

IB International Pty Ltd OCMIS HARD HOSE PERFORMANCE CHART

MAY 2005

MODEL : 63 / 250 mt. HOSE WALL 4.7mm

NOZ SIZE	NOZ RADIUS	GUN WIDTH	WETTED mt x 80%	CAPACITY			AREA PER RUN Ha.	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										
								Travel speed & pressure required at the machine																		
mm	bar	mt						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	1.06	35	4.5	23	4.1	17	4.1	14	4.0	12	4.0									
	3.0	29	46	4.67	280	16.80	1.25	36	6.1	24	5.7	18	5.7	14	5.6	12	5.6	10	5.6							
	4.0	32	51	5.42	325	19.50	1.39	38	7.7	25	7.3	19	7.3	15	7.2	13	7.2	11	7.2							
	5.0	34	54	6.07	364	21.84	1.49	40	9.3	27	8.9	20	8.9	16	8.8	13	8.8	11	8.8							
RECOMMENDED GEAR SELECTION								3		2		2		1		1		1								
16	2.0	27	43	4.70	282	16.92	1.15	39	5.1	26	4.7	20	4.7	16	4.6	13	4.6	11	4.6	10	4.6					
	3.0	31	50	5.73	344	20.64	1.34	42	7.0	28	6.6	21	6.6	17	6.5	14	6.5	12	6.5	10	6.5					
	4.0	34	54	6.65	399	23.94	1.49	44	8.8	29	8.4	22	8.4	18	8.3	15	8.3	13	8.3	11	8.3					
RECOMMENDED GEAR SELECTION								3		2		2		1		1		1		1						
18	2.0	28	45	5.72	343	20.58	1.20	46	5.9	31	5.5	23	5.5	18	5.4	15	5.4	13	5.4	11	5.4	9	5.3			
	3.0	33	53	7.23	434	26.04	1.44	49	8.4	33	8.0	25	8.0	20	7.9	16	7.9	14	7.9	12	7.9	10	7.8			
	4.0	36	58	8.43	506	30.36	1.59	53	10.8	35	10.4	26	10.4	21	10.3	18	10.3	15	10.3	13	10.3	11	10.2			
RECOMMENDED GEAR SELECTION								3		2		2		2		1		1		1		1				
20	2.0	29	46	6.85	411	24.66	1.25	53	7.0	35	6.6	27	6.6	21	6.5	18	6.5	15	6.5	13	6.5	11	6.4	9	6.4	
	3.0	34	54	8.67	520	31.20	1.49	57	10.1	38	9.7	29	9.7	23	9.6	19	9.6	16	9.6	14	9.6	11	9.5	10	9.5	
	4.0	38	61	10.10	606	36.36	1.69	60	13.0	40	12.6	30	12.6	24	12.5	20	12.5	17	12.5	15	12.5	12	12.4	10	12.4	
RECOMMENDED GEAR SELECTION								3		2		2		2		1		1		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 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