

IB International Pty Ltd OCMIS HARD HOSE PERFORMANCE CHART

MAY 2005

MODEL : 140 / 400 mt. HOSE WALL 11 mm

NOZ SIZE	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	60 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				
30	3.0	48	77	16.23	974	58.44	3.36	76	4.7	51	4.5	38	4.5	30	4.4	25	4.3	22	4.3	19	4.3	15	4.2	13	4.2		
	4.0	52	83	18.78	1127	67.62	3.68	81	5.9	54	5.7	41	5.7	33	5.6	27	5.5	23	5.5	20	5.5	16	5.4	14	5.4		
	4.5	53	85	19.92	1195	71.70	3.76	85	6.5	56	6.3	42	6.3	34	6.2	28	6.1	24	6.1	21	6.1	17	6.0	14	6.0		
	5.0	56	90	21.00	1260	75.60	4.00	84	7.1	56	6.9	42	6.9	34	6.8	28	6.7	24	6.7	21	6.7	17	6.6	14	6.6		
	5.5	57	91	22.00	1320	79.20	4.08	87	7.7	58	7.5	43	7.5	35	7.4	29	7.3	25	7.3	22	7.3	17	7.2	14	7.2		
RECOMMENDED GEAR SELECTION								2.2		3.1		3.1		1.2		1.2		1.2		2.1		2.1		1.1			
32	4.0	54	86	21.37	1282	76.92	3.84	89	6.1	59	5.9	45	5.9	36	5.8	30	5.7	25	5.7	22	5.7	18	5.6	15	5.6		
	4.5	55	88	22.65	1359	81.54	3.92	93	6.7	62	6.5	46	6.5	37	6.4	31	6.3	26	6.3	23	6.3	19	6.2	15	6.2		
	5.0	58	93	23.88	1433	85.98	4.16	93	7.4	62	7.2	46	7.2	37	7.1	31	7.0	26	7.0	23	7.0	19	6.9	15	6.9		
	5.5	60	96	25.02	1501	90.06	4.32	94	8.0	63	7.8	47	7.8	38	7.7	31	7.6	27	7.6	23	7.6	19	7.5	16	7.5		
	6.0	62	99	26.17	1570	94.20	4.48	95	8.6	63	8.4	47	8.4	38	8.3	32	8.2	27	8.2	24	8.2	19	8.1	16	8.1		
RECOMMENDED GEAR SELECTION								3.2		3.1		3.1		1.2		1.2		1.2		2.1		2.1		1.1			
34	4.5	57	91	25.60	1536	92.16	4.08	101	7.0	67	6.8	51	6.8	40	6.7	34	6.6	29	6.6	25	6.6	20	6.5	17	6.5		
	5.0	59	94	26.98	1619	97.14	4.24	103	7.7	69	7.5	51	7.5	41	7.4	34	7.3	29	7.3	26	7.3	21	7.2	17	7.2		
	5.5	61	98	28.27	1696	101.76	4.40	104	8.3	70	8.1	52	8.1	42	8.0	35	7.9	30	7.9	26	7.9	21	7.8	17	7.8		
	6.0	64	102	29.57	1774	106.44	4.65	104	9.0	69	8.8	52	8.8	42	8.7	35	8.6	30	8.6	26	8.6	21	8.5	17	8.5		
	7.0	68	109	31.88	1913	114.78	4.98	105	10.2	70	10.0	53	10.0	42	9.9	35	9.8	30	9.8	26	9.8	21	9.7	18	9.7		
RECOMMENDED GEAR SELECTION								3.2		2.2		3.1		1.2		1.2		1.2		2.1		2.1		2.1			
36	4.5	58	93	28.68	1721	103.26	4.16	111	7.4	74	7.2	56	7.2	45	7.1	37	7.0	32	7.0	28	7.0	22	6.9	19	6.9		
	5.0	61	98	30.23	1814	108.84	4.40	112	8.0	74	7.8	56	7.8	45	7.7	37	7.6	32	7.6	28	7.6	22	7.5	19	7.5		
	5.5	63	101	31.68	1901	114.06	4.57	113	8.7	75	8.5	57	8.5	45	8.4	38	8.3	32	8.3	28	8.3	23	8.2	19	8.2		
	6.0	66	106	33.13	1988	119.28	4.82	113	9.4	75	9.2	56	9.2	45	9.1	38	9.0	32	9.0	28	9.0	23	8.9	19	8.9		
RECOMMENDED GEAR SELECTION								3.2		2.2		3.1		3.1		1.2		1.2		1.2		1.2		2.1		2.1	
38	4.5	63	101	33.70	2022	121.32	4.57	120	8.0	80	7.8	60	7.8	48	7.7	40	7.6	34	7.6	30	7.6	24	7.5	20	7.5		
	5.0	65	104	36.87	2212	132.72	4.73	128	8.9	85	8.7	64	8.7	51	8.6	43	8.5	36	8.5	32	8.5	26	8.4	21	8.4		
	5.5	68	109	36.93	2216	132.96	4.98	122	9.4	81	9.2	61	9.2	49	9.1	41	9.0	35	9.0	31	9.0	24	8.9	20	8.9		
	6.0	72	115	39.83	2390	143.40	5.32	124	10.3	83	10.1	62	10.1	50	10.0	41	9.9	36	9.9	31	9.9	25	9.8	21	9.8		
RECOMMENDED GEAR SELECTION								3.2		2.2		2.2		3.1		3.1		1.2		1.2		2.1		2.1			

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 .