

ISO 7547:2002-09 (E)

Ships and marine technology - Air-conditioning and ventilation of accommodation spaces - Design conditions and basis of calculations

Contents		Page
Foreword		iv
1 Scope		1
2 Normative references		1
3 Terms and definitions		1
4 Design conditions		2
4.1 General		2
4.2 Summer temperatures and humidities		2
4.3 Winter temperatures		2
4.4 Outdoor air		2
4.5 Occupancy		3
5 Calculation of heat gains and losses		3
5.1 Applicability		3
5.2 Heat transmission		3
5.3 Solar heat gain		7
5.4 Heat gain from persons		7
5.5 Heat gain from lighting and other sources		8
6 Airflow calculation		8
6.1 Volume of space		8
6.2 Supply airflow		8
6.3 Temperature of supply airflow		9
6.4 Exhaust airflow		9
6.5 Air balance		9
Annex A (informative) Guidance and good practice in the design of ventilation and air-conditioning systems in ships		10
Annex B (informative) Thermal conductivities of commonly used construction materials		13