JOVAL
Tel: +351 253 490 740 | Email: joval@joval.pt

TECHNICAL DATASHEET

Ecologic Electric Pumps

Compact and silent ecological electric pump.

Ecologic Electric Pump – Compact, ecological, silent, and resistant. Ideal for domestic applications and light irrigation.

APPLICATIONS

- Water abstraction from wells, reservoirs and water courses.
- Domestic water supply.
- Agricultural irrigation and gardens.
- Hydropneumatic systems.

TECHNICAL DATA

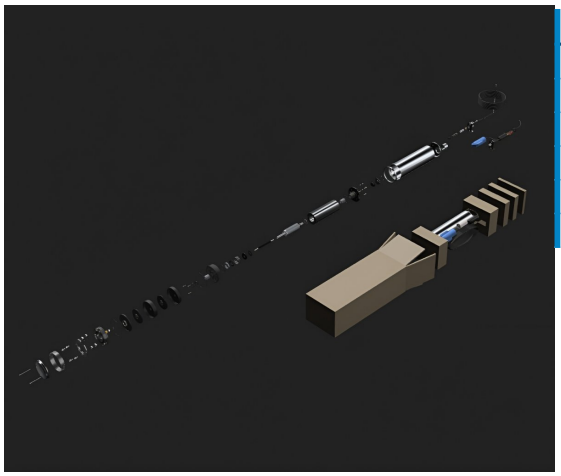
TECHNICAL SPECIFICATIONS

Type	Submersible for Clean Water
Material	Radial turbines and diffusers in Noryl reinforced with fiberglass
Motor Details	Hermetically sealed electric motor impregnated with protective resin
Environment	Ecological (Oil-free)
Installation	Vertical / Horizontal
Cable	15m (Detachable)
Protection	IP 68 | Class B

MOTOR CHARACTERISTICS

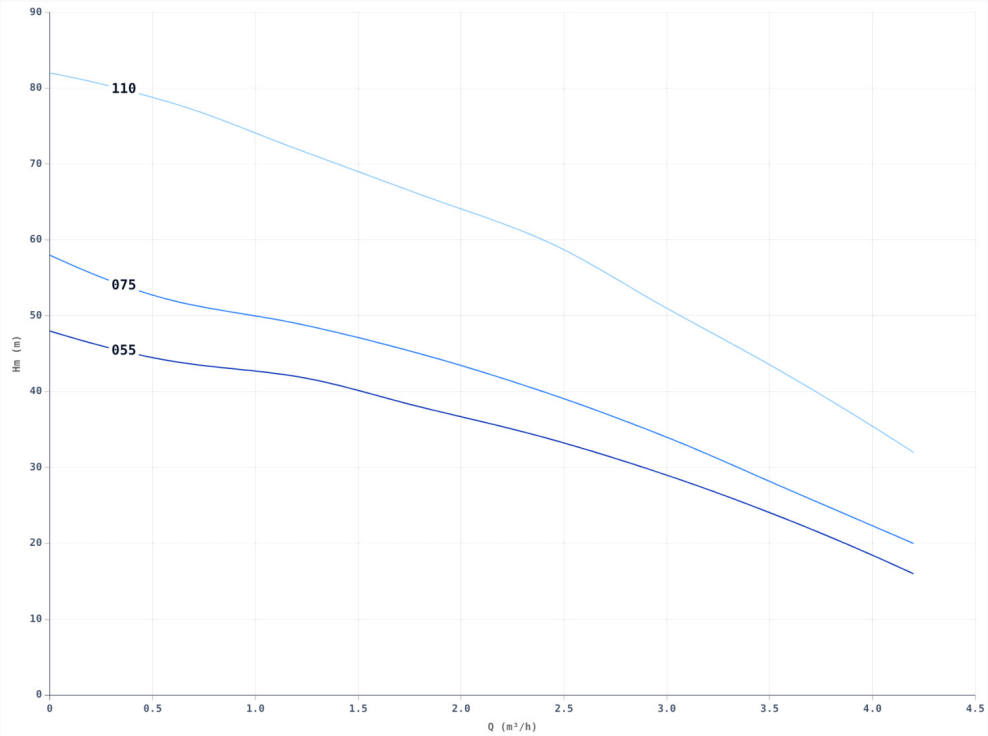
Voltage	230 V (1~) / 400 V (3~)
Max Temperature	35° C
Starts/Hour	Maximum 20 starts per hour
Discharge	1" 1/4 - 1" 1/2
Diameter	131 mm
Seal	Double mechanical seal in silicon carbide

ECOLOGIC 2E - DIMENSIONS



Model	Voltage	A (mm)	D (mm)	Weight (kg)	Outlet
2 E 55 M	230V	490,0	131,0	14,0	1" 1/4
2 E 55 T	400V	460,0	131,0	12,0	1" 1/4
2 E 75 M	230V	550,0	131,0	16,0	1" 1/4
2 E 75 T	400V	510,0	131,0	13,0	1" 1/4
2 E 110 M	230V	620,0	131,0	17,0	1" 1/4
2 E 110 T	400V	590,0	131,0	16,0	1" 1/4

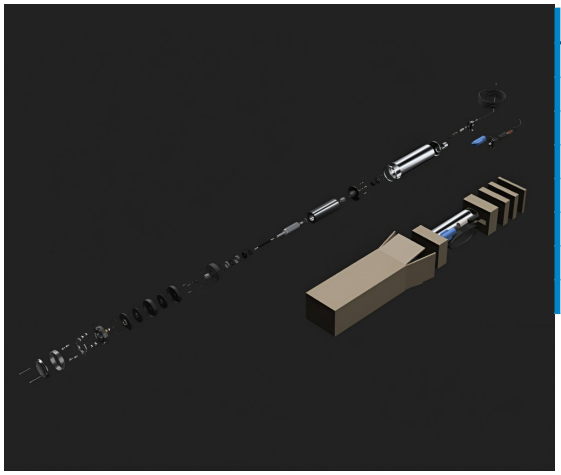
ECOLOGIC 2E - PERFORMANCE CURVE (Q - HM)



Curvas de caudal (Q) vs. altura manométrica (Hm)

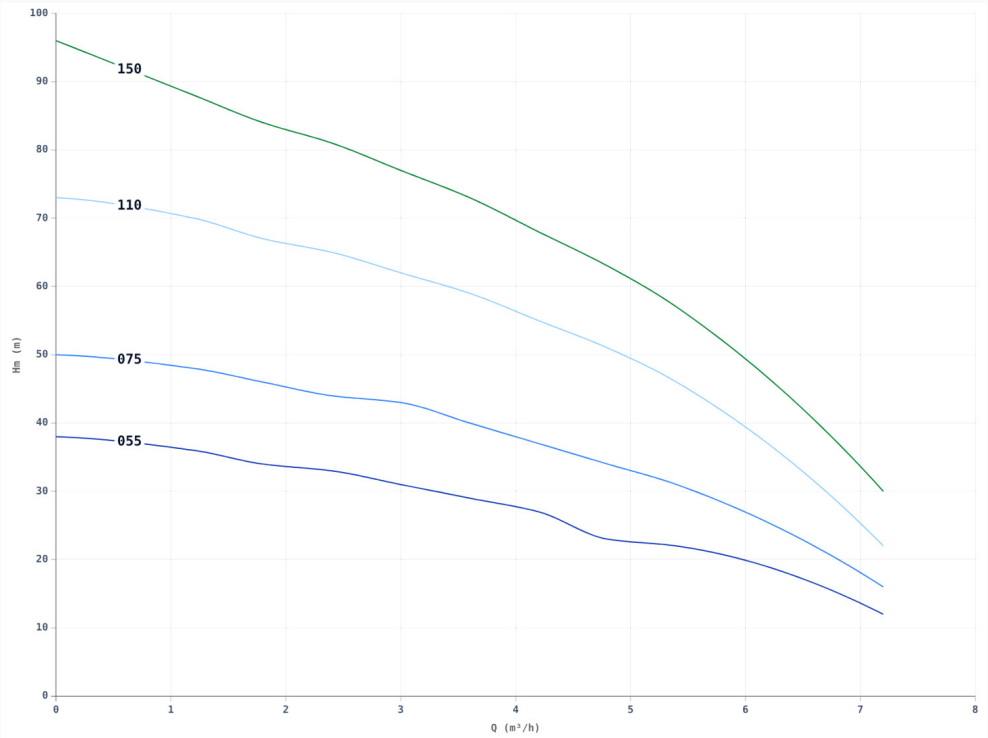
Model	kW	HP	Amperage	Q = Flow Rate								
				m³/h	0	0.6	1.2	1.8	2.4	3	3.6	4.2
				l/min	0	10	20	30	40	50	60	70
2E M/T 055	0,55	0,75	4.3 / 1.6	Hm (m)	48,0	44,0	42,0	38,0	34,0	29,0	23,0	16,0
2E M/T 075	0,75	1,00	5.7 / 2.1	Hm (m)	58,0	52,0	49,0	45,0	40,0	34,0	27,0	20,0
2E M/T 110	1,10	1,50	8.6 / 2.9	Hm (m)	82,0	78,0	72,0	66,0	60,0	51,0	42,0	32,0

ECOLOGIC 4E - DIMENSIONS



Model	Voltage	A (mm)	D (mm)	Weight (kg)	Outlet
4 E 55 M	230V	465,0	131,0	14,0	1" 1/4
4 E 55 T	400V	440,0	131,0	12,0	1" 1/4
4 E 75 M	230V	530,0	131,0	15,0	1" 1/4
4 E 75 T	400V	490,0	131,0	13,0	1" 1/4
4 E 110 M	230V	595,0	131,0	17,0	1" 1/4
4 E 110 T	400V	565,0	131,0	16,0	1" 1/4
4 E 150 M	230V	670,0	131,0	19,0	1" 1/4
4 E 150 T	400V	645,0	131,0	17,0	1" 1/4

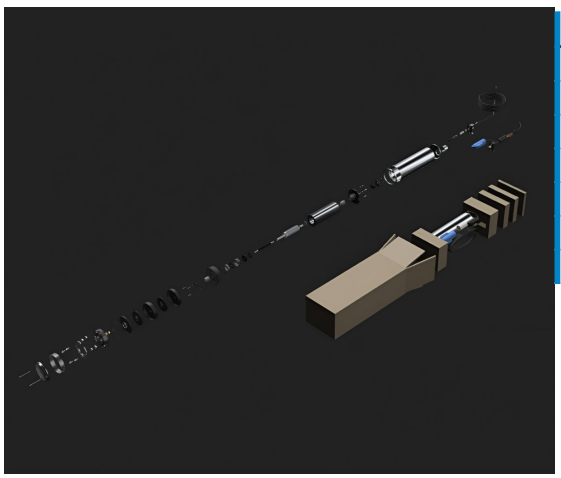
ECOLOGIC 4E - PERFORMANCE CURVE (Q - HM)



Curvas de caudal (Q) vs. altura manométrica (Hm)

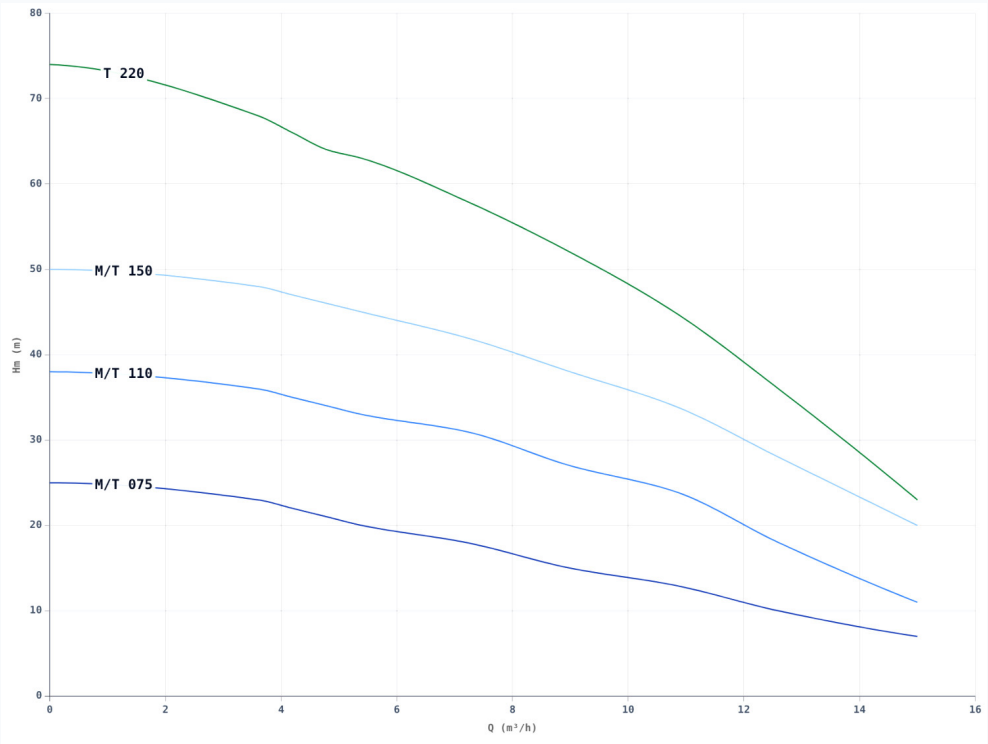
Model	kW	HP	Amperage	Q = Flow Rate											
				m³/h	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	7.2
				l/min	0	10	20	30	40	50	60	70	80	90	120
4E M/T 055	0,55	0,75	4.3 / 1.6	Hm (m)	38,0		36,0	34,0	33,0	31,0	29,0	27,0	23,0	22,0	12,0
4E M/T 075	0,75	1,00	5.7 / 2.1	Hm (m)	50,0		48,0	46,0	44,0	43,0	40,0	37,0	34,0	31,0	16,0
4E M/T 110	1,10	1,50	8.6 / 2.9	Hm (m)	73,0		70,0	67,0	65,0	62,0	59,0	55,0	51,0	46,0	22,0
4E M/T 150	1,50	2,00	10.6 / 3.8	Hm (m)	96,0		88,0	84,0	81,0	77,0	73,0	68,0	63,0	57,0	30,0

ECOLOGIC 8E - DIMENSIONS



Model	Voltage	A (mm)	D (mm)	Weight (kg)	Outlet
8 E 75 M	230V	485,0	131,0	15,0	1" 1/2
8 E 75 T	400V	455,0	131,0	13,0	1" 1/2
8 E 110 M	230V	545,0	131,0	17,0	1" 1/2
8 E 110 T	400V	520,0	131,0	15,0	1" 1/2
8 E 150 M	230V	615,0	131,0	18,0	1" 1/2
8 E 150 T	400V	575,0	131,0	16,0	1" 1/2
8 E 220 T	400V	660,0	131,0	18,0	1" 1/2

ECOLOGIC 8E - PERFORMANCE CURVE (Q - HM)



Curvas de caudal (Q) vs. altura manométrica (Hm)

Model	kW	HP	Amperage	Q = Flow Rate														
				m³/h	0	0.6	1.2	1.8	2.4	3	3.6	4.2	4.8	5.4	7.2	9	10.8	12.6	15
				l/min	0	10	20	30	40	50	60	70	80	90	120	150	180	210	250
8E M/T 075	0,75	1,00	5.7 / 2.1	Hm (m)	25,0						23,0	22,0	21,0	20,0	18,0	15,0	13,0	10,0	7,0
8E M/T 110	1,10	1,50	8.6 / 2.9	Hm (m)	38,0						36,0	35,0	34,0	33,0	31,0	27,0	24,0	18,0	11,0
8E M/T 150	1,50	2,00	10.6 / 3.8	Hm (m)	50,0						48,0	47,0	46,0	45,0	42,0	38,0	34,0	28,0	20,0
8E T 220	2,20	3,00	- / 5.9	Hm (m)	74,0						68,0	66,0	64,0	63,0	58,0	52,0	45,0	36,0	23,0