

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