

ISO 7730:2025-09 (E)

Ergonomics of the thermal environment - Analytical determination and interpretation of thermal comfort using calculation of the PMV and PPD indices and local thermal comfort criteria

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Whole body thermal comfort predicted mean vote (PMV)	2
4.1	Determination	2
4.2	Applications	4
5	Predicted percentage dissatisfied (PPD)	4
6	Local thermal comfort	5
6.1	General	5
6.2	Draught	6
6.3	Vertical air temperature difference	6
6.4	Warm and cool floors	7
6.5	Radiant temperature asymmetry	8
7	Thermal environments for comfort	9
8	Non-steady-state thermal environments	10
8.1	General	10
8.2	Temperature cycles	10
8.3	Temperature drifts or ramps	10
8.4	Transients	10
Annex A (informative)	Examples of thermal comfort requirements for different categories of environment and types of space	11
Annex B (informative)	Metabolic rates of different activities	16
Annex C (informative)	Estimation of thermal insulation of clothing ensembles	17
Annex D (normative)	Computer program for calculating PMV and PPD	21
Annex E (informative)	Graphics for determination of predicted mean vote (PMV)	25
Annex F (informative)	Humidity	29
Annex G (informative)	Air velocity	30
Bibliography		32