Responsibility and recognition



Performing competent authority:

Julius Kühn-Institute (Germany) Institute for Application Techniques in Plant Protection Messeweg 11-12 D-38104 Braunschweig

This test is recognized by the ENTAM members:



BLT- Francisco Josephinum, Wieselburg (Austria)

BLT-Prot.Nr.051/11



AU/DAE - University of Aarhus - Department of Agricultural Engineering Sciences (Denmark) 2011-18

AU/DAE/ENTAM



Cemagref - Institut de recherche pour l'ingénierie CEMAGREF/ENT/11/043 de l'agriculture et de l'environnement



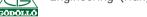
I.A.M.C. Institute of Agricultural Machinery and Constructions (Greece)

ΛE/155/01/ZZ



HIAE Hungarian Institute of Agricultural Engineering (Hungary)

D-58/2011



ENAMA Ente Nazionale per la Meccanizzazione

di Agricola (Italy)

ENTAM "Rapporto prova prestazionale"

12/2011



PIMR - Przemyslowy Instytut Maszyn Rolniczych Industrial Institute of Agricultural

Engineering (Poland)

PIMR-79/ENTAM/11



CMA Generalitat de Catalunya Centre de Mecanització Agrària (CMA) (Spain) EB 014/11





ENTAM - Test Report



Trade mark: Lechler

Model: **IDKT 120-05 POM**

Equipment type: hydraulic nozzle, double flat spray

Test report: D - 1884(V2)

Field of application: Field crop spraying Pressure range: 1.0 - 6.0 bar tested

Standard working height: 50 cm (40 cm - 60 cm tested)

Manufacturer:

Lechler GmbH Ulmer Strasse 128 72555 Metzingen

Germany

July 2011

Test results

This nozzle has been tested without accessories.

This nozzle is appropriate for the use of spraying field crops, grassland, vegetables and ornamental plants with a liquid pressure of 1.0 - 6.0 bar.

The front page image of this report shows the demountable nozzle parts (left side) and the assembled nozzle in a 90° twisted position (right side).

- The cross distribution CV¹¹ is between 2.2 % (2.0 bar) and 6.7 % (1.0 bar) for the tested pressure range 1.0 6.0 bar at a standard working height of 50 cm. For a pressure of 3.0 bar, the CV varies from 2.4 % (40 cm) to 3.8 % (60 cm). The maximum allowed CV for one working height and one pressure (specified by the manufacturer) is 7 %, for all heights and pressures is 9 %.
- The max. deviation between the measured single nozzle flow rate and the flow rate table is between -4.9 % (at 6 bar) and 5 % (at 1.5 bar). The maximum allowed deviation is 5 %.
- The max. deviation of the single nozzle flow rates from the mean flow rate is between -4.6 % and 2.1 %.
- The nozzle fulfils the discharge rate requirement of the color code according ISO 10625 (color code: Nut brown, 2.0 l/min at 3 bar). See tab.1.

Free download of the test report under: www.ENTAM.net

or: www.jki.bund.de

Test results

Pressure (bar)	Discharge rate without accessories (I/min)	droplet size 2)
1.5	1.43	very coarse
3.0	2.01	very coarse
6.0	2.78	coarse

tab.1: Discharge rate and droplet size depending on liquid pressure.

- 1) on a spray boom with 50 cm nozzle distance
- 2) according BCPC scheme (additional information)

Additional information

The tested nozzles (24) were picked out at random of a stock of 200 nozzles. Testing takes place according to the Technical Instructions for ENTAM-Tests of Spray nozzles, rel.1.

This procedure was developed by the competent testing authorities of the European countries participating in ENTAM and is based on the ISO 5682 standard: "Equipment for crop protection - Spraying equipment; Part 1 Test methods for sprayer nozzles" and on EN 12761 standard: "Agricultural and forestry machinery - Sprayers and liquid fertilizer distributors - Environmental protection; Part 2". This test is only a technical performance test which takes place without an accompanying field test. The test results apply only to the tested appurtenances of the sprayer. Statements on the behaviour of different appurtenances cannot be derived from these results.