



NOTES

1. USE A 3/4" x 1/4" PIPE BUSHING. DRILL THE 1/4" THREAD OUT LONG A #116" DRILL. BUILT THE AGITATOR PIPE & CAP IN ACCORDANCE WITH NOTE 2, INSERT 1 & THE SKETCHES. PLACE THE AGITATOR PIPE IN THE DRUM THROUGH THE 3/4" BUNG HOLE. SLIP BUSHING OVER AGITATOR & TIGHTEN BUSHING IN DRUM. ALIGN AGITATOR AIMING ONE HOLE ACROSS CENTER & TWO AROUND TANK SIDES. SEAL WELD 1/4" PIPE TO BUSHING.
2. PLACE 1/4" CAP FIRMLY ON PIPE. DRILL THREE 3/32" HOLES, 90 DEGREES APART THROUGH 1/4" CAP & PIPE.
3. FOR THE HORIZONTAL DRUM DRILL HOLES 12" APART & 6" FROM EACH END OF THE PIPE. DRILL HOLES ON THE SAME SIDE OF PIPE & AIM ALONG SIDE OF DRUM.

ABBREVIATIONS	USEFUL DATA	FORMULAS
G.P.A. - GALLONS PER ACRE	ONE ACRE = 43,560 SQUARE FEET	$G.P.A. = \frac{5940}{M.R.H. \times W}$
G.P.M. - GALLONS PER MINUTE	ONE NILE = 5,280 FEET	$G.P.M. = \frac{G.P.A. \times M.P.H. \times W}{3940}$
G.P.H. - GALLONS PER HOUR	ONE GALLON = 4 QUARTS	
M.P.H. - MILES PER HOUR	8 PINTS	
N.P.T. - TAPERED PIPE THREAD	120 OUNCES	
P.S.I. - POUNDS PER SQUARE INCH		

ITEM #	DESCRIPTION OF ITEM	1 ROW		2 ROWS		3 ROWS		ACTUAL PRICE
		#	PRICE	#	PRICE	#	PRICE	
1	SUCTION STRAINER, 50 MESH (3/4" I.D. HSW, MOWEL SCREEN)	1	6.85	1	6.85	1	6.85	
2	3/4" NPT PIPE TO 3/4" HOSE CONNECTION, NYLON	8	1.60	8	1.60	8	1.60	
3	3/4" HOSE CLAMP	9	2.25	9	2.15	9	2.25	
4	3/4" RUBBER HOSE	30'	7.50	30'	7.50	30'	7.50	
5	HI-RESIST, RUBBER ROLLER PUMP (SEE REQ. PUMP CAP. BELOW)	1	51.50	1	61.50	1	61.50	
6	3/4" GALV. TEE	1	.50	1	.50	1	.50	
7	3/4" GALV. PIPE NIPPLE, 2 LONG	1	.30	1	.30	1	.30	
8	3/4" VALVE, GLOBE	1	2.00	1	2.00	1	2.00	
9	1/4" PIPE, 30" LONG, THREADED ONE END, WITH 1/4" CAP	1	1.00	1	1.00	1	1.00	
10	DIRECT VALVE (NO. 35-1, 1/2" NPT SPRAY LINE CONN.)	1	9.80	2	19.60	3	29.40	
11	DIAPHRAGM PRESSURE RELIEF VALVE (BAGD, 3/4", NYLON)	1	10.90	1	10.90	1	10.90	
12	PRESSURE GAGE	1	5.00	1	5.00	1	5.00	
13	1/2" RUBBER HOSE	10'	2.50	15'	3.75	20'	5.00	
14	1/2" NPT PIPE TO 1/2" HOSE CONNECTION, NYLON	1	.20	1	.20	1	.20	
15	1/2" HOSE CLAMP	2	.50	6	1.50	7	1.75	
16	NYLON NOZZLE ASSEMBLY TO CLAMP ON 1/2" PIPE BOOM (111-1/2-540D-NY)	1	1.84	2	3.68	2	3.68	
17	NYLON NOZZLE ASSEMBLY TO CLAMP ON 1/2" PIPE BOOM (112-1/2-540D-NY)	D	0	1	1.84	1	1.84	
18	HARDENED STAINLESS STEEL OR NYLON TIPS (BOOLES TO BOOLE)	1	2.15	2	4.30	3	6.45	
19	1/2" NYLON HOSE TEE	0	1	.25	1	.25		
20	3/4" x 1/4" PIPE BUSHING	1	.35	1	.35	1	.35	
21	DRUM OR TANK	1	1	1	1	1	1	
22	HARDENED STAINLESS STEEL OR NYLON TIPS (BOOLES TO BOOLE)	EA	2.15					
23	SINGLE SWIVEL (TYPE 7620 COMPACT)	EA	1.48					

* SPRAYING SYSTEMS CO. OR EQUIVALENT

BAND SPRAYING WITH EVEN SPRAY TIPS

BAND WIDTH	APPROX. SPRAY HEIGHT, 80" TIPS	GAL. PER FIELD ACRE BASED ON 40' ROW SPACING (NOZZLE SPACING)					
0"	5"	2 MPH	3 MPH	4 MPH	5 MPH	7.5 MPH	10 MPH
0"	5"	1.0	1.5	2.0	2.5	3.8	5.0
10"	6"	1.5	2.2	3.0	3.8	5.7	7.5
12"	7"	2.0	3.0	4.0	5.0	7.5	10.0
14"	8"	2.5	3.8	5.0	6.2	9.3	12.5

REQUIRED PUMP CAPACITY

- ALLOWANCE FOR WEAR + 2.00 GPM
 - ALLOWANCE FOR PRESSURE CONTROL + 2.00 GPM
 - BOOM CAPACITY (TIP CAP. x NO. OF TIPS) + GPM
 - HYDRAULIC AGITATION (2.25 GRM. PER 50 GAL TANK) + GPM
- REQUIRED PUMP CAPACITY = GPM**



HERBICIDE SPRAYER

ENGINEER W. A. HADDEN	SCALE
DRAWN BY W. A. HADDEN	SHEET 1 OF 1
TRACED BY	DATE APR. 3 '61 NO. 38-16

Disclaimer

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