

 Clean water Civil use Agricultural use Industrial use

PERFORMANCE RANGE

- Flow rate up to **900 l/min** (54 m³/h)
- Head up to **76 m**

INSTALLATION AND USE

Designed to transfer clean water free from abrasive particles and liquids that will not damage the pump's components.

Reliable and easy to operate, these pumps are widely used in civil, agricultural, and industrial settings for water supply, air conditioning and cooling systems, and irrigation purposes.

ELECTRIC MOTOR

Equipped with cutting-edge electric motors, the three-phase pumps are designed to work with inverters, offering stable and noiseless performance.

They feature efficiency class **IE3** for three-phase motors and **IE2** for single-phase motors, bolstered by class F insulation and IPX4 protection for models CP160 and CP210, and IPX5 protection for models CP220, CP230, and CP250.

APPLICATION LIMITS

- Manometric suction head up to **7 m**
- Liquid temperature between **-10 °C** and **+90 °C**
- Ambient temperature between **-10 °C** and **+40 °C**
- Maximum working pressure **10 bar**

AVAILABLE UPON REQUEST

- ✗ Mechanical seal options available
- ✗ Pump shaft in stainless steel AISI 316 - EN 10088-3 - 1.4401 for CP 220, CP 230, CP 250
- ✗ Protection rating IP X5 for CP 160 and CP 210
- ✗ Different voltage requirements 60 Hz frequency

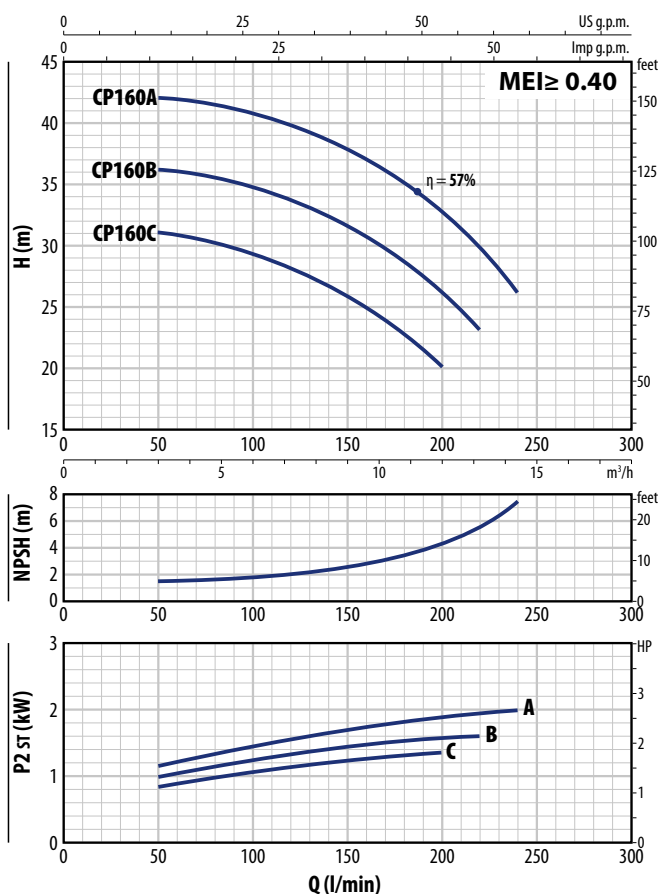
PATENTS - TRADE MARKS - MODELS

- Registered community model No. 002098434 for CP 160, CP 210, CP 250
- Italian registered model no. 72753 for CP 220, CP 230

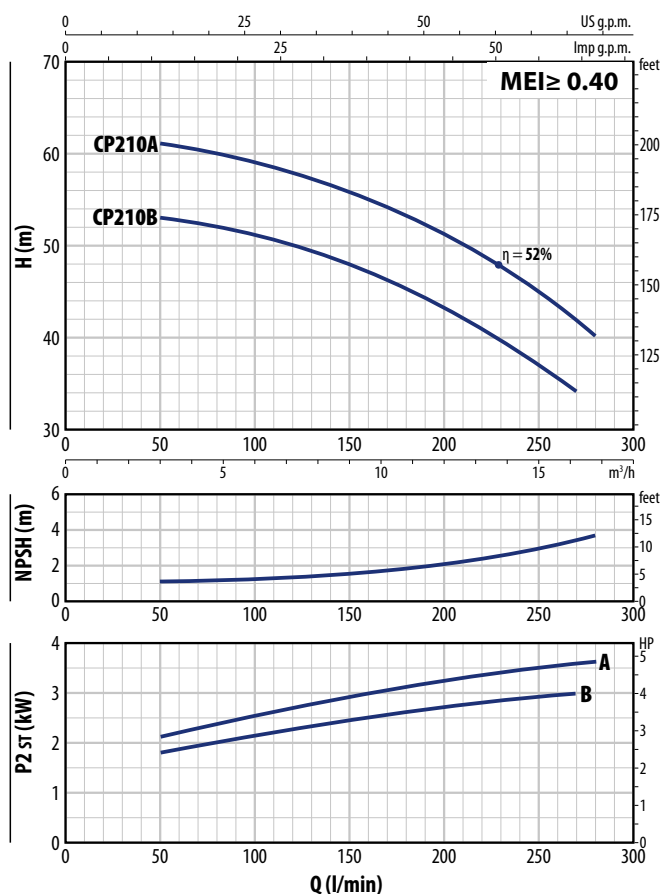
CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

CP 160



CP 210



CP 160

TYPE		POWER (P ₂)		1~3~	Q											
Single-ph.	Three-ph.	kW	HP			m³/h	0	3	4.5	6	7.5	9	10.5	12	13.2	14.4
						l/min	0	50	75	100	125	150	175	200	220	240
CPm 160C	CP 160C	1.1	1.5	IE2 IE3	H metres		32	31	30.5	29.5	28	26	23	20		
CPm 160B	CP 160B	1.5	2				37	36	35.5	34.5	33.5	31.5	29	26.5	23	
CPm 160A	CP 160A	2.2	3				43	42	41.5	40.5	39.5	38	35.5	33	30	26

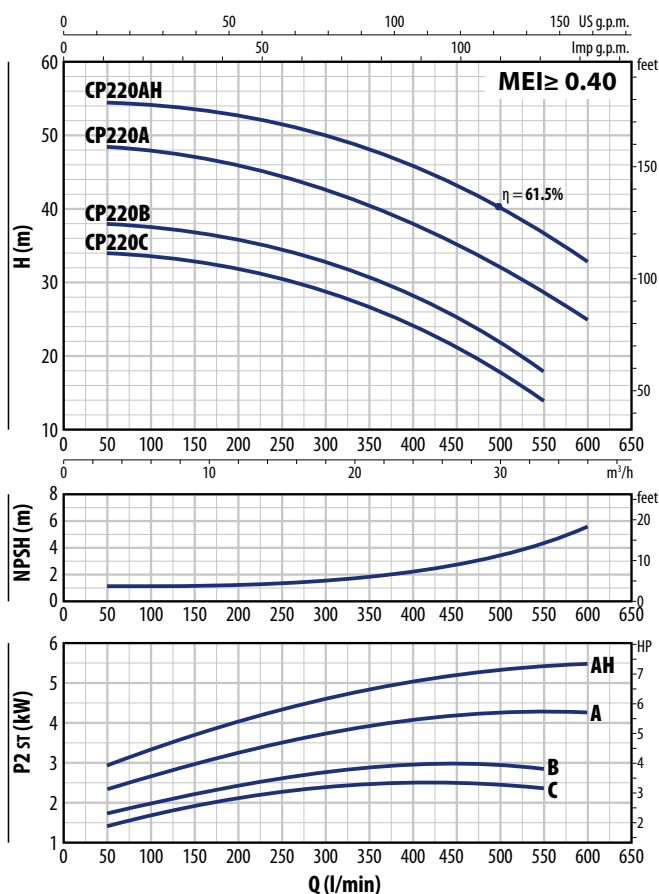
CP 210

TYPE		POWER (P ₂)		3~	Q											
Three-ph.		kW	HP			m³/h	0	3	4.5	6	7.5	9	10.5	12	13.2	14.4
						l/min	0	50	75	100	125	150	175	200	220	240
CP 210B		3	4	IE3	H metres		54	53	52	51	49.5	48	45.5	43	40	38.5
CP 210A		4	5.5				61	61	60	59	57.5	56	53.5	51	49	46.5

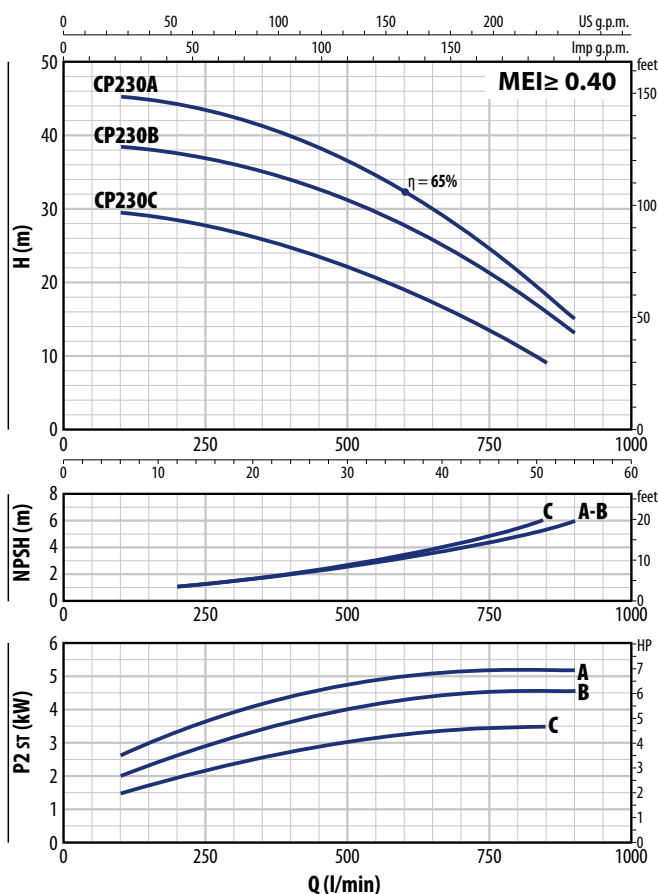
Q = Flow rate H = Total manometric head HS = Suction height

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

CP 220



CP 230



CP 220

TYPE		POWER (P ₂)		1~3	Q										
Single-phase	Three-phase	kW	HP			m ³ /h	0	3	6	12	18	24	30	33	36
						l/min	0	50	100	200	300	400	500	550	600
CPm 220C	CP 220C	2.2	3	IE2 IE3	H metres		34	34	33.5	32	29	24.3	18	14	
–	CP 220B	3	4				38	38	37.5	36	33	28.5	22	18	
–	CP 220A	4	5.5				49	48.5	48	46	42.5	38	32	29	25
–	CP 220AH	5.5	7.5				54.5	54.5	54	52.5	50	46	40.5	37	33

CP 230

TYPE		POWER (P ₂)		3~	Q										
Three-phase		kW	HP			m ³ /h	0	6	12	18	24	30	36	42	48
						l/min	0	100	200	300	400	500	600	700	800
CP 230C	3	4	IE3	H metres		30	29.5	28.5	27	25	22	19.5	15.5	11.5	9
CP 230B	4	5.5				39	38.5	38	36	34	31	28	24	18.5	15
CP 230A	5.5	7.5				46	45.5	44.5	42	40	37	32.5	27.5	21.5	18

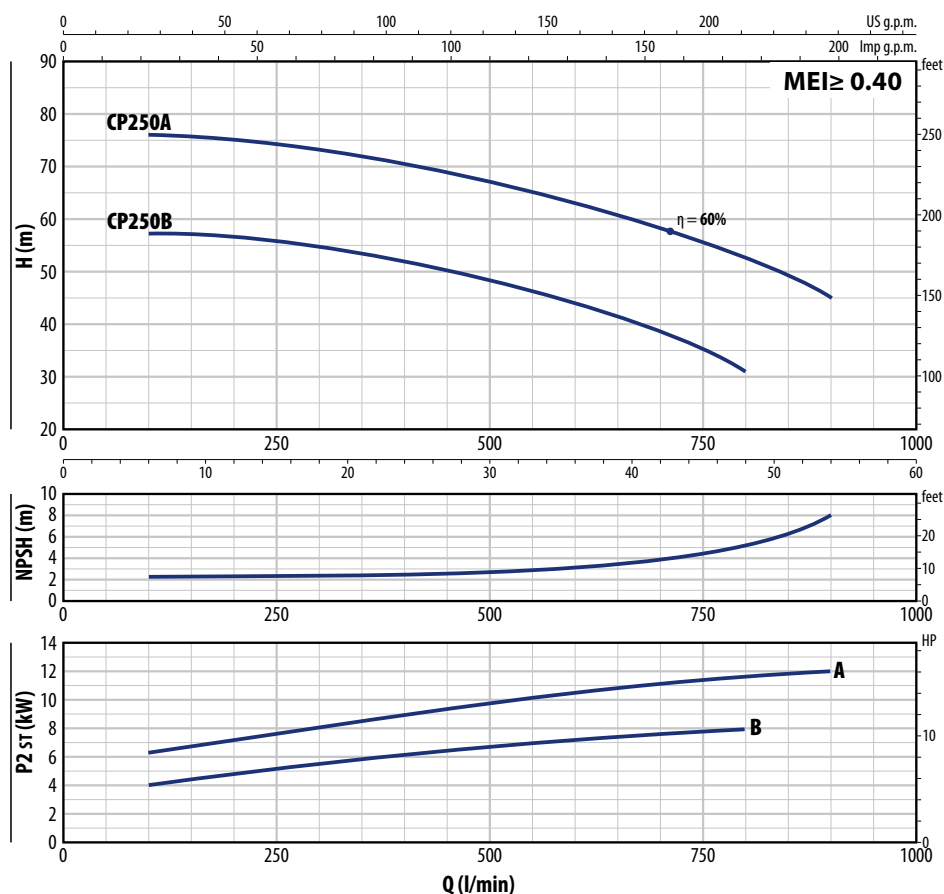
Q = Flow rate H = Total manometric head HS = Suction height

Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

CURVES AND PERFORMANCE DATA – HS=0 m

50 Hz

CP 250



CP 250

TYPE	POWER (P ₂)		3~	Q	m ³ /h	0	6	12	18	24	30	36	42	48	54
Three-phase	kW	HP			l/min	0	100	200	300	400	500	600	700	800	900
CP 250B	7.5	10	IE3	H	metres	57	57	56.5	54.5	52	48.5	44	38	31	
CP 250A	11	15			76	76	75	73.5	71	67.5	63	58	52	45	

Q = Flow rate H = Total manometric head HS = Suction height

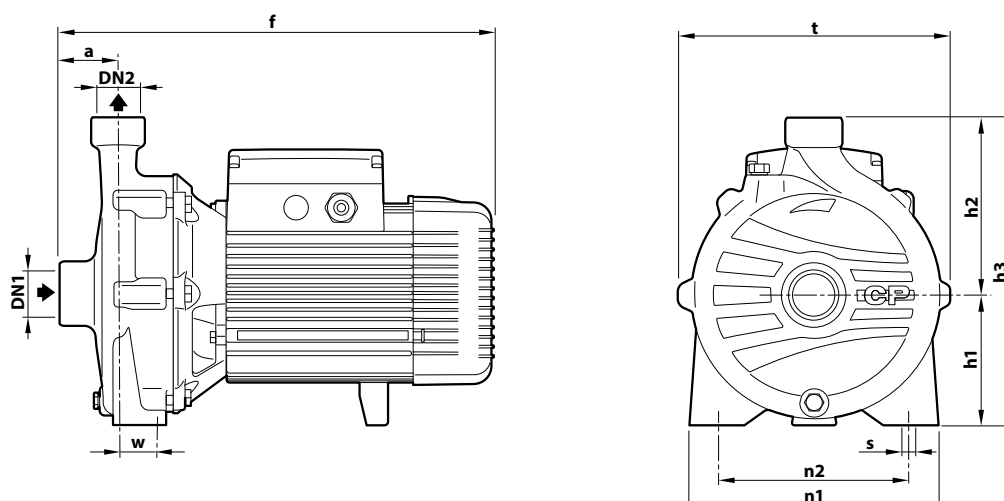
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	VOLTAGE
Single-phase	230 V
CPm 160C	8.5 A
CPm 160B	10.3 A
CPm 160A	13.0 A
CPm 220C	14.2 A

TYPE	VOLTAGE			
Three-ph.	230 V - Δ	400 V - Δ	400 V - Δ	690 V - Δ
CP 160C	5.7 A	3.3 A	–	–
CP 160B	6.9 A	4.0 A	–	–
CP 160A	8.8 A	5.1 A	–	–
CP 210B	12.6 A	7.3 A	–	–
CP 210A	15.1 A	8.7 A	–	–
CP 220C	9.0 A	5.2 A	–	–
CP 220B	12.6 A	7.3 A	–	–
CP 220A	17.0 A	9.8 A	–	–
CP 220AH	–	–	11.5 A	6.6 A
CP 230C	13.1 A	7.6 A	–	–
CP 230B	16.8 A	9.7 A	–	–
CP 230A	–	–	11.5 A	6.6 A
CP 250B	–	–	15.0 A	8.7 A
CP 250A	–	–	22.5 A	13.0 A

DIMENSIONS AND WEIGHT



TYPE		PORTS		DIMENSIONS mm										kg	
Single-ph.	Three-ph.	DN1	DN2	a	f	h1	h2	h3	t	n1	n2	w	s	1~	3~
CPm 160C	CP 160C	1½"	1"	54	370	110	150	260	–	206	165	44.5	11	18.7	18.8
CPm 160B	CP 160B				20.0									20.0	
CPm 160A	CP 160A				22.7									22.9	
–	CP 210B			60	454	132	180	312		274	205	35		–	33.8
–	CP 210A													–	37.2
CPm 220C	CP 220C	2"	2"	70	428	132	183	315	243	230	170	40	14	29.5	32.3
–	CP 220B			70	468	136	192	328	273	250	190	40		–	34.2
–	CP 220A													–	41.0
–	CP 220AH													–	47.0
–	CP 230C													–	37.2
–	CP 230B													–	41.0
–	CP 230A													–	46.0
–	CP 250B			65	519	160	232	392	317	294	230	45		–	67.0
–	CP 250A				570									–	98.0

PALLET CAPACITY

TYPE		NO. OF PUMPS
Single-ph.	Three-ph.	
CPm 160C	CP 160C	50
CPm 160B	CP 160B	50
CPm 160A	CP 160A	35
-	CP 210B	18
-	CP 210A	18

TYPE		NO. OF PUMPS
Single-ph.	Three-ph.	
CPm 220C	CP 220C	18
-	CP 220B	18
-	CP 220A	18
-	CP 220AH	18
-	CP 230C	18
-	CP 230B	18
-	CP 230A	18
-	CP 250B	6
-	CP 250A	6

CONSTRUCTION FEATURES

1	Pump body	Cast iron with ISO 228/1 threaded ports			
2	Cover	Cast iron			
3	Impeller	Stainless steel for CP160 Brass for CP 210, CP 220, CP 230 Cast iron for CP 250			
4	Mechanical seal	Pump	Seal	Shaft	Materials
		CP 160C-B-A	FN-18	Ø 18 mm	Graphite / Ceramic / NBR
		CP 220C	FN-20	Ø 20 mm	Graphite / Ceramic / NBR
		CP 210B-A	FN-24	Ø 24 mm	Graphite / Ceramic / NBR
		CP 220B-A-AH			
		CP 230C-B-A			
		CP 250B			
		CP 250A	FN-32 NU	Ø 32 mm	Graphite / Ceramic / NBR
5	Motor shaft	Stainless steel AISI 431			
6	Electric motor	CPm: single-phase 230 V - 50 Hz. CP: three-phase 230/400 V - 50 Hz up to 4 kW. 400/690 V - 50 Hz from 5.5 to 11 kW. ※ Pumps are equipped with high-efficiency motors (IEC 60034-30-1) class IE2 for single-phase models class IE3 for three-phase models Continuous running duty S1			

