Submersible Drainage Pumps for dirty water EGT EGF



Series EGT EGF Submersible Drainage Pump for dirty water

CONSTRUCTION

- Single-impeller submersible pumps, with free-flow (vortex) impeller.
- EGT: with vertical threaded delivery port (G 2').
- EGF: with horizontal flanged and threaded delivery port (DN 50 G 2").
- Double mechanical shaft seal with interposed oil chamber, to protect against dry-running.

APPLICATIONS

- For domestic or industrial wastewater, 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).

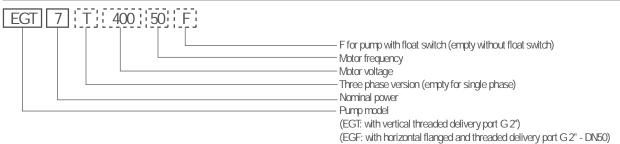
MOTOR

- 2-pole induction motor, 50 Hz (n≈ 2900 rpm).
- EGT..T EGF..T: three-phase 230 V ± 10%;
- three-phase $400 \text{ V} \pm 10\%$
- Cable: H07RN-F, 4G1 mm2, length 10 m, without plug.
- EGT EGF: single-phase 230 V \pm 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.

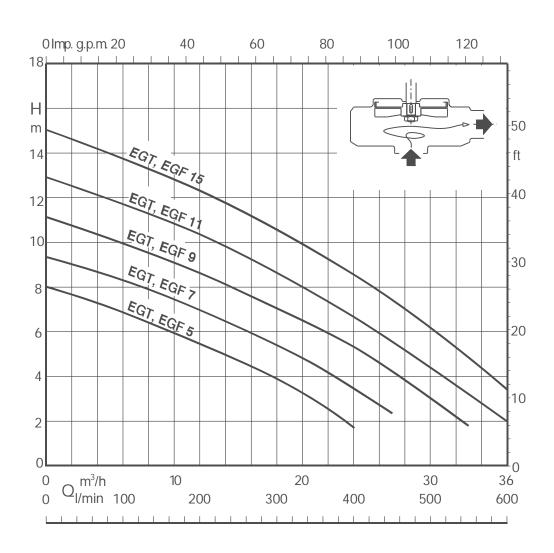
PUMP IDENTIFICATION CODE





EGT-EGF

Performance curves n ≈ 2900 rpm



Performances n ≈ 2900 rpm

	230V - 400V			00011			Τ_	P ₂		Q = DELIVERY												
3~			V 1~	230V	Capa	acitor P₁				I/min 0	50	100	150	200	250	300	350	400	450	500	550	600
		~								m³/h 0	3	6	9	12	15	18	21	24	27	30	33	36
	Α	Α		Α	μf	Vc	kW	kW	HP			H =	TOTA	L HEA	D ME1	ERS (COLU	MN OF	WATI	ER		
EGT5T EGF5T	2,6	1,5	EGT5 EGF5	4,3	16	450	0,95	0,55	0,75	8	7,4	6,9	6,3	5,6	4,8	4	3	1,8	-	-	-	-
EGT7T EGF7T	3,1	1,8	EGT7 EGF7	4,8	16	450	1,1	0,75	1	9,3	8,8	8,3	7,7	7	6,2	5,3	4,3	3,2	2,2	-	-	-
EGT9T EGF9T	4	2,3	EGT9 EGF9	6,6	25	450	1,45	0,9	1,2	11	10,5	10	9,3	8,6	7,8	7	6,2	5,2	4,2	3	1,8	-
EGT11T EGF11T	5,2	3	EGT11 EGF11	8,4	30	450	1,8	1,1	1,5	12,8	12,2	11,6	11	10,3	9,5	8,6	7,7	6,7	5,7	4,5	3,3	2
EGT15T EGF15T	6,9	4	EGT15 EGF15	12	35	450	2,2	1,5	2	15	14,4	13,7	13	12,2	11,3	10,4	9,5	8,5	7,4	6,2	4,8	3,5

P₁ Max. power input.

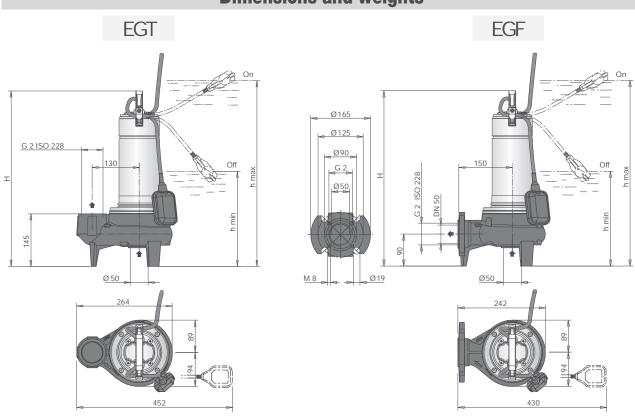
P₂ Rated motor power output.

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

Kinematic viscosity v = max 20 mm2/sec.



Dimensions and weights



TYPE		mm	kg		
TYPE	Н	h max	h min	EGT(T)	EGT
EGT 5 (T)	460	535	275	14,8	15,8
EGT 7 (T)	460	535	275	15	16
EGT 9 (T)	485	560	300	15,8	17,8
EGT 11 (T)	505	580	320	18,8	20,3
EGT 15 T	505	580	320	20,3	-
EGT 15	535	610	350	-	21,8

TYPE		mm	kg		
TYPE	Н	h max	h min	EGF(T)	EGF
EGF 5 (T)	460	535	275	15	16
EGF 7 (T)	460	535	275	15,2	16,2
EGF 9 (T)	485	560	300	16	18
EGF 11 (T)	505	580	320	19	20,5
EGF 15 T	505	580	320	20,5	-
EGF 15	535	610	350	-	22

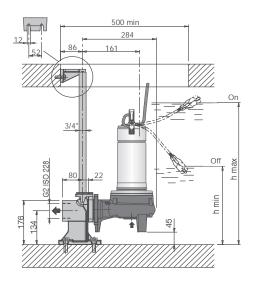
Materials

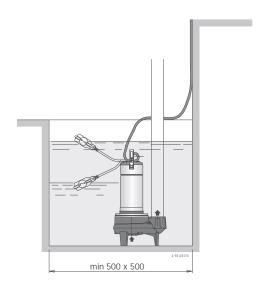
COMPONENT	MATERIAL				
D. www. applies have all on	Cook iron C II 200 FN14F/1				
Pump casing Impeller	Cast iron GJL 200 EN 1561				
Motor jacket					
Jacket cover	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)				
Casing cover					
Handle	Polypropylene (with frame in AISI 304)				
Shaft	Chrome-nickel steel 1.4301 EN 10088 (AISI 304)				
Mechanical seal upper Mechanical seal lower	Ceramic alumina/Carbon/NBR				
Seal lubrication oil	Oil for food/pharmaceutical machinery				

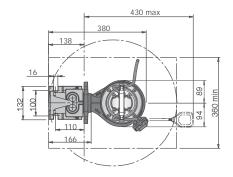


EGT-EGF

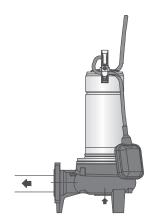
Installation dimensions

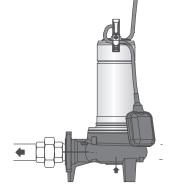


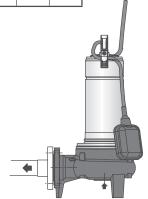




TYPE	mm 						
	h min	h max					
EGN4(T)	205	410					
EGN5(T)	220	425					
EGN7(T)	220	425					
EGN9(T)	245	450					
EGN11(T)	265	470					
EGN15(T)	265	470					
EGN15	295	500					







Pump with threaded ports: pipes screwed into the ports

Pump with threaded ports: pipes with union couplings (locally available)

Pump with DN 50 flanged ports: pipes with counter-flanges



Features

Cable length 10 m, pump single-phase with plug

Handle in polypropylene, with frame in stainless steel

Easy inspection of the capacitor area

Easy adjustment of the float switch: to allow the adjustement of start/stop pump levels

Ring against accidental extraction of the cable

The double shaft seal with oil chamber separates the motor from the water and provides further protection again-st accidental operation when dry

Relief valve: the pump is fitted to a relief valve for air release around the impeller granting a proper pump priming also after long standstill periods

> Chamber with food/ pharmaceutical machinery oil

Maximum flexibility of connection:

Impeller with epoxy cataphoresis treatment for a greater protection against the rust.

- Flange DN 50 PN 10 EN 1092-2

> Shaft in chromenickel stainless steel.

- N. 4 M8 holes on Ø 90 for duck foot coupling SA-G2"

> The free-fow impeller (vortex) costruction is particulary suitable for liquids containing solids up to 50 mm grain size.

- G2ISO228

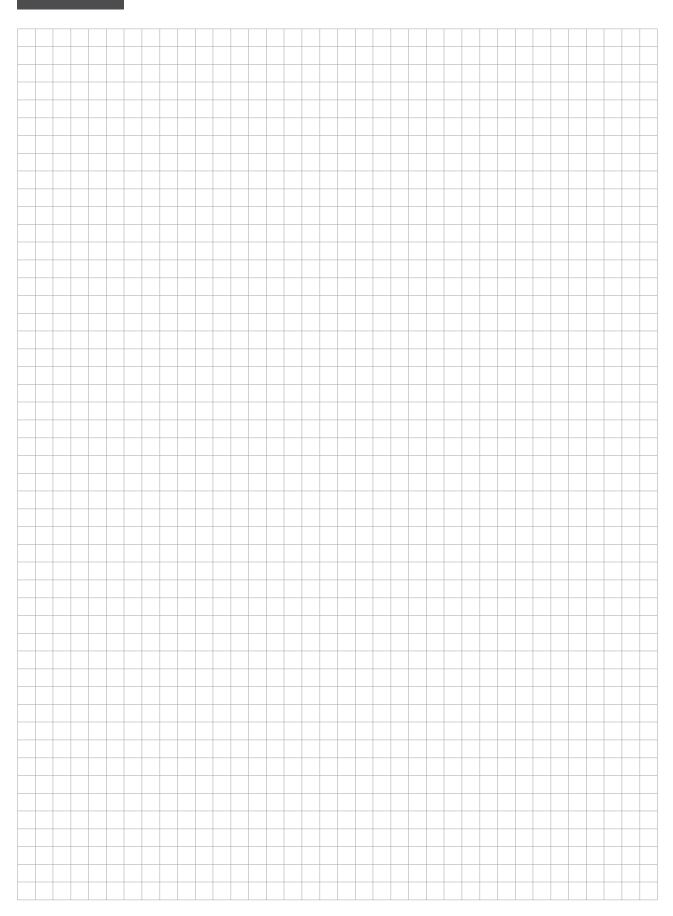
cataphoresis treatment joined to the external paint for a greater protection against the rust

Pump casing with epoxy

G 2 vertical, upward delivery port for installation in small pits, without the need for an elbow on the pump

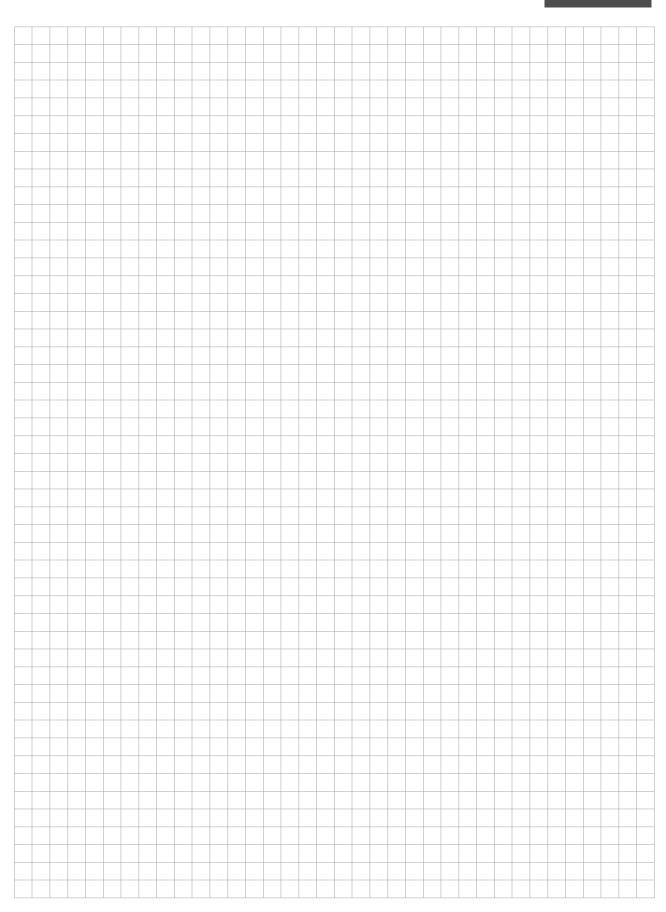


Notes





Notes





Notes

