

【脈衝式建築氣密性能量測設備】

本實驗室擁有全台唯一之脈衝式建築氣密性量測設備。脈衝式建築氣密性量測設備是可攜式的系統，用於測量低壓下建築物氣密性，量測過程僅在短時間內（通常為 1.5 秒）從空氣罐釋放一定量的壓縮空氣到測試建築物，藉著監測建築物和空氣罐中的壓力變化來建立建築物壓力和洩漏之間的相關性。脈衝式建築氣密性量測設備目前應用在建築居室、門、窗等構件之氣密性檢測上。

【Pulse Air Permeability Measurement System】

Pulse airtightness test technology and device developed by the University of Nottingham is used to measure the building airtightness in our Lab. This airtightness testing equipment is a portable system. Pulse method only requires a volume change at the order of 0.004% to generate a pulse pressure in the order of 4 Pa. It generates an instant pressure rise in building enclosure by releasing compressed air into the building over a short period of time from an air tank of known size and the pressure variations in the building and air tank are monitored and used to determine the building airtightness.



脈衝式建築氣密性能量測設備(Pulse Air Permeability Measurement System)