

50Hz



GENERAL CATALOGUE

Edition 2022

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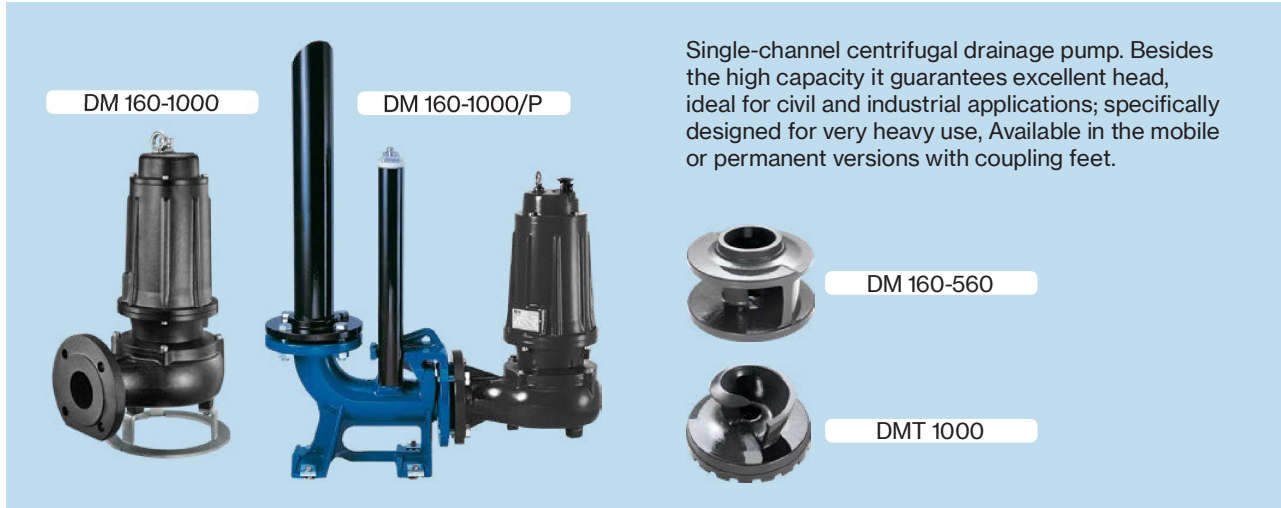
Where there's water there's Pentax



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PENTAX s.p.a.





Single-channel centrifugal drainage pump. Besides the high capacity it guarantees excellent head, ideal for civil and industrial applications; specifically designed for very heavy use, Available in the mobile or permanent versions with coupling feet.

Construction features

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

Passage of solids 50 mm

Depth of immersion max 20 m

Liquid temperature 0 - 40 °C

Cable H07 RNF, 10 m

Bolts A2 stainless steel

Foot support galvanized iron

Gaskets NBR rubber

Motor

3- 230/400V-50Hz P ≤ 4kW
3- 400/690V-50Hz P > 4kW

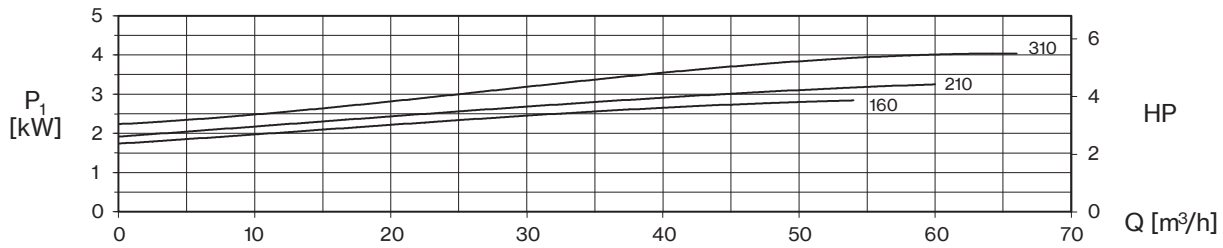
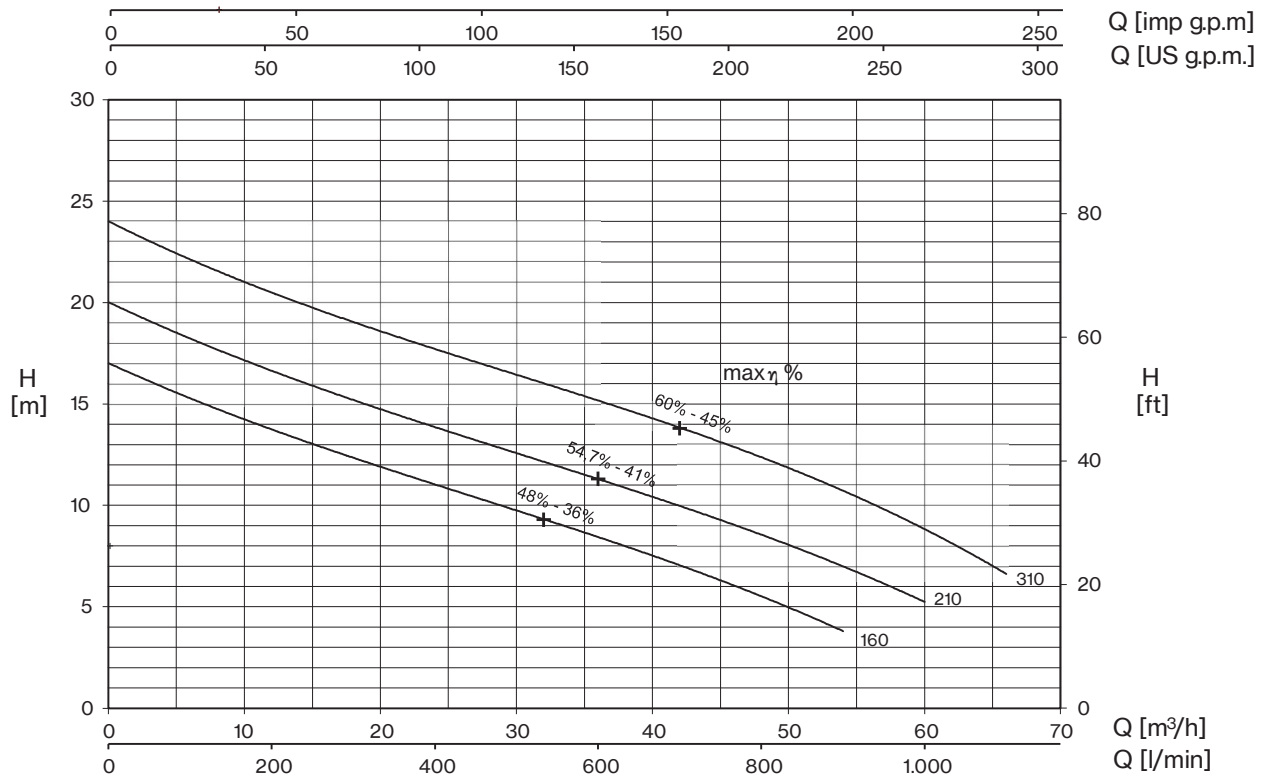
2 Poles induction motor 1- 230V-50Hz
required starter capacitor
(35µF for 1,5HP model,
50µF for 2HP model)

Insulation class F

Protection degree IPX8

TYPE	LOTS			
	TRUCK		CONTAINER	
	PALLET (cm)	N° pumps	PALLET (cm)	N° pumps
DM 160-310	85×110×145	18	85×110×190	27
DMT 410-560	85×110×170	12	85×110×170	12
DMT 750-1000	100×120×190	12	100×120×190	12





TYPE		AMPERE				
1~	3~	230 V 50 Hz	3x230 V 50 Hz (*)	3x400 V 50 Hz	230/400 V 50 Hz λ/Δ (*)	400/690 V 50 Hz λ/Δ
DM 160	DMT 160	12,5	7,6	4,4	-	-
DM 210	DMT 210	15,0	9,5	5,5	-	-
-	DMT 310	-	12,0	6,9	-	-

+ max η %

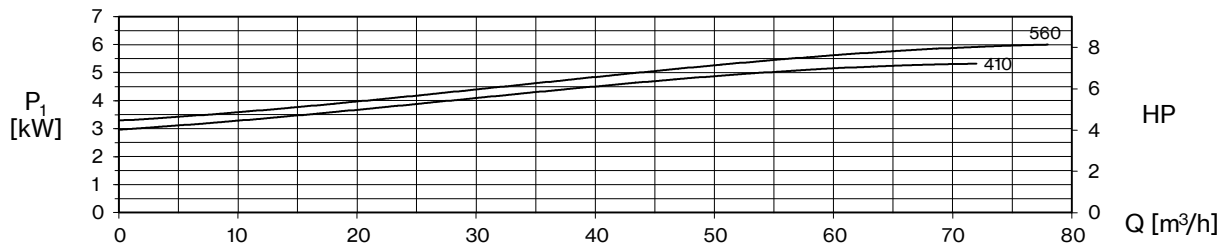
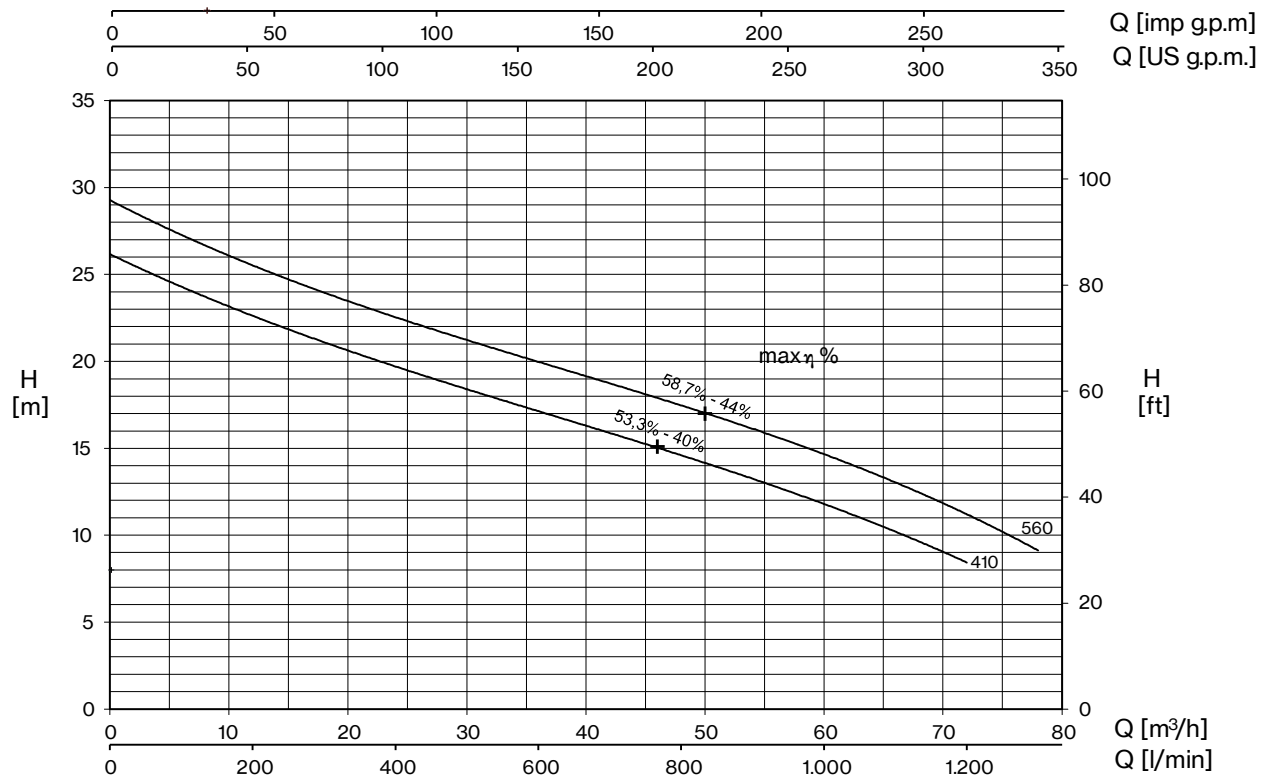
max hydraulic efficiency and respective total efficiency

(*) no standard execution

TYPE		P ₂		P ₁ (kW)		Q (m³/h - l/min)											
1~	3~	HP	kW	1~	3~	0	6	12	18	24	30	36	42	48	54	60	66
						0	100	200	300	400	500	600	700	800	900	1000	1100
						H (m)											
DM 160	DMT 160	1,5	1,1	2,8	2,6	17,0	15,3	13,8	12,3	11,0	9,8	8,4	7,1	5,5	3,8		
DM 210	DMT 210	2	1,5	3,3	3,1	19,9	18,4	16,7	15,2	13,8	12,4	11,3	10,1	8,6	7,0	5,2	
-	DMT 310	3	2,2		4,1	23,9	22,2	20,6	19,1	17,8	16,3	15,0	13,8	12,3	10,9	9,1	6,4



DM



TYPE	AMPERE			
	3x230 V 50 Hz (*)	3x400 V 50 Hz	230/400 V 50 Hz λ / Δ (*)	400/690 V 50 Hz λ / Δ
DMT 410	15,4	8,9	-	-
DMT 560	17,6	10,2	-	-

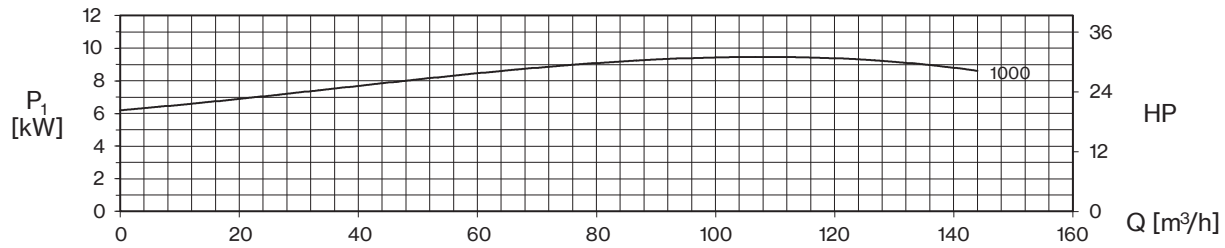
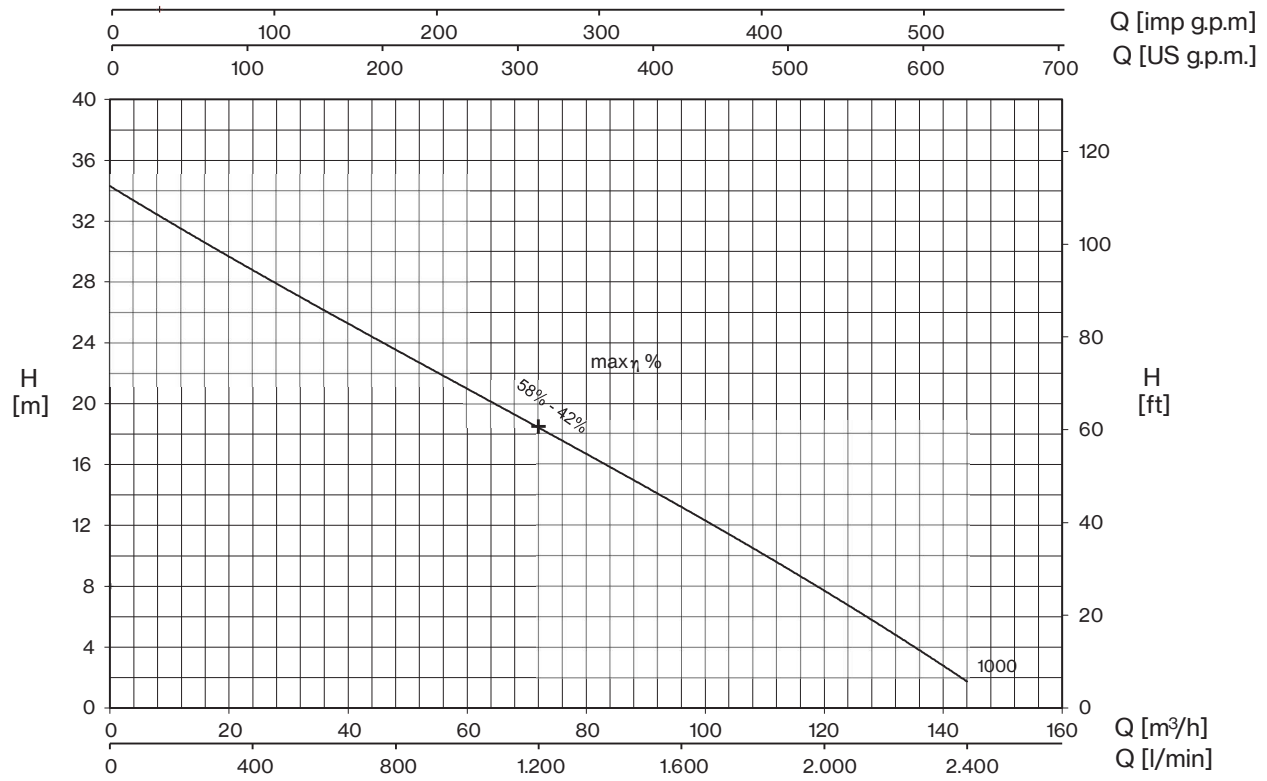
+ max η %

max hydraulic efficiency and respective total efficiency

(*) no standard execution

TYPE	P2		P1 (kW)	Q (m³/h - l/min)									
				0	6	18	30	42	54	60	66	7	
	HP	kW	3-	0	100	300	500	700	900	1000	1100	1200	1300
DMT 410	4	3	5,3	26,0	24,6	21,1	18,2	15,9	13,3	11,8	10,3	8,3	
DMT 560	5,5	4	6	29,1	27,5	24,1	21,1	18,6	16,1	14,7	13,1	11,4	8,9





TYPE	AMPERE			
	3x230 V 50 Hz (*)	3x400 V 50 Hz	230/400 V 50 Hz λ / Δ (*)	400/690 V 50 Hz λ / Δ
DMT 1000	-	16,3	28,2	16,3

+ max η %

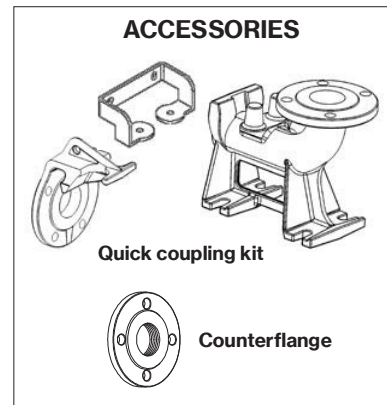
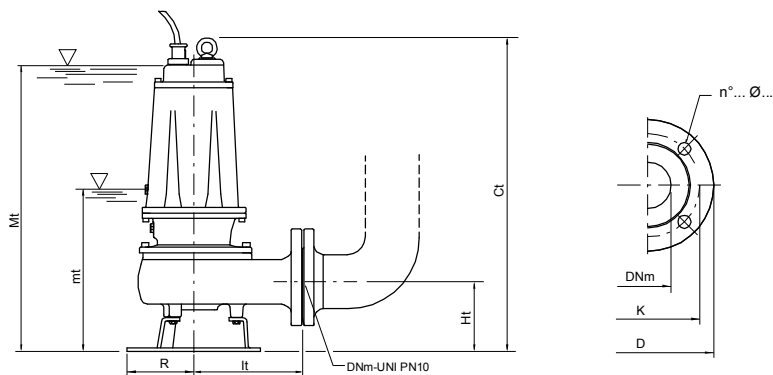
max hydraulic efficiency and respective total efficiency

(*) no standard execution

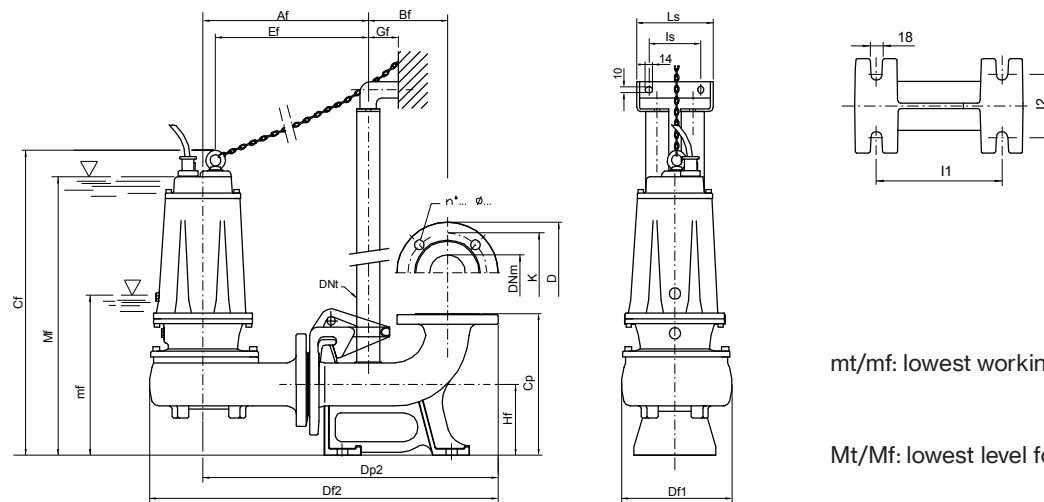
TYPE	P ₂		P ₁ (kW)	Q (m³/h - l/min)													
				0	12	24	36	48	60	72	84	96	108	120	132	144	
3~	HP	kW	3~	H (m)													
				0	200	400	600	800	1000	1200	1400	1600	1800	2000	2200	2400	
DMT 1000	10	7,5	9,6	34,9	30,9	28,3	26,1	23,7	21,3	18,7	16,1	13,2	10,2	7,4	4,6	2,1	



DM



TYPE	DIMENSIONS (mm)							Kg
	Ct	Ht	R	It	mt	Mt	DNm	
DMT 160	551	123	117	191	243	513	65	40
DM 160-DMT 210	551	123	117	191	243	513	65	41,5
DM 210-DMT 310	551	123	117	191	243	513	65	42,5
DMT 410	645	148	160	210	285	600	80	68
DMT 560	645	148	160	210	285	600	80	71,5
DMT 1000	725	178	180	232	358	670	80	94



mt/mf: lowest working level

Mt/Mf: lowest 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
DMT 160 / P	303	145	560	260	200	639	542	1" 1/4	280	55	130	200	100	95	140	251	521	65
DM 160 / P, DMT 210 / P	303	145	560	260	200	639	542	1" 1/4	280	55	130	200	100	95	140	251	521	65
DM 210 / P, DMT 310 / P	303	145	560	260	200	639	542	1" 1/4	280	55	130	200	100	95	140	251	521	65
DMT 410 / P	350	165	690	340	220	722	615	2"	319	85	190	250	140	130	180	327	642	80
DMT 560 / P	350	165	690	340	220	722	615	2"	319	85	190	250	140	130	180	327	642	80
DMT 1000 / P	370	165	745	340	240	750	638	2"	350	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...

TYPE	PROTECTION		CONTROL PANEL		
	1 x 230 V	3 x 400 V	1 x 230 V	3 x 400 V	400 / 690 V
DM 160	PMC 15/35-15	PT 20-30-40/4.3-6.8	QSM + 35µF	QSMT 10	
DM 210	PMC 20/50-18	PT 20-30-40/4.3-6.8	QSM + 50µF	QSMT 10	
DMT 310		PT 40-50/5.7-9.1		QSMT 10	
DMT 400		PT 55-75/8.6-13.5		QSMT 10	
DMT 550		PT 55-75/8.6-13.5		QSMT 10	
DMT 750		PT 100/12.5-16.5		QSMT 10	QST 7
DMT 1000		PT 125-150/16-21		QSMT 15	QST 7

