

P A E Test Report (test conducted according to EN-16122 series) Inspection ID No.

Pre-Inspection requirements have been compiled with.

Inspection Date:		(dd-mm-yyyy)	Name:		
Inspection Place:			Address:		
Inspector Name:					
User Category:					
Details:					
Area of use:			County:		
Details:			Email Address:		
Contractor:			Mobile Number:		
Machine details:			Pump Details:		
Machine manufacturer:			Pump Serial No:		
Details:			Pump Type:		
Machine type:			Details:		
Details:			Claimed capacity		Litres/minute
Model:			@pressure		Bar
Construction Year:			Measured pump capacity		Litres/minute
Machine Serial No:			@pressure		Bar
Tank volume:		Litres	Agitation:		
Chemical Induction Hopper present Y/N:			Details:		
Pesticide Container Cleaning present Y/N:			Spray Boom Details:		
Other Cleaning Equipment Y/N:			Working width:		Metres
Spray Gun/Lance Fitted Y/N:			No. of sections:		
Blower Fitted Y/N:			Individual Boom Section Y/N:		
Water Filling Device Y/N:			Compensative returns Y/N:		
			Nozzle spacing:		Centimetres
			Nozzle Details:		
			No of Nozzles per set:		

Pressure Gauge Details:

Master Gauge Pressure:	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
Test Gauge Pressure (increasing):									
Test Gauge Pressure (decreasing):									

Nozzles:

	Manufacturer	Type	Spray angle/code	Coefficient of variation (%)
1				
2				
3				
4				
5				

Ref No	Requirement	Result	Remark
2.1	Capacity of Pump		

2.2	Pulsations(<10% working pressure)		
2.3	Air chamber (if applicable)		
2.4	Leakages - from pump		
3.1	Visible recirculation (half filled tank)		
4.1	Leakages - from spray tank		
4.2	Strainer		
4.3	Pressure compensation - in tank lid		
4.4	Level Indicator		
4.5	Emptying		
4.6	Non-return valve on water filling device		
4.7	Suction side filter present		
4.8	Chemical induction hopper working and no leakages (if present)		
4.9	Grating (<20mm)		
4.10	Can cleaning device (if present)		
4.11	Other cleaning equipment (if present)		
5.1	Function - of controls		
5.2	Leakages - from controls		
5.3	Operation of controls		
5.4	Pressure gauge - readability		
5.5	Pressure gauge - marking		
5.6	Pressure gauge - diameter		
5.7	Pressure gauge - accuracy		
5.8	Pressure adjusting devices		
5.9	Other measuring devices		
5.10	All nozzles on/off simultaneously		
5.11	Individual boom sections on/off		
6.1	Leakages - from pipes and hoses		
6.2	Bending, abrasion on spray lines		
7.1	Pressure filter presence		
7.2	Filter isolating device		
7.3	Filters inserts changeability		
8.1	Stability, straightness		
8.2	Symmetry		
8.3	Automatic resetting		
8.4	Nozzle spacing, orientation		
8.5	Nozzle height (10cm or 0.5%)		
8.6	Spraying and dripping on machine parts		
8.7	Prevention of nozzle damage		
8.8	Height adjustment - where fitted		
8.9	Damping/Slope compensation/Stabilization		
8.10	Blower system functional and adjustable		

8.11	Spray gun/lance trigger functional		
8.12	Spray gun/lance flow rate and angle adjustable		

Measurement of pressure variation (using 1 reference pressure at the inlet of boom section)						Measurement of pressure drop at end of each boom section (using at least 2 reference pressures)											
Claimed Pressure			Bar			Claimed Pressure			Bar(P1)			Bar(P2)					
Section	Nozzle location	Pressure measured with all sections open (PO)	Pressure measured as sections closed one by one	Calculation 9.1 - Compensative returns at section inlets	Calculation 9.3 - pressure distribution at section inlets	Section	Nozzle location	Pressure measured with all sections open (P1)	Pressure measured with all sections open (P2)	Calculation 9.2 - Pressure drop at end of sections	Calculation 9.4 - pressure distribution within sections	Section	Nozzle location	Pressure measured with all sections open (P1)	Pressure measured with all sections open (P2)	Calculation 9.2 - Pressure drop at end of sections	Calculation 9.4 - pressure distribution within sections

Ref No	Requirement	Result	Remark
9.1	Compensative returns at section inlets (+/- 10%)		
9.2	Pressure drop at end of sections (< 10%, 2 test pressures)		
9.3	Pressure distribution at section inlets (+/- 10% of average pressure)		
9.4	Pressure distibution within sections (pressure drop <10%)		

Manufacturer's claimed flow rate:

Claimed flow rate					
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Nozzle location	Flow rate (litres/min)	Flow rate (litres/min)	Flow rate (litres/min)	Flow rate (litres/min)	Flow rate (litres/min)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
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20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

Ref No	Requirement	Result	Remark
10.1	Nozzles - Identical		
10.2	Nozzles - Dripping		
10.3	Deviation of flow rate from nominal flow rate ($\leq 10\%$)		
10.4	Coefficient of variation $< 10\%$		
10.5	Max deviation from mean value $\leq 20\%$		

