



APPLICATIONS

Pressure boosting in domestic systems, pressurization in systems from primary water supply reservoirs, wells and tanks, lawn and garden rain irrigation.

FEATURES

- Multistage monobloc electric submersible pump with the hydraulic part located under the electric motor which is cooled by the pumped liquid.
- Single-phase version with capacitor connected inside the pump.
- The pump is equipped with 20 m of H07RN-F electric cable.
- Single-phase version with float switch available on request.
- External pump case, motor case, shaft, impellers and diffusers in stainless steel.
- Threaded delivery port 1" 1/2 from kW 1,1 up to kW 2,2.
Flanged delivery port PN25 DN 32 from kW 3 up to kW 5,5.
- The electric pump is equipped with a filter that must be always free from sediments and it does not allow the pumping of liquids with solids particles larger than 1 mm.
- On request, version for the pumping of liquids at higher temperatures.

MOTOR

- 2 poles asynchronous motor, 50 Hz, 2850 rpm.
- Class F insulation.
- IP68 protection.
- Working voltage: single-phase 230 V, three-phase 400 V.
- Electric motor cooled by non-toxic, non-polluting liquid.

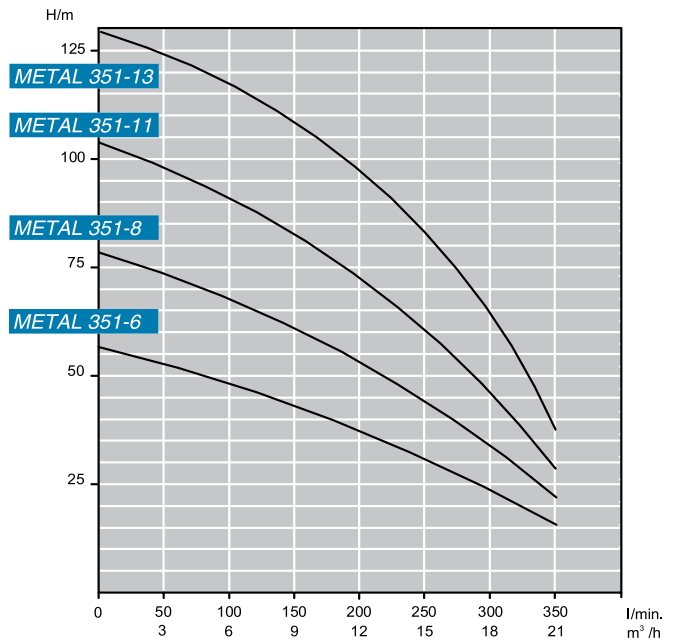
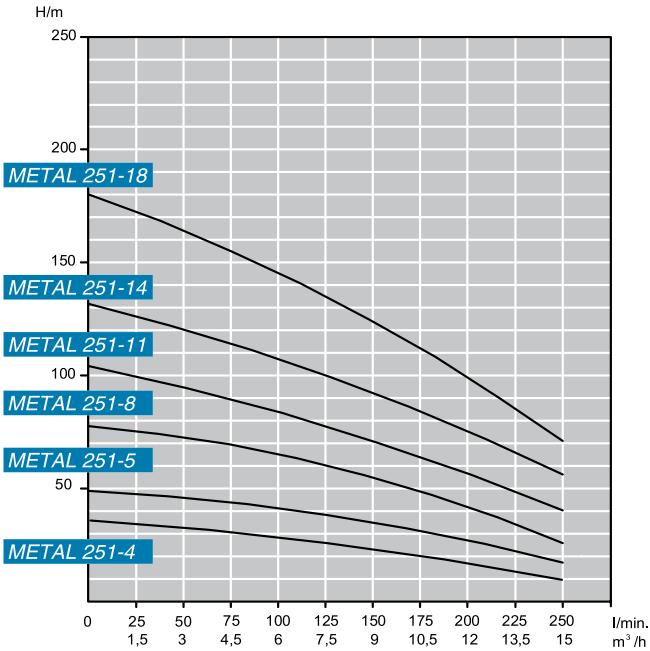
OPERATING CONDITIONS

- Pumped liquid: clean water, non aggressive, without solid particles.
- The pump can not operate in dry conditions.
- Pump body always completely submerged.
- Temperature of pumped liquid: min 5°C - max 30°C.
- Vertical operating position.
- Sump protected against freezing.
- Max immersion depth: 40 m.
- Max number of starts per hour: 20.

Technical specifications

Pump type	Motor		Max current		Outlet Ø	Delivery								
	HP	kW	230V	400V		l/min	0	50	100	150	200	250	300	350
			1~	3~			m³/h	0	3	6	9	12	15	18
METAL 251-4	1,5	1,1	9,3	2,8	1" 1/2 UNI 6083/67 PN 25 DN 32	Manometric head (m)	36	32	27	22	16	10		
METAL 251-5	2	1,5	11,6	3,9			49	45	40	34	26	18		
METAL 251-8	3	2,2	-	5,5			77	71	63	55	42	27		
METAL 251-11	4	3	-	7			104	95	84	72	56	40		
METAL 251-14	5,5	4	-	10			130	120	108	95	75	53		
METAL 251-18	7,5	5,5	-	13			180	164	146	126	104	70		
METAL 351-6	3	2,2	-	5,6	1" 1/2 UNI 6083/67 PN 25 DN 32		56	53	48	43	38	33	25	16
METAL 351-8	4	3	-	7			78	73	67	61	54	47	38	23
METAL 351-11	5,5	4	-	10,5			104	98	90	81	72	63	50	29
METAL 351-13	7,5	5,5	-	13,3			130	123	115	107	97	86	67	43

Performance curves



Dimensions and weights

Pump type	Dimensions mm	Weight Kg
	A	
METAL 251 - 4	757	23,5
METAL 251 - 5	807	25,5
METAL 251 - 8	967	32
METAL 251 - 11	1111	37
METAL 251 - 14	1276	43
METAL 251 - 18	1496	52,5
METAL 351 - 6	951	31
METAL 351 - 8	1030	35
METAL 351 - 11	1204	40,5
METAL 351 - 13	1360	47,5

