

ALPHA - BETA



Applications

Raising water from wells, irrigation systems for gardens, running irrigation for agricultural use, aqueducts, supplying water in pressure autoclaves for civil and industrial systems.

Features

- Multistage centrifugal electric submersible pumps for 4" wells. The pumps are characterized by a floating impellers system that assure high resistance to sand abrasion.
- External pump case, head, suction, shaft and others components are in stainless steel.
- Impellers in acetal resin.
- Polycarbonate diffusers with ceramic insert at wear points.
- The check valve is in stainless steel and is fitted inside the head.
- Motor coupling meets Nema standards.

Motor

- 2 poles asynchronous motor, 50 Hz, 2850 rpm.
- Insulation in F class.
- IP 68 protection.
- Working voltage: single-phase 230 V; three-phase 400 V.
- The electric motor is cooled by non toxic non polluting liquid.

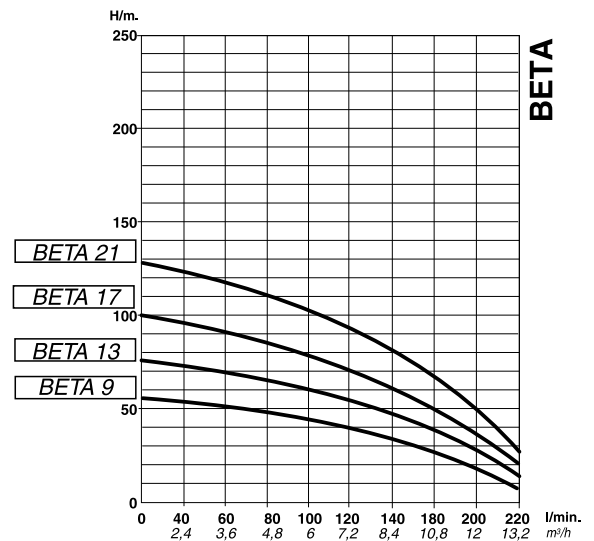
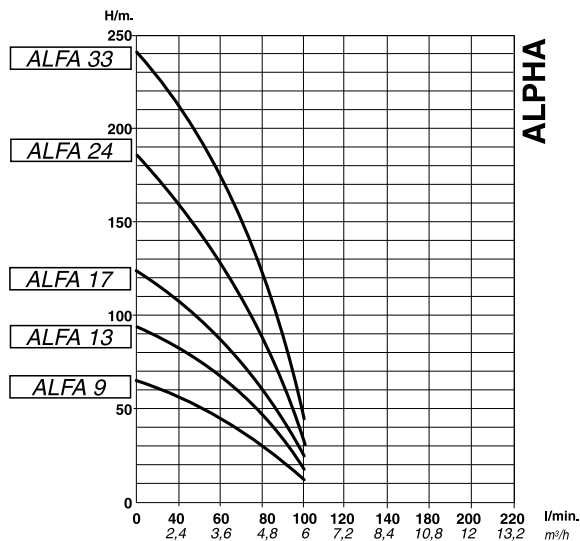
Operating conditions

- Pumped liquid: clean water, non aggressive, maximum permissible quantity of suspended sand: 250 g/m³.
- The pump should never operate in dry conditions.
- Pump body always completely submerged.
- Water temperature: from 5 °C to 30 °C.
- Vertical operating position.
- Maximum immersion depth: 120 m.
- Maximum number of starts per hour: 20.

Specifications

Pump type	Motor		Cap. MF VL 450	Max current		Outlet Ø	Flow rate																
	HP	kW		M. 230V	T. 400V		l/min m ³ /h	0	40	60	80	100	120	140	180	200	220						
								0	2,4	3,6	4,8	6	7,2	8,4	10,8	12	13,2						
ALPHA 9	1	0,75	30	6,6	2,3	1" 1/4	Manometric head (meters)	65	55	46	28	11											
ALPHA 13	1,5	1,1	40	9,5	3,3			95	80	67	42	18											
ALPHA 17	2	1,5	50	12	4,2			122	106	88	54	21											
ALPHA 24	3	2,2	60	17,5	5,9			185	153	130	84	30											
ALPHA 33	4	3	-	-	8			245	210	178	118	46											
BETA 9	2	1,5	50	12	4,2	2"		53			44	42	40	36	25	17	9						
BETA 13	3	2,2	60	17,5	5,9			78			65	61	57	52	38	28	16						
BETA 17	4	3	-	-	8			100			84	79	74	62	50	37	20						
BETA 21	5,5	4	-	-	9,6			127			106	101	95	85	63	43	25						

Performance curves



Dimensions and weights

Pump type	Dimensions mm				Weight kg		
	B	A		Ø	B	A	
		1x230V	3x400V			1x230V	3x400V
ALPHA 9	443	771	771	98,5	3,4	12,4	12,4
ALPHA 13	557	925	925	98,5	4,2	15,1	15,1
ALPHA 17	671	1119	1079	98,5	4,8	19,5	17,6
ALPHA 24	894	1372	1342	98,5	6,5	22,8	21,2
ALPHA 33	1150	-	1628	98,5	8,4	-	24,7
BETA 9	646	1094	1054	98,5	4,6	19,3	17,4
BETA 13	850	1328	1298	98,5	6	22,3	20,7
BETA 17	1080	-	1558	98,5	7,7	-	24
BETA 21	1284	-	1832	98,5	9	-	28,5

A Electric pump
B Hydraulic part

