

# IB International Pty Ltd OCMIS HARD HOSE PERFORMANCE CHART

MAY 2005

MODEL : 63 / 110 mt. HOSE WALL 4.5mm

NOZ SIZE	NOZ	GUN RADIUS	WETTED WIDTH mt	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								
								Travel speed & pressure required at the machine															
								Ha.		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<sup>2</sup> = 1 HECTARE  
 100 Ha = 1 Km<sup>2</sup>

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

1 L.P.M. = 0.219 Imp.G.P.M.  
 = 0.06 M<sup>3</sup>.P.H  
 1 L.P.S. = 13.19 Imp. G.P.H.  
 = 3.6 M<sup>3</sup>.P.H