

ED-EGT/EGF Series - Drainage pumps 50 Hz



ED – STAINLESS STEEL DRAINAGE SUBMERSIBLE PUMPS FOR DIRTY WATER

FEATURES & BENEFITS

APPLICATIONS



For clean and dirty water, containing solids up to 35 mm grain size

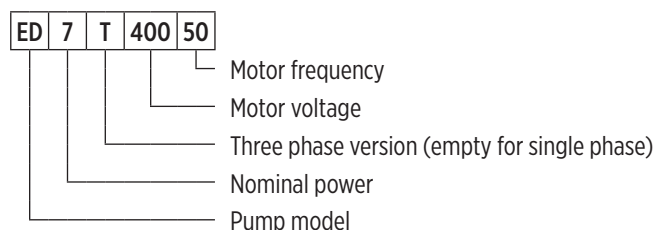


The construction with smooth surfaces in rolled-stainless steel and easy access for cleaning is suitable for certain uses in the food industry

FOR CLEAN AND DIRTY WATER, SOLIDS UP TO 35 MM

- Containing solids up to 35 mm grain size
- Stainless steel pump casing and impeller
- Vertical delivery port
- Double mechanical seal in oil chamber
- Dry winding motor, designed in accordance with: EN 60034-1; EN 60335-1, EN 60335-2-41

PUMP IDENTIFICATION CODE



00140020EN 09/2023

GENERAL FEATURES

Model	ED
Flow [m³/h]	up to 26 m³/h
Liquid temperature range [°C]	up to 35 °C
Minimum immersion depth [mm]	248 mm
Maximum immersion depth [m]	5 m
Maximum solids size [mm]:	35 mm
Power cable:	
Single Phase	H07RN-F, 3G1 mm², length 10 m (5 m for ED5), with plug Cel-UnaL 47166 / Schuko
Three Phase	H07RN-F, 4G1 mm², length 10 m (5 m for ED5T), without plug
Motor power [kW]:	0.55 - 0.9 kW
Motor type:	2-pole induction motor, 50Hz (n ≈ 2900 rpm)
Motor standard voltage:	
Single Phase	230 V ± 10 %; with float switch and thermal protector
Three Phase	230 V ± 10 %; with float switch and thermal protector
Protections:	230 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

Power cable with plug on single-phase pumps

Handle in polypropylene, with frame in stainless steel

Easy inspection of the capacitor area

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

Ring against accidental extraction of the cable

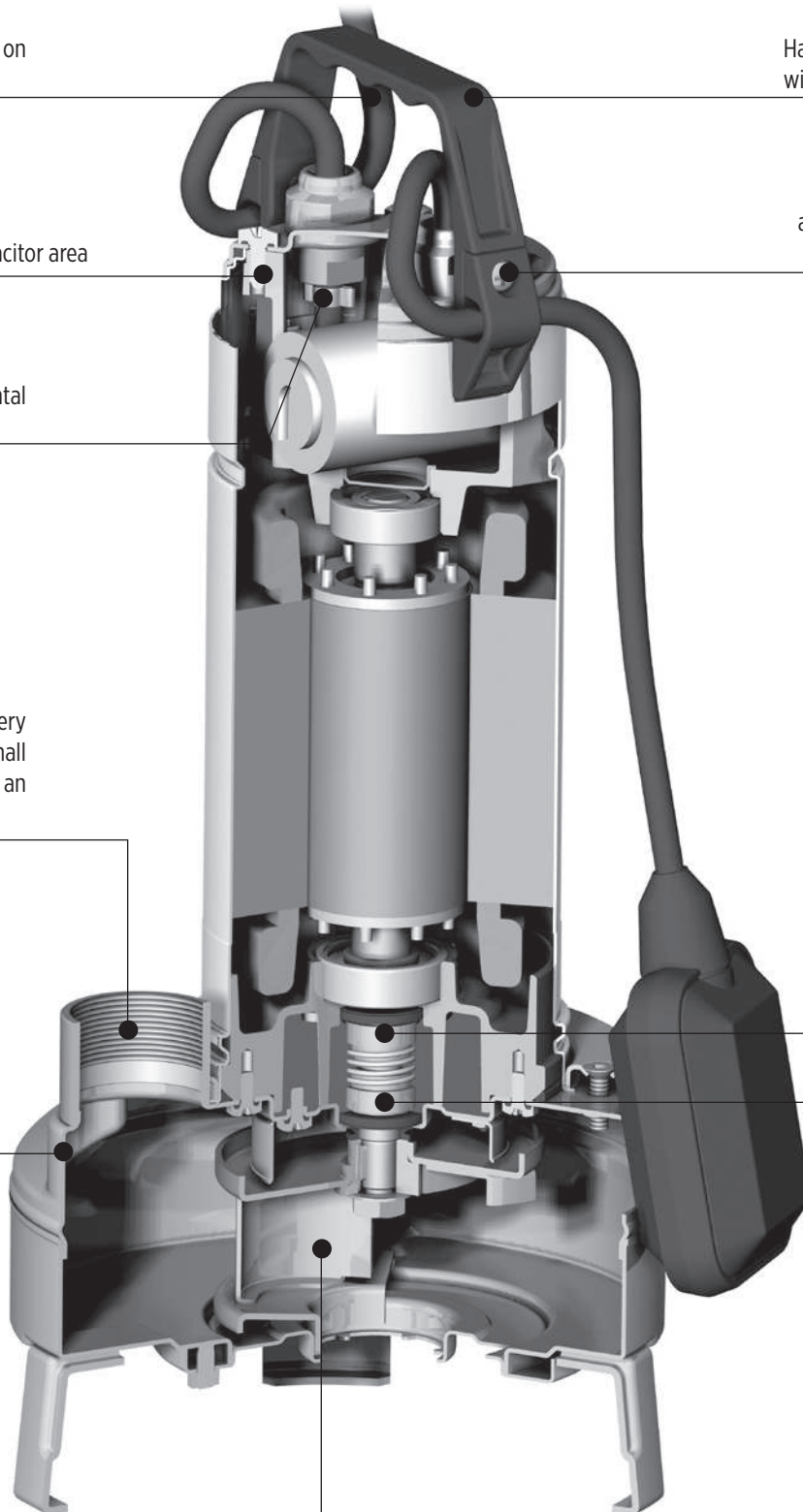
G 1 1/2 vertical, upward delivery port for installation in small pits, without the need for an elbow on the pump

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

Totally in stainless steel all parts in contact with the pumped liquid both internal and external are in stainless steel AISI 304

Shaft in chrome-nickel stainless steel

ED the two-passage impeller construction is particularly suitable for liquids containing solids up to 35 mm grain size



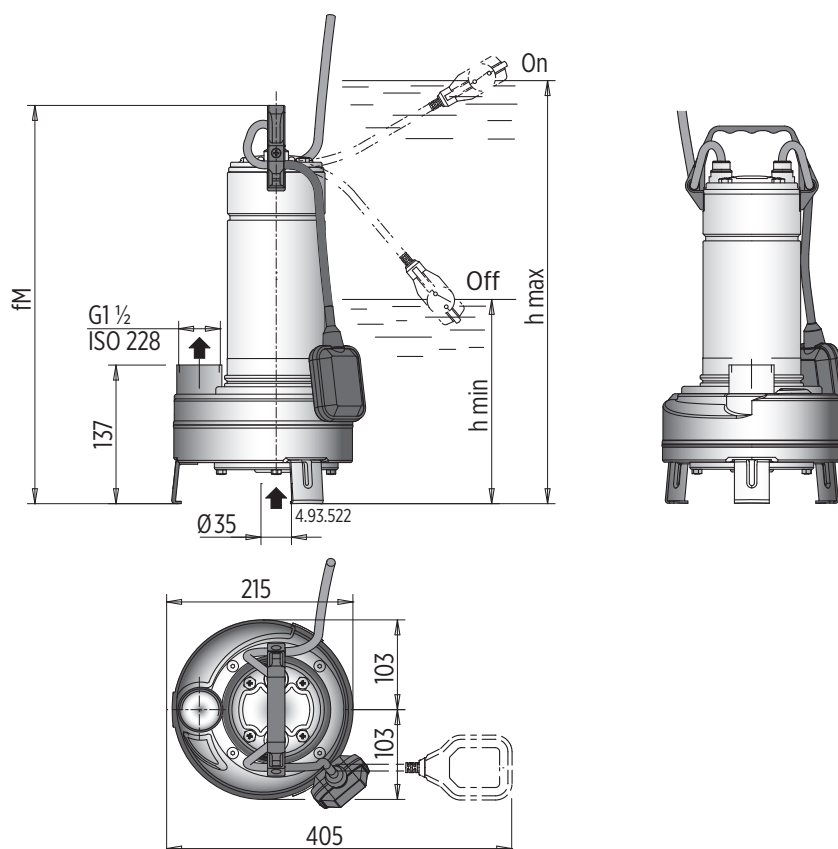
SPARE PARTS AND MATERIALS

Part description	Part description	Standard	
		ASTM/AISI	DIN/EN
Pump casing / Impeller / 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	Ceramic alumina / Carbon / NBR	-	-
Mechanical seal lower	Ceramic alumina / Carbon / NBR	-	-
Seal lubrication oil	Oil for food/pharmaceutical machinery	-	-

DIMENSIONS AND WEIGHTS

Pump model	Dimensions [mm]			h min	
	fM	h max	h min	Single-phase	Three-phase
ED5(T)	433	508	248	12	10.3
ED9(T)	458	533	273	14	12.5

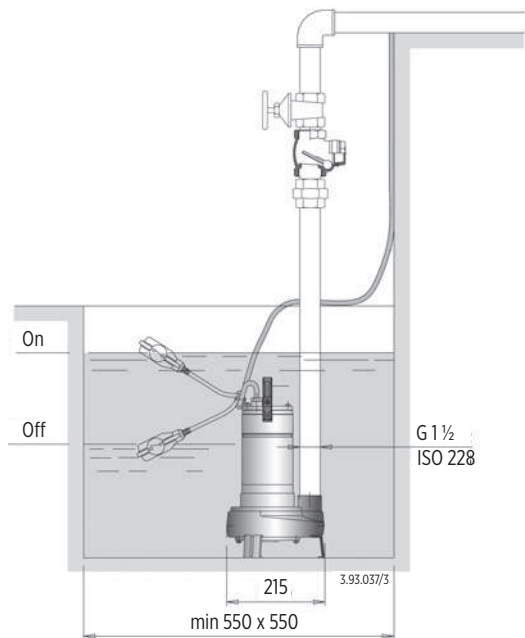
DIMENSIONAL DRAWINGS



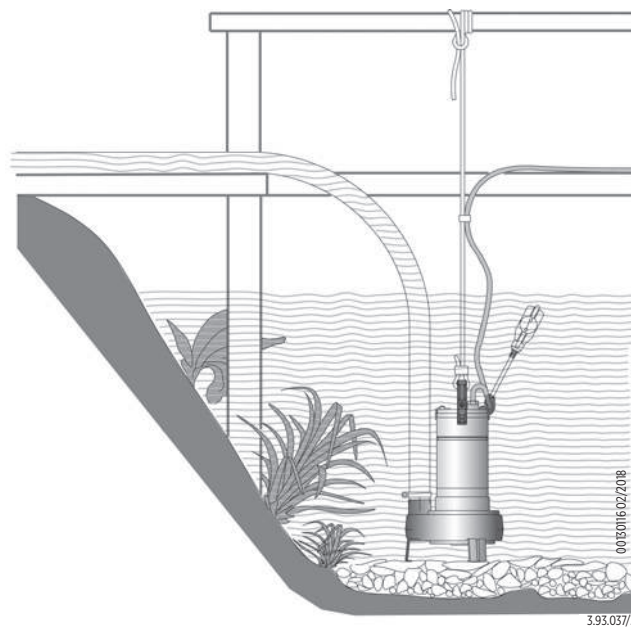
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INSTALLATION

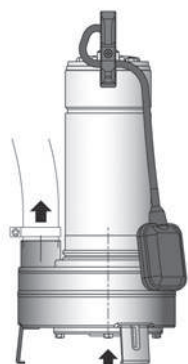
STATIONARY INSTALLATION



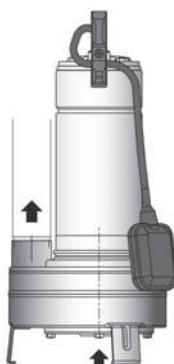
TRANSPORTABLE INSTALLATION



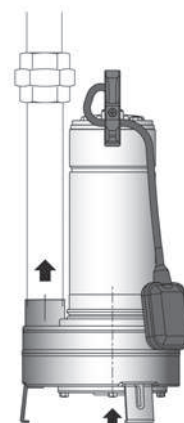
CONNECTION EXAMPLES



Pump with hosetail seat and clamp
(locally available)



Pump with pipe screwed into
the delivery port



Pump with pipe and union
(locally available)

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ED 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	433
							m³/h 0	3	6	9	12	15	18	21	24	26
	[A]	[µf]	[Vc]	[kW]	[kW]	[HP]	H = TOTAL HEAD METERS COLUMN OF WATER [m]									
ED 5	4.6	16	450	1	0.55	0.75	10.4	9	8	7.1	6.3	5.4	4.4	3.2	-	-
ED 9	6.6	25	450	1.45	0.9	1.2	12.9	11.6	10.5	9.5	8.7	7.8	6.9	5.9	4.7	4

P₁: Max absorbed power

P₂: Motor nominal power

Density ρ = 1000 Kg/m³

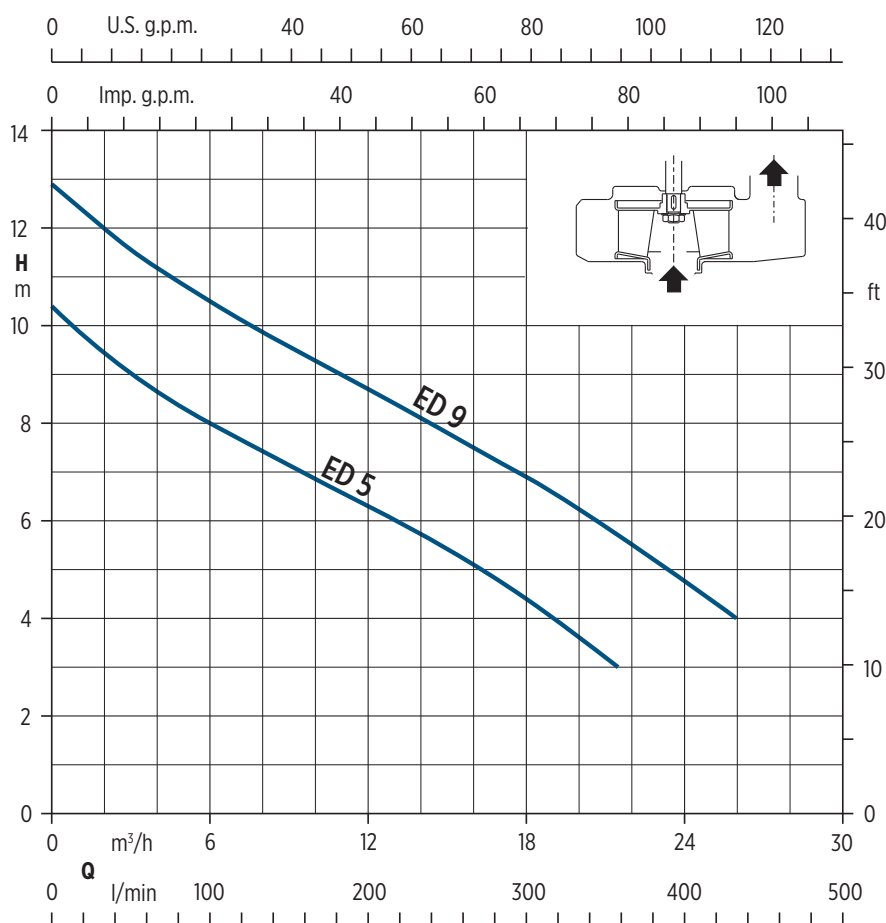
Viscosity kinematic ν = max 20 mm²/sec

Pump model	3x230 V	3x400 V	P ₁	P ₂		Q = DELIVERY									
						l/min 0	50	100	150	200	250	300	350	400	433
						m³/h 0	3	6	9	12	15	18	21	24	26
	[A]	[A]	[kW]	[kW]	[HP]	H = TOTAL HEAD METERS COLUMN OF WATER [m]									
ED 5 T	2.8	1.6	1	0.55	0.75	10.4	9	8	7.1	6.3	5.4	4.4	3.2	-	-
ED 9 T	4	2.3	1.45	0.9	1.2	12.9	11.6	10.5	9.5	8.7	7.8	6.9	5.9	4.7	4

P₁: Max absorbed power

P₂: Motor nominal power

Density ρ = 1000 Kg/m³

Viscosity kinematic ν = max 20 mm²/sec


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