

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 (NH ₃) | 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 |