

DIN EN ISO 7730:2025-12 (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 (ISO 7730:2025)

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

