

# IB International Pty Ltd OCMIS HARD HOSE PERFORMANCE CHART

MAY 2005

MODEL : 63 / 280 mt. HOSE WALL 4.7mm

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	
14	2.0	25	40	3.83	230	13.80	1.18	35	4.6	23	4.2	17	4.2	14	4.1	12	4.1							
	3.0	29	46	4.67	280	16.80	1.39	36	6.3	24	5.9	18	5.9	14	5.8	12	5.8	10	5.8					
	4.0	32	51	5.42	325	19.50	1.55	38	8.0	25	7.6	19	7.6	15	7.5	13	7.5	11	7.5					
	5.0	34	54	6.07	364	21.84	1.65	40	9.7	27	9.3	20	9.3	16	9.2	13	9.2	11	9.2					
RECOMMENDED GEAR SELECTION								3		2		2		1		1		1						
16	2.0	27	43	4.70	282	16.92	1.28	39	5.3	26	4.9	20	4.9	16	4.8	13	4.8	11	4.8	10	4.8			
	3.0	31	50	5.73	344	20.64	1.49	42	7.3	28	6.9	21	6.9	17	6.8	14	6.8	12	6.8	10	6.8			
	4.0	34	54	6.65	399	23.94	1.65	44	9.3	29	8.9	22	8.9	18	8.8	15	8.8	13	8.8	11	8.8			
RECOMMENDED GEAR SELECTION								3		2		2		1		1		1		1				
18	2.0	28	45	5.72	343	20.58	1.34	46	6.3	31	5.9	23	5.9	18	5.8	15	5.8	13	5.8	11	5.8	9	5.7	
	3.0	33	53	7.23	434	26.04	1.60	49	9.0	33	8.6	25	8.6	20	8.5	16	8.5	14	8.5	12	8.5	10	8.4	
RECOMMENDED GEAR SELECTION								3		2		2		2		1		1		1		1		
20	3.0	35	56	7.20	432	25.92	1.71	46	8.9	31	8.5	23	8.5	19	8.4	15	8.4	13	8.4	12	8.4	9	8.3	8
RECOMMENDED GEAR SELECTION								3		3		2		2		2		1		1		1		1

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.	1 L.P.M. = 0.219 Imp.G.P.M.
= 4.546 L.P.M.	= 0.06 M <sup>3</sup> P.H
= 0.076 L.P.S.	1 L.P.S. = 13.19 Imp. G.P.H.
= 0.273 M <sup>3</sup> P.H	= 3.6 M <sup>3</sup> P.H