ISO 12809:2020-01 (E)

Crop protection equipment - Reciprocating positive displacement pumps and centrifugal pumps - Test method

Contents

Page

Foreword ... **iv**

1 Scope ... **1**

2 Normative references ... **1**

3 Terms and definitions ... **1**

4 Accuracy of measurements ... **2**

5 Test liquid ... **3**

6 General test conditions ... **3**
6.1 Environmental conditions ... 3
6.2 Suction pressure ... 3
6.3 Delivery pressure ... 3
6.4 Rotating speed ... 3
6.5 Flow-rate ... 3
6.6 Power consumption ... 3

7 Test methods ... **4**
7.1 General ... 4
7.2 Stand-alone pump ... 4
7.2.1 Test bench ... 4
7.2.2 Installation of pump ... 6
7.2.3 Reference suction pressure ... 6
7.2.4 Flow-rate at the reference suction pressure ... 7
7.2.5 Flow-rate at variable suction pressure ... 7
7.2.6 Power consumption ... 7
7.2.7 Priming capacity — Without re-circulation ... 8
7.2.8 Priming capacity — With re-circulation ... 9
7.2.9 Wear test ... 10
7.3 Pump installed on the sprayer ... 11
7.3.1 General ... 11
7.3.2 Flow-rate ... 11
7.3.3 Priming capacity ... 12

8 Test report ... **13**

Annex A (informative) **Examples of test results for stand-alone pumps** ... **14**

Annex B (informative) **Examples of test results for pumps installed on the sprayer** ... **20**