


# DTR/DTRT

Sewage  
Grinder



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.

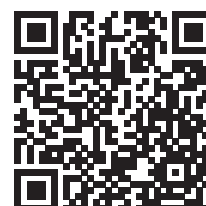
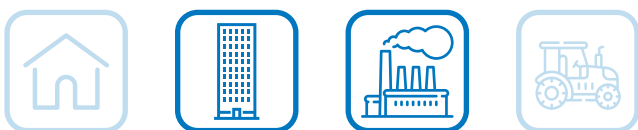
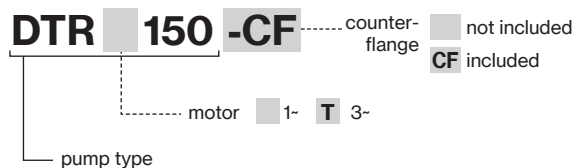
## Construction features

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

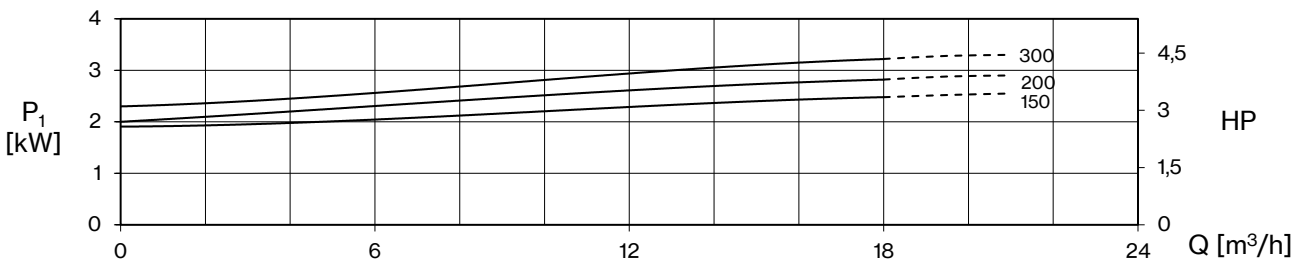
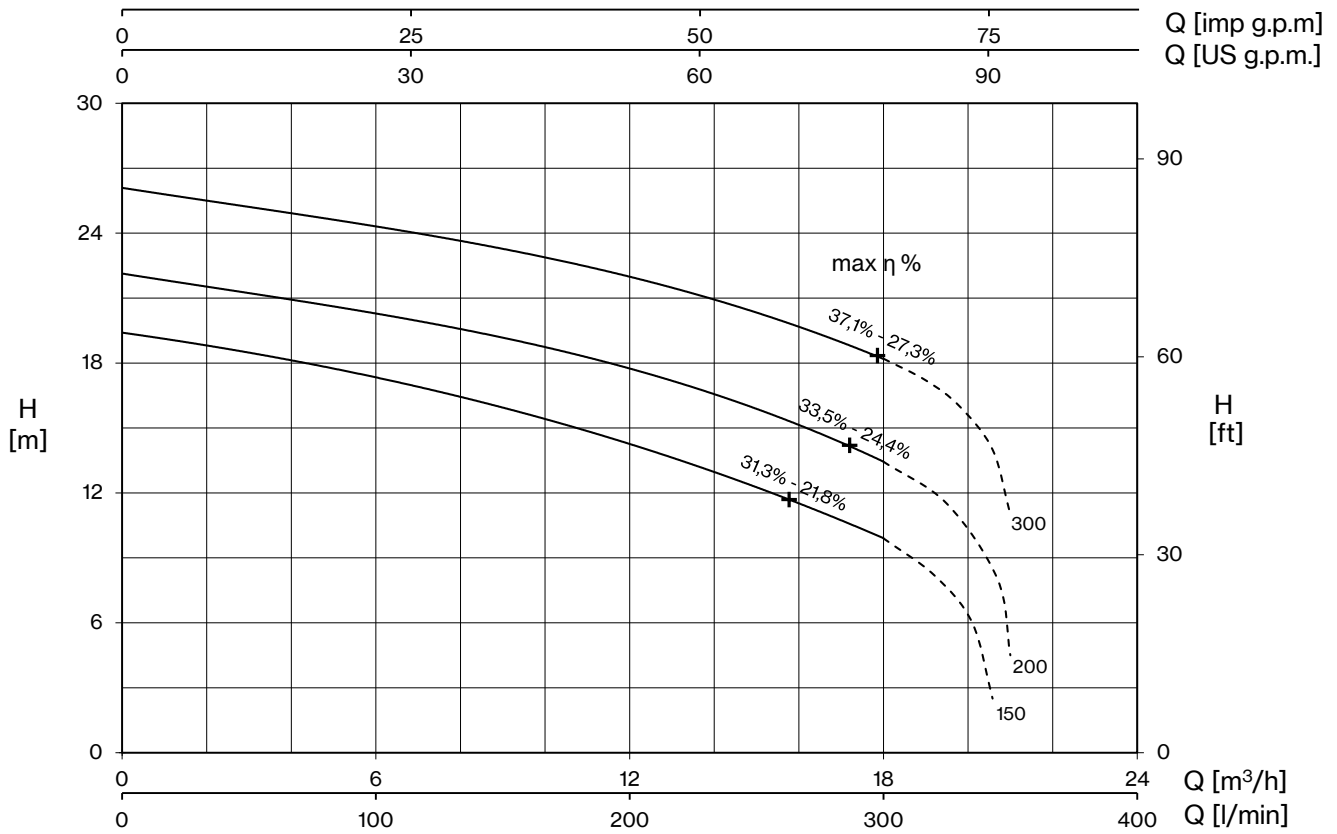
## Motor

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

TYPE	LOTS			
	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
DTRT 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



# DTR/DTRT



TYPE		AMPERE				
1~	3~	230 V 50 Hz	3~ 230V 50 Hz (*)	3~ 400V 50 Hz	230/400 V 50 Hz $\lambda / \Delta$ (*)	400/690 V 50 Hz $\lambda / \Delta$
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	-	-

+ max  $\eta$  %

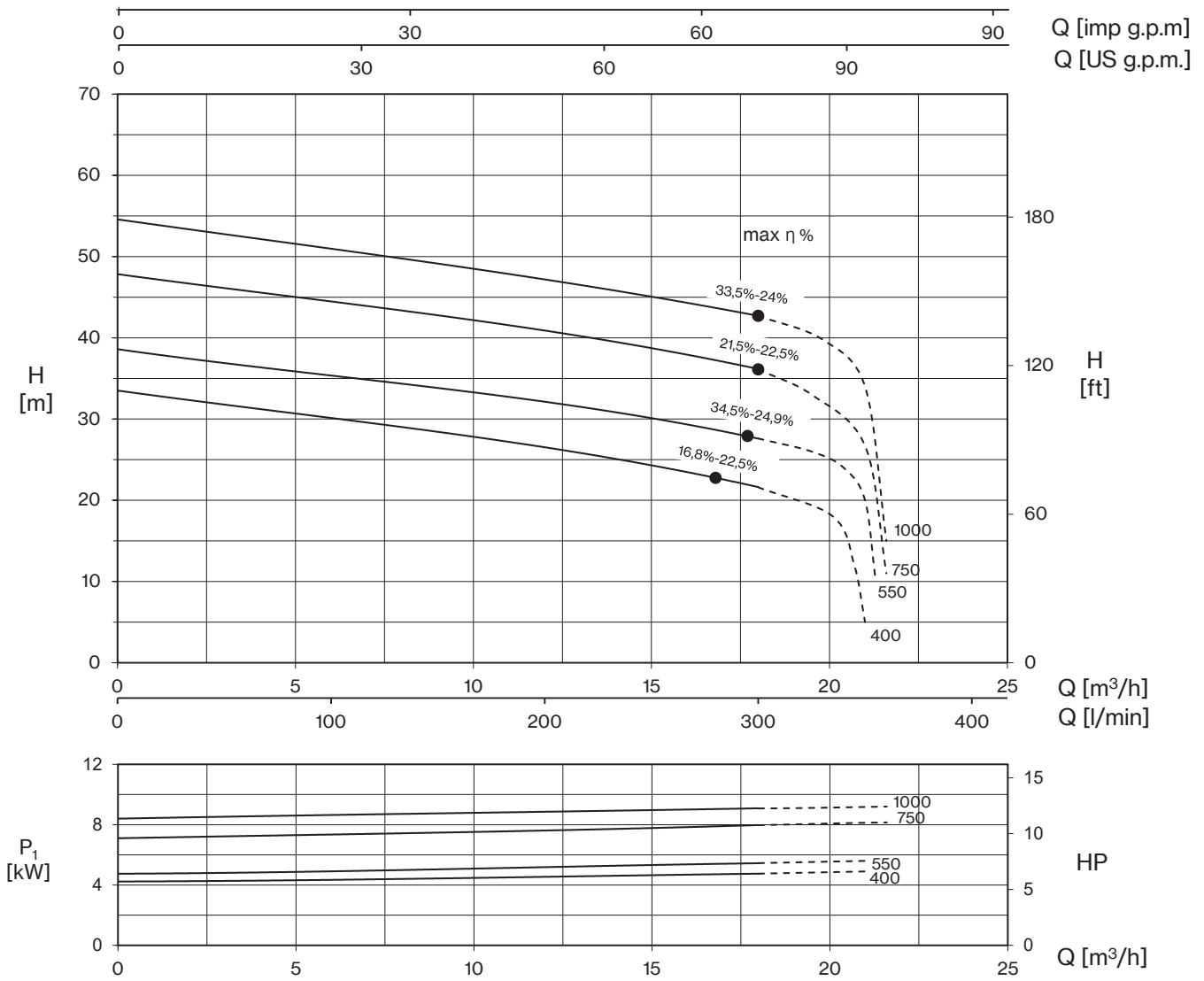
max hydraulic efficiency and respective total efficiency

(\*) no standard execution

TYPE		P <sub>2</sub>		P <sub>1</sub> (kW)		Q (m³/h - l/min)							
1~	3~	HP	kW	1~	3~	0	3	6	9	12	13,2	15	18
						0	50	100	150	200	220	250	300
						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



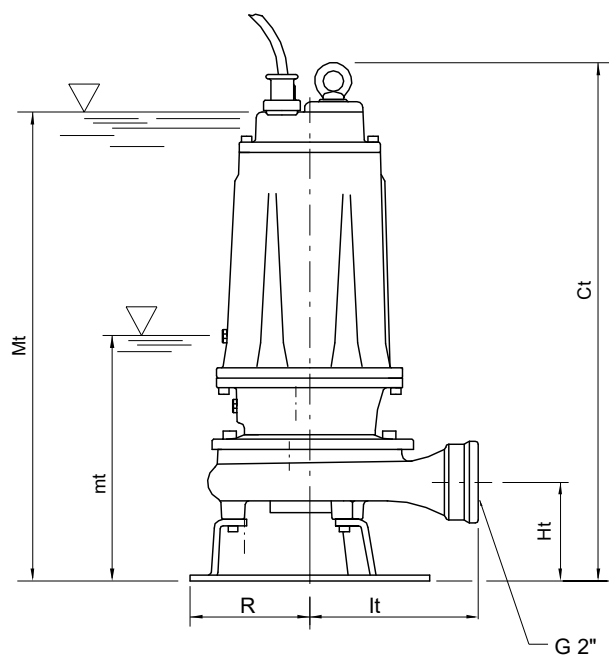
TYPE	AMPERE			
	3- 230V 50 Hz (*)	3- 400V 50 Hz	230/400V 50 Hz λ / Δ (*)	400/690V 50 Hz λ / Δ
DTRT 400	13,0	7,5	-	-
DTRT 550	15,9	9,2	-	-
DTRT 750	-	13,9	24	13,9
DTRT 1000	-	15,5	26,8	15,5

**+ max η %**  
max hydraulic efficiency and respective total efficiency

(\*) no standard execution

TYPE	P2		P1 (kW)	Q (m³/h - l/min)							
				0	3	6	9	12	15	18	
	HP	kW	3-	0	50	100	150	200	250	300	
	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	





mt: minimum working level  
 Mt: minimum submersion level for continuous duty

TYPE		DIMENSIONS (mm)							Kg
1~	3~	Ct	Ht	R	lt	mt	Mt	DNM	
<b>DTR 150</b>	<b>DTRT 150</b>	513	102	117	174	205	475	2" G	38
<b>DTR 200</b>	<b>DTRT 200</b>	513	102	117	174	205	475	2" G	38,5
-	<b>DTRT 300</b>	513	102	117	174	205	475	2" G	38

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
<b>DTR 150</b>	PMLD 15/35-13	PT 20-30-40/4.3-6.8	EQSM + 35µF + 80µF*	EQSMT 10		EQ2SM + 2×35µF + 2×80µF*	EQ2SMT 10	
<b>DTR 200</b>	PMLD 20/50-15	PT 20-30-40/4.3-6.8	EQSM + 50µF + 80µF*	EQSMT 10		EQ2SM + 2×50µF + 2×80µF*	EQ2SMT 10	
<b>DTRT 300</b>		PT 20-30-40/4.3-6.8		EQSMT 10			EQ2SMT 10	
<b>DTRT 400</b>		PT 40-50/5.7-9.1		EQSMT 10			EQ2SMT 10	
<b>DTRT 550</b>		PT 55-75/8.6-13.5		EQSMT 10			EQ2SMT 10	
<b>DTRT 750</b>		PT 100/12.5-16.5		EQSMT 10	QST 7		EQ2SMT 10	Q2ST 7
<b>DTRT 1000</b>		PT 125-150/16-21		EQSMT 10	QST 10		EQ2SMT 10	Q2ST 10

\*start capacitor with disjuntor