monitoring and management of data centre conditions and that will translate to less energy consumption. We are consistently in search of better technologies to provide best value to customers."

'By listening to our customers, we understand their needs and challenges'

"These feedbacks are vital to product improvement and enhancement of users' experiences. Our complete services from design, to build, to maintenance ensures accountability and ease of managing multiple parties from customers."
One of the Canatec company's values best describes them in this way—

'Customers Satisfaction is Our Business'

Energy efficiency in the DC is undeniably paramount these days. What specific combinations of infrastructure technology are required to reduce the power consumption footprint? Ken stated that All CANATAL systems are fitted with variable speed EC fans which regulate fan speed that prevents fans from operating at 100% all time. The Inverter compressor regulates the cooling output in accordance to preset conditions and avoids over-cooling and energy wastage. Also, the deployment of a containment and row cooling system better manages airflow thus reducing air losses. "These designs and procedures are in place to optimise cooling efficiency and reduce power consumption."

OK then, let's talk about DCIM. I know you have a number of different monitoring solutions available and I understand you have a DCIM in the pipeline. So, if you could kindly tell us about the importance and advantages of DCIM and then about your upcoming.

“The role of Data Centre Infrastructure Management (DCIM) has evolved since its early days.”

‘The increasing importance of having more information and better control over data centre operations are top priorities to data centre managers’

Ken continues to say that, “DCIM is a set of tools that examine, measure and manage data centre’s operation. Its objective is to improve efficiency, space utilization and reduce cost. We are still in the process of confirming some details and are therefore unable to provide information [on our DCIM] at this moment. However, our customized solution is designed to meet different requirements and add value to your investment.”