

図1 従来の塗装ブースの概要 p.223(15)

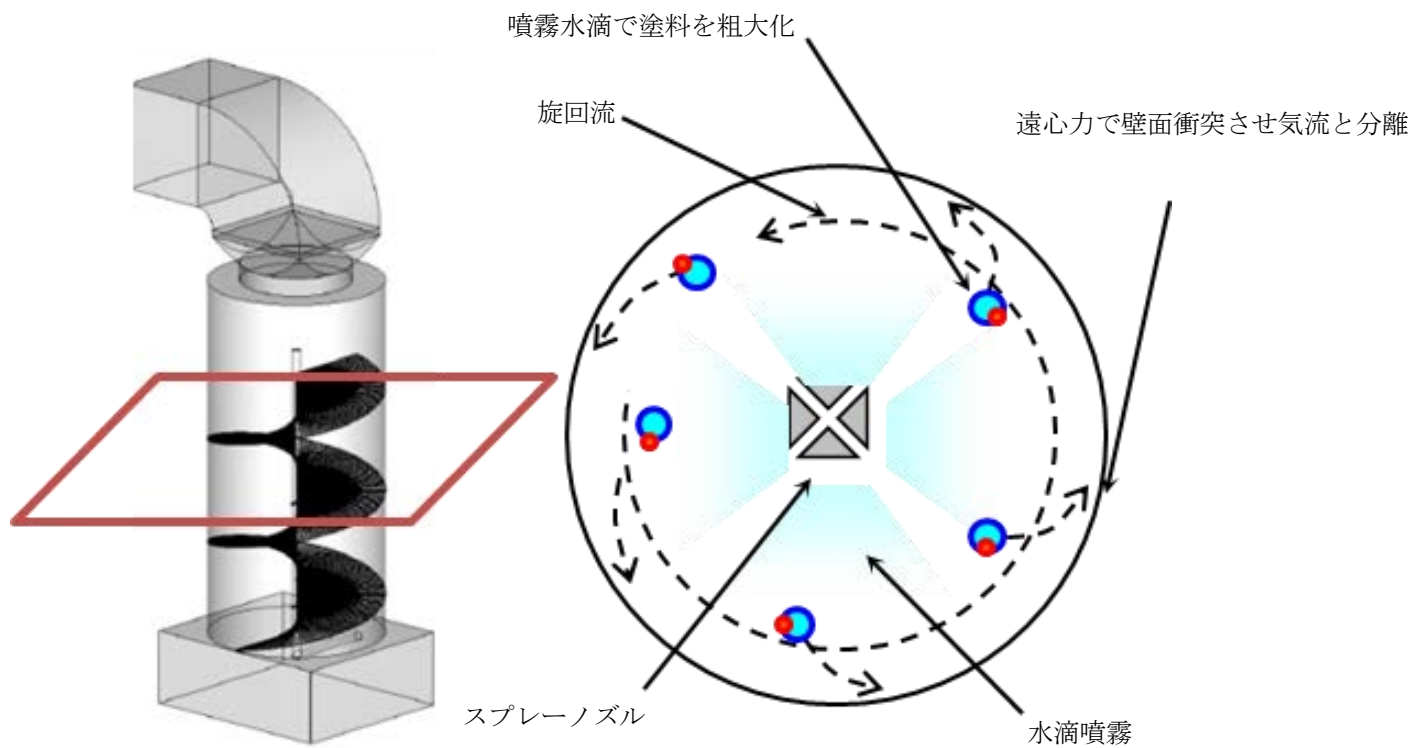
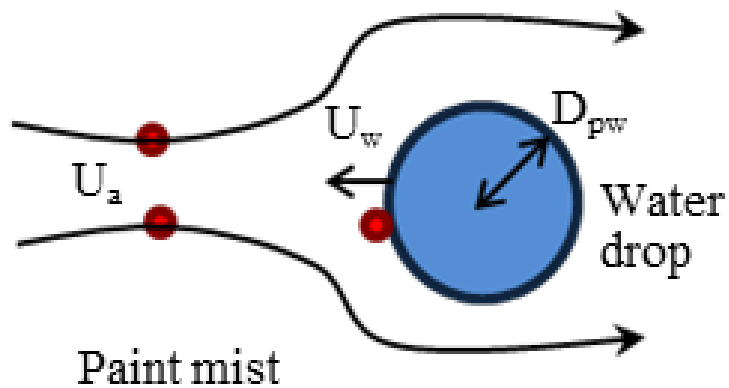
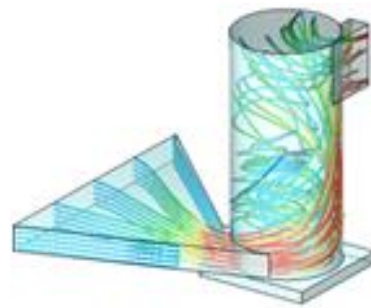


図3 新集塵装置の概要 p.223(15)



U_a : Air flow (Paint mist) speed [m/s]
 U_w : Water drop speed [m/s]
 D_{pw} : Water drop radius [μm]

図6 水滴と塗料ミストの衝突効率の考え方 p.224 (16)



(a) Inflow/Outflow in tangent direction
(without helical guide)



(b) Outflow in tangent direction
(with helical guide)



(c) Upward outflow
(with helical guide)

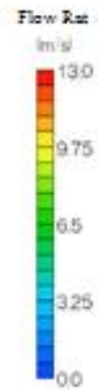
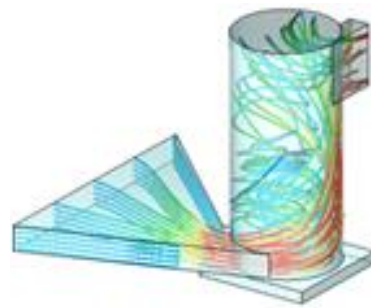


図9 気流シミュレーションモデル p.225(17)



(a) Inflow/Outflow in tangent direction
(without helical guide)



(b) Outflow in tangent direction
(with helical guide)



(c) Upward outflow
(with helical guide)

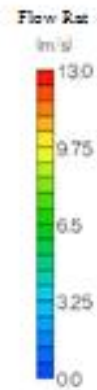


図10 気流シミュレーションモデル結果(流線図) p.225(17)

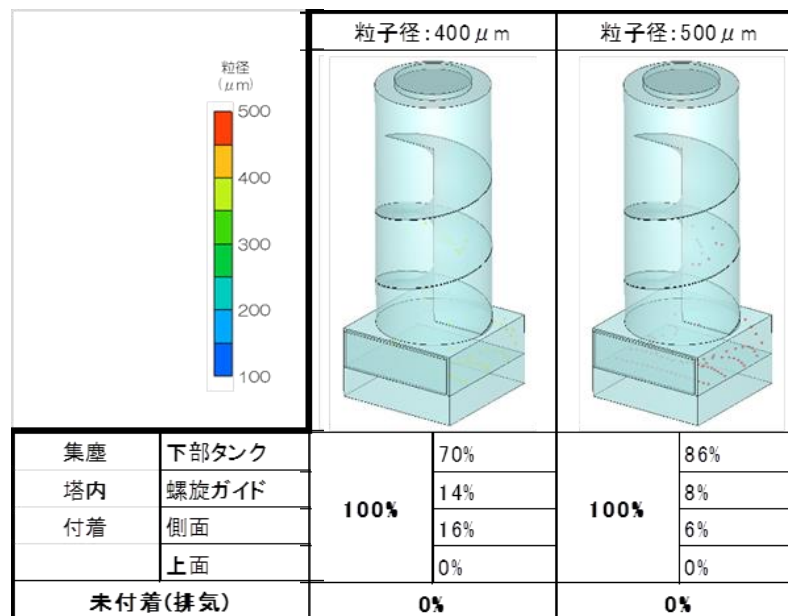
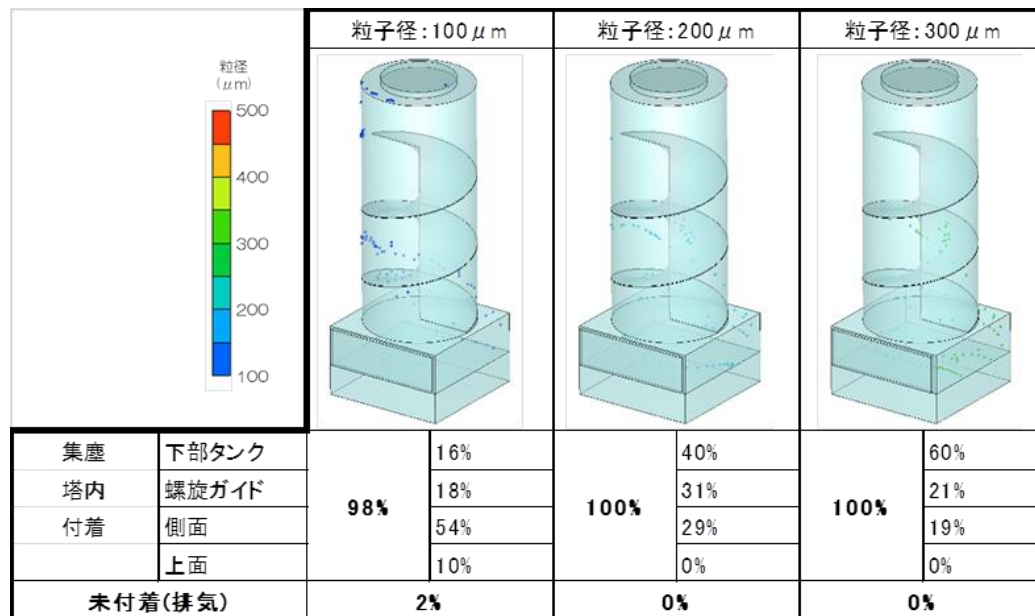


図11 粒子飛行シミュレーション結果 p.226

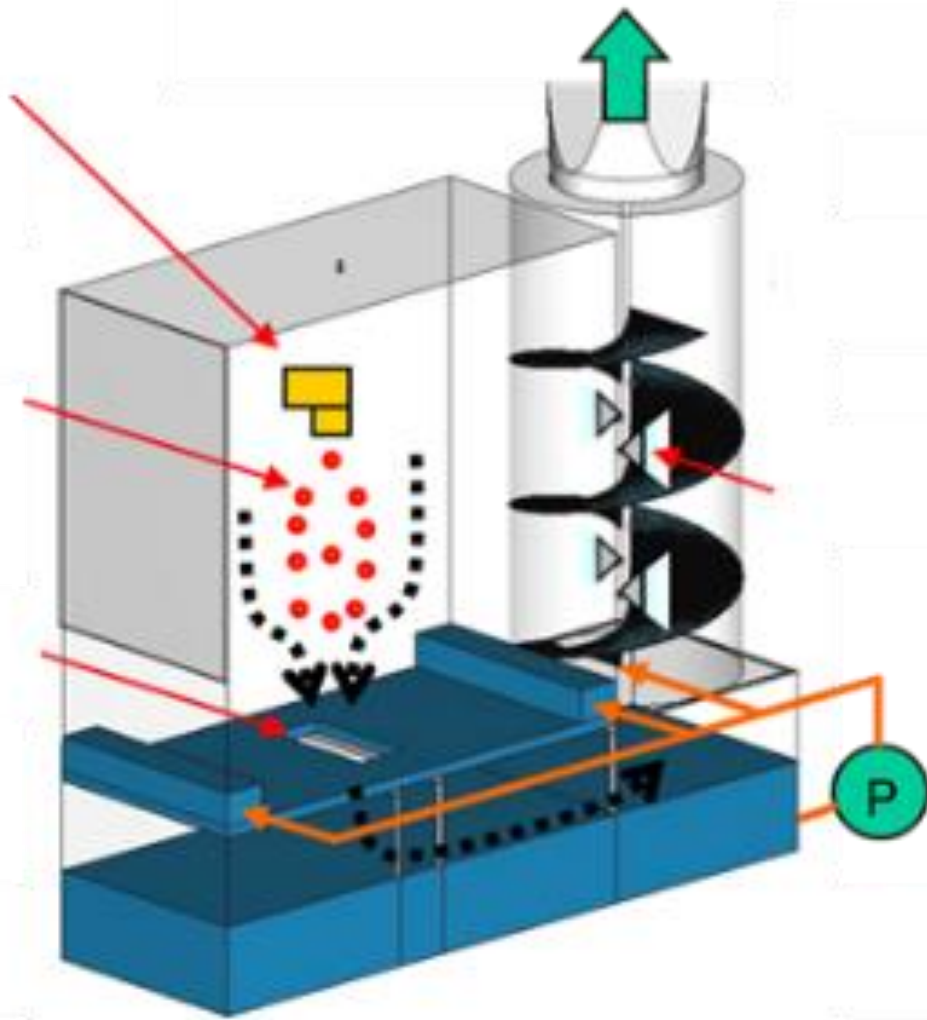


図12 小型試験機の概要 p.224(16)