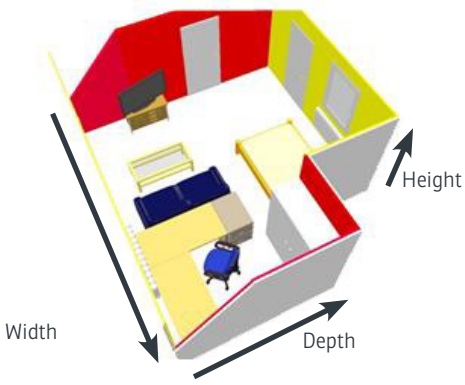
Calculating cold requirements

Room volume
Width x height x depth = amount m³ x Watt
= required power for 30 °C temperature difference (e.g. -10 / +22°)



Volume environment up to 30 m³	= 50 Watt / m³	p.es. 30 x 50	= 1200 Watt
31 – 50 m³	= 45 Watt / m³	p.es. 50 x 45	= 2250 Watt
51 – 90 m³	= 40 Watt / m³	p.es. 70 x 40	= 2800 Watt
91 – 120 m³	= 35 Watt / m³	p.es. 100 x 35	= 3500 Watt
121 – 180 m³	= 30 Watt / m³	p.es. 160 x 30	= 4800 Watt
181 – 250 m³	= 25 Watt / m³	p.es. 210 x 25	= 5250 Watt
251 – 300 m³	= 22 Watt / m³	p.es. 290 x 22	= 6380 Watt
Sopra i 300 m³	= 20 – 15 Watt / m³	p.es. 330 x 20	= 6600 Watt
Cellars	= 60 Watt / m³	p.es. 40 x 60	= 2400 Watt

Sample calculation

Room area 4 x 50 m = 20 m² x Room height 2.5 m = 50 m³ x 45 Watt = **2250 Required power.** The cooling demand depends on the structure of the room and the building as well as on additional energy sources, such as electrical devices.

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