



TECHNICAL DATASHEET

Patrol & Titan Submersible Electric Pumps

Electric pumps ideal for pumping wastewater and effluent drainage



Patrol & Titan Submersible Electric Pumps are ideal for pumping wastewater and industrial effluent drainage, handling solid particles and small fibers. The TITAN model offers a maximum head of 16m and flow up to 72 m³/h, while the PATROL model reaches 24m and 96 m³/h. Built for robustness, they support temperatures up to 40°C and immersion up to 10m, making them the ideal solution for civil construction, rainwater, fountains, and underground parks.

APPLICATIONS

- Pumping of wastewater and industrial effluent drainage.
- Civil construction and rainwater drainage.
- Fountains, swimming pools and underground parks.
- Drainage systems for sewage and water with solid particles.
- Applications in environments with suspended particles and small fibers.

TECHNICAL DATA

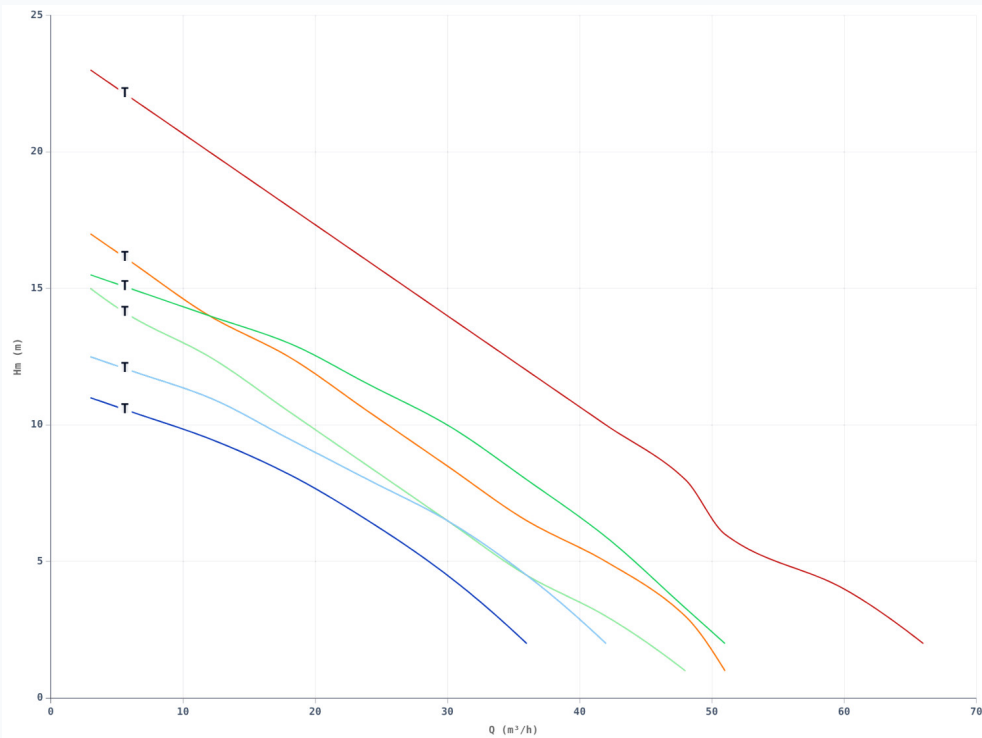
TECHNICAL SPECIFICATIONS

TITAN (Vortex)	Max Head 16 m.c.a. Max Flow 72 m ³ /h
PATROL (Bi-Canal)	Max Head 24 m.c.a. Max Flow 96 m ³ /h
Max Temperature	40 °C
Maximum liquid density	1,1 kg/dm ³
Admitted voltage	1~ 230 V 3~ 400 V
Protection	IP X8
Maximum immersion depth	10 m
Minimum immersion height	390 mm
Maximum emptying capacity	75 mm
Maximum solid passage	Ø 50 mm
Electric cable length	10 m (H07 RN-F)
Starts/Hour	20
Installation	Fixed installation with coupling foot and guide tubes

DIMENSIONS

Model	HP	kW	230V (A)	400V (A)	µF	DN	Weight (kg)
Titan 15	1,5	1,1	8,8	3,4	31,5	2"1/2	21,0
Titan 20	2,0	1,5	10,2	4,2	50,0	2"1/2	22,0
Titan 30	3,0	2,2	-	5,7	60,0	2"1/2	23,0
Patrol 15	1,5	1,1	9,0	3,5	31,5	2"1/2	-
Patrol 20	2,0	1,5	10,5	4,3	50,0	2"1/2	-
Patrol 30	3,0	2,2	-	5,7	60,0	2"1/2	-

PERFORMANCE CURVE (Q - HM)



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

Model	kW	HP	Amperage	Q = Flow Rate														
				m³/h	3	6	12	18	24	30	36	42	48	51	60	66		
				l/min	50	100	200	300	400	500	600	700	800	850	1000	1100		
Titan 15 M	1,10	1,50	8,80	Hm (m)	11,0	10,5	9,5	8,2	6,5	4,5	2,0							
Titan 15 T	1,10	1,50	3,40	Hm (m)	11,0	10,5	9,5	8,2	6,5	4,5	2,0							
Titan 20 M	1,50	2,00	10,20	Hm (m)	12,5	12,0	11,0	9,5	8,0	6,5	4,5	2,0						
Titan 20 T	1,50	2,00	4,20	Hm (m)	12,5	12,0	11,0	9,5	8,0	6,5	4,5	2,0						
Titan 30 T	2,20	3,00	5,70	Hm (m)	15,5	15,0	14,0	13,0	11,5	10,0	8,0	5,9	3,3	2,0				
Patrol 15 M	1,10	1,50	9,00	Hm (m)	15,0	14,0	12,5	10,5	8,5	6,5	4,5	3,0	1,0					
Patrol 15 T	1,10	1,50	3,50	Hm (m)	15,0	14,0	12,5	10,5	8,5	6,5	4,5	3,0	1,0					
Patrol 20 M	1,50	2,00	10,50	Hm (m)	17,0	16,0	14,0	12,5	10,5	8,5	6,5	5,0	3,0	1,0				
Patrol 20 T	1,50	2,00	4,30	Hm (m)	17,0	16,0	14,0	12,5	10,5	8,5	6,5	5,0	3,0	1,0				
Patrol 30 T	2,20	3,00	5,70	Hm (m)	23,0	22,0	20,0	18,0	16,0	14,0	12,0	10,0	8,0	6,0	4,0	2,0		