

※ New version featuring a 20% reduction in noise levels.



PERFORMANCE RANGE

- Flow rate up to **90 l/min** (5.4 m³/h)
- Head up to **100 m**

INSTALLATION AND USE

Peripheral pump with radial suction.

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

Its compact design and efficient hydraulic performance make it ideal for **domestic applications**.

APPLICATION LIMITS

- Manometric suction head up to **8 m**
- Liquid temperature between **-10 °C** and **+60 °C**
- Ambient temperature up to **+40 °C**
(**+50 °C** for PQ 60 and PQ 61)
- Maximum working pressure:
 - **6 bar** for PQ 60, PQ 61, PQ 65
 - **7 bar** for PQ 80
 - **10 bar** for PQ 90, PQ 100, PQ 200, PQ 300

AVAILABLE UPON REQUEST

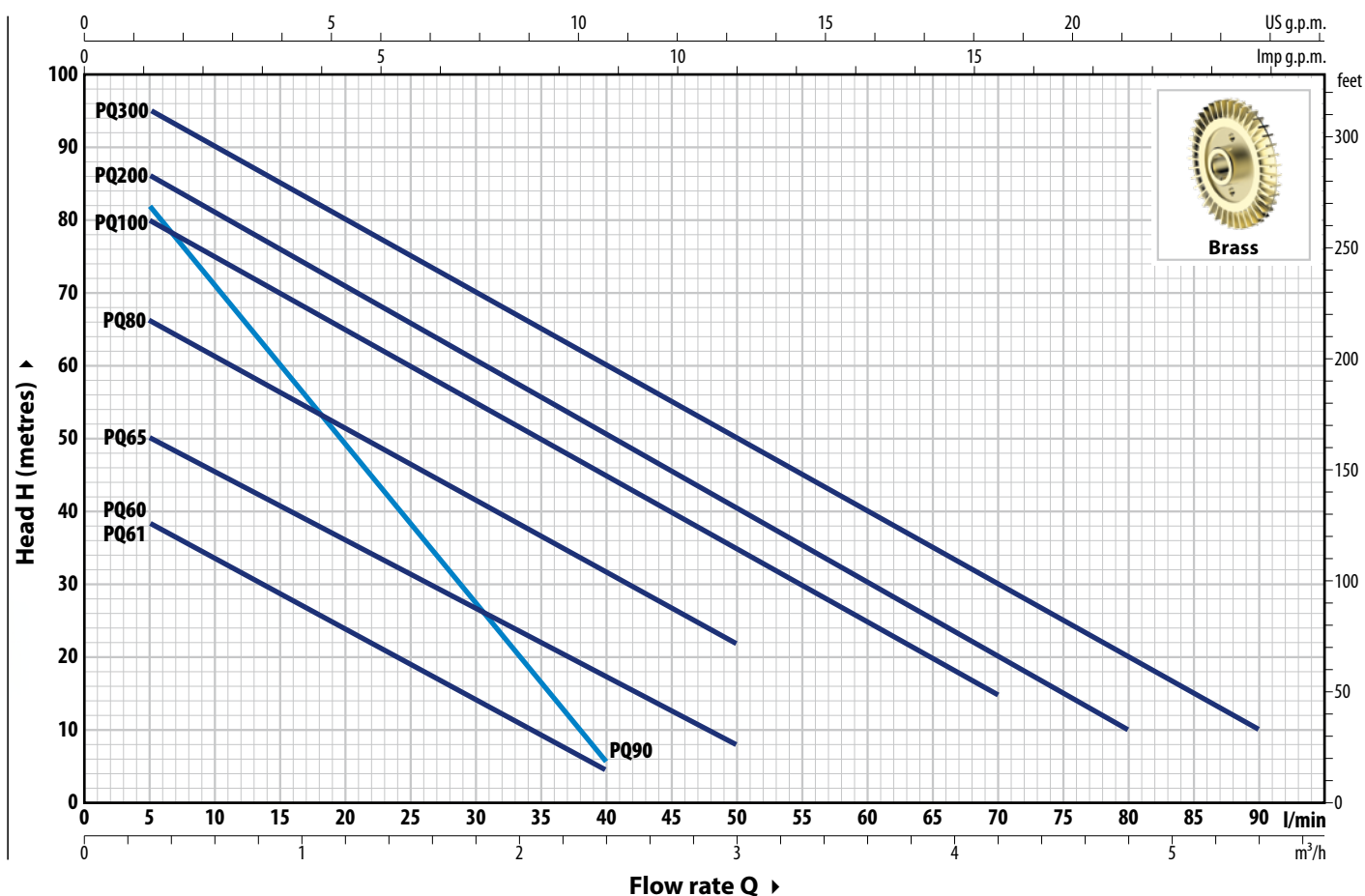
- ※ Pumps for industrial use
- ※ Mechanical seal options available
- ※ Protection rating IPX5 for PQ 80-90-100-200-300
- ※ Different voltage or frequency

PATENTS - TRADE MARKS - MODELS

- Motor bracket: Patent No. IT1243605
- Registered community model No. 002146548
- PQm 60® Registered trademark No. 0001520591

CURVES AND PERFORMANCE DATA – HS=0 m

60 Hz



TYPE		POWER (P ₂)		3~	Q																			
Single-ph.	Three-ph.	kW	HP			m³/h	0	0.3	0.6	0.9	1.2	1.5	1.8	2.1	2.4	3.0	3.6	4.2	4.8	5.4				
					l/min	0	5	10	15	20	25	30	35	40	50	60	70	80	90					
PQm 60	PQ 60	0.37	0.50	IE2	H m	40	38	33.5	29	24	19.5	15	10	5										
PQm 61	PQ 61	0.37	0.50			40	38	33.5	29	24	19.5	15	10	5										
PQm 65	PQ 65	0.55	0.75			55	50	45.5	40.5	36	31	27	22	17	8									
PQm 80	PQ 80	0.75	1	IE3		70	66	61	56	51	46	41	36.5	31	22									
PQm 90	PQ 90	0.75	1			90	82	71	60	49	38	27	17	5										
PQm 100	PQ 100	1.1	1.5			85	80	75	70	65	60	55	50	45	35	25	15							
PQm 200	PQ 200	1.5	2			90	86	81	76	71	65.5	60	55	50	40	30	20	10						
PQm 300	PQ 300	2.2	3			100	95	90	85	80	75	70	65	60	50	40	30	20	10					

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

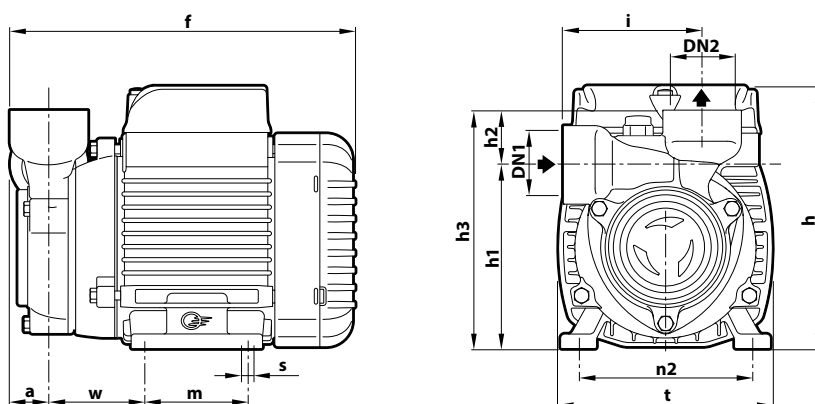
Performance curves comply with EN ISO 9906 Grade 3B tolerance limits.

ABSORPTION

TYPE	VOLTAGE	
	220 V	110 V
Single-ph.		
PQm 60	2.6 A	5.6 A
PQm 61	2.6 A	5.6 A
PQm 65	5.8 A	10.6 A
PQm 80	6.3 A	13.0 A
PQm 90	5.6 A	11.5 A
PQm 100	10.2 A	–
PQm 200	12.0 A	–
PQm 300	12.5 A	–

TYPE	VOLTAGE			
	220 V - Δ	380 V - Δ	220 V - Δ	440 V - Δ
Three-ph.				
PQ 60	2.0 A	1.15 A	2.1 A	1.2 A
PQ 61	2.0 A	1.15 A	2.1 A	1.2 A
PQ 65	3.2 A	1.85 A	2.7 A	1.5 A
PQ 80	3.8 A	2.2 A	3.8 A	2.2 A
PQ 90	4.2 A	2.4 A	4.2 A	2.4 A
PQ 100	8.3 A	4.8 A	6.5 A	3.6 A
PQ 200	9.2 A	5.3 A	7.0 A	4.2 A
PQ 300	10.0 A	5.8 A	8.2 A	4.8 A

DIMENSIONS AND WEIGHT



TYPE		PORTS		DIMENSIONS mm												kg	
Single-ph.	Three-ph.	DN1	DN2	a	f	h	h1	h2	h3	i	m	t	n2	w	s	1~	3~
PQm 60	PQ 60	1"	1"	22	192	145	101	30	131	76	55	118	94-100	53	7	4.9	4.9
PQm 61	PQ 61	½"	½"					32.5	133.5							4.9	4.9
PQm 65	PQ 65	1"	1"					30	143							6.8	6.2
PQm 80	PQ 80	1"	1"	22	256	152 ^(*)	121	30	151	83	90	142	112	62.5	9	9.9	9.9
PQm 90	PQ 90	¾"	¾"					27	153							10.1	10.1
PQm 100	PQ 100	1"	1"					28	168							14.3	14.3
PQm 200	PQ 200	1"	1"	29	322.5	211	140	28	168	88	100	164	125	95	9	15.4	15.4
PQm 300	PQ 300	1"	1"		342.5											18.2	18.2

(*) h=199 mm for single-phase 110 V versions

PALLET CAPACITY

TYPE		GROUPAGE n. pumps	CONTAINER n. pumps
Single-ph.	Three-ph.		
PQm 60	PQ 60	240	330
PQm 61	PQ 61	240	330
PQm 65	PQ 65	210	270
PQm 80	PQ 80	102	170
PQm 90	PQ 90	102	170
PQm 100	PQ 100	72	96
PQm 200	PQ 200	72	96
PQm 300	PQ 300	72	96

CONSTRUCTION FEATURES

- 1 Pump body** Cast iron with ISO 228/1 threaded ports
For PQ 61: cast iron with anti-locking treatment with ISO 228/1 threaded ports

- 2 Motor bracket** Aluminum with brass cover and front scraping anti-locking function (patented)

- 3 Impeller** Brass, radial peripheral vane type

4 Mechanical seal	Pump	Seal	Shaft	Materials
	PQ 60-61-65-80	AR-12	Ø 12 mm	Ceramic / Graphite / NBR
	PQ 90	ST1-12	Ø 12 mm	Silicon carbide / Graphite / NBR
	PQ 100-200-300	FN-14	Ø 14 mm	Graphite / Ceramic / NBR

- 5 Motor shaft** Stainless steel **AISI 431** (EN 10088-3 - 1.4104 for PQ 60, PQ 61, PQ 65)

- 6 Electric motor**
- PQm:** single-phase 220 V - 60 Hz with winding integrated thermal motor protection.
PQ: three-phase 220/380 V - 60 Hz or 220/440 V - 60 Hz
- The three-phase pumps are fitted with high performance motors up to P2=0.55 kW in class **IE2** and from P2=0.75 kW in class **IE3** (IEC 60034-30-1)
 - Continuous running duty **S1**
 - Insulation: class F
 - Protection rating: IPX4

