



Figure S2 Percentage increases in total stomatal conductance for sunflower simulations with the assumption of a regulated, constant epidermal potential, as a function of total volumetric airspace, and symmetry or asymmetry between upper and lower domains in stomatal conductance and air fraction. Closed circles are the initial response from $SR = 160$ to $SR = 200$, and open circles the response after ambient air temperature compensation to conserve initial lower epidermal temperature. **A** asymmetric g_s and air fraction; **B** symmetric g_s , asymmetric air fraction; **C** asymmetric g_s , symmetric air fraction; **C** symmetric g_s and air fraction. For total air fractions of 0.3, 0.5 and 0.7, asymmetric fractions were (upper/lower) 0.1/0.5, 0.2/0.8, and 0.5/0.9 respectively. Asymmetric g_s varied to satisfy the initial state, but were in general twice as large on the lower (abaxial) surface.