



CASELLA HY-TURB S 90/300



FEATURES:

- Heavy duty design
- Hot dip galvanised chassis
- Travel shut-off mechanism
- Highly efficient turbine
- 4-speed Italian made gear box: By adjusting the most efficient turbine rotation and speed, you can save energy.
- Sensitive speed control
- Solar energy powered computer for adjusting the rewinding speed
- 270° Manual Rotation of Upper Frame
- Hydraulic lifting of the sprinkler trolley
- Trolley with 3 rubber wheels
- Flexible Hose for Water Inlet
- Tyres : 10.0 / 80-12 Joint for PTO drive shaft
- Excellent Water Uniformity
- Long Life & Simple Maintenance : The units are built from long life components and require a minimum of maintenance. Spare parts and backup service available.
- Made in Italy

- **Hose Length: 300 m**
- **Hose Diameter: 90 mm**
- **Hose Thickness: 6.4 mm**
- **Working Pressure: 70 - 100 psi**
- **Water Flow: 400 - 900 l/min**
- **Effective Spray Width (Diameter): 70 - 80 m**
- **Total Irrigated Area: 340 X 560 m = 190,400 m² (19 Hectare) in 7 days**
- **Sprinkler: DuCaR JET 50**
- **Mechanism: 4-Speed Gear Box directly integrated to turbine**
- **Rewind Speed Control: Solar-Powered Hydro Computer 160**

APPLICATIONS:

- Agriculture: Small to medium crops, pastures and dairy farms, small to large acreages
- Turf Irrigation: Golf, race courses, playing fields and gardens
- Dust Control: Mining and construction sites



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CASELLA Turbine

▶ This type of machines picks the power necessary to the hose recovery by exploiting the flow of water through a turbine

The gear box is directly connected with turbine and ring gear with ultimate technology in order to provide minimum pressure loss and enhanced performance for the hose reel. ◀



Casella Hydro Control 160

Hose re-winding control 5 to 250 m/h.

▶ During irrigation the back-lit display shows: irrigator recovery speed in m/h, remaining length to be rewound, remaining time to the end of irrigation.

Solar energy powered rewinding speed control panel.



▶ Hydraulic pump and lifting system for trolley

DuCaR Jet 50 sprinkler ◀



Nozzle Diameter		Pressure		Jet Length		Capacity			Values for a single sprinkler		
mm	inch	atm	psi	m	feet	l/min	m ³ /h	G.P.M	Irrigated Area	Rainfall per hour	
									m ²	acre	mm/h
14	0.55	3	44	29	95	246,7	14,8	65	2640	0,65	5,6
14	0.55	4	56	32	105	286,7	17,2	76	3215	0,79	5,3
14	0.55	5	70	34	112	315	18,9	83	3629	0,90	5,2
16	0.62	3	44	30	98	308,3	18,5	81	2826	0,70	6,5
16	0.62	4	56	34	112	358,3	21,5	95	3629	0,90	5,9
16	0.62	5	70	35	115	391,7	23,5	103	3846	0,95	6,1
18	0.70	3	44	32	105	390	23,4	103	3215	0,79	7,3
18	0.70	4	56	35	115	445	26,7	118	3846	0,95	6,9
18	0.70	5	70	38	125	498,3	29,9	132	4534	1,12	6,6
18	0.70	6	85	41	134	553,3	33,2	146	5278	1,30	6,3
20	0.78	3	44	35	115	463,3	27,8	122	3846	0,95	7,2
20	0.78	4	56	38	125	548,3	32,9	145	4534	1,12	7,3
20	0.78	5	70	42	138	616,7	37	163	5538	1,37	6,7
22	0.86	4	56	40	131	680	40,8	180	5024	1,24	8,1
22	0.86	5	70	44	144	753,3	45,2	199	6079	1,50	7,4
22	0.86	6	85	47	154	818,3	49,1	216	6936	1,71	7,1
24	0.94	5	70	46	151	886,7	53,2	234	6644	1,64	8,0
24	0.94	6	85	48	157	958,3	57,5	253	7234	1,79	7,9
24	0.94	7	100	50	164	1020	61,2	269	7850	1,94	7,8



12/49 Jijaws Street Sumner QLD 4074

(07) 3088 8096

sales@irrigationbox.com.au

www.irrigationbox.com.au