

ISO 917:1989-09 (E)

Testing of refrigerant compressors

Contents	Page
1 Scope and field of application	1
2 References	1
3 Definitions	1
Section one: Determination of refrigerating capacity and of Volumetric efficiency	
4 General procedure.....	2
5 Basic test conditions and deviations	3
6 Basis of calculations	3
7 Test methods	4
8 Method A: Secondary fluid calorimeter	5
9 Method B: Flooded system refrigerant calorimeter	5
10 Method C: Dry system refrigerant calorimeter	7
11 Methods D1 and D2: Refrigerant vapour flowmeter	8
12 Method F: Refrigerant liquid quantity using a flowmeter.....	9
13 Method G: Water-cooled condenser.....	9
14 Method J: Refrigerant vapour cooling	10
15 Method K: Calorimeter in compressor discharge line.....	11
Section two: Determination of the power, isentropic efficiency and coefficient of Performance	
16 General procedure.....	19
17 Determination of the power input	19
18 Determination of the isentropic efficiency	19
19 Determination of the coefficient of performance	19
Section three : Reporting of results	
20 Test report.....	20
Annexes	
A Types and calibration of measuring instruments and accuracy of measurement	22
B Symbols used in the text for calculations.....	24
C Estimation of errors.....	26