

# ISO/TR 12942:2012-09 (E)

## Compressors - Classification - Complementary information to ISO 5390

---

Contents	Page
Foreword .....	iv
Introduction .....	v
1 Scope .....	1
2 Design classes .....	1
2.1 General .....	1
2.2 Classification by equipment type .....	3
2.3 Classification of compressor apparatuses by operation principles .....	3
2.4 Classification of compressor machines by operation principles .....	5
2.5 Design classes of compressor machines .....	6
3 Functional classes of the compressor equipment, terms and definitions .....	22
3.1 General .....	22
3.2 Basic functional classes of compressor machines .....	23
3.3 Formation principles of derivative functional classes for compressor machines .....	27
3.4 Functional classes of compressor apparatuses .....	32
4 Design classes of the aggregated compressor equipment, terms and definitions .....	34
4.1 General .....	34
4.2 Design classes of geared mechanical compressors .....	39
4.3 Design classes of driver-compressors .....	40
4.4 Design classes of geared driver-compressors .....	46
4.5 Design and service-duty classes of compressor plants .....	48
4.6 Design classes of packaged compressor plants .....	51
Annex A (informative) Design, functional and service-duty classification .....	54
Bibliography .....	59