




Drainage pumps for charged liquids with set-back Vortex type impeller for civil and industrial applications; specifically designed for very heavy use; available in the mobile or permanent versions with coupling feet.



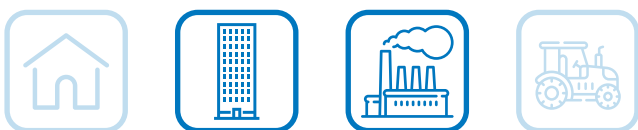
## Construction features

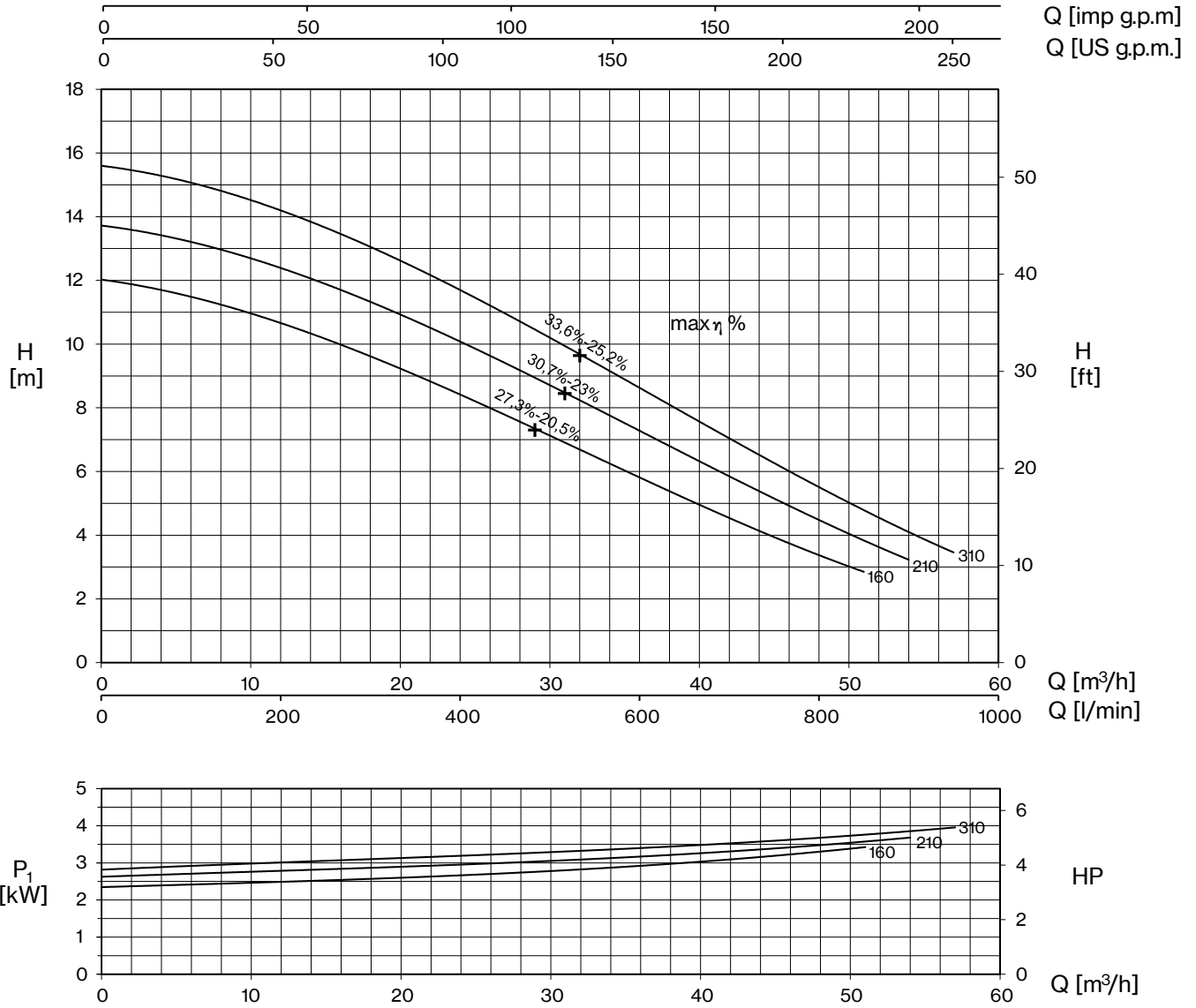
<b>Pump body</b>	cast iron
 <b>Impeller</b>	cast iron
<b>Mechanical seal</b>	double seal with oil barrier: silicon carbide on pump side, ceramic-graphite on motor side
<b>Motor shaft</b>	stainless steel AISI 304
<b>Free passage</b>	Ø max 50 mm (160-310; 750-1000) Ø max 5 mm (400-550)
<b>Max submergence</b>	20 m
<b>Liquid temperature</b>	0 - 40 °C
<b>Cable</b>	H07 RN8F, 10 m
<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- 220/380V - 60Hz 1- 220V - 60Hz required run capacitor (35µF for 1,5HP model, 50µF for 2HP model)
<b>Insulation class</b>	F
<b>Protection degree</b>	IPX8

TYPE	LOTS			
	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
DV 160-310	85×110×145	18	85×110×190	27
DVT 400-550	85×110×170	12	85×110×170	12
DVT 750-1000	100×120×190	12	100×120×190	12





TYPE		AMPERE			
1~	3~	220 V 60 Hz	3x220 V 60 Hz	3x380 V 60 Hz (*)	220/380 V 60 Hz $\lambda / \Delta$
DV 160	DVT 160	15,7	9,1	5,3	-
DV 210	DVT 210	17,2	11,0	6,4	-
-	DVT 310	-	12,3	7,1	-

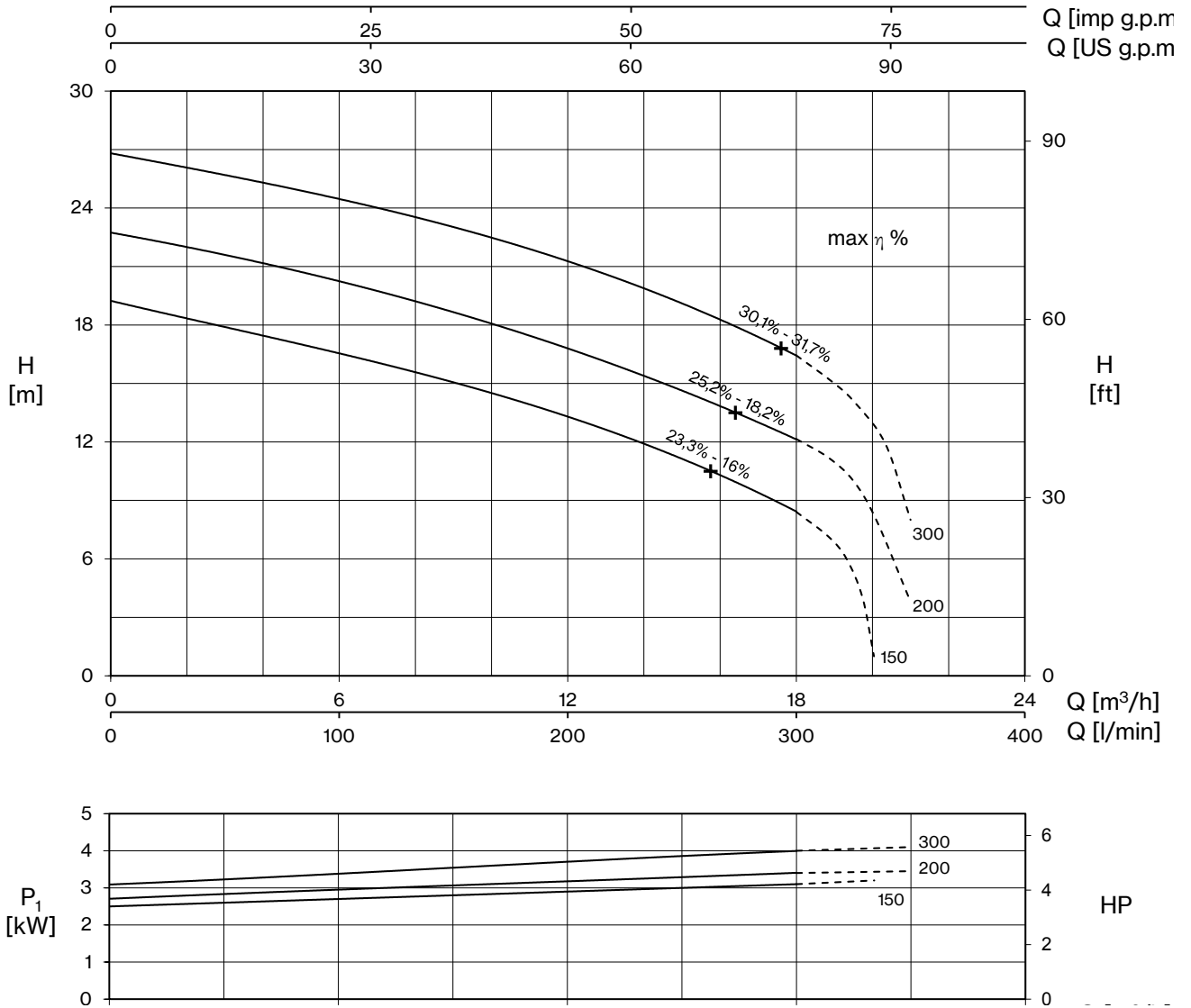
+ max  $\eta$  %

max hydraulic efficiency and respective total efficiency

(\*) no standard execution

TYPE		P2		P1 (kW)		Q (m³/h - l/min)							
1~	3~	HP	kW	1~	3~	0	12	24	36	48	51	54	57
						0	200	400	600	800	850	900	950
						H (m)							
DV 160	DVT 160	1,5	1,1	3,4	3	12,0	10,7	8,3	5,9	3,4	2,8		
DV 210	DVT 210	2	1,5	3,7	3,6	13,7	12,5	9,9	7,3	4,5	3,8	3,2	
-	DVT 310	3	2,2	-	3,9	15,6	14,2	11,6	8,7	5,5	4,8	4,1	3,5





TYPE	AMPERE		
	3x220 V 60 Hz	3x380 V 60 Hz (*)	220/380 V 60 Hz λ / Δ
DVT 400	18,40	10,6	-
DVT 550	22,00	12,7	-
DVT 750	-	19,7	34,1
DVT 1000	-	21,4	37,0

(\*) no standard execution

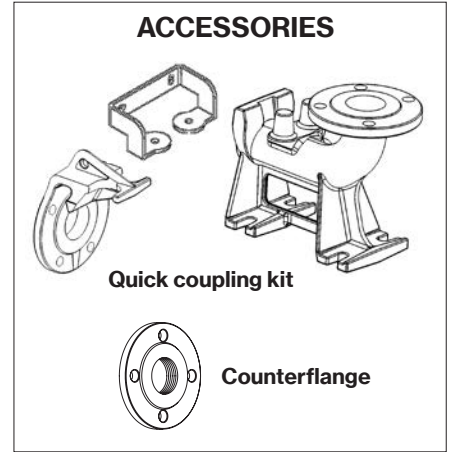
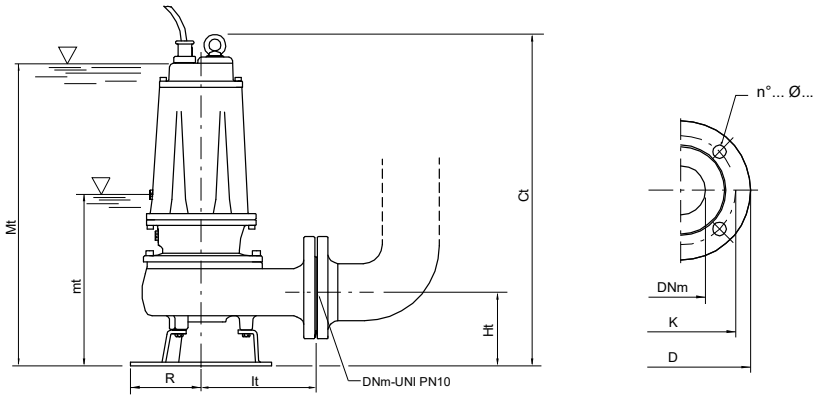
+ max η %

max hydraulic efficiency and respective total efficiency

TYPE	P2		P1 (kW)	Q (m³/h - l/min)									
				0	12	24	36	48	60	72	78	84	
	HP	kW	3~	0	200	400	600	800	1000	1200	1300	1400	
DVT 400	4	3	6,2	23,1	21,2	18,3	14,7	10,9	7,3	4,1	2,5		
DVT 550	5,5	4	7,2	26,4	24,4	21,0	17,4	13,6	9,5	6,0	4,3	2,8	

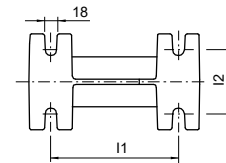
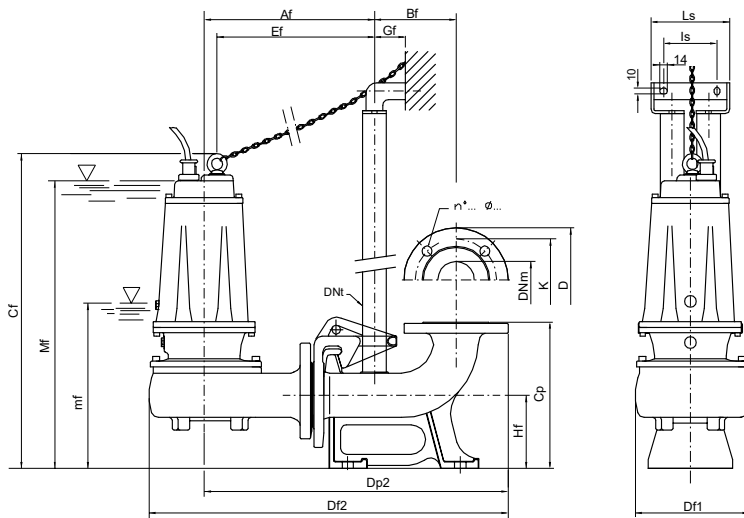
TYPE	P2		P1 (kW)	Q (m³/h - l/min)											
				0	12	24	36	48	60	72	84	96	108	114	120
	HP	kW	3~	0	200	400	600	800	1000	1200	1400	1600	1800	1900	2000
DVT 750	7,5	5,5	11,0	24,4	23,0	21,0	18,7	16,4	13,9	11,1	8,2	5,6	3,3	2,2	
DVT 1000	10	7,5	12,3	27,1	25,5	23,8	21,6	19,1	16,4	13,7	10,6	7,6	4,9	3,7	2,6





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

TYPE	DIMENSIONS (mm)							Kg
	Ct	Ht	R	It	mt	Mt	DNM	
DVT 160	551	123	117	191	243	513	65	39
DV 160-DVT 210	551	123	117	191	243	513	65	40
DV 210-DVT 310	551	123	117	191	243	513	65	42,5
DVT 400	645	148	160	210	285	600	80	68
DVT 550	645	148	160	210	285	600	80	72
DVT 750	725	178	180	232	358	670	80	89
DVT 1000	725	178	180	232	358	670	80	92,5



mf: minimum working level  
 Mf: minimum submersion level for continuous duty

TYPE	DIMENSIONS (mm)																	
	Af	Bf	Cf	Cp	Df1	Df2	Dp2	DNt	Ef	Gf	Hf	I1	I2	Is	Ls	mf	Mf	DNM
DVT 160 /P	303	145	559	260	200	639	541	1" 1/4	280	55	130	200	100	95	140	251	521	65
DV 160-DVT 210/P	303	145	559	260	200	639	541	1" 1/4	280	55	130	200	100	95	140	251	521	65
DV 210-DVT 310/P	303	145	559	260	200	639	541	1" 1/4	280	55	130	200	100	95	140	251	521	65
DVT 400/P	350	165	690	340	220	720	615	2"	319	85	190	250	140	130	180	327	642	80
DVT 550/P	350	165	690	340	220	720	615	2"	319	85	190	250	140	130	180	327	642	80
DVT 750/P	370	165	745	340	235	750	638	2"	338	85	190	250	140	130	180	380	690	80
DVT 1000/P	370	165	745	340	235	750	638	2"	338	85	190	250	140	130	180	380	690	80

Flange UNI PN 10 (mm)			
DNM	K	D	n°... Ø...
65	145	185	4... 18...
80	160	200	8... 18...

