

ISO 5149-2:2014-04 (E)

Refrigerating systems and heat pumps - Safety and environmental requirements - Part 2: Design, construction, testing, marking and documentation

Contents	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Requirements for components and piping	2
4.1 General requirements	2
4.2 Specific requirements for particular components	4
4.3 Materials	4
4.4 Testing	6
4.5 Marking and documentation	7
5 Requirements for assemblies	8
5.1 General	8
5.2 Design and construction	9
5.3 Testing	28
5.4 Marking and documentation	32
Annex A (informative) Checklist for external visual inspection of the refrigerating system	36
Annex B (normative) Additional requirements for refrigerating systems and heat pumps with ammonia (NH₃)	37
Annex C (informative) Determination of category for assemblies	38
Annex D (normative) Requirements for intrinsic safety test	44
Annex E (informative) Examples for arrangement of pressure relief devices in refrigerating systems	46
Annex F (normative) Allowable equivalent length of discharge piping	51
Annex G (informative) Stress corrosion cracking	53
Bibliography	56