Data for Adsorption Solar Air Conditioning System for Singapore Climate

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**NOMENCLATURE**

COP: Coefficient of performance

ETSC: Evacuated Tube Solar Collector

FPSC: Flat Plate Solar Collector

SCP: Specific cooling power (kW/kg)

Tamb: Ambient temperature (oC)

Tdriving: Driving temperature (oC)

N/A or NaN: Numerical Data Not Available.

**MATLAB® Figures**

**Figure 5.** SCP and COP model predictions for function of driving temperature.

**Figure 6.** Flat plate solar collector (FPSC) area and cost model predictions for function of driving temperature.

**Figure 7** Evacuated tube solar collector (ETSC) area and cost model predictions for function of driving temperature.

**Figure 8.** Daily performance throughout the year with 9.8 m2 evacuated tube solar collector (ETSC).

**Figure 9.** Examples of hourly daily cooling production with 9.8 m2 evacuated tube solar collector (ETSC). (1 January and 5 April)

**FILES**

sgdata2.dat: Singapore weather data from METEONORM®

MATLABFIG.zip: All MATLAB® Figures

NumericalData.excel: Numerical data underpinning all MATLAB® Figures