

EXTRACT MATRIX XVII: PHYSICAL FEATURES OF MODELS I - PART B

Model	Radionuclide Ingrowth and Decay	Cloud Buoyancy (Neutral [Passive], Dense [Negative], Plume Rise [Positive])	Cloud Liquid Droplet Formation/ Aerosolization	Deposition (Gravitational Setting, Dry Deposition, Precipitation Scavenging, Resistance Theory Deposition, Simple Deposition Velocity, Liquid Deposition, Plateout and Re-evaporation)	Resuspension
ADAM	NA	✓	✓	NA	NA
AFTOX	NA	✓	NA	NA	NA
ALOHA	NA	Neutral, Dense	NA	NA	NA
AQPAC	NA	✓		Dry Deposition	NA
ARAC (MATHEW/ADPIC)	✓	✓	NA	✓	✓
AXAIRQ	✓	NA	NA	✓	NA
AXAOTHER XL	✓	NA	NA	NA	NA
BNLGPM	NA	Neutral	NA	NA	NA
CALPUFF	NA	✓	NA	✓	NA
CAP88-PC	NA	Plume Rise	NA	✓	NA
CASRAM	NA	Neutral	NA	✓	NA
COSYMA	✓	Neutral	NA	Dry Deposition	✓
CTDMPLUS	NA	Neutral	NA	NA	NA
DEGADIS	NA	Neutral, Dense	NA	NA	NA
DOSEEP	NA	Neutral	NA	NA	NA
EMGRES	NA	Neutral, Dense	NA	NA	NA
ERAD	NA	Plume Rise	NA	Dry Deposition	NA
ETMOD	✓	NA	NA	Dry Deposition	NA
FEM3C	NA	NA	NA	✓	NA
GAUS1	NA	✓	NA	✓	✓

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GENII	NA	Plume Rise	NA	NA	NA
GXQ	NA	Neutral, Plume Rise	NA	Gravitational Setting	
INPUFF	NA	✓	NA	✓	NA
HARM II	NA	✓	NA	✓	NA
HGSYSTEM	NA	Neutral, Dense	NA	NA	NA
HOTMAC/RAPTAD	NA	✓	NA	NA	NA
HOTSPOT	NA	Neutral, Plume Rise	NA	✓	Anspaugh
HYSPLIT	Decay only.	Neutral	NA	✓	✓
MACCS2	NA	NA	NA	✓	✓
MARSS	NA	Neutral	NA	NA	NA
OMEGA/ADM v3.5	NA	Neutral, Plume Rise	NA	✓	NA
PAVAN	NA	Neutral	NA	NA	NA
PIKE	✓	Plume Rise	NA	✓	NA
PUFF-PLUME	Decay	Neutral	NA	NA	NA
RSAC-5	✓	✓	NA	NA	NA
RTVSM	NA	Neutral, Plume Rise	NA	✓	NA
SCIPUFF	NA	✓	✓	✓	NA
SLAB	NA	✓	✓	NA	NA
SUDU	NA	Neutral, Plume Rise	NA	Dry Deposition	NA
TRAC RA/HA	NA	✓	NA	NA	✓
TRIAD 2-1	Simple decay included	✓	NA	✓	NA

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TSCREEN	NA	✓	NA	NA	✓
UFOTRI	Decay	Neutral	NA	✓	✓
VDI	NA	Dense	NA	NA	NA
VENTSAR XL	✓	NA	NA	NA	NA
VLSTRACK	NA	Neutral	✓	Dry Deposition	NA

NA Not applicable for this model.