PRISMA 2020 Checklist – Intelligent Ventilation and Indoor Air Quality: State of the Art Review (2017–2025)

Section	Item #	Checklist item	Location where item is reported
TITLE	1	Identify the report as a systematic review.	Title
ABSTRACT	2	See the PRISMA 2020 for Abstracts checklist.	Abstract
INTRODUCTION	3	Describe the rationale for the review.	Introduction, Section 1
INTRODUCTION	4	Provide an explicit statement of the objectives.	Introduction, Objectives (end of Section 1)
METHODS	5	Specify the inclusion and exclusion criteria.	Methods, Section 2.1
METHODS	6	Specify all information sources.	Methods, Section 2.1
METHODS	7	Present the full search strategy.	Methods, Section 2.1
METHODS	8	Describe the study selection process.	Methods, Section 2.1; Figure 2
METHODS	9	Describe the data collection process.	Methods, Section 2.2
METHODS	10a	List and define all outcomes.	Methods, Section 2.2.1
METHODS	10b	List and define other variables.	Methods, Sections 2.2.1–2.2.2
METHODS	11	Describe risk of bias assessment.	Not formally assessed; narrative synthesis
METHODS	12	Specify effect measures.	Methods, Section 2.2.1; Table 1
METHODS	13a	Describe synthesis eligibility process.	Methods, Section 2.2.3
METHODS	13b	Describe data preparation methods.	Methods, Section 2.2.1
METHODS	13c	Describe tabulation/visualization	Tables 1–2; Figures 3–6

		methods.	
METHODS	13d	Describe synthesis methods.	Methods, Sections 2.2–2.2.3
METHODS	13e	Describe heterogeneity exploration.	Methods, Section 2.2.3
METHODS	13f	Describe sensitivity analyses.	Methods, Section 2.2.3
RESULTS	16a	Describe study selection results.	Results, Section 2.1; Figure 2
RESULTS	16b	Describe excluded studies.	Results, Section 2.1
RESULTS	17	Describe study characteristics.	Results, Sections 3–7
RESULTS	18	Present risk of bias in studies.	Not formally assessed
RESULTS	19	Present results of individual studies.	Results, Sections 3–7; Table 1
RESULTS	20a	Summarize syntheses.	Results, Sections 3–7
RESULTS	20b	Present synthesis results.	Results, Sections 3–7; Table 1
RESULTS	20c	Present heterogeneity investigations.	Results, Sections 3 and 7
RESULTS	20d	Present sensitivity analyses.	Results, Section 7
RESULTS	21	Assess reporting bias.	Qualitative discussion, Section 7
RESULTS	22	Assess certainty of evidence.	Results and Discussion, Sections 3–7
DISCUSSION	23a	General interpretation.	Discussion, Section 8
DISCUSSION	23b	Limitations of evidence.	Discussion, Section 8
DISCUSSION	23c	Limitations of review process.	Discussion, Section 8
DISCUSSION	23d	Implications for practice and research.	Discussion, Section 8
OTHER INFORMATION	24a	Registration information.	Not registered
OTHER	24b	Protocol access.	No protocol prepared

INFORMATION			
OTHER INFORMATION	24c	Protocol amendments.	Not applicable
OTHER INFORMATION	25	Sources of support.	Funding section
OTHER INFORMATION	26	Competing interests.	Conflicts of Interest section
OTHER INFORMATION	27	Data availability.	Supplementary Material section