

IB International Pty Ltd OCMIS HARD HOSE PERFORMANCE CHART

MAY 2005

MODEL : 63 / 300 mt. HOSE WALL 5 mm

NOZ	NOZ	GUN	WETTED	CAPACITY			AREA	mm = Application rate per irrigated run																
				Lt/Sec	Lt/Min	M3/h		PER	10 mm	15 mm	20 mm	25 mm	30 mm	35 mm	40 mm	50 mm								
SIZE	RADIUS	WIDTH	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			
14	2.0	25	40	3.83	230	13.80	1.26	35	4.8	23	4.4	17	4.4	14	4.3	12	4.3	10	4.3					
	3.0	29	46	4.67	280	16.80	1.48	36	6.5	24	6.1	18	6.1	14	6.0	12	6.0	10	6.0					
	4.0	32	51	5.42	325	19.50	1.65	38	8.2	25	7.8	19	7.8	15	7.7	13	7.7	11	7.7					
	5.0	34	54	6.07	364	21.84	1.76	40	9.9	27	9.5	20	9.5	16	9.4	13	9.4	11	9.4	10	9.4			
RECOMMENDED GEAR SELECTION								3		2		1		1		1		1		1				
16	2.0	27	43	4.70	282	16.92	1.37	39	5.5	26	5.1	20	5.1	16	5.0	13	5.0	11	5.0	10	5.0			
	3.0	31	50	5.73	344	20.64	1.59	42	7.5	28	7.1	21	7.1	17	7.0	14	7.0	12	7.0	10	7.0			
	4.0	34	54	6.65	399	23.94	1.76	44	9.6	29	9.2	22	9.2	18	9.1	15	9.1	13	9.1	11	9.1			
RECOMMENDED GEAR SELECTION								3		2		2		1		1		1		1		1		
18	2.0	28	45	5.72	343	20.58	1.42	46	6.5	31	6.1	23	6.1	18	6.0	15	6.0	13	6.0	11	6.0	9	5.9	
	3.0	33	53	7.23	434	26.04	1.71	49	9.3	33	8.9	25	8.9	20	8.8	16	8.8	14	8.8	12	8.8	10	8.7	
	4.0	36	58	8.43	506	30.36	1.88	53	12.0	35	11.6	26	11.6	21	11.5	18	11.5	15	11.5	13	11.5	11	11.4	
RECOMMENDED GEAR SELECTION								3		2		2		2		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. HEA	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 M³.P.H

1 L.P.M. = 0.219 Imp.G.P.M.
 = 0.06 M³.P.H
 1 L.P.S. = 13.19 Imp. G.P.H.
 = 3.6 M³.P.H