

Author response to review for EGUSPHERE-2023-1328

We once again thank the reviewers for their time and effort in reviewing our manuscript. We have addressed the final comments below.

Technical Corrections

Line 62: repeat of 'the'

- Corrected

Line 228: format k in kon to be same as on line 232

- Corrected

Line 264: should 'chemical' be 'gas'?

- We have changed this to 'gas'.

Minor Revisions

Equation 1 (line 72): the final term ktC_i suggests that timed emission rates are dependent on the indoor concentrations (C_i), if this is correct, then please explain why in the main text, otherwise please correct.

- C_i has been removed from the equation.

Line 98: sounds like particle-phase chemical reaction is being solved, if this not the case, then please reword

- There are no particle-phase reactions being solved by INCHEM-Py, we have adjusted the text to now read:
"The total size of the mechanism solved by INCHEM-Py (v1.2), before any additional user mechanisms are added, is 6507 chemical species and particles undergoing 19581 gas-phase reactions and gas-particle partitioning reactions"