

PATENTED



Materials

Component	Material					
Pump casing Impeller	Cast iron GJL 200 EN 1561					
Motor jacket Jacket cover Casing cover	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)					
Handle	Polypropylene (with frame in AISI 304)					
Shaft	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)					
Mechanical seal: upper lower	Ceramic alumina/Carbon/NBR					
Seal lubrication oil	Oil for food/pharmaceutical machinery					

Construction

Single-impeller submersible pumps, (with two-passage) with channels impeller with vertical threaded delivery port (G 2"). Double mechanical shaft seal with interposed oil chamber, to protect against dry-running.

Applications

For domestic or industrial waste water, dirty water with solids up to 50 mm grain size, for liquids which are compatible with the pump materials.

For draining rooms or or emptying tanks.

Extraction of water from ponds, streams or pits and for rainwater collection

Operating conditions

Liquid temperature up to 35° C.

pH value: 6-11

Maximum immersion depth: 5 m. Minimum immersion depth: 275 mm. Continuous duty (with submerged motor).

Motor

2-pole induction motor, 50 Hz (n \approx 2900 rpm).

GQN: three-phase 230 V \pm 10%;

three-phase 400 V \pm 10%;

Cable: H07RN-F, 4G1 mm², length 10 m, without plug.

GQNM: single-phase 230 V ± 10%,

with float switch and thermal protector.

Incorporated capacitor.

Cable: H07RN-F, 3G1 mm2, length 10 m, with plug

CEI-UNEL 47166.

Insulation class F.

Protection IP X8 (for continuous immersion) Triple impregnation humidity-proof dry winding.

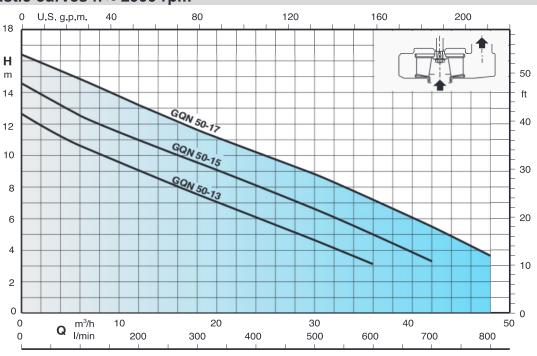
Constructed in accordance with: EN 60034-1;

EN 60335-1, EN 60335-2-41.

Other features on request

- Other voltages.
- Frequency 60 Hz (as per 60 Hz data sheet).
- Other mechanical seal.
- Cable length 20 m.
- Motor suitable for operation with frequency converter.
- Three-phase pumps with incorporated float switch.

Characteristic curves n ≈ 2900 rpm





Performance n ≈ 2900 rpm

3~	230V	400V	0V 1~ 230V 0		Ca	Capacitor ³ 1		P ₂		n ³ /h	0	3	6	12	18	24	30	36	42	48
	Α	Α		Α	μf	Vc	kW	kW	HP	l/min	0	50	100	200	300	400	500	600	700	800
GQN 50-13	4	2,3	GQNM 50-13	6,6	25	450	1,45	0,9	1,2		12,7	11,6	10,6	8,9	7,7	6,3	4,7	3,1	-	-
GQN 50-15	5,8	3,3	GQNM 50-15	8,4	30	450	1,8	1,1	1,5	H m	14,6	13,5	12,6	10,9	9,6	8,3	6,7	5	3,2	-
GQN 50-17	7,8	4,5	GQNM 50-17	12	35	450	2,2	1,5	2		16,4	15,7	14,9	13,2	11,7	10,3	8,9	7,3	5,5	3,6

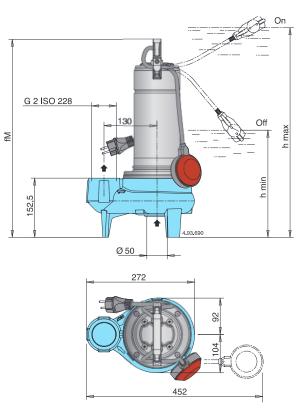
P1 Max. power input.

P2 Rated motor power output.

Density $\rho = 1000 \text{ kg/m}^3$.

Kinematic viscosity $v = max 20 \text{ mm}^2/\text{sec.}$

Dimensions and weights

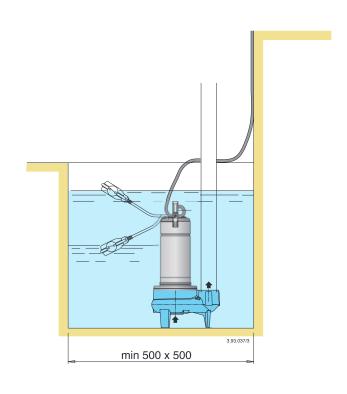


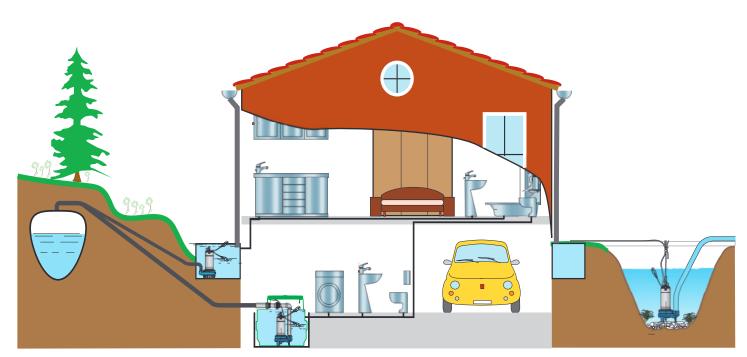
TYPE		mm	kg (1)			
TYPE	fM	h max	h min	GQN	GQNM	
GQN(M) 50-13	493	568	308	16	18	
GQN(M) 50-15	513	588	328	19	20,5	
GQN 50-17	513	588	328	20,5	-	
GQNM 50-17	543	618	358	-	22	

¹⁾ With cable length: 10 m



Installation examples







Features



