



# Porsche Centre Sungai Besi

## Jalan Sungai Besi, Kuala Lumpur

### Project Overview

Strategically located at the central automotive hub in Kuala Lumpur, the Porsche Centre Sungai Besi (PCSB) is a 34,700 square feet car sales, service and spare-parts center that projects the worldwide ethos and style of Porsche. The state-of-art 3S facility features a modern showroom that can accommodate up to 10 display cars, a service workshop with 9 technologically-advanced service bays, a separate floor showcasing pre-owned cars, and staff training resources. The PCSB is owned by Sime Darby Auto Performance (SDAP) Sdn. Bhd., the authorized importer of Porsche vehicles in Malaysia.



### Project Challenge & Our Involvement

General exhaust ventilation with wide-open outside doors was originally used to control atmospheric conditions as well as car exhaust emissions within the workshop. Although the mechanical ventilation system had worked well to remove airborne contaminants, it was inadequate at maintaining thermal comfort for the technicians. By working closely with the owner to define their needs, we developed a clear solution to the heat-stress situation at the workshop. As this solution fulfilled all of the brand’s sustainability expectations, our firm was chosen by SDAP as its design-build partner for the retrofit of the particular ventilation system.

### Project Offerings

The core value that we have delivered for the project derives from the following features of the upgraded environmental-control system for the workshop:

- Indirect evaporative coolers with direct evaporative stage (IDEC) for spot cooling at service bays
- Best design practices for air distribution and control



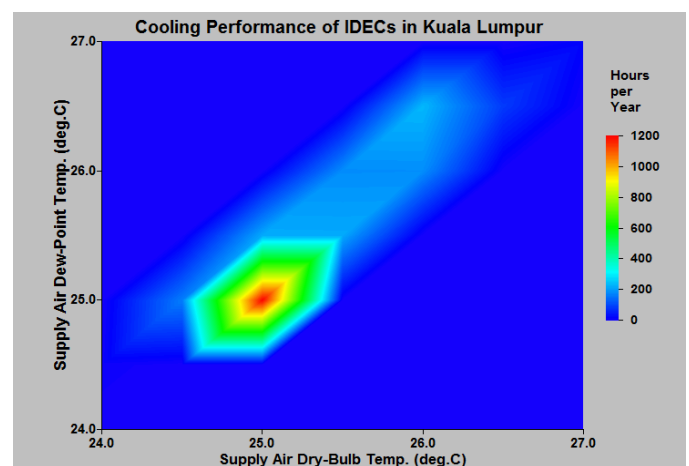
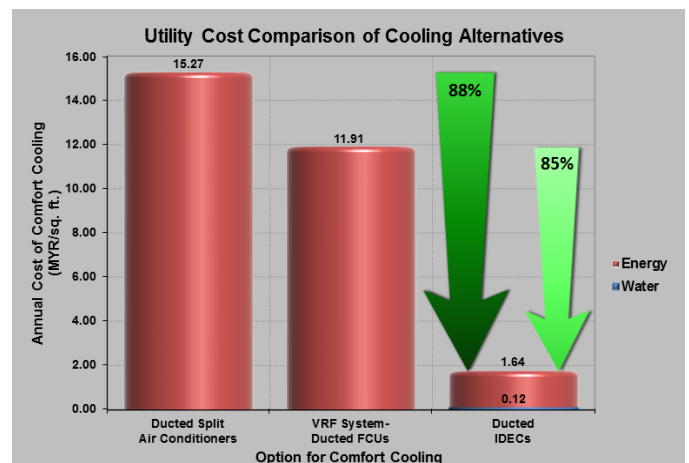
### Project Outcomes

The advantages of employing IDEC systems over regular refrigeration-based air conditioners include

- Reduces running costs by as much as 88% with comparable cooling performance (24-27°C supply).
- Improves indoor air quality to create a positive impact on worker wellbeing and productivity by supplying 100% fresh, cool and filtered air.
- Uses mains water as working fluid to attain cooling.

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- Waives the need to enclose the workshop space and switch over to quick-acting roller shutters so as to sustain comfort and save on air-conditioning costs.
- Simplifies maintenance and repair work significantly.



### Project Distinctions

The transformation of PCSB workshop’s ventilation system has marked a new dimension in how Porsche will deliver its ownership experience in Malaysia. That sustainability innovation was sought out to address what started off as a social challenge is a testament to the enduring value that the German marque builds into its products, services and business practices globally.