

ISO 5149-3:2014-04 (E)

Refrigerating systems and heat pumps - Safety and environmental requirements - Part 3: Installation site

Contents		Page
Foreword		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Location of refrigerating equipment	1
4.1	General	1
4.2	Refrigerating equipment located in the open air	2
4.3	Refrigerating equipment located in a machinery room	2
4.4	Refrigerating equipment located in the occupied space	2
4.5	Refrigerating equipment located in unoccupied areas not designated a machinery room ...	2
4.6	Refrigerating equipment located in a ventilated enclosure within an occupied space	2
4.7	Piping duct or shaft	2
5	Machinery rooms	2
5.1	Occupancy of machinery rooms and special machinery rooms	2
5.2	Venting from or through the machinery room	3
5.3	Combustion equipment and air compressors	3
5.4	Open flame	3
5.5	Storage	3
5.6	Remote emergency switch	3
5.7	Exterior openings of the machinery room	3
5.8	Piping and ducting	4
5.9	Normal lighting	4
5.10	Emergency lighting	4
5.11	Dimensions and accessibility	4
5.12	Doors, walls, and ducts	4
5.13	Ventilation	5
5.14	Machinery rooms for flammable refrigerants (groups A2L, A2, B2L, B2, B3, and A3)	6
6	Requirements for alternative provisions	7
6.1	General	7
6.2	Occupied space	7
6.3	Ventilation	7
6.4	Safety shut-off valves	9
7	Electrical installations	9
7.1	General requirements	9
7.2	Main power supply	10
7.3	Electrical equipment in machinery rooms in which a refrigerating system contains class 2L flammability refrigerants	10
8	Safety alarms	10
8.1	General	10
8.2	Alarm system power	10
8.3	Alarm system warning	10
8.4	Additional alarm system requirements for R-717 systems with charges above 4 500 kg. ...	11
9	Detectors	11

9.1	General	11
9.2	Location of detectors	11
9.3	Function of the detector	11
9.4	Type and performance of a detector	11
9.5	Installation	12
10	Instruction manuals, notices, and inspections	12
10.1	Instruction manual	12
10.2	Warning notice	12
10.3	Visual inspection of site	13
10.4	Maintenance of the site	13
11	Heat sources and temporary high temperatures located at the site	13
	Bibliography	14