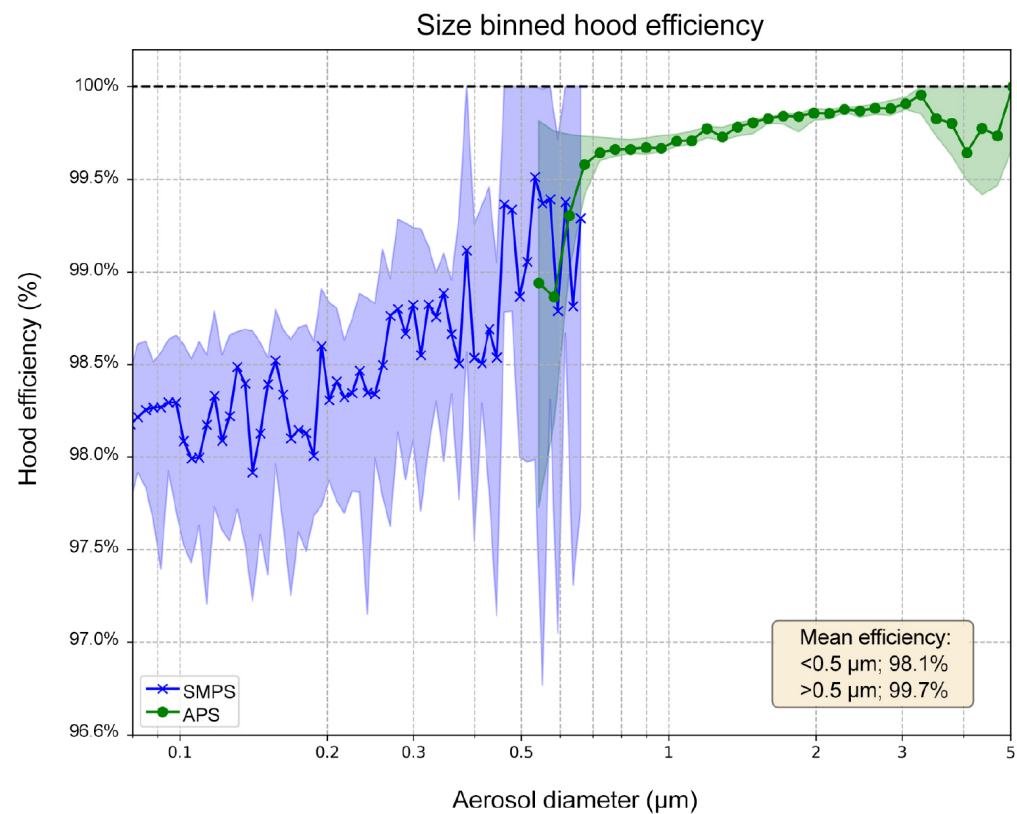


Figure 5. The personal ventilation hood's effectiveness against repeated nebuliser aerosol generation



APS = Aerodynamic Particle Sizer spectrometer ($> 0.5 \mu\text{m}$ aerosols); SMPS = scanning mobility particle sizer spectrometer ($< 0.5 \mu\text{m}$ aerosols). * Aerosols measured consecutively from inside and outside the hood. Hood efficiency = 1 (number of particles measured outside hood/total number of particles introduced in the hood) as a percentage. Blue (SMPS [TSI SMPS 3080] data) and green (APS [TSI APS 3220] data) curves represent mean results. Blue and green shading represent the 10–90% ranges. The efficiencies were calculated individually for each experiment pair with the two different aerosol source strengths, then averaged together to create the final efficiencies and size versus efficiency curve.