Since 1981 For Sustainable Future

# DuCaR® Sprinklers Australi

## IRRICRUISER CATALOGUE

Low Cost & High Efficiency Irrigation Systems



IrriCruiser is a new generation soft hose travelling irrigator designed to provide energy efficiency and highest performance. The turbine provides high torque to pull the irrigator and hose along the steel cable even in tough condition.

Using a small tractor or ATV, you can irrigate your 150 acres of field in 7-8 days. IrriCruiser soft hose travelling irrigators can be used for irrigating wide range of crops and various application areas; from agriculture irrigation applications, turf irrigation, dust control application, to mining and industrial applications. They are manufactured in Turkiye and designed specifically for Australian tough land condition.

IrriCruiser travelling irrigators are compact and ergonomic compared to drum irrigation machines, which makes it is very economical and easy to use, move, store and transport long distances compared to drum machines. It requires very low labour requirement, even several travelling irrigators can be easily operated by one man and the labour consists mostly of driving a tractor.

In addition, the continuous movement of the sprinkler and travelling irrigator provide perfect uniformity and even water distribution.

We offer five different models of IrriCruiser soft hose travelling irrigator. which can irrigate up to 100 meters - 150 meters - 200 meters - 300 meters and 400 meters. In addition, we also have IrriCruiser Ultimate for a special order, which is able to irrigate 500-meter-long field at once.

Please contact us to discuss further about your all your agricultural irrigation equipment.

## IRRICRUISER LAWN MASTER TD1000-100

DuCaR® Sprinklers Australia

www.ducarsprinklers.com.au

New Generation Turbine Driven Soft Hose Travelling Irrigator **100m run length - 50m of 25mm hose** 

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## IrriCruiser Lawn Master TD1000-100 RAINFALL AND VELOCITY RELATIONS TABLE

Sprinkler Type:
Hose Diameter and Length:
Traveller Length:

**DuCaR Atom 22** Diameter: 25 mm (1"); Length: 50 meters 100 meters

								Capacity											
Nozzle Size		nkler ssure	Sprin Thr Rar	ow	Thi Diame	5 of row eter of nkler		Flow Rate		Lin Velo		Pres	tal sure cesity	Turb + Ho Frict Lo:	ose tion		nfall im)	Time fo	peration or travel our )
	Bar	Psi	m	ft	m	ft	l/min	m <sup>3</sup> /hour	GPM	m/hour	ft/hour	Bar	psi	Bar	psi	mm	inch	330 ft	100 m
	2.5	36	16.5	54	28	92	63	3.8	16	19	62	4.0	58	1.5	22	6.5	0.26	5.3	5.3
8 mm	3	44	18	59	31	100	68	4.1	18	40	131	4.9	71	1.9	28	3.0	0.12	2.5	2.5
	4	58	19	62	32	106	80	4.8	21	55	180	7.0	102	3.0	44	2.4	0.10	1.8	1.8
	3	44	17	56	29	95	57	3.4	15	39	128	5.2	75	2.2	32	2.8	0.11	2.6	2.6
6 mm + 4mm	4	58	18	59	31	100	65	3.9	17	60	197	6.6	96	2.6	38	1.9	0.08	1.7	1.7
	4.5	65	18.5	61	31	103	70	4.2	18	70	230	7.7	112	3.2	46	1.7	0.07	1.4	1.4

\*Note: The table above was prepared with mathematical formulas and datas under average working conditions. It is targeted to give general information to the user. Real datas can be changed during using conditions. DuCaR Sprinklers does not accept any responsibility according to usage of this table.

## IRRICRUISER MINI TD1250-120



www.ducarsprinklers.com.au

New Generation Turbine Driven Soft Hose Travelling Irrigator

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120m run length - 60m of 32mm hose - Auto-Stop with Water Cut-off Mechanism

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## IrriCruiser Mini TD1250-120 RAINFALL AND VELOCITY RELATIONS TABLE

Sprinkler Type:
Hose Diameter and Length:
Traveller Length:

**DuCaR Atom 22** Diameter: 32 mm (1 1/4"); Length: 60 meters 120 meters

								Capacity											
Nozzle Size		nkler ssure	Sprin Thre Ran	ow	Th Diam	5 of row eter of nkler		Flow Rate		Lin Velo		Pres	tal sure cesity	Turbine Frict Los	tion		nfall ım)	Time fo	peration or travel our )
	Bar	Psi	m	ft	m	ft	l/min	m³/hour	GPM	m/hour	ft/hour	Bar	psi	Bar	psi	mm	inch	396 ft	120 m
	2.5	36	16.5	54	28	92	63	3.8	16	19	62	3.8	55	1.3	19	6.5	0.26	6.4	6.3
8 mm [	3	44	18	59	31	100	68	4.1	18	40	131	4.6	67	1.6	23	3.0	0.12	3.0	3.0
	4	58	19	62	32	106	80	4.8	21	55	180	6.6	96	2.6	38	2.4	0.10	2.2	2.2
	2.5	36	16.5	54	28	92	72	4.3	19	39	128	4.2	61	1.7	25	3.6	0.14	3.1	3.1
8 mm X 4mm	3	44	18	59	31	100	87	5.2	23	60	197	5.7	83	2.7	39	2.6	0.10	2.0	2.0
	4	58	19	62	32	106	100	6	26	70	230	7.4	107	3.4	49	2.4	0.10	1.7	1.7
	2.5	36	17	56	29	95	98	5.9	26	82	269	5.4	78	2.9	42	2.3	0.09	1.5	1.5
10 mm [	3	44	19.5	64	33	109	107	6.4	28	85	279	6.3	91	3.3	48	2.0	0.08	1.4	1.4
	3.5	51	20.5	67	35	114	117	7	30	95	312	7.6	110	4.1	59	1.9	0.08	1.3	1.3

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## IRRICRUISER MINI PLUS TD1750-150



## DuCaR® Sprinklers Australia

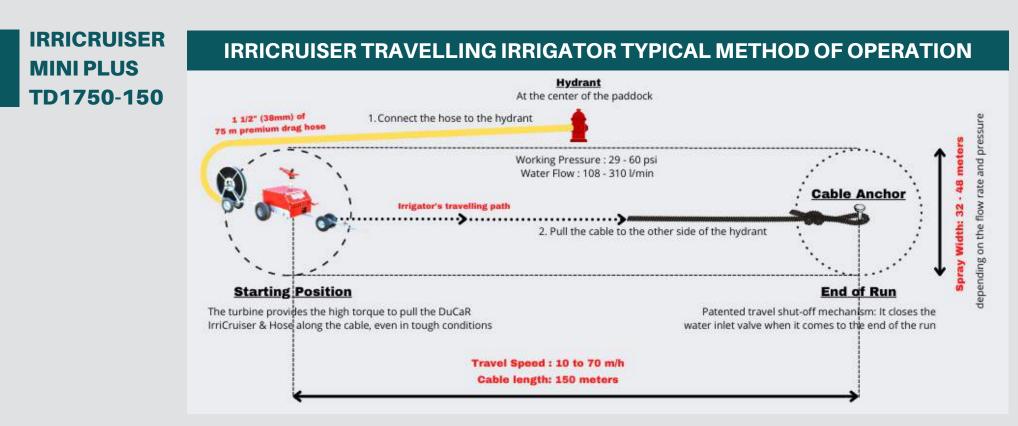
### IrriCruiser Mini Plus TD1750-150 RAINFALL AND VELOCITY RELATIONS TABLE

Sprinkler Type:
Hose Diameter and Length:
Traveller Length:

**DuCaR Atom 35** Diameter: 45 mm (1 3/4"); Length: 75 meters 150 meters

										Turbine Friction	bar	I	osi	Turbine Friction	bar	p	osi	Turbine Friction	bar	p	osi	Turbine Friction	bar	p	osi
										Loss	1.2	1	17	Loss	1.2	1	7	Loss	1	1	5	Loss	1	1	15
								Capacity		Rainfall	mm	ir	nch	Rainfall	mm	in	ich	Rainfall	mm	in	ich	Rainfall	mm	in	ich
										Kaintaii	10	0	.4	Kaintali	15	0	.6	Kaintaii	20	0	.8	Kaintai	25	1	1
Nozzle Size	2.5 3		100	ler Throw ange	Diam	f Throw eter of nkler		Flow Rate	-		ear ocity	Total F	ressure	Lin Velo		Total P	ressure	Lin Velo		Total P	ressure	Lin Velo		Total P	ressure
10000	bar	psi	m	ft	m	ft	l/min	m³/hour	GPM	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi
	2.5	36	20	66	34	112	170	10.2	44	28	90	4.5	65	18	60	4.3	62	14	45	4.1	59	11	36	4.1	59
12mm+5mm	3	44	24	79	41	134	187	11.2	49	25	81	5.1	74	17	54	4.9	71	12	41	4.7	68	10	33	4.7	68
	4	58	26	85	44	145	217	13	56	26	86	6.3	91	18	58	6.1	88	13	43	5.9	86	11	35	5.9	86
	2	29	21	69	36	117	202	12.1	52	31	102	4.2	61	21	68	4	58	15	51	3.8	55	12	41	3.8	55
14mm+5mm	3	44	25	82	43	139	242	14.5	63	31	101	5.6	81	20	67	5.4	78	15	50	5.2	75	12	40	5.2	75
	4	58	28	92	48	156	282	16.9	73	32	104	7	102	21	69	6.8	99	16	52	6.6	96	13	41	6.6	96
16	2	29	22	72	37	123	253	15.2	66	37	121	4.7	68	25	81	4.5	65	19	61	4.3	62	15	49	4.3	62
16mm+5mm	3	44	26	85	44	145	315	18.9	82	38	126	6.5	94	26	84	6.3	91	19	63	6.1	88	15	50	6.1	88

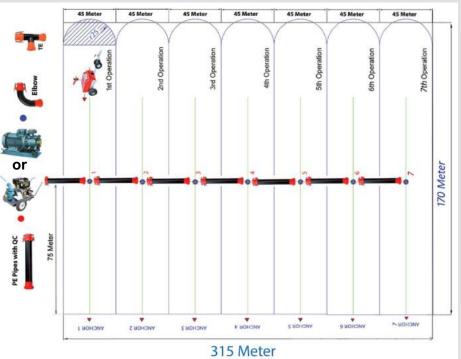
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### IRRICRUISER IRRIGATION SYSTEM FOR 5.3 HE 170 Meter x 315 Meter

IrriCruiser Mini Plus TD1750-150 With 5.5 HP Gasoline Motorpump IrriCruiser Mini Plus TD1750-150 With 4.5 HP Electrical Motorpump





## IRRICRUISER MIDI PLUS TD2500-200



www.ducarsprinklers.com.au

New Generation Turbine Driven Soft Hose Travelling Irrigator

200m run length - 100m of 65mm hose - PTO Driven Integrated Hose Reel

## DuCaR® Sprinklers Australia

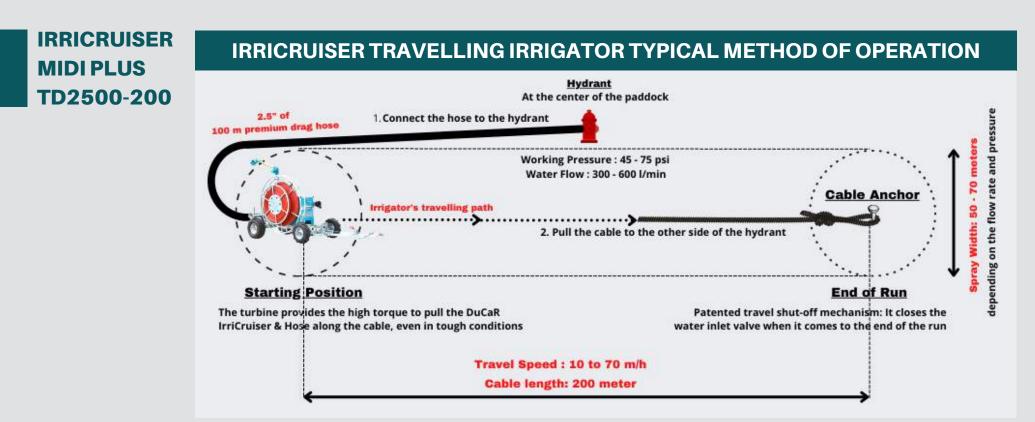
## IrriCruiser Midi Plus TD2500-200 RAINFALL AND VELOCITY RELATIONS TABLE

Sprinkler Type:
Hose Diameter and Length:
Traveller Length:

**DuCaR Jet 50** Diameter: 65 mm (2 1/2"); Length: 100 meters 200 meters

										Turbine Friction	bar	p	si	Turbine Friction	bar	p	si	Turbine Friction	bar	р	si	Turbine Friction	bar	p	si	Turbine Friction	bar	F	psi
										Loss	1.3	1	9	Loss	1.1	1	6	Loss	0.8	1	2	Loss	0.8	1	2	Loss	0.8	1	12
								Constitut		Delistell	mm	in	ch	Deletall	mm	in	ich	Parlan Call	mm	in	ch	Delugati	mm	in	ch	Delet H	mm	ir	nch
								Capacity		Rainfall	10	0	4	Rainfall	15	0	.6	Rainfall	20	0.	.8	Rainfall	25		1	Rainfall	30	1	1.2
Nozzle Size	1222220	nkler ssure	Sprin Throw	nkler Range	% 85 of Diame Sprin	eter of		Flow Rate Liter/Min		Lin Velo		Total P	ressure		ear ocity	Total P	ressure	Line Velo		Total P	ressure	Line Velo		Total P	ressure	Line Velo		Total P	Pressure
	bar	psi	m	ft	m	ft	l/min	m³/hour	GPM	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi
	3	43.5	27	89	46	151	238	14.3	62	29	94	4.5	65	19	62	4.3	62	14	47	4	58	11	37	4	58	10	31	4	58
14mm	4	58	30	98	51	167	277	16.6	72	30	97	5.5	80	20	65	5.3	77	15	49	5	73	12	39	5	73	10	32	5	73
	5	72.5	32	105	54	178	308	18.5	80	31	101	6.6	96	20	67	6.4	93	15	50	6.1	88	12	40	6.1	88	10	34	6.1	88
	3	43.5	29	95	49	162	303	18.2	79	34	110	4.6	67	22	74	4.4	64	17	55	4.1	59	13	44	4.1	59	11	37	4.1	59
16mm	4	58	33	108	56	184	350	21	91	34	111	5.7	83	22	74	5.5	80	17	55	5.2	75	13	44	5.2	75	11	37	5.2	75
	4.5	65.3	34	112	58	190	367	22	95	34	112	6.1	88	23	75	5.9	86	17	56	5.6	81	14	45	5.6	81	11	37	5.6	81
	3	43.5	32	105	54	178	390	23.4	101	39	127	4.8	70	26	85	4.6	67	19	64	4.3	62	16	51	4.3	62	13	42	4.3	62
18mm	4	58	35	115	60	195	445	26.7	116	40	132	5.9	86	27	88	5.7	83	20	66	5.4	78	16	53	5.4	78	13	44	5.4	78
	5	72.5	38	125	65	212	498	29.9	130	41	135	6.8	99	27	90	6.6	96	21	67	6.3	91	16	54	6.3	91	14	45	6.3	91
20mm	3	43.5	35	115	60	195	463	27.8	120	42	137	4.9	71	28	91	4.7	68	21	69	4.4	64	17	55	4.4	64	14	46	4.4	64
2011011	4	58	38	125	65	212	548	32.9	143	45	148	6.2	90	30	99	6	87	23	74	5.7	83	18	59	5.7	83	15	49	5.7	83
22mm	3	43.5	36	118	61	201	567	34	147	50	163	5.3	77	33	108	5.1	74	25	81	4.8	70	20	65	4.8	70	17	54	4.8	70
221010	4	58	40	131	68	223	680	40.8	177	53	174	6.7	97	35	116	6.5	94	26	87	6.2	90	21	69	6.2	90	18	58	6.2	90

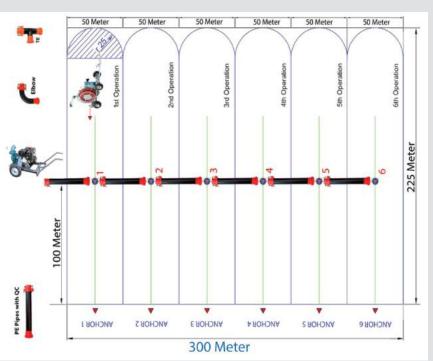
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### IRRICRUISER IRRIGATION SYSTEM FOR 6.75 HE 225 Meter x 300 Meter

IrriCruiser Midi Plus TD2500-200 With 17HP Diesel Motorpump

DuCaR® Sprinklers Australia



## IRRICRUISER MICO TD2500-300



DuCaR® Sprinklers Australia

www.ducarsprinklers.com.au

New Generation Turbine Driven Soft Hose Travelling Irrigator

300m run length - 150m of 65mm hose - PTO Driven Integrated Hose Reel -Patented Speed Adjustment and By-pass Mechanism

## IrriCruiser Mico TD2500-300 RAINFALL AND VELOCITY RELATIONS TABLE

Sprinkler Type: Hose Diameter and Length: Traveller Length:

#### DuCaR Jet 55

Diameter: 65 mm (2 1/2"); Length: 150 meters

300 meters

										Turbine Friction Loss	bar 1.1		osi 16	Turbine Friction Loss	bar 0.9		si 3	Turbine Friction Loss	bar 0.7	p 1		Turbine Friction Loss	bar 0.7	р 1	si O	Turbine Friction Loss	bar 0.7	-	osi LO
								Capacity	8	Rainfall	mm		ich	Rainfall	mm		ch	Rainfall	mm	in	1677	Rainfall	mm	in	ch	Rainfall	mm	-	nch
Nozzle Size	Sprin Pres	nkler ssure	10000	nkler Range	Diam	f Throw eter of nkler		Flow Rate	2	Lin	10 lear ocity	0 To Pres	otal	Lin Velo	15 ear ocity		.6 tal sure	Lin Velo		0. To Pres	tal	Line Velo		To Pres		Lin Velo		То	2 otal ssure
	bar	psi	m	ft	m	ft	l/min	m³/hour	GPM	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi
	2.5	36	25	82	43	139	237	14.2	62	32	104	4.2	61	21	69	4	58	16	52	3.8	55	13	42	3.8	55	11	35	3.8	55
14 mm	3	44	28	92	48	156	247	14.8	64	29	96	4.5	65	20	64	4.3	62	15	48	4.5	65	12	38	4.5	65	10	32	4.5	65
14 11111	4	58	31	102	53	173	287	17.2	75	31	100	5.5	80	20	67	5.3	77	15	50	5.7	83	12	40	5.7	83	10	33	5.7	83
	4.5	65	32	105	54	178	300	18	78	31	101	6	87	21	68	5.8	84	15	51	6.2	90	12	41	6.2	90	10	34	6.2	90
	3	44	30	98	51	167	308	18.5	80	34	112	4.5	65	23	74	4.3	62	17	56	4.0	58	14	45	4.0	58	11	37	4.0	58
16mm	4	58	34	112	58	190	358	21.5	93	35	113	5.7	83	23	76	5.5	80	17	57	5.2	75	14	45	5.2	75	12	38	5.2	75
	4.5	65	34	112	58	190	370	22.2	96	36	117	6.2	90	24	78	6	87	18	59	5.7	83	14	47	5.7	83	12	39	5.7	83
	3	44	32	105	54	178	390	23.4	101	40	132	4.8	70	27	88	4.6	67	20	66	4.3	62	16	53	4.3	62	13	44	4.3	62
18mm	4	58	35	115	60	195	445	26.7	116	42	137	6	87	28	91	5.8	84	21	68	5.5	80	17	55	5.5	80	14	46	5.5	80
	4.5	65	38	125	65	212	472	28.3	123	40	132	6.6	96	27	88	6.4	93	20	66	6.1	88	16	53	6.1	88	13	44	6.1	88
	3	44	35	115	60	195	463	27.8	120	43	142	5	73	29	95	4.8	70	22	71	4.5	65	17	57	4.5	65	14	47	4.5	65
20mm	4	58	38	125	65	212	548	32.9	143	47	154	6.5	94	31	103	6.3	91	23	77	6	87	19	62	6	87	16	51	6	87
	4.5	65	39	128	66	217	583	35	152	49	159	7.2	104	32	106	7	102	24	80	6.7	97	19	64	6.7	97	16	53	6.7	97

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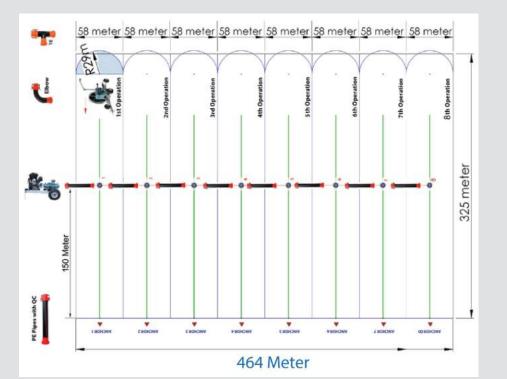
#### IRRICRUISER **IRRICRUISER TRAVELLING IRRIGATOR TYPICAL METHOD OF OPERATION** MICO Hydrant **TD2500-300** At the center of the paddock 2.5" of 1. Connect the hose to the hydrant depending on the flow rate and pressur 150 m premium drag hose Working Pressure : 40 - 90 psi Water Flow : 300 - 750 l/min 8 **Cable Anchor** . rrigator's travelling path 2 width: 2. Pull the cable to the other side of the hydrant Spray Starting Position End of Run The turbine provides the high torque to pull the DuCaR Patented travel shut-off mechanism: It closes the IrriCruiser & Hose along the cable, even in tough conditions water inlet valve when it comes to the end of the run Travel Speed : 10 to 60 m/h

**Cable length: 300 meter** 

### IRRICRUISER IRRIGATION SYSTEM FOR 15 HE 325 Meter x 464 Meter

IrriCruiser Mico TD2500-300 With 17 HP Diesel Motorpump IrriCruiser Mico TD2500-300 With 15 HP Electrical Motorpump





## IRRICRUISER COMFORT TD3000-400



www.ducarsprinklers.com.au

New Generation Turbine Driven Soft Hose Travelling Irrigator

400m run length - 200m of 76mm hose - PTO Driven Purge Pump

Inifarce eco

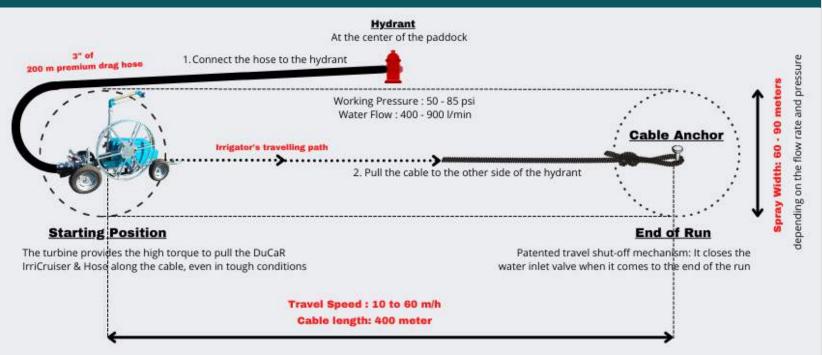
## IrriCruiser Comfort TD3000-400 RAINFALL AND VELOCITY RELATIONS TABLE

Sprinkler Type: Hose Diameter and Length: Traveller Length: **DuCaR Jet 55** Diameter: 76 mm (3"); Length: 200 meters 400 meters

										Turbine	bar	p	si	Turbine	bar	p	si	Turbine	bar	p	si	Turbine	bar	p	si	Turbine	bar	F	osi
										Friction Loss	1.3	1	.9	Friction Loss	1.1	1	.6	Friction Loss	0.8	1	2	Friction Loss	0.8	1	2	Friction Loss	0.8	1	12
								Capacity		Rainfall	mm	in	ch	Rainfall	mm	in	ch	Rainfall	mm	in	ch	Rainfall	mm	in	ch	Rainfall	mm	in	nch
								capacity		Rannan	10	0	.4	rionnan	15	0	.6	Kannan	20	0	.8	nannan	25	1	1	- Cummun	30	1	L.2
Nozzle Size	Sprin Pres		100000000000000000000000000000000000000	er Throw nge	Diam	f Throw eter of inkler		Flow Rate		Lin Velo		To Pres	tal sure		near ocity	To Pres		Line Velo		To Pres	570 June -	Lin Velo		To Pres		Lin Velo	lear ocity		otal ssure
10000 C	bar	psi	m	ft	m	ft	l/min	m <sup>3</sup> /hour	GPM	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi
	3	44	35	115	60	195	467	28	121	44	146	4.9	71	30	97	4.7	68	22	73	4.4	64	18	58	4.4	64	15	49	4.4	64
20mm	4	58	38	125	65	212	550	33	143	48	158	6.2	90	32	105	6	87	24	79	5.7	83	19	63	5.7	83	16	53	5.7	83
	5	73	42	138	71	234	617	37	160	48	159	7.4	107	32	106	7.2	104	24	79	6.9	100	19	64	6.9	100	16	53	6.9	100
	З	44	36	118	61	201	567	34	147	52	172	5.3	77	35	115	5.1	74	26	86	4.8	70	21	69	4.8	70	17	57	4.8	70
22mm	4	58	40	131	68	223	683	41	178	57	185	6.6	96	38	124	6.4	93	28	93	6.1	88	23	74	6.1	88	19	62	6.1	88
	4.5	65	42	138	71	234	733	44	191	58	189	7.3	106	38	126	7.1	103	29	94	6.8	99	23	76	6.8	99	19	63	6.8	99
	3	44	38	125	65	212	683	41	178	60	196	5.6	81	40	131	5.4	78	30	98	5.1	74	24	78	5.1	74	20	65	5.1	74
24mm	4	58	43	141	73	240	800	48	208	61	201	6.9	100	41	134	6.7	97	31	100	6.4	93	25	80	6.4	93	20	67	6.4	93
	4.5	65	44	144	75	245	850	51	221	64	208	7.8	113	42	139	7.6	110	32	104	7.3	106	25	83	7.3	106	21	69	7.3	106
26mm	4	58	45	148	77	251	867	52	225	63	207	6.6	96	42	138	6.4	93	32	104	6.1	88	25	83	6.1	88	21	69	6.1	88
2011111	4.5	65	46	151	78	256	917	55	238	65	214	8.1	117	44	143	7.9	115	33	107	7.6	110	26	86	7.6	110	22	71	7.6	110
28mm	4	58	47	154	80	262	1033	62	269	72	236	7.5	109	48	157	7.3	106	36	118	7.0	102	29	94	7.0	102	24	79	7.0	102

\*Note: The table above was prepared with mathematical formulas and datas under average working conditions. It is targeted to give general information to the user. Real datas can be changed during using conditions. DuCaR Sprinklers does not accept any responsibility according to usage of this table.

### IRRICRUISER TRAVELLING IRRIGATOR TYPICAL METHOD OF OPERATION



### IRRICRUISER IRRIGATION SYSTEM FOR 44 HE 860 Meter x 520 Meter

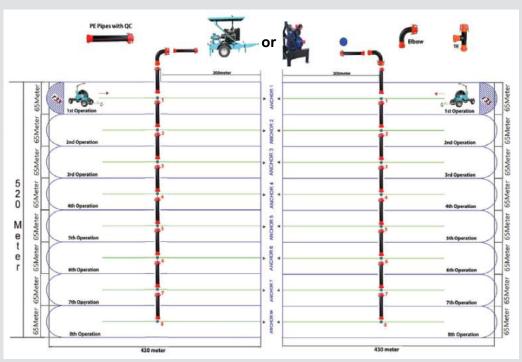
IrriCruiser Comfort TD3000-400 With 45HP Diesel Motorpump IrriCruiser Comfort TD3000-4000 With DuCaR DKT80 PTO Tractor Pump



IRRICRUISER

**TD3000-400** 

**COMFORT** 



## **IRRICRUISER ULTIMATE**

DuCaR® Sprinklers Australia

www.ducarsprinklers.com.au

New Generation Turbine Driven Soft Hose Travelling Irrigator

400m/500m run length - 200m/250m of 90mm hose - PTO Driven Purge Pump

### IrriCruiser Ultimate TD3500-400 RAINFALL AND VELOCITY RELATIONS TABLE

Sprinkler Type:

DuCaR Jet 65

Hose Diameter and Length:

#### Diameter: 90 mm; Length: 200 meters; 400 m Travel length

									(	Turbine Friction	bar	-	si	Turbine Friction	bar		si	Turbine Friction	bar	a	si	Turbine Friction	bar		si	Turbine Friction	bar	1	psi
								Constitution		Loss	1.4	2	0	Loss	1.1	1	6	Loss	0.9	1	3	Loss	0.9	1	.3	Loss	0.7	1	10
								Capacity		Rainfall	mm	in	ch	Rainfall	mm	in	ch	Rainfall	mm	in	ch	Rainfall	mm	in	ch	Rainfall	mm	ir	nch
									-	Runnun	15	0.	.6	Mannan	20	0.	.8	norman	25	1		Nannan	30	1	.2	Turritur	40	1	1.6
Nozzle Size	3326	nkler ssure	Th	nkler ow nge	Throw	85 of Diameter rinkler		Flow Rate		Lin Velo		To Pres		Lin Velo		To Pres		Line Velo		To Pres		Line Velo		1000	tal sure		near ocity	10.00	otal ssure
	bar	psi	m	ft	m	ft	l/min	m³/hour	GPM	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi
	3	44	39	128	66	217	667	40	173	38	124	4.8	70	28	93	4.5	65	23	74	4.3	62	19	62	4.3	62	14	46	4.1	59
24mm	4	58	43	141	73	240	800	48	208	41	134	6.1	88	31	100	5.8	84	25	80	5.6	81	20	67	5.6	81	15	50	5.4	78
240000	5	73	49	161	83	273	917	55	238	41	133	7.3	106	31	100	7.0	102	24	80	6.8	99	20	67	6.8	99	15	50	6.6	96
	6	87	52	171	88	290	983	59	256	41	134	8.4	122	31	101	8.1	117	25	81	7.9	115	20	67	7.9	115	15	50	7.7	112
	3	44	41	134	70	229	783	47	204	42	138	5	73	32	104	4.7	68	25	83	4.5	65	21	69	4.5	65	16	52	4.3	62
26mm	4	58	48	157	82	268	933	56	243	42	139	6.3	91	32	104	6.0	87	25	83	5.8	84	21	69	5.8	84	16	52	5.6	81
	5	73	50	164	85	279	1050	63	273	46	150	7.4	107	34	112	7.1	103	27	90	6.9	100	23	75	6.9	100	17	56	6.7	97
28mm	4	58	49	161	83	273	1083	65	282	48	158	6.6	96	36	118	6.3	91	29	95	6.1	88	24	79	6.1	88	18	59	5.9	86
2011111	5	73	53	174	90	296	1200	72	312	49	161	7.9	115	37	120	7.6	110	29	96	7.4	107	24	80	7.4	107	18	60	7.2	104
30mm	4	58	50	164	85	279	1217	73	316	53	173	6.8	99	40	130	6.5	94	32	104	6.3	91	26	87	6.3	91	20	65	6.1	88
John	5	73	54	177	92	301	1350	81	351	54	177	8.2	119	40	133	7.9	115	32	106	7.7	112	27	88	7.7	112	20	66	7.5	109
32mm	4	58	52	171	88	290	1367	82	355	57	187	7.3	106	43	140	7.0	102	34	112	6.8	99	28	93	6.8	99	21	70	6.6	96
Janin	5	73	56	184	95	312	1533	92	399	59	193	8.8	128	44	145	8.5	123	35	116	8.3	120	29	97	8.3	120	22	72	8.1	117

\*Note: The table above was prepared with mathematical formulas and datas under average working conditions. It is targeted to give general information to the user. Real datas can be changed during using conditions. DuCaR Sprinklers does not accept any responsibility according to usage of this table.

## IrriCruiser Ultimate TD3500-500 RAINFALL AND VELOCITY RELATIONS TABLE

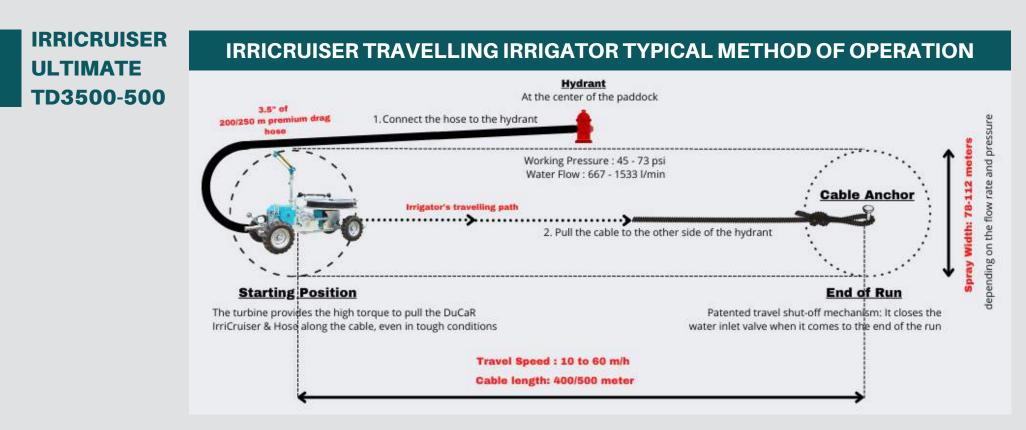
Sprinkler Type: Hose Diameter and Length:

#### DuCaR Jet 65

Diameter: 90 mm; Length: 250 meters; 500 m Travel length

									5	Turbine	bar	p	si	Turbine	bar	p	si	Turbine	bar	p	si	Turbine	bar	р	si	Turbine	bar	p	osi
										Friction Loss	1.4	2	0	Friction Loss	1.1	1	6	Friction Loss	0.9	1	3	Friction Loss	0.9	1	3	Friction Loss	0.7	1	lo
								Capacity		Rainfall	mm	in	ch	Rainfall	mm	in	ch	Rainfall	mm	in	ch	Rainfall	mm	in	ch	Rainfall	mm	in	nch
										No. of Concession, Name	15	0	.6		20	0.	.8		25	1		A CONTRACTOR	30	1	.2	Summer of	40	1	.6
Nozzle Size		nkler sure	Th	nkler row nge	Throw	85 of Diameter rinkler		Flow Rate		Lin Velo		To Pres		Lin Velo		To Pres	00000-0-	Line Velo		To Pres	573 or 1	Line Velo		To Pres	1112 Aug.		near ocity	To Pres	11313
	bar	psi	m	ft	m	ft	I/min	m³/hour	GPM	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi	m/hour	ft/hour	bar	psi
	3	44	39	128	66	217	667	40	173	38	125	5	73	29	94	4.7	68	23	75	4.5	65	19	63	4.5	65	14	47	4.3	62
24	4	58	43	141	73	240	800	48	208	41	136	6.3	91	31	102	6.0	87	25	81	5.8	84	21	68	5.8	84	16	51	5.6	81
24mm	5	73	49	161	83	273	917	55	238	41	136	7.3	106	31	102	7.0	102	25	81	6.8	99	21	68	6.8	99	15	51	6.6	96
	6	87	52	171	88	290	983	59	256	42	136	8.6	125	31	102	8.3	120	25	82	8.1	117	21	68	8.1	117	16	51	7.9	115
	3	44	41	134	70	229	783	47	204	43	140	5.3	77	32	105	5.0	73	26	84	4.8	70	21	70	4.8	70	16	52	4.6	67
26mm	4	58	48	157	82	268	933	56	243	43	141	6.6	96	32	106	6.3	91	26	85	6.1	88	21	71	6.1	88	16	53	5.9	86
	5	73	50	164	85	279	1050	63	273	46	152	7.7	112	35	114	7.4	107	28	91	7.2	104	23	76	7.2	104	17	57	7.0	102
28mm	4	58	49	161	83	273	1083	65	282	49	160	7.1	103	37	120	6.8	99	29	96	6.6	96	24	80	6.6	96	18	60	6.4	93
2011111	5	73	53	174	90	296	1200	72	312	50	163	8.4	122	37	122	8.1	117	30	98	7.9	115	25	82	7.9	115	19	61	7.7	112
30mm	4	58	50	164	85	279	1217	73	316	54	176	7.4	107	40	132	7.1	103	32	106	6.9	100	27	88	6.9	100	20	66	6.7	97
Somm	5	73	54	177	92	301	1350	81	351	55	180	9	131	41	135	8.7	126	33	108	8.5	123	27	90	8.5	123	21	67	8.3	120
32mm	4	58	52	171	88	290	1367	82	355	58	190	8	116	43	142	7.7	112	35	114	7.5	109	29	95	7.5	109	22	71	7.3	106
Szinn	4.5	65	54	177	92	301	1433	86	373	58	191	8.8	128	44	143	8.5	123	35	115	8.3	120	29	96	8.3	120	22	72	8.1	117

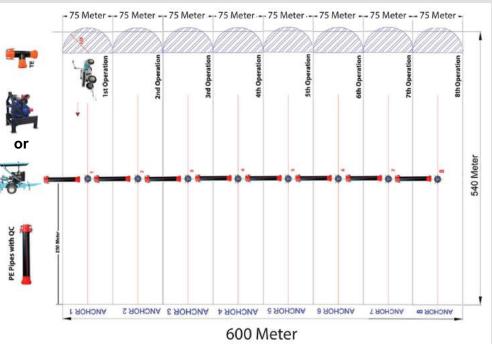
The table above was prepared with mathematical formulas and datas under average working conditions. It is targeted to give general information to the user. Real datas can be changed during using conditions. DuCaR Sprinklers does not accept any responsibility according to usage of this table. \*Note:



### IRRICRUISER IRRIGATION SYSTEM FOR 32 HE 540 Meter x 600 Meter

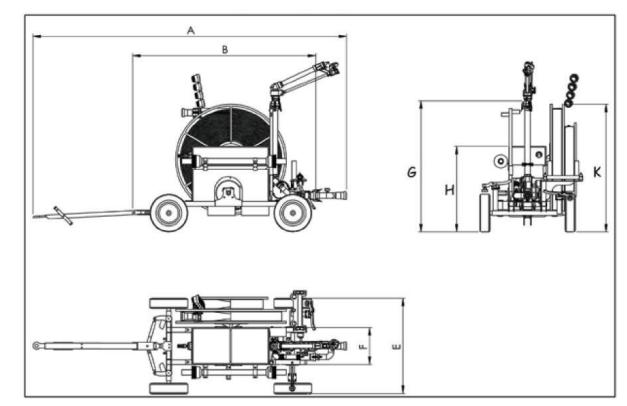
IrriCruiser Ultimate TD3500-500 With 45HP Diesel Motorpump IrriCruiser Ultimate TD3500-500 With DuCaR DKT80 PTO Tractor Pump

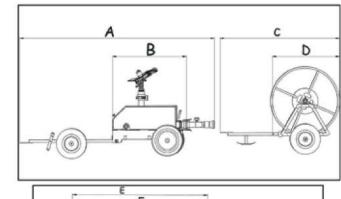


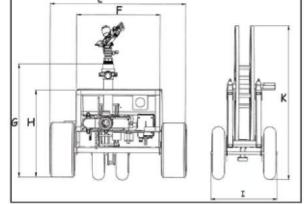


#### LAWN MASTER, MINI, MINI PLUS

### MIDI PLUS, MICO, COMFORT, ULTIMATE







IRRIGATOR MODEL	A (cm)	B (cm)	C (cm)	D (cm)	E (cm)	F (cm)	G (cm)	H (cm)	I (cm)	J (cm)	K (cm)	NET WEIGHT (kg)	NET WEIGHT (lb)
LAWN MASTER	83	64			52	37	60	41				35	77
MINI	97	66	130	70	60	42	55	42	72	55	80	92	203
MINI PLUS	225	85	130	70	85	55	71	60	72	55	80	170	375
MIDI PLUS	345	200			113	40	142	92			140	480	1058
МІСО	378	240			146	41	168	100			148	600	1323
COMFORT	400	264			114	42	167	100			155	780	1790
ULTIMATE	480	336			210	56	183	101			123	1400	3086

























DuCaR Sprinklers Australia 12/49 Jijaws Street Sumner QLD 4074 (07) 3088 8096 sales@ducarsprinklers.com.au

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