



Franklin Electric

MORE THAN MOTORS



ELECTROFLO SOLAR PRODUCT PORTFOLIO

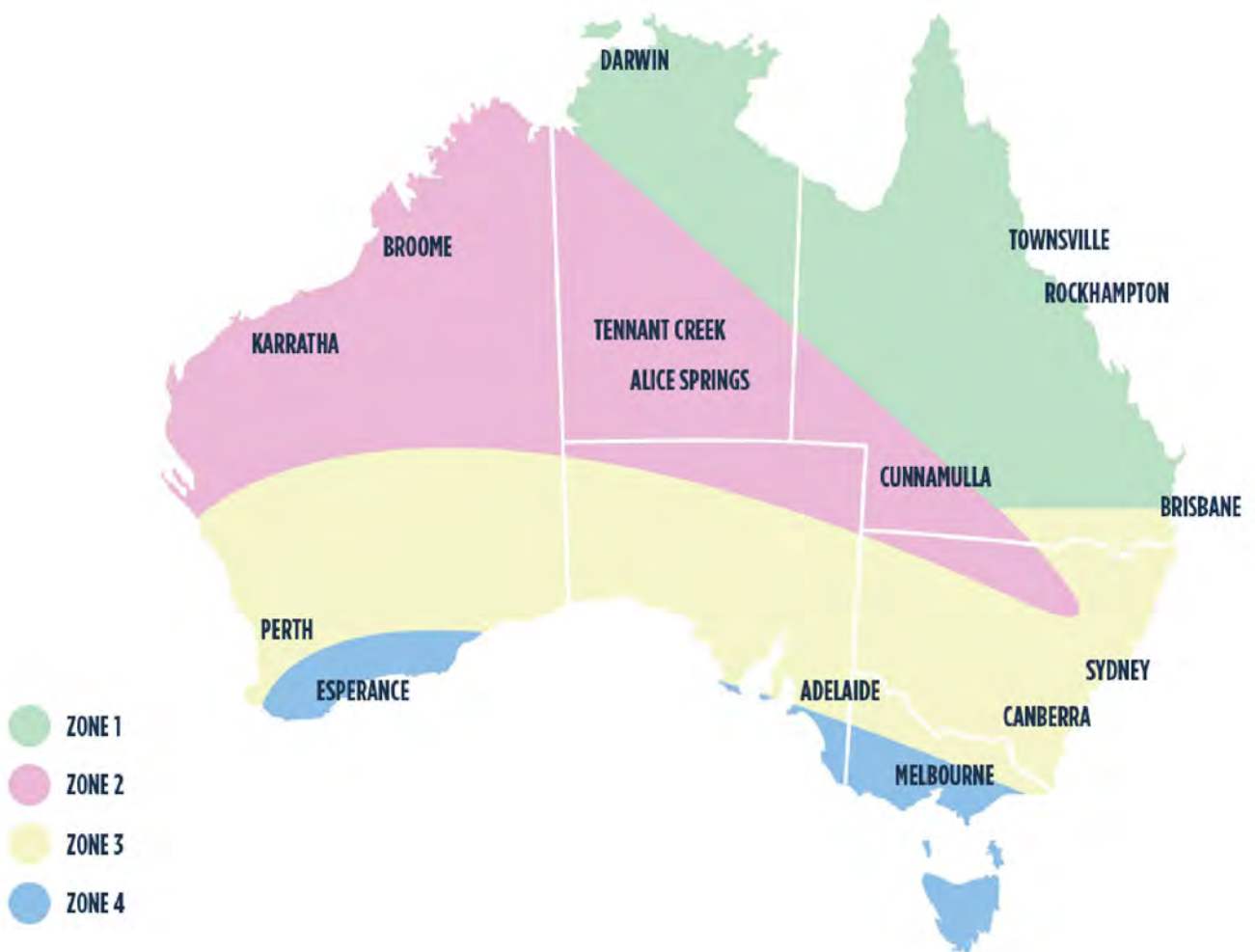
CLEAN, RELIABLE & RENEWABLE





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ELECTROFLO PUMP SELECTION ZONES





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DRIVE-TECH MINI & ELECTROFLO PD PUMP

DRIVE-TECH MINI

Application:

- MPPT control maximises efficiency of input power powered by DC solar array
- Built-in diagnostics and protection features
- Soft-start feature prevents water hammer and increases system life
- Control of AC induction and permanent magnet synchronous motors
- Robust IP66 minimises impact on wildlife, insects, dust and weather
- Variable frequency drives (VFD)
- Compatible with UnyConnect app



ELECTROFLO PD PUMP

Designed specifically for solar:

- Reduced vibrations
- Reduced drive shaft stresses

Longer and wider seal line:

- Improved pump life

Improved drive shaft design:

- Durability

Complete stainless steel pump body

Developed rotor and stator geometry:

- Reduced start-up power
- More water per day
- Better efficiencies
- Heads up to 220m
- Flow rates: 10l/m - 40l/m



Part number:	Description:	Total Length:	UOM:
830220157	0.5EL220 Pump Assy Electroflow SST	680	mm
830220119	1.5EL120 Pump Assy Electroflow SST	636	mm
830220340	1.5EL220 Pump Assy Electroflo SST	779	mm
830220129	2.5EL120 Pump Assy Electroflow SST	737	mm



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MOTOR OPTIONS

4" ENCAPSULATED PERMANENT MAGNET MOTOR

Specifications:

- Ratings: up to 2.2kW
- Voltage: 220V (100Hz)

Features & Benefits:

- High efficiency electrical design for low operation costs
- Drinking water approvals
- Suitable for use in water with increased salinity
- StatorShield™ - Franklin encapsulation system
- Pressure-equalizing diaphragm
- Thrust load: 4kN
- Maximum storage temperature -15°C - +50°C
- Nominal ambient temperature: 30°C with 0.08 m/s cooling flow



MOTOR PERFORMANCE DATA 220 V / 100 HZ

Motor model no.	P _N [kW]	Thrust F [N]	U _N [V]	n [min ⁻¹]	I _N [A]	I _A /I _N [A]	η [%]	cos phi	T _N [Nm]	T _A /T _N *
234 071 ****	0,55	4000	220	3000	1,8	1	85,1	0,95	1,8	1
	0,75				2,4		85,6	0,97	2,4	
	1,1				3,8		83,5	0,99	3,5	
234 072 ****	1,1	4000	220	3000	3,4	1	86,4	0,96	3,5	1
	1,5				4,8		88,0	0,97	4,8	
	2,2				7,0		87,0	0,99	7,0	

MOTOR DIMENSIONS*

P _N [kW]	U _N [A]	Thrust [A]	length [mm]*	weight [kg]
0.55 - 1.1	220	4000	218	5.2
1.1 - 2.2	220	4000	263	7.2



PUMP SELECTION

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ELECTROFLO SOLAR 0.5_220

METERS Head	LPM Flow	Liters Per Day				Panel No.
		Zone 1	Zone 2	Zone 3	Zone 4	
10	10.4	4463	4369	3745	3121	3 X AIKO 450 WATT
20	10.4	4447	4353	3731	3109	
40	10.2	4387	4295	3682	3068	
60	10.0	4285	4195	3596	2997	
80	9.7	4140	4053	3474	2895	
100	9.2	3952	3869	3317	2764	
120	8.7	3722	3643	3123	2602	
140	8.0	3448	3376	2893	2411	4 X AIKO 450 WATT
160	7.3	3131	3066	2628	2190	
180	6.5	2772	2714	2326	1938	
200	5.5	2369	2320	1988	1657	
220	4.5	1924	1884	1615	1345	

ELECTROFLO SOLAR 1.5_120

Meters Head	LPM Flow	Liters Per Day				Panel No.
		Zone 1	Zone 2	Zone 3	Zone 4	
10	21.2	9093	8903	7631	6359	3 X AIKO 450 WATT
20	21.0	9022	8833	7571	6309	
30	20.8	8903	8716	7471	6226	
40	20.4	8736	8553	7331	6109	
50	19.9	8521	8342	7151	5959	
60	19.2	8258	8085	6930	5775	
70	18.5	7947	7780	6668	5557	
80	17.7	7587	7428	6367	5306	
90	16.7	7180	7029	6025	5021	
100	15.7	6725	6584	5643	4703	
110	14.5	6221	6091	5221	4350	
120	13.2	5670	5551	4758	3965	



PUMP SELECTION (CONTINUED)

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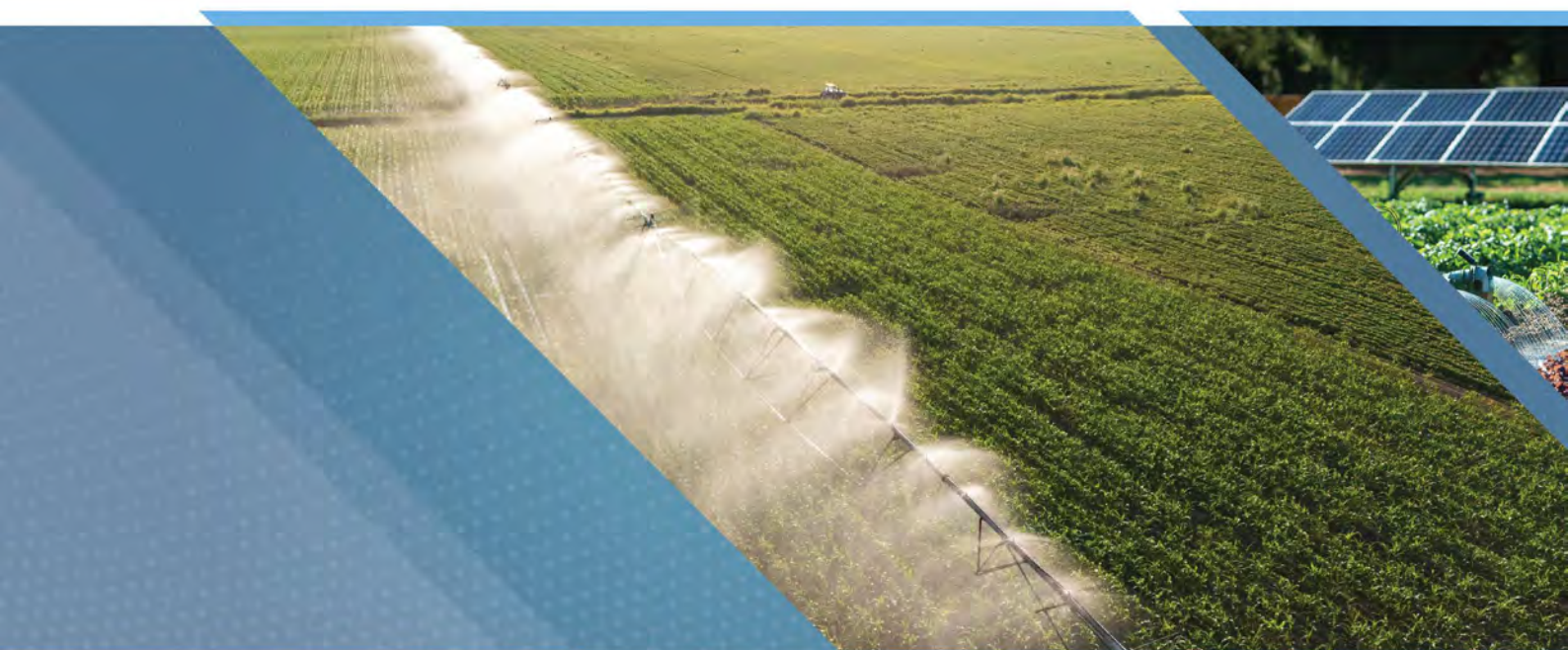
ELECTROFLO SOLAR 1.5_220

METERS Head	LPM Flow	Liters Per Day				Panel No.
		Zone 1	Zone 2	Zone 3	Zone 4	
10	21.3	9116	8925	7650	6375	3 X AIKO 450 WATT
20	21.2	9091	8900	7628	6357	
40	21.0	8996	8807	7549	6291	
60	20.6	8833	8648	7412	6177	
80	20.1	8601	8421	7218	6015	
100	19.4	8301	8127	6966	5805	
120	18.5	7932	7766	6656	5547	
140	17.5	7495	7337	6289	5241	4 X AIKO 450 WATT
160	16.3	6988	6842	5864	4887	
180	15.0	6414	6279	5382	4485	
200	13.5	5770	5649	4842	4035	
220	11.8	5058	4952	4244	3537	

ELECTROFLO SOLAR 2.5

METERS Head	LPM Flow	Liters Per Day				Panel No.
		Zone 1	Zone 2	Zone 3	Zone 4	
0.2	42.9	18387	18001	15429	12858	3 X AIKO 450 WATT
10	42.8	18340	17955	15390	12825	
20	42.4	18197	17815	15270	12725	
30	41.9	17957	17580	15069	12557	
40	41.1	17619	17250	14786	12321	
50	40.1	17185	16825	14421	12018	
60	38.8	16654	16305	13976	11646	
70	37.4	16026	15690	13449	11207	
80	35.7	15301	14980	12840	10700	
90	33.8	14479	14175	12150	10125	
100	31.6	13560	13276	11379	9483	
110	29.2	12544	12281	10527	8772	
120	26.6	11432	11192	9593	7994	4 X AIKO 450 WATT
130	26.6	11411	11172	9576	7980	
140	26.5	11369	11130	9540	7950	
150	25.1	10768	10542	9036	7530	
160	24.9	10682	10458	8964	7470	

Notes



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Electroflo Brochure_V1.0_10-25