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# **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 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 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

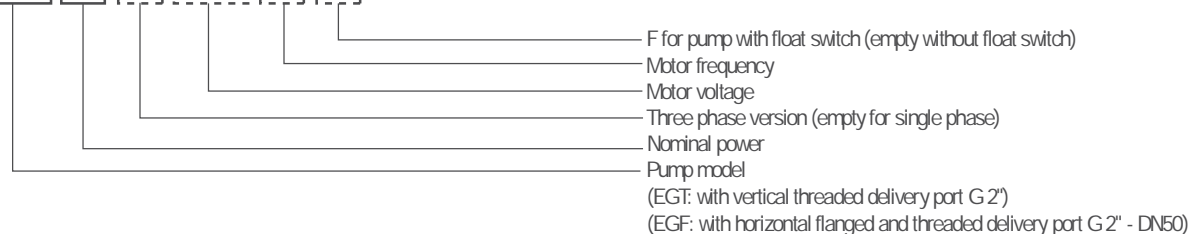
- 2-pole induction motor, 50 Hz ( $n \approx 2900$  rpm).
- EGT..T - EGF..T: three-phase 230 V  $\pm$  10%
- three-phase 400 V  $\pm$  10%
- Cable: H07RN-F, 4G1 mm<sup>2</sup>, length 10 m, without plug.
- EGT - EGF: single-phase 230 V  $\pm$  10%,
- with float switch and thermal protector.
- Incorporated capacitor.
- Cable: H07RN-F, 3G1 mm<sup>2</sup>, 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

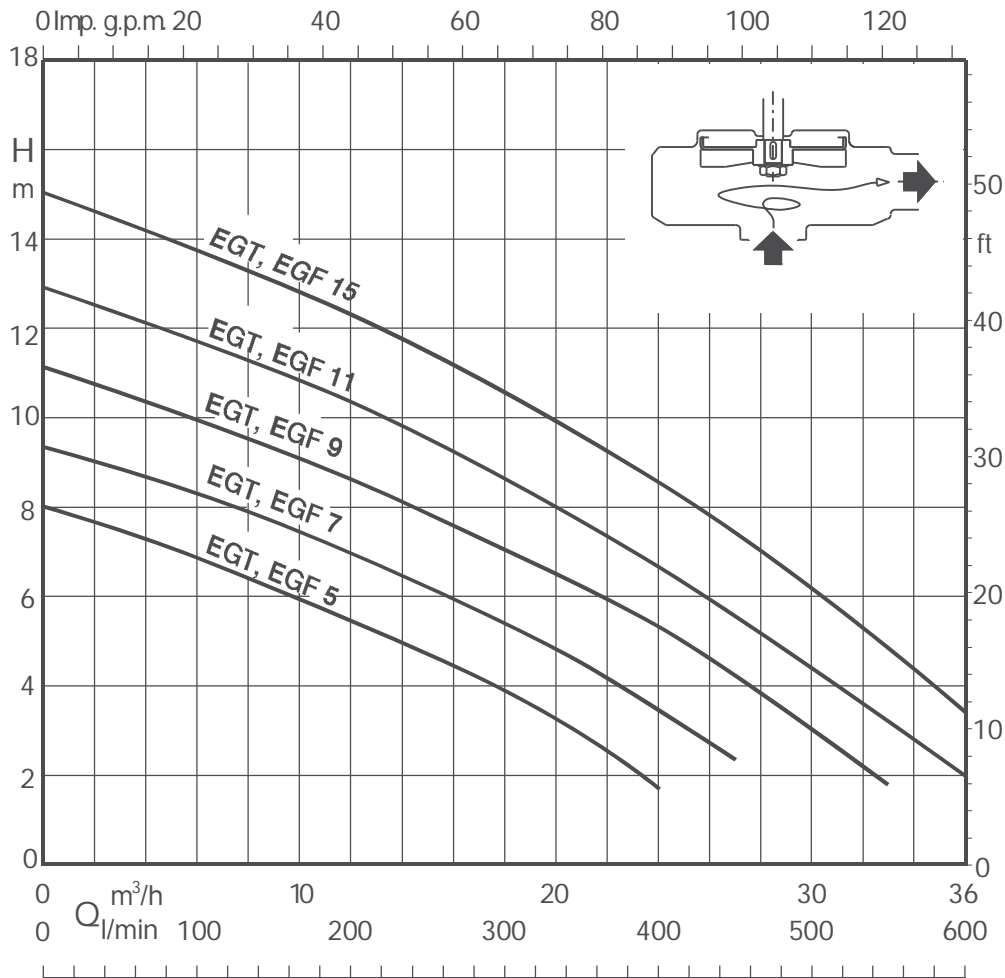
- Other voltages.
- Frequency 60 Hz (as per 60 Hz data sheet).
- Other mechanical seal.
- Cable length 20 m
- Motor suitable for operation with frequency converter.
- Three-phase pumps with incorporated float switch.

#### PUMP IDENTIFICATION CODE

EGT 7 T 400 50 F



## Performance curves n ≈ 2900 rpm



## Performances n ≈ 2900 rpm

3~	230V - 400V		1~	230V			P <sub>1</sub>			P <sub>2</sub>			Q = DELIVERY												
	A	A		A	μf	Vc	kW	kW	HP	l/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											
														H = TOTAL HEAD METERS COLUMN OF WATER											
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			

P<sub>1</sub> Max. power input.

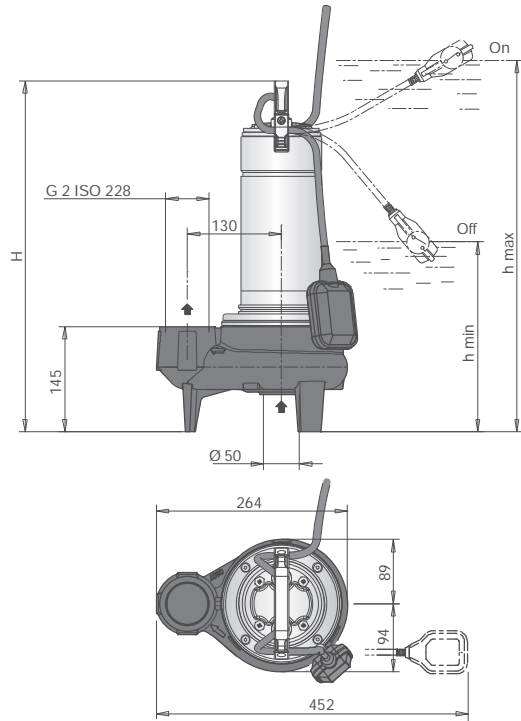
P<sub>2</sub> Rated motor power output.

Density ρ = 1000 kg/m<sup>3</sup>.

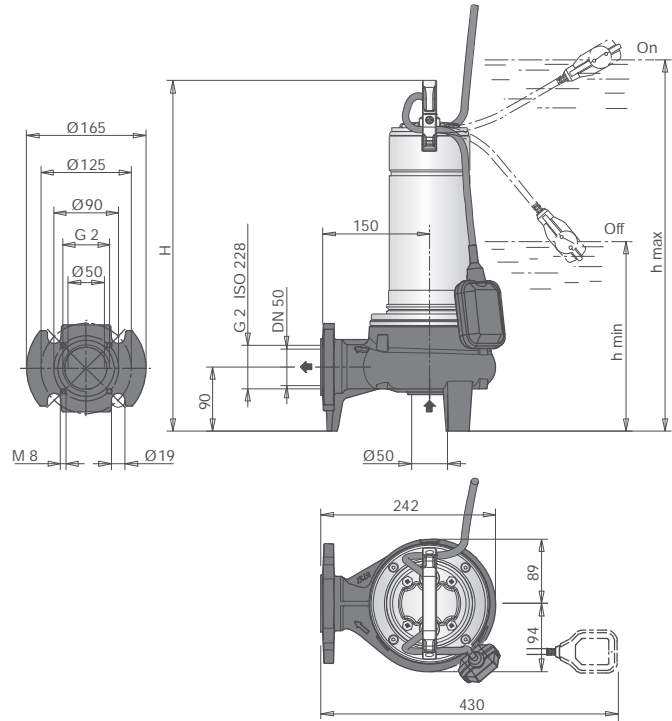
Kinematic viscosity ν = max 20 mm<sup>2</sup>/sec.

## Dimensions and weights

### EGT



### EGF



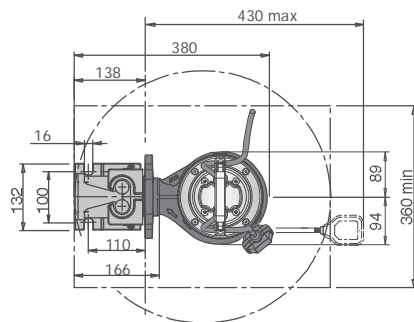
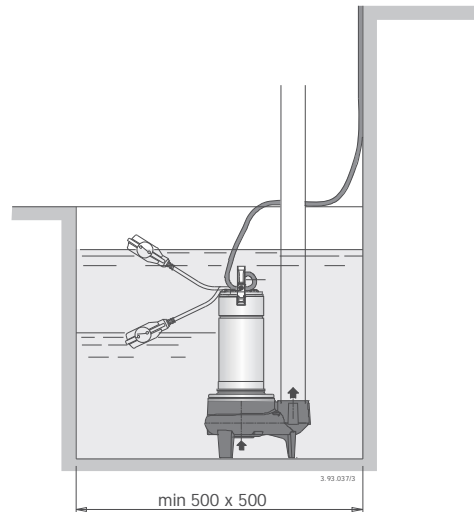
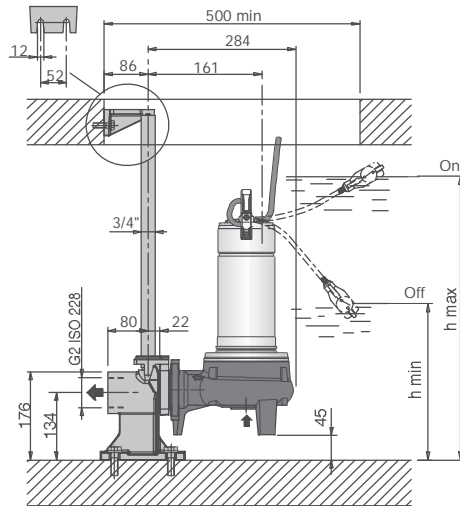
TYPE	mm			kg	
	H	h max	h min	EGT(T)	EGT
EGT 5 (T)	460	535	275	14,8	15,8
EGT 7 (T)	460	535	275	15	16
EGT 9 (T)	485	560	300	15,8	17,8
EGT 11 (T)	505	580	320	18,8	20,3
EGT 15 T	505	580	320	20,3	-
EGT 15	535	610	350	-	21,8

TYPE	mm			kg	
	H	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

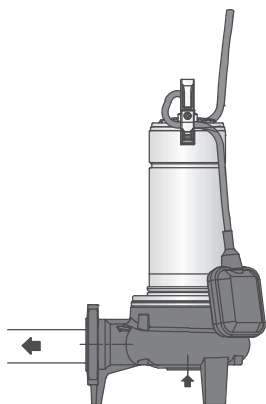
## Materials

COMPONENT	MATERIAL
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 Mechanical seal lower	Ceramic alumina/Carbon/NBR
Seal lubrication oil	Oil for food/pharmaceutical machinery

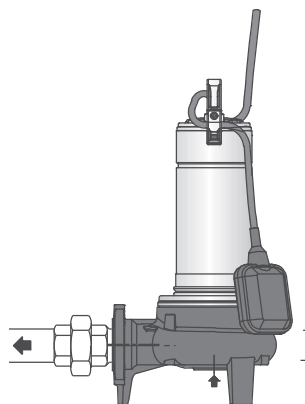
## Installation dimensions



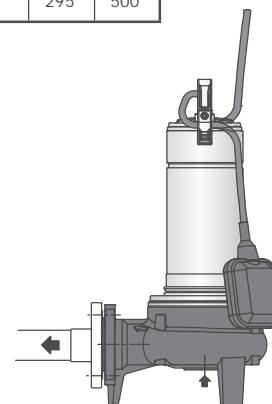
TYPE	mm	
	h min	h max
EGN4(T)	205	410
EGN5(T)	220	425
EGN7(T)	220	425
EGN9(T)	245	450
EGN11(T)	265	470
EGN15(T)	265	470
EGN15	295	500



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

