

**Sanitary Rules And Normatives 1.2.3685-21 "Hygienic standards and requirements for ensuring the safety and (or) harmlessness of environmental factors for humans" (partially)**

27. The indicators characterizing the microclimate at workplaces in industrial premises are:

- a) air temperature;
- b) the temperature of the surfaces of the enclosing structures (walls, ceiling, floor), devices, as well as technological equipment or its enclosing devices;
- c) relative humidity;
- d) air speed;
- e) the intensity of thermal radiation.

28. The permissible values of the microclimate parameters at workplaces in the premises are assessed depending on the category of work according to the level of energy consumption of the body.

**Categories of work by the level of energy consumption**

Table 5.1

Categories of work	Energy consumption, W	Nature of work, examples of types of work and professions
Ia	up to 139	A number of professions in enterprises of precision instrument and mechanical engineering, in watchmaking, sewing, in the field of management
Ib	140 - 174	Work performed while sitting, standing, or associated with walking and accompanied by physical stress
IIa	175 - 232	Work associated with constant walking, moving small (up to 1 kg) items or objects in a standing or sitting position and requiring a certain physical stress
IIb	233 - 290	Work associated with walking, moving and carrying weights up to 10 kg and accompanied by moderate physical stress
III	more than 290	Work associated with constant movement, movement and carrying significant (over 10 kg) weights and requiring great physical effort

29. Permissible values of microclimate parameters for workers places in relation to the performance of work of various categories in the cold or warm periods of the year are shown in Table 5.2.

While ensuring the permissible microclimate values at workplaces:

- a) the difference in air temperature in height from the floor level (0.1; 1.0; 1.5) m should be no more than 3 ° C;
- b) the horizontal air temperature difference, as well as its changes during the shift, should not exceed:
  - for work categories Ia and Ib - 4 ° C;
  - for work categories IIa and IIb - 5 ° C;
  - for work category III - 6 ° C.

At the same time, the air temperature values should not go beyond the values specified in Table 5.2 for certain categories of work.

**Permissible values of microclimate parameters at workplaces**

Table 5.2

Period of the year	Category of work by the level of energy consumption, W	Air temperature, ° C		Surface temperature, ° C	Relative air humidity, %	Air velocity (speed), m / s	
		range below optimal values	range above optimal values			for the air temperature range below the optimal values, no more than	for the air temperature range above the optimal values, no more
Cold	Ia (up to 139)	20.0 - 21.9	24.1 - 25.0	19.0 - 26.0	15 - 75	0.1	0.1
	Ib (140 - 174)	19.0 - 20.9	23.1 - 24.0	18.0 - 25.0	15 - 75	0.1	0.2
	IIa (175 - 232)	17, 0 - 18.9	21.1 - 23.0	16.0 - 24.0	15 - 75	0.1	0.3
	IIb (233 - 290)	15.0 - 16.9	19.1 - 22.0	14.0 - 23.0	15 - 75	0.2	0.4
	III (over 290)	13.0 - 15.9	18.1 - 21.0	12.0 - 22.0	15 - 75	0.2	0.4
Warm	Ia (up to 139)	21.0 - 22.9	25.1 - 28.0	20.0 - 29.0	15 - 75	0.1	0.2
	Ib (140 - 174)	20.0 - 21.9	24, 1 - 28.0	19.0 - 29.0	15 - 75	0.1	0.3
	IIa (175 - 232)	18.0 - 19.9	22.1 - 27.0	17.0 - 28.0	15 - 75	0.1	0.4
	IIb (233 - 290)	16.0 - 18.9	21.1 - 27.0	15.0 - 28.0	15 - 75	0.2	0.5
	III (over 290)	15.0 - 17.9	20.1 - 26.0	14.0 - 27.0	15 - 75	0.2	0.5