DTR/DTRT

Sewage
Grinder



DTR 150-300 | DTRT 400-1000 | DTRT 400-1000/P

Drainage and waste water pumps equipped with open impeller and grinder system able to shred sewage with suspended solids and prevent the pump from clogging. Best for emptying of septic tanks and residential sumps as well as for rain water systems and for draining of flooded areas where seamless operation is required. The quick coupling feet DN50 and DN65 is available for flanged pumps.



Grey water

Black water

Construction features

Painting	cataphoresis
Pump body	cast iron
Impeller	cast iron
Mechanical seal	double seal with oil barrier: silicon carbide on pump side, ceramic-graphite on motor side
Motor shaft	stainless steel AISI 304
Max submergence	20 m
Liquid temperature	0 - 40 °C
Grinder	treated stainless steel
Bolts	A2 stainless steel
Foot support	galvanized iron
Gaskets	NBR rubber

Motor

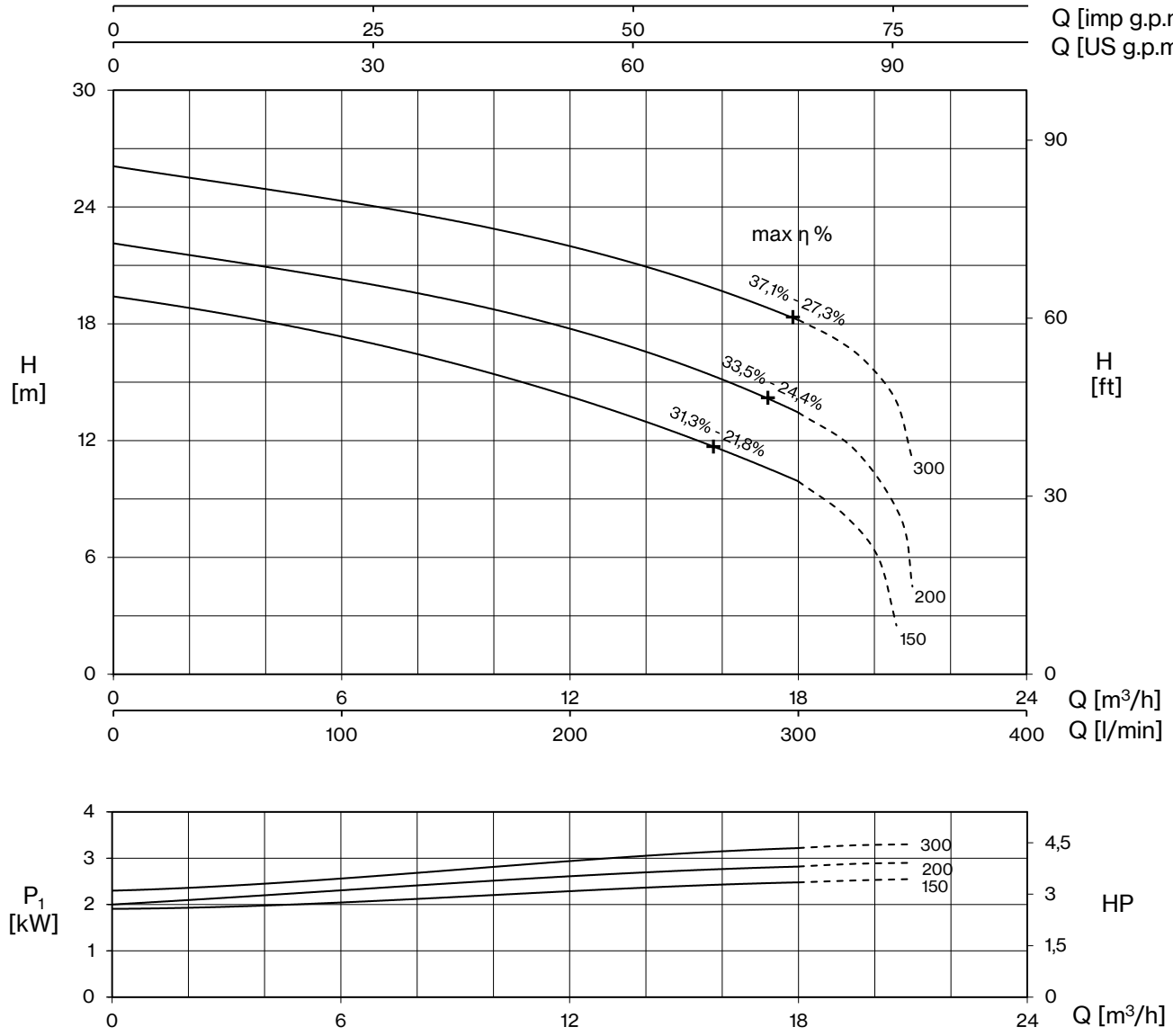
2 Poles induction motor	3~ 230V - 50Hz 3~ 400V - 50Hz 3~ 230/400V - 50Hz 3~ 400/690V - 50Hz 1~ 230V - 50Hz required run capacitor (35µF for 1,5HP models, 50µF for 2HP model) + start capacitor (80µF with disjuntor)
Insulation class	F
Protection degree	IPX8

DTR [ ] **150** **-CF** ..... counter-flange: [ ] not included, **CF** included

[ ] motor: [ ] 1~ **T** 3~

pump type

LOTS				
TYPE	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
DTR(T) 150÷300	85×110×145	18	85×110×190	27
DTRT 400-550	85×110×170	12	85×110×170	12
DTRT 750-1000	100×120×190	12	100×120×190	12



TYPE - 50 Hz		CURRENT				
1~	3~	230 V	3~ 230V (*)	3~ 400V	230/400 V ⅄ / △ (*)	400/690 V ⅄ / △
DTR 150	**DTRT 150**	11,5	7,6	4,4	-	-
DTR 200	**DTRT 200**	13,6	8,8	5,1	-	-
-	**DTRT 300**	-	10,0	5,8	-	-

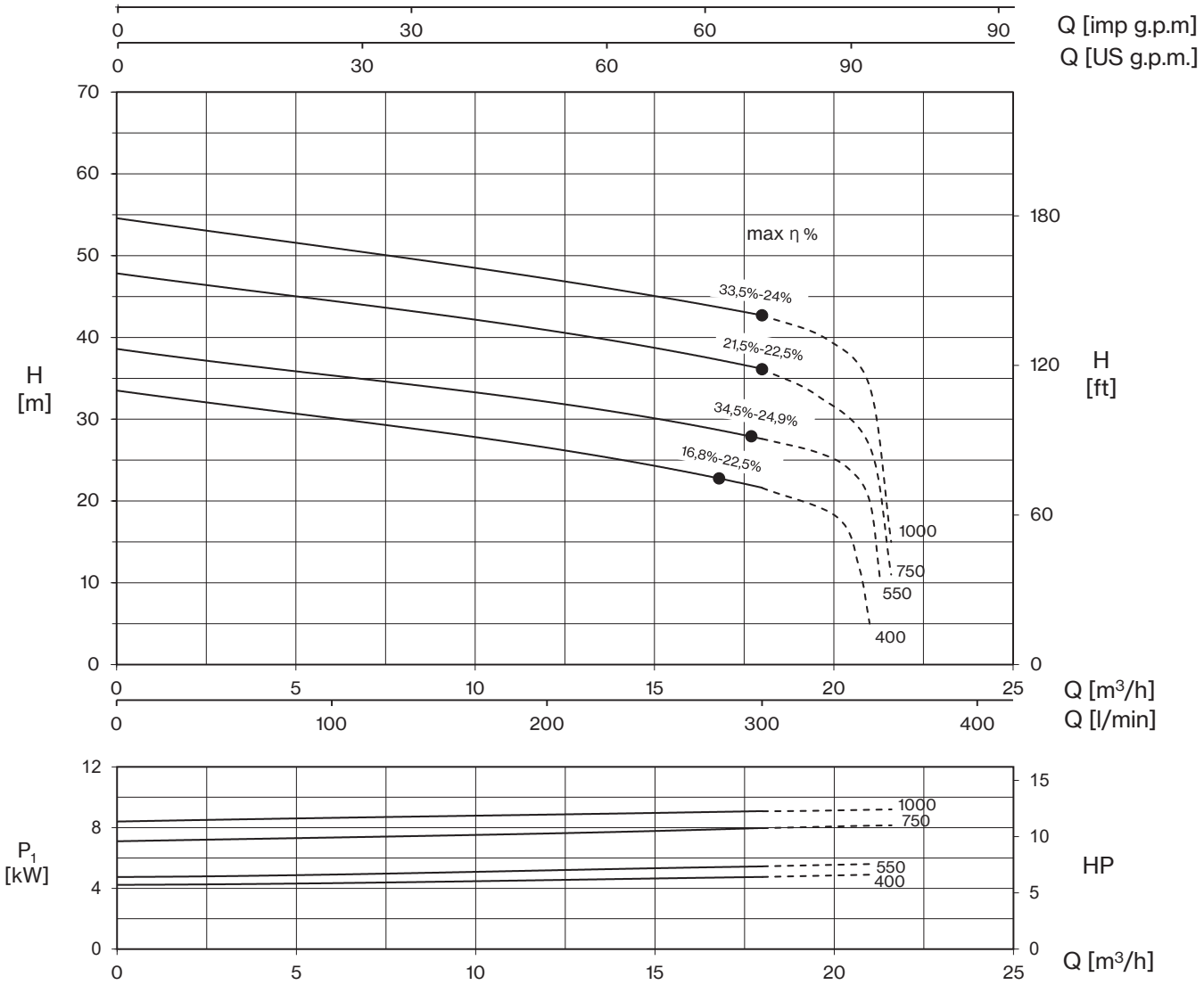
(*) no standard execution

+ max η %

max hydraulic efficiency and respective total efficiency

TYPE - 50 Hz		P2		P1		Q (m³/h - l/min)							
1~	3~			1~	3~	0	3	6	9	12	13,2	15	18
						0	50	100	150	200	220	250	300
		HP	kW	kW		H (m)							
DTR 150	**DTRT 150**	1,5	1,1	2,6	2,5	19,4	18,5	17,3	16,0	14,2	13,5	12,3	9,9
DTR 200	**DTRT 200**	2	1,5	3	2,8	22,1	21,3	20,3	19,1	17,7	17,1	16	13,4
-	**DTRT 300**	3	2,2	-	3,2	26,1	25,2	24,3	23,3	22	21,4	20,3	18,2

DTR/DTRT



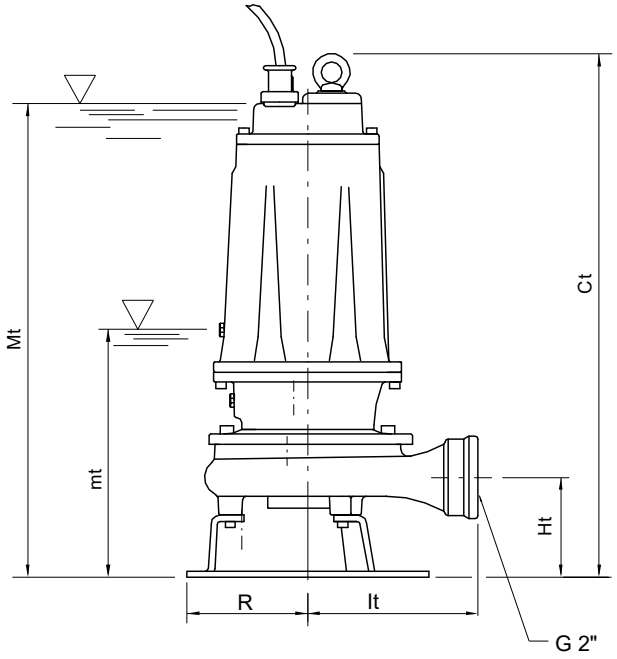
TYPE - 50 Hz	CURRENT			
3~	3~ 230V (*)	3~ 400V	230/400V ⅄ / △ (*)	400/690V ⅄ / △
DTRT 400	13,0	7,5	-	-
DTRT 550	15,9	9,2	-	-
DTRT 750	-	13,9	24	13,9
DTRT 1000	-	15,5	26,8	15,5

(*) no standard execution

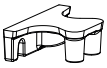
+ max η %

max hydraulic efficiency and respective total efficiency

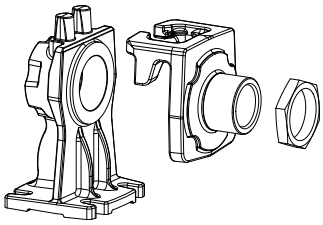
TYPE - 50 Hz	P2		P1	Q (m³/h - l/min)						
3~				0	3	6	9	12	15	18
				0	50	100	150	200	250	300
	HP	kW	kW	H (m)						
DTRT 400	4	3	4,5	33,5	31,8	30,1	28,5	26,4	24,4	21,6
DTRT 550	5,5	4	5,3	38,6	36,9	35,3	33,9	32,1	30,1	27,6
DTRT 750	7,5	5,5	8,0	47,8	46,2	44,5	42,7	40,8	38,9	36,1
DTRT 1000	10	7,5	9,1	54,6	52,7	51,0	49,2	47,1	45,1	42,7



ACCESSORIES

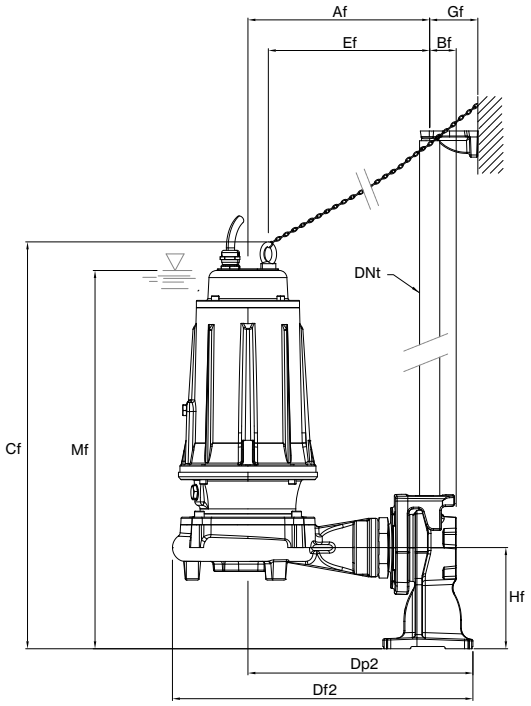


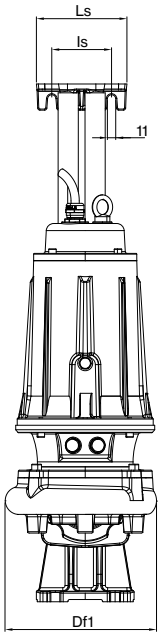
Quick coupling kit

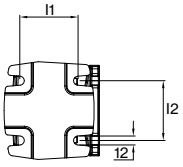


mt: minimum working level
Mt: minimum submengence level for continuos duty

TYPE		DIMENSIONS (mm)							Kg
1~	3~	Ct	Ht	R	It	mt	Mt	DNM	
DTR 150	**DTRT 150**	513	102	117	174	205	475	2”G	38
DTR 200	**DTRT 200**	513	102	117	174	205	475	2”G	38,5
-	**DTRT 300**	513	102	117	174	205	475	2”G	38



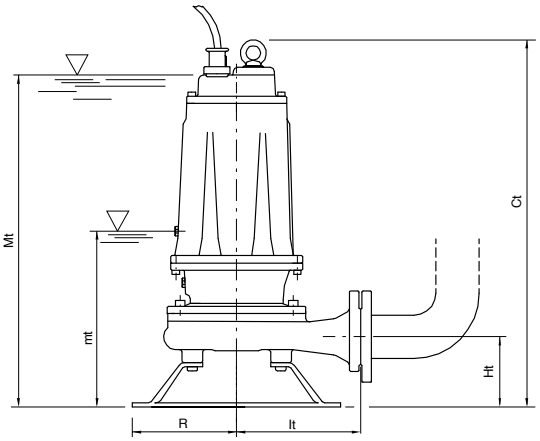


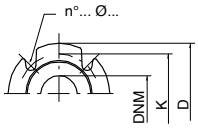


Mf: minimum submengence level for continuos duty

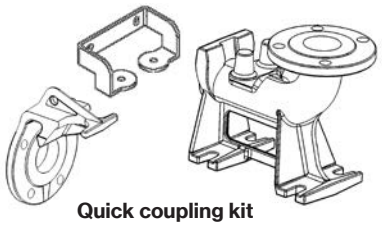
TYPE		DIMENSIONS (mm)													
1~	3~	Af	Bf	Cf	Df1	Df2	Dp2	Ef	Gf	Hf	l1	l2	ls	Ls	Mf
DTR 150	**DTRT 150**	243	36	545	203	402	301	216	65	135	78	80	80	121	506
DTR 200	**DTRT 200**	243	36	545	203	402	301	216	65	135	78	80	80	121	506
-	**DTRT 300**	243	36	545	203	402	301	216	65	135	78	80	80	121	506

DTR/DTRT





ACCESSORIES



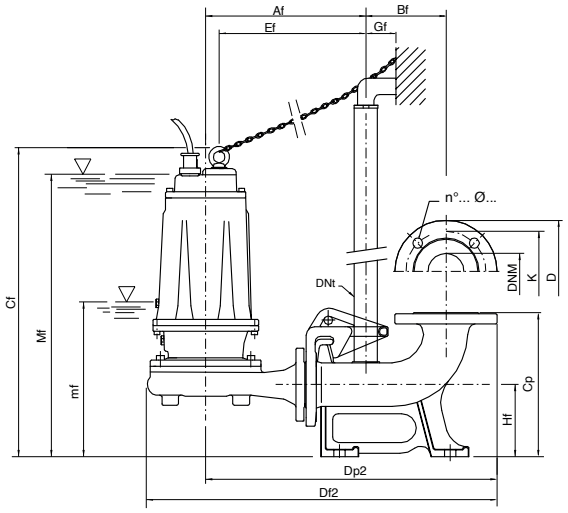
Quick coupling kit

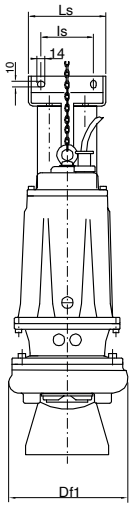


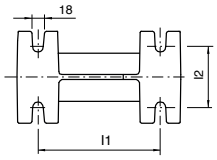
Counterflange

mt: minimum working level
Mt: minimum submengence level for continuos duty

TYPE	DIMENSIONS (mm)							Kg
3~	Ct	Ht	R	It	mt	Mt	DNM	
DTRT 400	595	112	160	190	265	550	50	62,5
DTRT 550	595	112	160	190	265	550	50	65,5
DTRT 750	680	160	180	250	280	630	65	91,5
DTRT 1000	680	160	180	250	280	630	65	94,5







mf: minimum working level
Mf: minimum submengence level for continuos duty

Flange UNI PN 10 (mm)			
DNM	K	D	n°... ø...
50	125	165	4... 18...
65	145	185	4... 18...

TYPE	DIMENSIONS (mm)																
3~	Af	Bf	Cf	Cp	Df1	Df2	Dp2	DNt	Ef	Gf	Hf	l1	l2	ls	Ls	mf	Mf	DNM
DTRT 400/P	300	145	614	260	237	654	538	1" 1¼	269	55	130	200	100	95	140	290	566	50
DTRT 550/P	300	145	614	260	237	654	538	1" ¼	269	55	130	200	100	95	140	290	566	50
DTRT 750/P	331	145	656	260	279	710	569	1" ¼	297	55	130	200	100	95	140	290	600	65
DTRT 1000/P	331	145	656	260	279	710	569	1" ¼	297	55	130	250	100	95	140	290	600	65

TYPE	PROTECTION		1 PUMP CONTROL PANEL			2 PUMPS CONTROL PANEL		
	1~ 230V	3~ 400V	1~ 230V	3~ 400V	400/690 V	1~ 230V	3~ 400V	400/690 V
DTR 150	PMLD 15/35-13	PT 20-30-40/4.3-6.8	EQSM + 35µF + 80µF*	EQSMT 10	-	EQ2SM + 2×35µF + 2×80µF*	EQ2SMT 10	-
DTR 200	PMLD 20/50-15	PT 20-30-40/4.3-6.8	EQSM + 50µF + 80µF*	EQSMT 10	-	EQ2SM + 2×50µF + 2×80µF*	EQ2SMT 10	-
DTRT 300	-	PT 20-30-40/4.3-6.8	-	EQSMT 10	-	-	EQ2SMT 10	-
DTRT 400	-	PT 40-50/5.7-9.1	-	EQSMT 10	-	-	EQ2SMT 10	-
DTRT 550	-	PT 55-75/8.6-13.5	-	EQSMT 10	-	-	EQ2SMT 10	-
DTRT 750	-	PT 100/12.5-16.5	-	EQSMT 10	QST 7	-	EQ2SMT 10	Q2ST 7
DTRT 1000	-	PT 125-150/16-21	-	EQSMT 10	QST 10	-	EQ2SMT 15	Q2ST 10

**start capacitor with disjuntor*