

IB International Pty Ltd OCMIS HARD HOSE PERFORMANCE CHART

MAY 2005

MODEL : 63 / 100 mt. HOSE WALL 4.5mm

NOZ	NOZ	GUN	WETTED	CAPACITY			AREA	mm = Application rate per irrigated run																
				SIZE	RADIUS	WIDTH		Lt/Sec	Lt/Min	M3/h	PER	10 mm		15 mm		20 mm		25 mm		30 mm		35 mm		40 mm
			mt				RUN	Travel speed & pressure required at the machine																
mm	bar	mt	x 80%				Ha.	mth	bar	mth	bar	mth	bar	mth	bar	mth	bar	mth	bar	mth	bar	mth	bar	
14	2.0	25	40	3.83	230	13.80	0.50	35	3.6	23	3.2	17	3.1	14	3.1	12	3.1	10	3.1					
	3.0	29	46	4.67	280	16.80	0.60	36	4.9	24	4.5	18	4.4	14	4.4	12	4.4	10	4.4					
	4.0	32	51	5.42	325	19.50	0.68	38	6.1	25	5.7	19	5.6	15	5.6	13	5.6	11	5.6					
	5.0	34	54	6.07	364	21.84	0.73	40	7.4	27	7.0	20	6.9	16	6.9	13	6.9	11	6.9					
16	2.0	27	43	4.70	282	16.92	0.55	39	3.9	26	3.5	20	3.4	16	3.4	13	3.4	11	3.4	10	3.3			
	3.0	31	50	5.73	344	20.64	0.65	42	5.3	28	4.9	21	4.8	17	4.8	14	4.8	12	4.8	10	4.7			
	4.0	34	54	6.65	399	23.94	0.73	44	6.6	29	6.2	22	6.1	18	6.1	15	6.1	13	6.1	11	6.0			
	5.0	37	59	7.43	446	26.76	0.81	45	8.0	30	7.6	23	7.5	18	7.5	15	7.5	13	7.5	11	7.4			
18	2.0	28	45	5.72	343	20.58	0.57	46	4.2	31	3.8	23	3.7	18	3.7	15	3.7	13	3.7	11	3.6	9	3.6	
	3.0	33	53	7.23	434	26.04	0.70	49	5.9	33	5.5	25	5.4	20	5.4	16	5.4	14	5.4	12	5.3	10	5.3	
	4.0	36	58	8.43	506	30.36	0.78	53	7.5	35	7.1	26	7.0	21	7.0	18	7.0	15	7.0	13	6.9	11	6.9	
20	2.0	29	46	6.85	411	24.66	0.60	53	4.7	35	4.3	27	4.2	21	4.2	18	4.2	15	4.2	13	4.1	11	4.1	
	3.0	34	54	8.67	520	31.20	0.73	57	6.6	38	6.2	29	6.1	23	6.1	19	6.1	16	6.1	14	6.0	11	6.0	
	4.0	38	61	10.10	606	36.36	0.84	60	8.4	40	8.0	30	7.9	24	7.9	20	7.9	17	7.9	15	7.8	12	7.8	

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 M ²	= 1 HECTARE
100 Ha	= 1 Km ²

Imp. 1 GPM	= 1.2 US. G.P.M.
	= 4.546 L.P.M.
	= 0.076 L.P.S.
	= 0.273 M ³ P.H

1 L.P.M.	= 0.219 Imp.G.P.M.
	= 0.06 M ³ P.H
1 L.P.S.	= 13.19 Imp. G.P.H.
	= 3.6 M ³ P.H