

INTEROBIZ

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CT 61

Peripheral Pump



Construction

Close-coupled peripheral pump (regenerative pump) with turbine impeller. Compact, patented construction with movable casing cover motor side (replaceable in case of wear)
Protected against water entering the motor from outside.

Applications

For clean liquids without abrasives, without suspended solids, non-explosive, non-aggressive for the pump materials.
For increasing network pressure (follow local specifications).
For the reduced dimensions, these pumps are very well suitable to be mounted in cooling and air-conditioning machines and equipments, circulation.

Operating conditions

Liquid temperature up to 60 °C.
Ambient temperature up to 40 °C.
Total suction lift up to 7 m.
Continuous duty.

Motor

2-pole induction motor, 50 Hz ($n = 2900$ rpm).

CT 61: three-phase 230/400 V \pm 10%.

CTM 61: single-phase 230 V \pm 10%, with thermal protector.
Capacitor inside the terminal box.

Insulation class F.

Protection IP 54.

Constructed in accordance with: EN 60335-2-41.

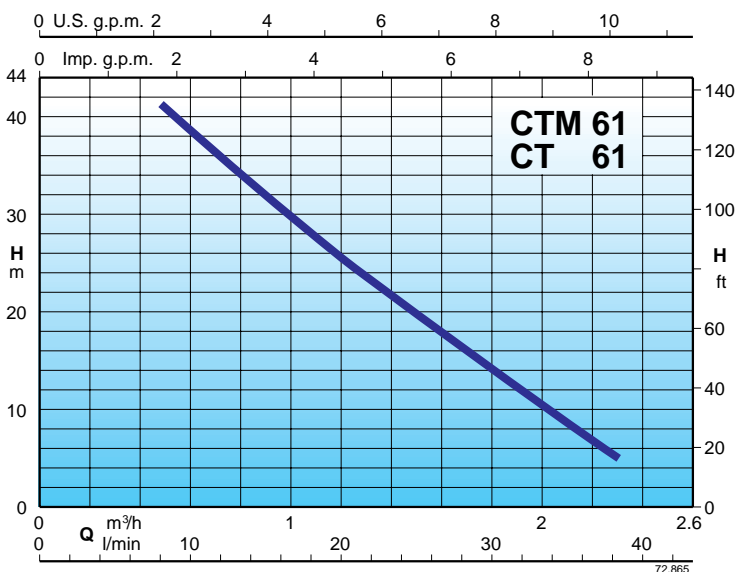
Special features on request

- Other voltages.
- Frequency 60 Hz (as per 60 Hz data sheet).
- Special mechanical seal.

Materials (wetted parts)

Components	CT 61	B-CT 61
Pump casing	Cast iron GJL 200 EN 1561	Bronze G-Cu Sn 10 EN 1982
Casing cover motor side	Brass P- Cu Zn Pb 2 UNI 5705	
Impeller	Brass P- Cu Zn Pb 2 UNI 5705	
Shaft	Chrome steel AISI 430	
Mechanical seal	Carbon - Ceramic - NBR	

Coverage chart $n \approx 2900$ rpm



CT 61

Peripheral Pump

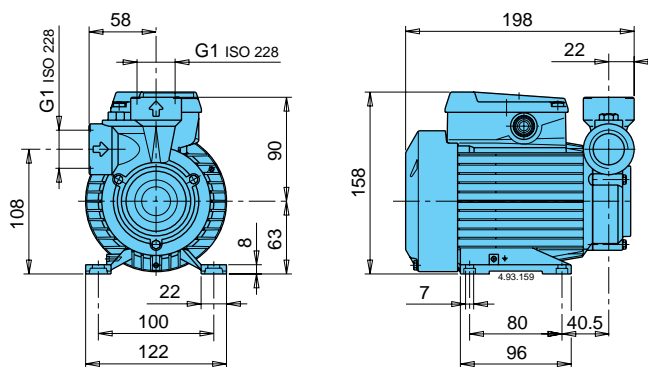
Performance $n \approx 2900$ rpm

3~	230V 400V		1~	230V		P ₂		Q								
	A	A		A	kW	HP	m ³ /h	l/min	0,48	0,6	0,75	0,96	1,2	1,5	1,89	2,3
CT 61	1,9	1,1	CTM 61	2,5	0,33	0,45	H m	41	38,5	35,5	31	25,5	19	11	5	
B-CT 61			B-CTM 61													

H Total head in m.

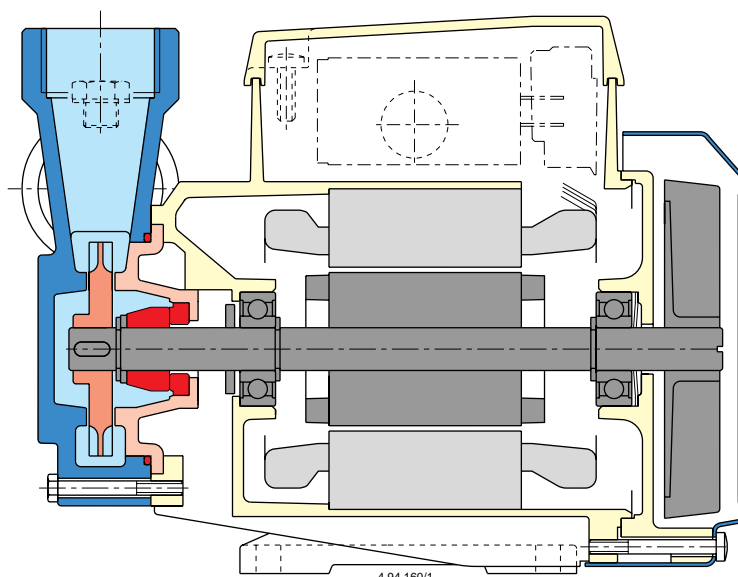
P₂ Rated motor power output.

Dimensions and weights



CT 61 **4,9** kg
 CTM 61 **5** kg
 B-CT 61 **5,1** kg
 B-CTM 61 **5,2** kg

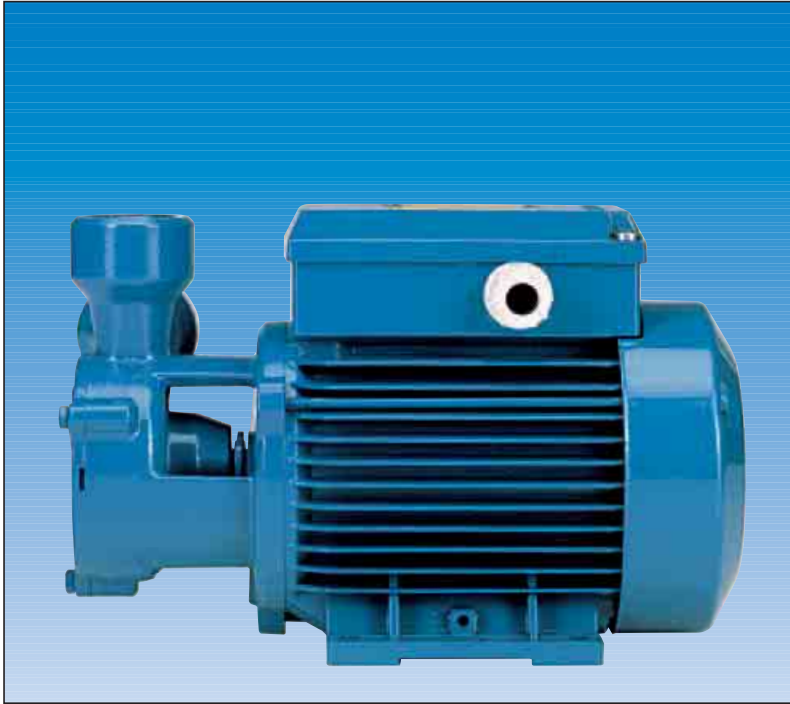
Features



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T, TP

Peripheral Pumps



Construction

Close-coupled peripheral pumps (regenerative pumps) with turbine impeller.

Applications

For clean liquids without abrasives, without suspended solids, non-explosive, non-aggressive for the pump materials.
For increasing network pressure (follow local specifications).
For the reduced dimensions, these pumps are very well suitable to be mounted in cooling and air-conditioning machines and equipments, circulation, boiler feed.

Operating conditions

Liquid temperature from -10 °C to +90 °C.
Ambient temperature up to 40 °C.
Total suction lift up to 7 m.
Continuous duty.

Motor

2-pole induction motor, 50 Hz (n = 2900 rpm).

T, TP: three-phase 230/400 V ± 10% .

TM, TPM: single-phase 230 V ± 10% with thermal protector.
Capacitor inside the terminal box.

Insulation class F.

Protection IP 54.

Constructed in accordance with: IEC 60034; IEC 60335-1 (EN 60335-1).

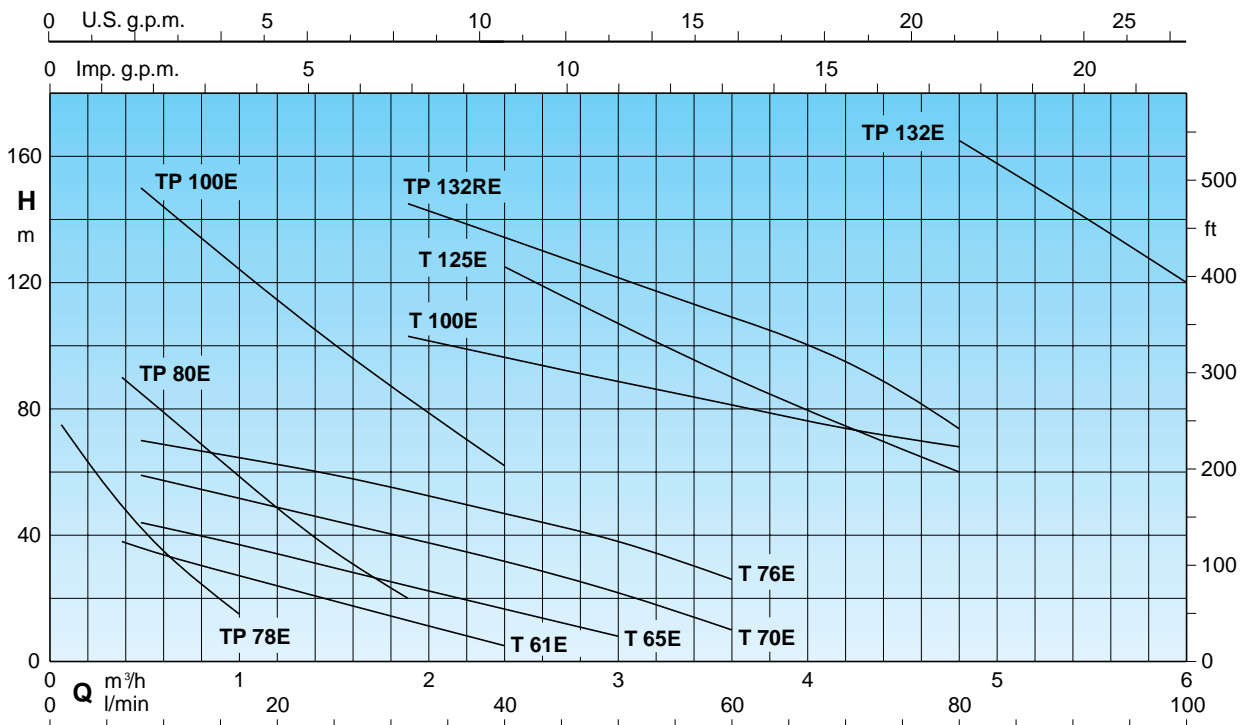
Special features on request

- Other voltages.
- Frequency 60 Hz (as per 60 Hz data sheet).
- Protection IP 55.
- Special mechanical seal.
- Higher or lower liquid or ambient temperatures.

Materials

Components	T, TP	B-T, B-TP
Pump casing	Cast iron	Bronze
Lantern bracket	GJL 200 EN 1561	G-Cu Sn 10 EN 1982
Casing cover	Cast iron	Bronze
	GJL 200 EN 1561	G-Cu Sn 10 EN 1982
	Brass P- Cu Zn Pb 40 2 UNI 5705 for T 61-65-70, B-T 61-70	
Impeller	Brass P- Cu Zn 40 Pb 2 UNI 5705	
	Bronze G-Cu Sn 10 EN 1982 for T 125, TP 132-132R	
Shaft	Cr-Ni steel AISI 303 T 76, Tp 80-100	Cr-Ni-Mo steel AISI 316
	Chrome steel AISI 430 T 61-65-70-100-125, Tp 78-132-132R	
Mechanical seal	Carbon - Ceramic - NBR	

Coverage chart $n \approx 2900$ rpm



T, TP

Peripheral Pumps

Performance $n \approx 2900$ rpm

	3 ~ 230V 400V		1 ~ 230V		P1		P2		Q m ³ /h	H m																
	A	A	A	kW	kW	HP	l/min	1		2	4	6,3	8	10	12,5	16	20	25	31,5	40	50	60	70	80	90	100
B-T 61E	1,9	1,1	B-TM 61E	2,5	0,55	0,33	0,45																			
T 65E	2,8	1,6	TM 65E	3,5	0,8	0,45	0,6																			
B-T 70E	3,7	2,2	B-TM 70E	6	1,3	0,75	1																			
T 76E	5,3	3	TM 76E	7,4	1,6	1,1	1,5																			
T 100E	11,5	6,6					3	4																		
T 125E		9,6					4	5,5																		
B-TP 78E	2,3	1,3	B-TPM 78E	2,8	0,6	0,37	0,5		75	70	60	50	42	35	25	15										
B-TP 80E	4	2,3	B-TPM 80E	5,8	1,2	0,75	1																			
TP 100E	9,6	5,5					2,2	3																		
TP 132RE		12					5,5	7,5																		
TP 132E		16					7,5	10																		

P1 Maximum power input.

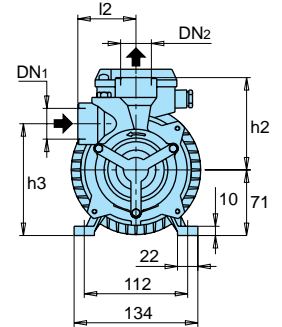
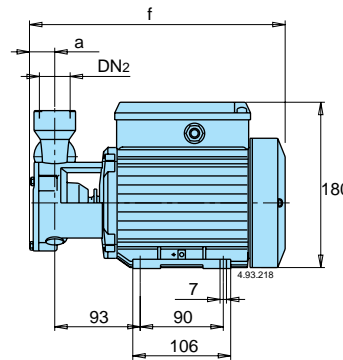
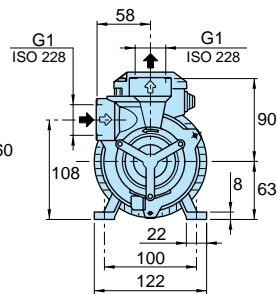
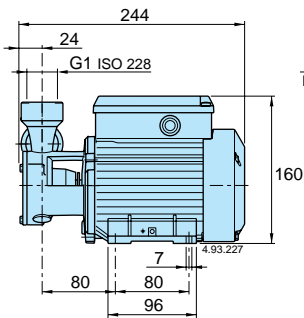
B-T, B-TM = Bronze construction.

H Total head in m.

* Maximum suction lift 2-3 m.

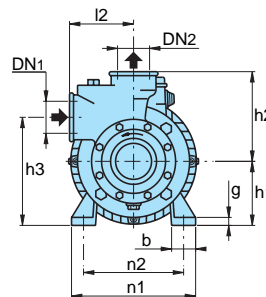
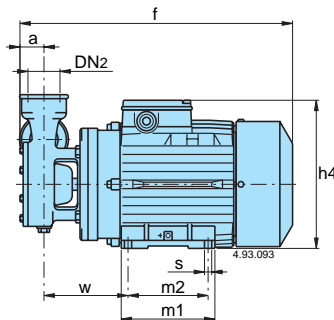
P2 Rated motor power output.

Dimensions and weights



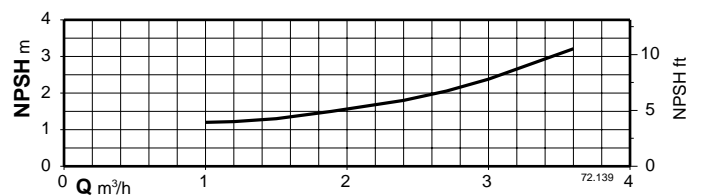
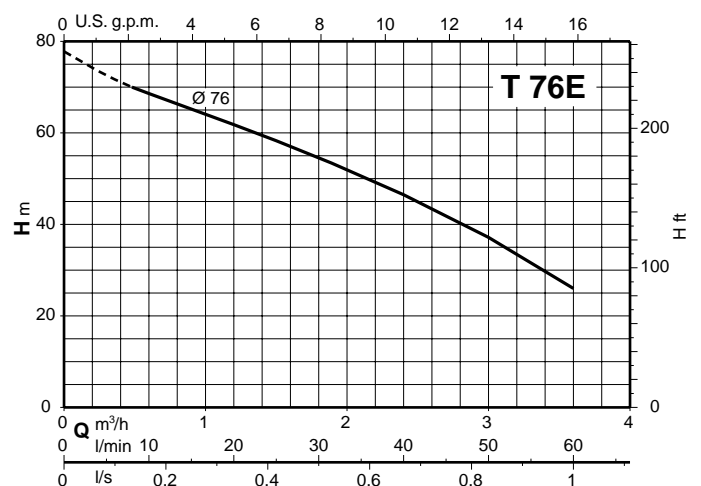
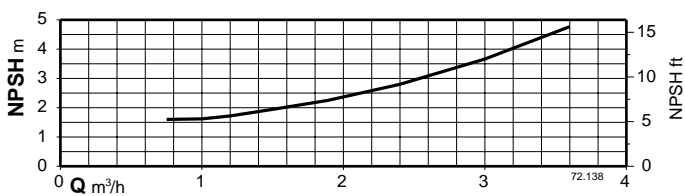
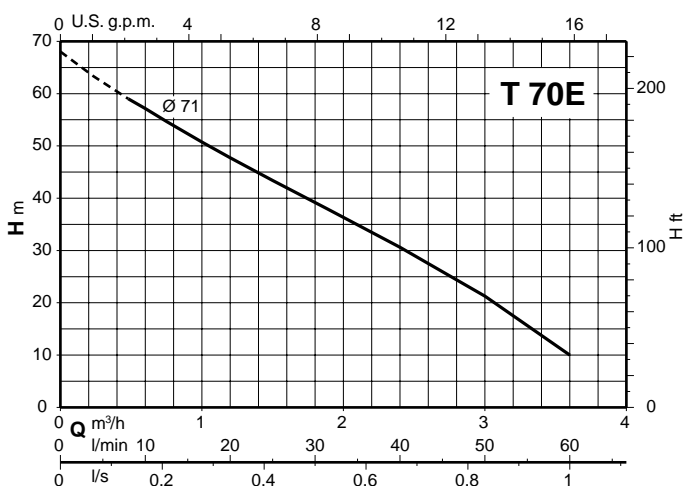
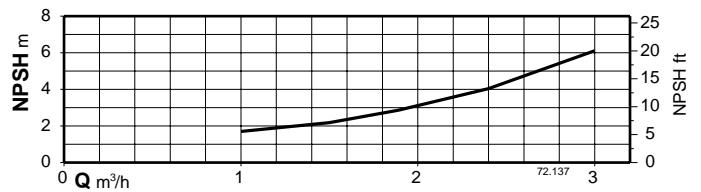
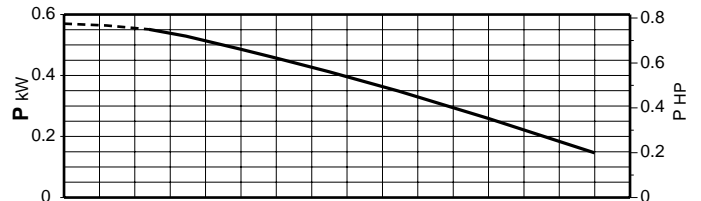
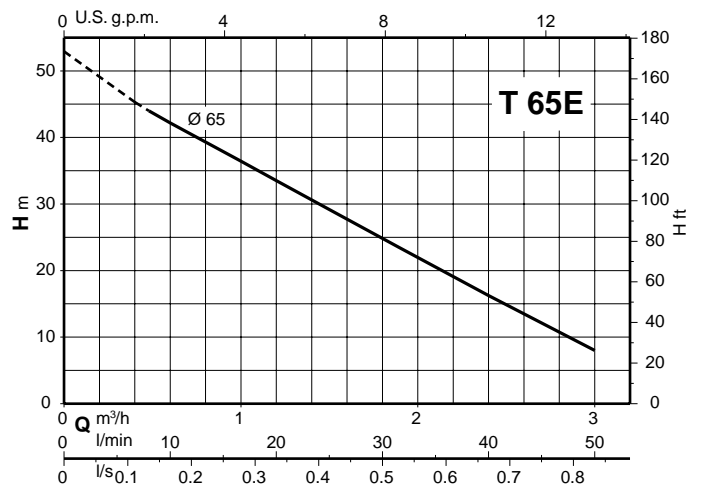
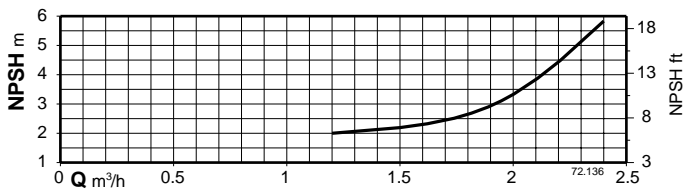
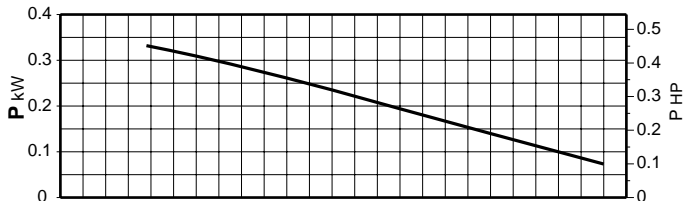
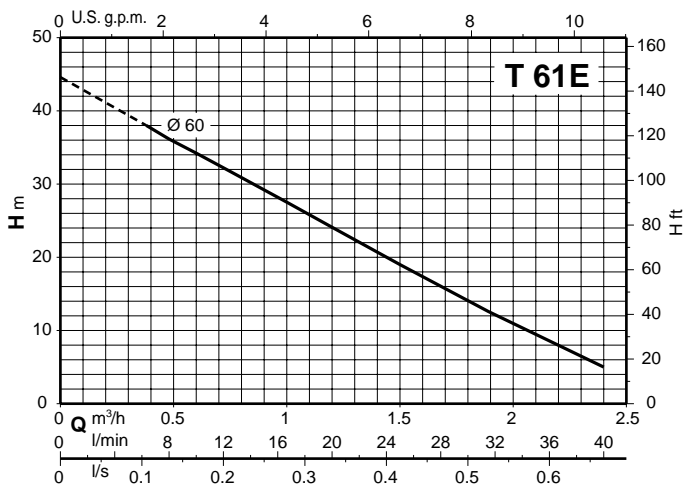
T 61E: kg 6,3
B-T 61E: kg 6,5
T 65E: kg 6,3

TYPE	DN1 ISO 228	DN2 ISO 228	mm					kg	
			a	f	h2	h3	l2	T	B-T
T 70E B-T 70E	G 1	G 1	24	278	100	121	63	11,2	11,6
TP 78E B-TP 78E	G 1/2	G 1/2	22	276	80	127	56	8,2	8,8

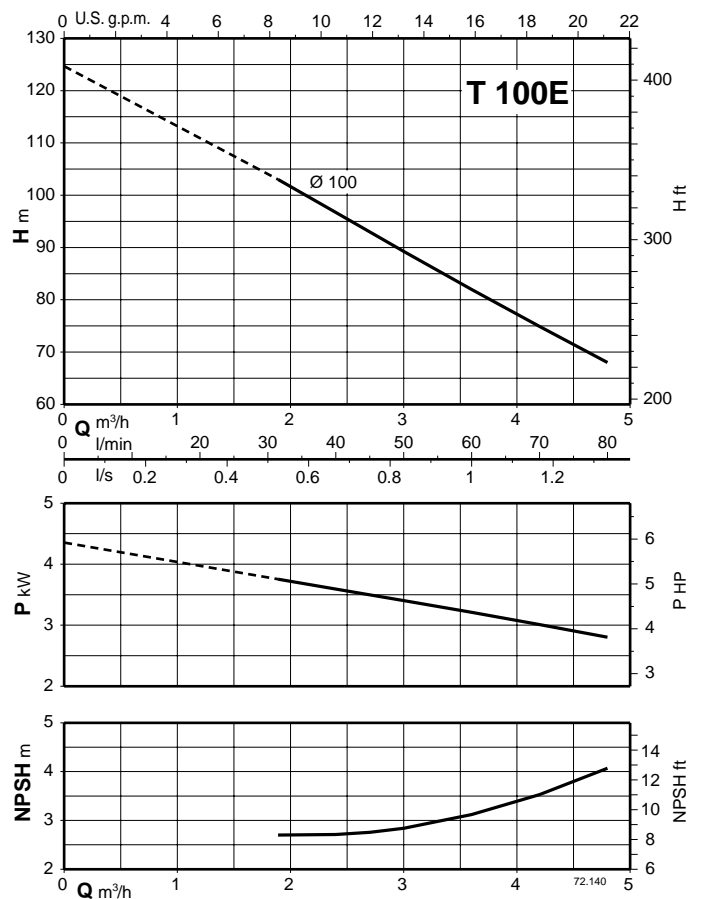
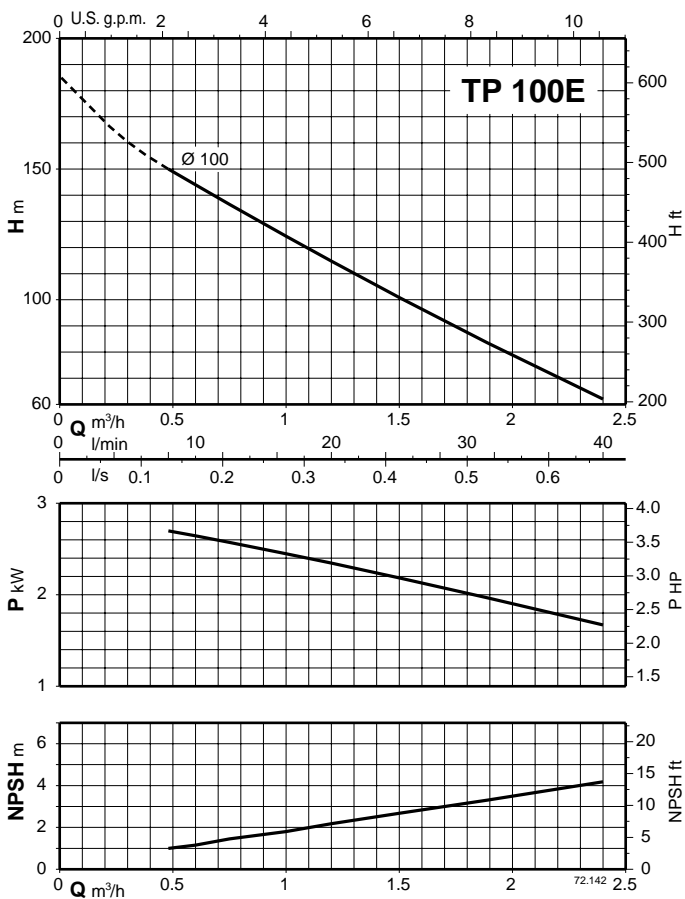
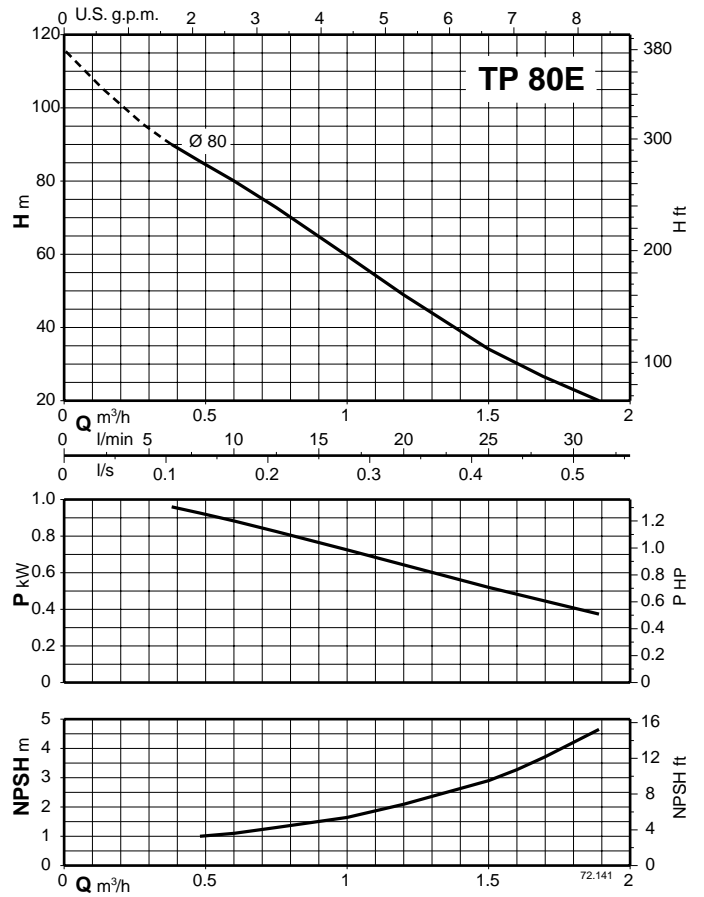
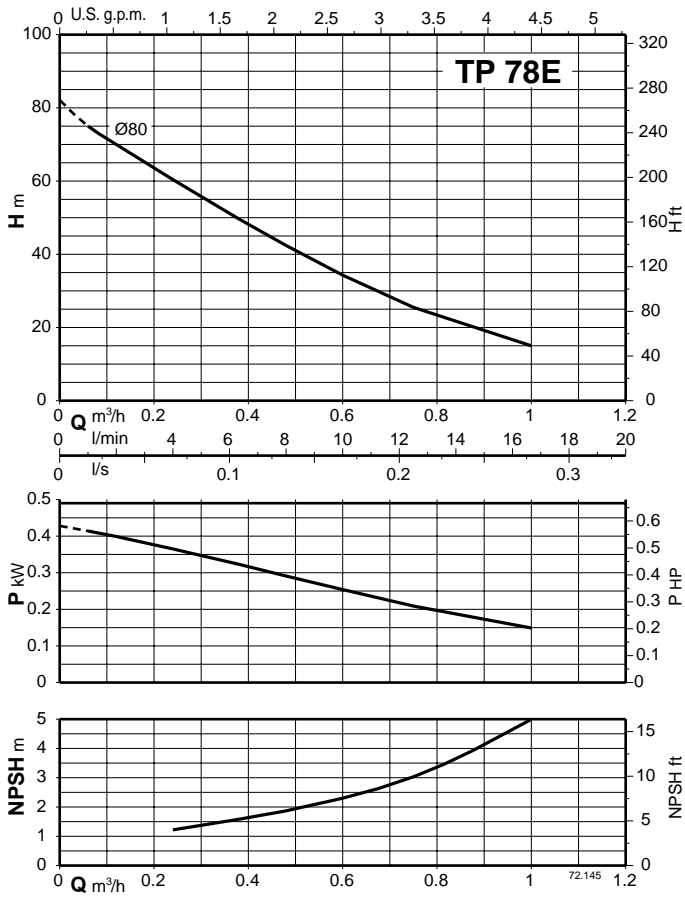


TYPE	DN1 ISO 228	DN2 ISO 228	mm														kg			
			a	f	h1	h2	h3	h4	m1	m2	n1	n2	b	s	l1	l2	w	g	T, TP	B-TP
T 76E	G 1 1/4	G 1 1/4	26	338	80	112	136	185	117	100	155	125	30	9	-	80	105	10	18,4	-
T 100E	G 1 1/4	G 1 1/4	32	410	90	130	161	216	152	125	180	140	40	9,5	-	95	121	12	29,5	-
T 125E	G 1 1/4	G 1 1/4	32	470	90	155	170	216	152	125	180	140	40	9,5	-	90	195	12	39	-
TP 80E B-TP 80E	G 3/4	G 3/4	27	332	80	90	135	185	117	100	155	125	30	9	-	60	104	10	16,4	16,8
TP 100E	G 3/4	G 3/4	27	347	80	100	142	185	117	100	155	125	30	9	-	65	113	10	21,3	-
TP 132RE	G 1 1/4	G 1 1/4	42	485	112	160	202	272	180	140	230	190	50	11,5	-	100	183	14	52,6	-
TP 132E	G 1 1/4	G 1 1/4	42	485	112	160	202	272	180	140	230	190	50	11,5	-	100	183	14	58	-

Characteristic curves $n \approx 2900$ rpm



Characteristic curves $n \approx 2900$ rpm



Characteristic curves $n \approx 2900$ rpm

