ED-EGT/EGF Series - Drainage pumps
50 Hz

EGT/EGF - SUBMERSIBLE DRAINAGE PUMP FOR DIRTY WATER

FEATURES & BENEFITS

APPLICATIONS

Domestic or industrial waste water, dirty water containing 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

FOR DIRTY WATER, SOLIDS UP TO 50 MM

- Containing solids up to 50 mm grain size, for liquids which are compatible with the pump materials
- Free-flow (Vortex) impeller construction
- Cast iron pump casing and impeller with epoxy cataphoresis treatment
- Vertical delivery port (G 2")
- Double mechanical seal in oil chamber, to protect against dry-running
- Silicon carbide mechanical seal version on request
- Dry winding motor, designed in accordance with: EN 60034-1; EN 60335-1, EN 60335-2-41

PUMP IDENTIFICATION CODE

	7	T	400	50	F	SIC

- SIC: Mechanical seal version: Silicon carbide / Silicon carbide (on request)
- F for pump with float switch (empty without float switch)
- 50: Motor frequency
- 400: Motor voltage
- T: Three phase version (empty for single phase)
- 7: Nominal power
- EGT: Pump model
  EGT: with vertical threaded delivery port G 2"
  EGF: with horizontal flanged and threaded delivery port G 2" - DN50

00140022EN 02/2018

GENERAL FEATURES

Model		EGT	EGF
Max. head [m]		15	
Flow [m³/h]		up to 36 m³/h	
Liquid temperature range [°C]		up to 35 °C	
Minimum immersion depth [mm]		275 mm	
Maximum immersion depth [m]		5 m	
Maximum solids size [mm]:		50 mm	
Power cable:	**Single Phase**	H07RN-F, 3G1 mm², length 10 m, with plug CeI-UneL 47166	
	Three Phase	H07RN-F, 4G1 mm², length 10 m, without plug	
Motor power [kW]:		0.55 - 1.5 kW	
Motor type:		2-pole induction motor, 50 Hz (n ≈ 2900 rpm)	
Motor standard voltage:	**Single Phase**	230 V ± 10%, with float switch and thermal protector	
	Three Phase	230 V ± 10%	400 V ± 10%
Protections:		Insulation class F Protection IPX8 (for continuous immersion) Triple impregnation humidity-proof dry winding	
Capacitor:		Built-in for single phase version	
Float switch:		Included in single phase version	

DESIGN FEATURES

Cable length 10 m,
pump single-phase with plug

Handle in polypropylene,
with frame in stainless steel

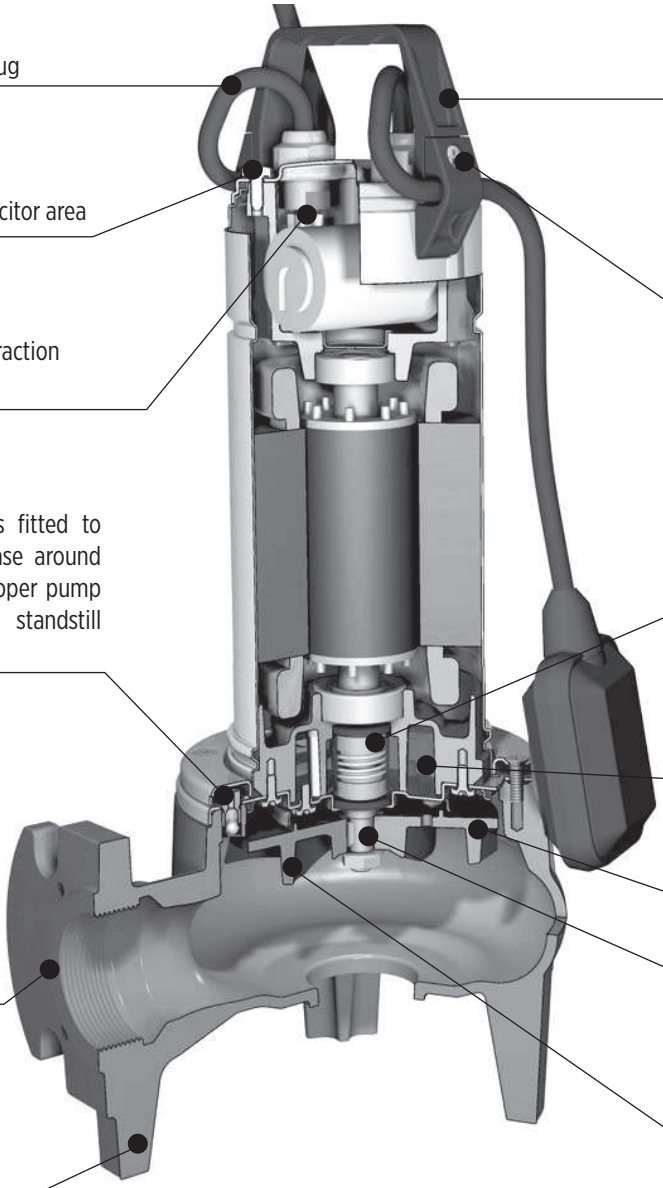
Easy inspection of the capacitor area

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 against 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:

- Flange DN 50 PN 10 EN 1092-2
- N. 4 M8 holes on Ø 90 for duck foot coupling SA-G2"
- G 2 ISO 228

Impeller with epoxy cataphoresis treatment for a greater protection against corrosion

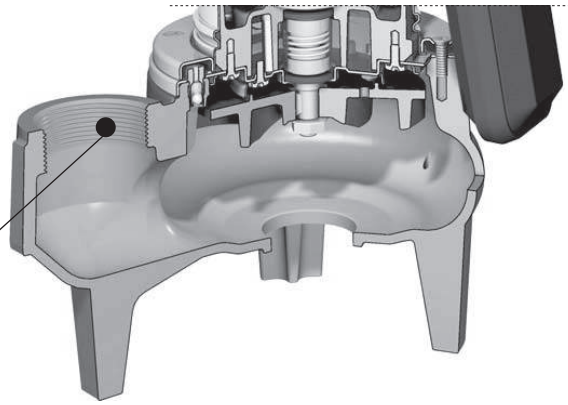
Shaft in chrome- nickel stainless steel

Pump casing with epoxy cataphoresis treatment joined to the external paint for a greater protection against the corrosion

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

EGT

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



SPARE PARTS AND MATERIALS

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

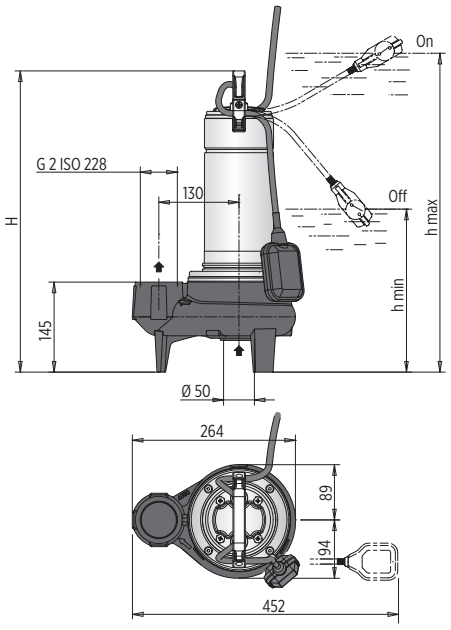
DIMENSIONS AND WEIGHTS

Pump model	Dimensions [mm]			Weight [kg]	
	H	h max	h min	Single-phase	Three-phase
EGT 7 (T)	460	535	275	16	15
EGT 9 (T)	485	560	300	17.8	15.8
EGT 11 (T)	505	580	320	20.3	18.8
EGT 15 T	505	580	320	-	20.3
EGT 15	535	610	350	21.8	-

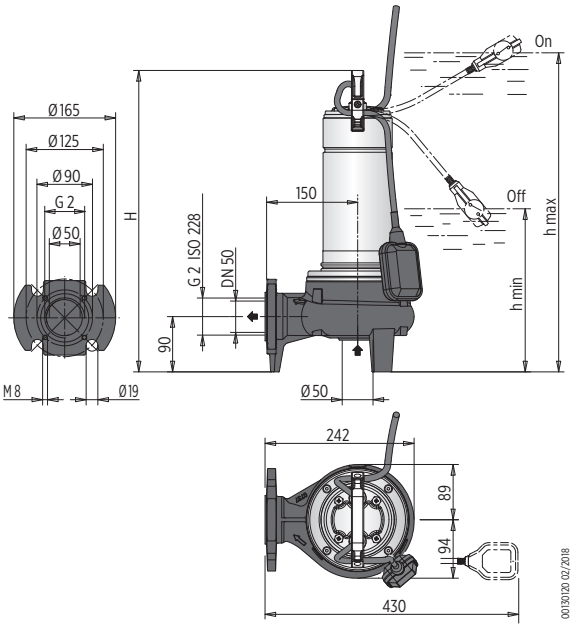
Pump model	Dimensions [mm]			Weight [kg]	
	H	h max	h min	Single-phase	Three-phase
EGF 7 (T)	460	535	275	16.2	15.2
EGF 9 (T)	485	560	300	18	16
EGF 11 (T)	505	580	320	20.5	19
EGF 15 T	505	580	320	-	20.5
EGF 15	535	610	350	22	-

DIMENSIONAL DRAWINGS

EGT

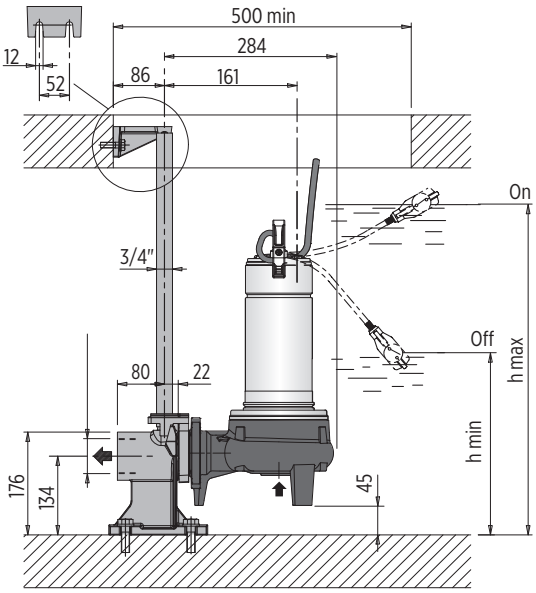


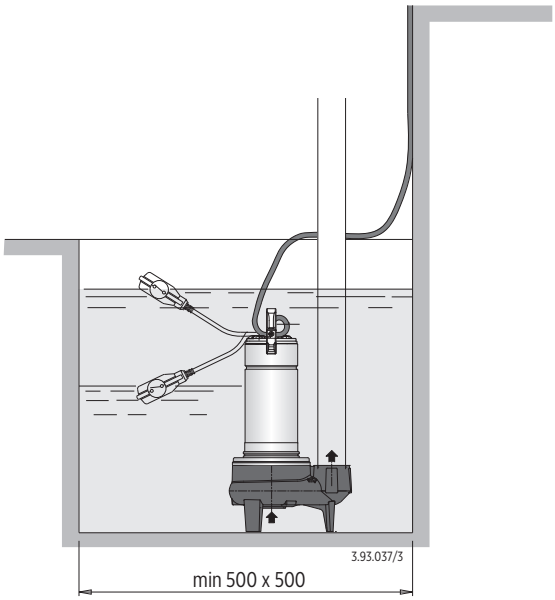
EGF

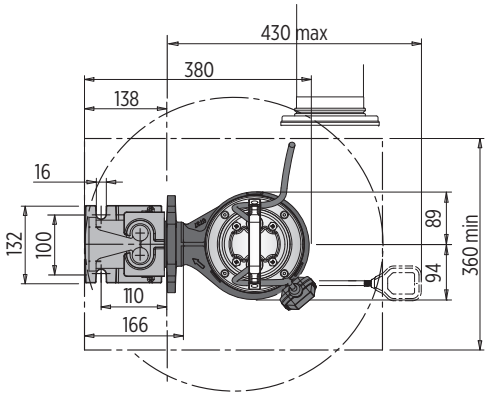


INSTALLATION

STATIONARY INSTALLATION





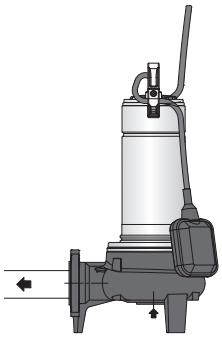


00130021 02/2018

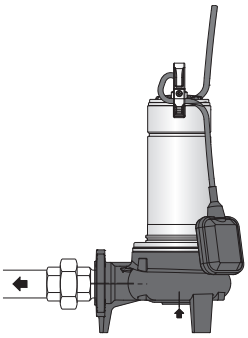
EGT		
Pump model	Dimensions [mm]	
	h max	h min
EGT 7 (T)	535	275
EGT 9 (T)	560	300
EGT 11 (T)	580	320
EGT 15 T	580	320
EGT 15	610	350

EGF		
Pump model	Dimensions [mm]	
	h max	h min
EGF 7 (T)	535	275
EGF 9 (T)	560	300
EGF 11 (T)	580	320
EGF 15 T	580	320
EGF 15	610	350

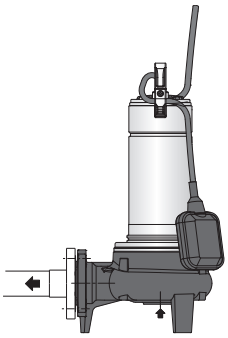
CONNECTION EXAMPLES



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

00130122EN 02/2018

EGT/EGF HYDRAULIC PERFORMANCE AT 50 HZ ≈ 2900 1/MIN

Pump model	1x230 V	Capacitor		P_1	P_2		Q = DELIVERY											
							l/min 0	50	100	150	200	250	300	350	400	500	550	600
							m³/h 0	3	6	9	12	15	18	21	24	30	33	36
	[A]	[µf]	[Vc]	[kW]	[kW]	[HP]	H = TOTAL HEAD METERS COLUMN OF WATER [m]											
EGT/F 7	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	-	-
EGT/F 9	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	1.8	-
EGT/F 11	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	3.3	2
EGT/F 15	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	4.5	3.5

P_1: Max absorbed power P_2: Motor nominal power Density ρ= 1000 Kg/m³ Viscosity kinematic v = max 20 mm²/sec

Pump model	3x230 V	3x400 V	P_1	P_2		Q = DELIVERY											
						l/min 0	50	100	150	200	250	300	350	400	500	550	600
						m³/h 0	3	6	9	12	15	18	21	24	30	33	36
	[A]	[A]	[kW]	[kW]	[HP]	H = TOTAL HEAD METERS COLUMN OF WATER [m]											
EGT/F 7 T	3.1	1.8	1.1	0.75	1	9.3	8.8	8.3	7.7	7	6.2	5.3	4.3	3.2	2.2	-	-
EGT/F 9 T	4	2.3	1.45	0.9	1.2	11	10.5	10	9.3	8.6	7.8	7	6.2	5.2	4.2	1.8	-
EGT/F 11 T	5.2	3	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	3.3	2
EGT/F 15 T	6.9	4	2.2	1.5	2	15	14.4	13.7	13	12.2	11.3	10.4	9.5	8.5	7.4	4.5	3.5

P_1: Max absorbed power P_2: Motor nominal power Density ρ= 1000 Kg/m³ Viscosity kinematic v = max 20 mm²/sec