



## Hose Reel Sprinkler Performance Chart

### 1100IRL/450M

PE HOSE: O.D. mm			FIELD-PIPE LENGTH MT					SPEED MT/H		SPEED MT/H		SPEED MT/H		SPEED MT/H		SPEED MT/H		SPEED MT/H		SPEED MT/H		SPEED MT/H		SPEED MT/H			
110			450					10		20		30		40		50		60		70		80		90		100	
nozzle diam mm	nozzle pres bar	theoric throw mt	Flow mc/h	Flow l/min	Flow l/s	Pull to pull dist. mt	Irrigated area per pull Ha	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar
22	2	28.32	25.7	429	7	45.3	2.04	57	2.8	28	3.0	19	3.1	14	3.3	11	3.5	9	3.6	8	3.8	7	4.0	6	4.1	6	4.3
22	3.0	34.68	31.5	525	8.8	55.5	2.50	57	4.1	28	4.2	19	4.4	14	4.6	11	4.7	9	4.9	8	5.1	7	5.2	6	5.4	6	5.6
22	4	40.05	36.4	606	10.1	64.1	2.88	57	5.3	28	5.5	19	5.7	14	5.8	11	6.0	9	6.2	8	6.3	7	6.5	6	6.7	6	6.8
22	5	44.77	40.7	678	11.3	71.6	3.22	57	6.6	28	6.8	19	7.0	14	7.1	11	7.3	9	7.5	8	7.6	7	7.8	6	8.0	6	8.1
22	6	49.05	44.6	743	12.4	78.5	3.53	57	7.9	28	8.1	19	8.2	14	8.4	11	8.6	9	8.7	8	8.9	7	9.1	6	9.2	6	9.4
24	2	29.58	30.6	510	8.5	47.3	2.13	65	3.0	32	3.2	22	3.4	16	3.5	13	3.7	11	3.9	9	4.0	8	4.2	7	4.4	6	4.5
24	3.0	36.22	37.5	625	10.4	58.0	2.61	65	4.4	32	4.6	22	4.7	16	4.9	13	5.1	11	5.2	9	5.4	8	5.6	7	5.7	6	5.9
24	4	41.83	43.3	722	12.0	66.9	3.01	65	5.8	32	6.0	22	6.1	16	6.3	13	6.5	11	6.6	9	6.8	8	7.0	7	7.1	6	7.3
24	5	46.77	48.4	807	13.4	74.8	3.37	65	7.2	32	7.3	22	7.5	16	7.7	13	7.8	11	8.0	9	8.2	8	8.3	7	8.5	6	8.7
24	6	51.23	53.0	884	14.7	82.0	3.69	65	8.5	32	8.7	22	8.9	16	9.0	13	9.2	11	9.4	9	9.5	8	9.7	7	9.9	6	10.0
26	2	30.78	35.9	599	10.0	49.3	2.22	73	3.3	36	3.5	24	3.7	18	3.8	15	4.0	12	4.2	10	4.3	9	4.5	8	4.7	7	4.8
26	3.0	37.70	44.0	733	12.2	60.3	2.71	73	4.8	36	5.0	24	5.2	18	5.3	15	5.5	12	5.7	10	5.8	9	6.0	8	6.2	7	6.3
26	4	43.54	50.8	847	14.1	69.7	3.13	73	6.4	36	6.5	24	6.7	18	6.9	15	7.0	12	7.2	10	7.4	9	7.5	8	7.7	7	7.9
26	5	48.67	56.8	947	15.8	77.9	3.50	73	7.9	36	8.0	24	8.2	18	8.4	15	8.5	12	8.7	10	8.9	9	9.0	8	9.2	7	9.4
26	6	53.32	62.2	1037	17.3	85.3	3.84	73	9.4	36	9.5	24	9.7	18	9.9	15	10.0	12	10.2	10	10.4	9	10.5	8	10.7	7	10.9
28	2	31.95	41.7	695	11.6	51.1	2.30	82	3.7	41	3.9	27	4.0	20	4.2	16	4.4	14	4.5	12	4.7	10	4.9	9	5.0	8	5.2
28	3.0	39.13	51.0	851	14.2	62.6	2.82	82	5.4	41	5.5	27	5.7	20	5.9	16	6.0	14	6.2	12	6.4	10	6.5	9	6.7	8	6.9
28	4	45.18	58.9	982	16.4	72.3	3.25	82	7.1	41	7.2	27	7.4	20	7.6	16	7.7	14	7.9	12	8.1	10	8.2	9	8.4	8	8.6
28	5	50.51	65.9	1098	18.3	80.8	3.64	82	8.7	41	8.9	27	9.1	20	9.2	16	9.4	14	9.6	12	9.7	10	9.9	9	10.1	8	10.2

PE HOSE: O.D. mm			FIELD-PIPE LENGTH MT					SPEED MT/H		SPEED MT/H		SPEED MT/H		SPEED MT/H		SPEED MT/H		SPEED MT/H		SPEED MT/H		SPEED MT/H		SPEED MT/H		SPEED MT/H	
110			450					10		20		30		40		50		60		70		80		90		100	
nozzle diam mm	nozzle pres bar	theoric throw mt	Flow mc/h	Flow l/min	Flow l/s	Pull to pull dist. mt	Irrigated area per pull Ha	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar	rate mm	inlet pres bar
28	6	55.33	72.2	1203	20.0	88.5	3.98	82	10.4	41	10.5	27	10.7	20	10.9	16	11.0	14	11.2	12	11.4	10	11.5	9	11.7	8	11.9
30	2	33.07	47.8	797	13.3	52.9	2.38	90	4.1	45	4.3	30	4.5	23	4.6	18	4.8	15	5.0	13	5.1	11	5.3	10	5.5	9	5.6
30	3	40.50	58.6	977	16.3	64.8	2.92	90	6.0	45	6.2	30	6.4	23	6.5	18	6.7	15	6.9	13	7.0	11	7.2	10	7.4	9	7.5
30	4	46.77	67.7	1128	18.8	74.8	3.37	90	7.9	45	8.1	30	8.2	23	8.4	18	8.6	15	8.7	13	8.9	11	9.1	10	9.2	9	9.4
30	5	52.29	75.6	1261	21.0	83.7	3.76	90	9.8	45	9.9	30	10.1	23	10.3	18	10.4	15	10.6	13	10.8	11	10.9	10	11.1	9	11.3
30	6	57.28	82.9	1381	23.0	91.6	4.12	90	11.6	45	11.8	30	11.9	23	12.1	18	12.3	15	12.4	13	12.6	11	12.8	10	12.9	9	13.1
32	3	41.83	66.7	1111	18.5	66.9	3.01	100	6.8	50	7.0	33	7.1	25	7.3	20	7.5	17	7.6	14	7.8	12	8.0	11	8.1	10	8.3
32	4	48.30	77.0	1283	21.4	77.3	3.48	100	8.9	50	9.1	33	9.2	25	9.4	20	9.6	17	9.7	14	9.9	12	10.1	11	10.2	10	10.4
32	5	54.00	86.1	1434	23.9	86.4	3.89	100	11.0	50	11.2	33	11.3	25	11.5	20	11.7	17	11.8	14	12.0	12	12.2	11	12.3	10	12.5
32	6	59.15	94.3	1571	26.2	94.6	4.26	100	13.1	50	13.2	33	13.4	25	13.6	20	13.7	17	13.9	14	14.1	12	14.2	11	14.4	10	14.6
32	7	63.89	101.8	1697	28.3	102.2	4.60	100	15.1	50	15.3	33	15.5	25	15.6	20	15.8	17	16.0	14	16.1	12	16.3	11	16.5	10	16.6