

IB International Pty Ltd OCMIS HARD HOSE PERFORMANCE CHART

MAY 2005

MODEL : 50 / 170 mt. HOSE WALL 3.7mm

NOZ SIZE	NOZ	GUN RADIUS	WETTED WIDTH	CAPACITY			AREA PER RUN	mm = Application rate per irrigated run																							
				Lt/Sec	Lt/Min	M3/h		10 mm	15 mm	20 mm	25 mm	30 mm	35 mm	40 mm	50 mm	60 mm															
mm	bar	mt	x 80%				Ha.	Travel speed & pressure required at the machine																							
								mth	bar	mth	bar	mth	bar	mth	bar	mth	bar	mth	bar	mth	bar	mth	bar	mth	bar						
10	2.0	18	29	2.00	120	7.20	0.51	25	3.6	17	3.5	13	3.4	10	3.4	8	3.4	7	3.3	6	3.3	5	3.3	4	3.3						
	3.0	21	34	2.43	146	8.76	0.61	26	5.0	17	4.9	13	4.8	10	4.8	9	4.8	7	4.7	7	4.7	5	4.7	4	4.7						
	4.0	23	37	2.82	169	10.14	0.67	28	6.4	18	6.3	14	6.2	11	6.2	9	6.2	8	6.1	7	6.1	6	6.1	5	6.1						
12	2.0	20	32	2.65	159	9.54	0.58	30	4.3	20	4.2	15	4.1	12	4.1	10	4.1	9	4.0	7	4.0	6	4.0	5	4.0						
	3.0	22	35	3.23	194	11.64	0.64	33	5.9	22	5.8	17	5.7	13	5.7	11	5.7	9	5.6	8	5.6	7	5.6	6	5.6						
	4.0	25	40	3.73	224	13.44	0.74	34	7.5	22	7.4	17	7.3	13	7.3	11	7.3	10	7.2	8	7.2	7	7.2	6	7.2						
14	2.0	21	34	3.25	195	11.70	0.61	35	4.9	23	4.8	17	4.7	14	4.7	12	4.7	10	4.6	9	4.6	7	4.6	6	4.6						
	3.0	22	35	3.82	229	13.74	0.64	39	6.6	26	6.5	20	6.4	16	6.4	13	6.4	11	6.3	10	6.3	8	6.3	7	6.3						
	4.0	24	38	4.18	251	15.06	0.71	39	8.1	26	8.0	20	7.9	16	7.9	13	7.9	11	7.8	10	7.8	8	7.8	7	7.8						
	5.0	26	42	4.83	290	17.40	0.77	42	10.1	28	10.0	21	9.9	17	9.9	14	9.9	12	9.8	10	9.8	8	9.8	7	9.8						

N.B. These tables are merely indicative because they have been worked out through a mathematical formula and according to average working conditions . Consequently Ocmis and IB International decline any responsibilities deriving from their application .

TO MULTIPLE BY :

FROM	Kpa	M. HEAD	BAR	PSI	ATMS
Kpa	1	0.102	0.01	0.145	1
MET.	9.804	1	0.098	1.42	0.098
BAR	100	10.20	1	14.5	1
PSI	6.895	0.704	0.069	1	0.069
ATMS	100	10.33	1.0	14.7	1

1 ACRE = 0.405 HECT.
 1 Ha = 2.47 ACRES
 10,000 M² = 1 HECTARE
 100 Ha = 1 Km²

Imp. 1 GPM = 1.2 US. G.P.M.
 = 4.546 L.P.M.
 = 0.076 L.P.S.
 = 0.273 M³P.H.

1 L.P.M. = 0.219 Imp.G.P.M.
 = 0.06 M³P.H.
 1 L.P.S. = 13.19 Imp. G.P.H.
 = 3.6 M³P.H.